wwPDB EM Map/Model Validation Report (i)

Apr 10, 2016 – 03:48 PM BST

PDB ID	:	4V8M
EMDB ID:	:	EMD-2239
Title	:	High-resolution cryo-electron microscopy structure of the Trypanosoma brucei ribosome
Authors	:	Hashem, Y.; des Georges, A.; Fu, J.; Buss, S.N.; Jossinet, F.; Jobe, A.; Zhang, Q.; Liao, H.Y.; Grassucci, R.A.; Bajaj, C.; Westhof, E.; Madison-Antenucci, S.; Frank, J.
Deposited on	:	2012-12-09
Resolution	:	5.57 Å(reported)
Based on PDB ID	:	3U5B, 3U5C, 3U5D, 3U5E, 3U5F, 3U5G, 3U5H, 3U5I, 4A18, 4A1E, 4A17, 4A19, 4A1A, 4A1B, 4A1C, 4A1D, 2XZM, 2XZN, 3IZR, 3IZ6, 3IZ7, 3IZ9

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could
stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
http://wwpdb.org/validation/2016/EMValidationReportHelp

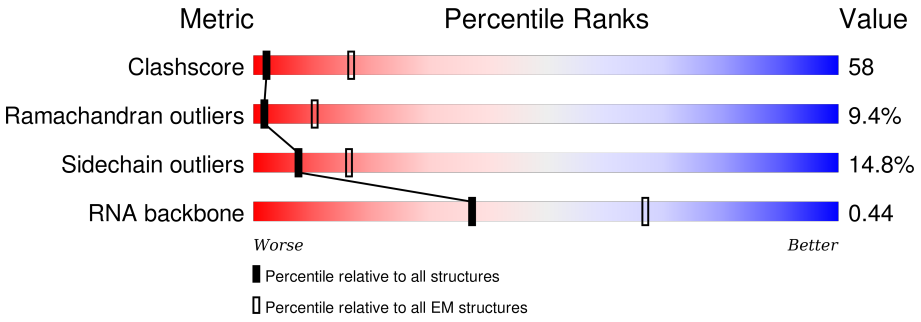
MolProbity	:	4.02b-467
Mogul	:	unknown
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk27241

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 5.57 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686
RNA backbone	3027	244

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A0	256	39% 30% 14% • 14%
2	A1	273	34% 40% 12% • 9%
3	A2	190	53% 27% 13% 5% •
4	A3	250	35% 42% 18% 5%
5	A4	202	35% 29% 22% 9% 5%
6	A5	220	40% 32% 12% 5% 11%
7	A6	190	41% 32% 15% 11% •
8	A7	318	53% 36% 8% ••

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Mol	Chain	Length	Quality of chain
9	A8	57	39% 26% 7% 26%
10	A9	153	24% 13% 6% 57%
11	AC	277	30% 27% 12% 26%
12	AD	172	30% 19% 9% 40%
13	AE	174	40% 33% 12% 7% 8%
14	AF	144	69% 12% 16%
15	AG	151	46% 25% 15% 7% 7%
16	AH	144	38% 33% 13% 13%
17	AI	152	51% 30% 5% 12%
18	AJ	130	47% 35% 14%
19	AK	149	56% 26% 11% 7%
20	AL	142	40% 33% 14% 11%
21	AM	153	49% 29% 12% 10%
22	AO	167	44% 30% 12% 11%
23	AP	266	29% 32% 18% 5% 16%
24	AQ	117	45% 30% 8% 7% 10%
25	AR	194	12% 13% 12% 58%
26	AS	143	52% 32% 10%
27	AT	137	36% 31% 14% 15%
28	AU	113	44% 25% 5% 24%
29	AV	111	41% 33% 10% 6% 9%
30	AW	86	37% 40% 15% 5%
31	AX	214	54% 35% 7%
32	AY	66	39% 30% 18% 11%
33	AZ	103	31% 25% 9% 34%

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Mol	Chain	Length	Quality of chain
34	BA	1847	18% 80%
35	BB	1465	5% 25% 70%
36	BC	169	21% 78%
37	BD	119	21% 79%
38	BE	210	15% 84%
39	BF	73	8% 92%
40	BG	182	17% 83%
41	BH	135	28% 69%
42	BI	193	39% 35% 19% 7%
43	BJ	214	83% 13%
44	BK	213	34% 38% 19% 8%
45	BL	194	37% 32% 13% 5% 12%
46	BM	164	72% 12% 15%
47	BN	218	29% 33% 20% 18%
48	BO	222	37% 34% 13% 6% 9%
49	BP	189	34% 39% 19% 6%
50	BQ	221	38% 32% 15% 6% 8%
51	BR	166	33% 35% 20% 5% 7%
52	BS	179	33% 36% 22% 8%
53	BT	260	34% 25% 11% 7% 23%
54	BU	159	42% 31% 17% 9%
55	BV	130	52% 19% 7% 20%
56	BW	139	38% 37% 17% 7%
57	BX	164	27% 31% 10% 5% 26%
58	BY	125	32% 28% 14% 6% 20%

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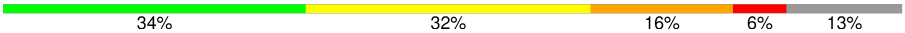
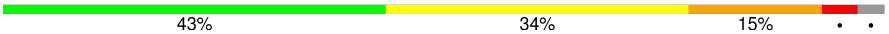
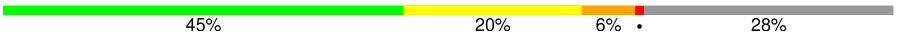
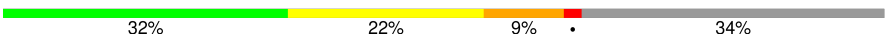
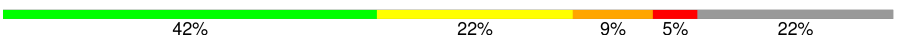
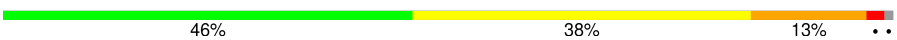
Mol	Chain	Length	Quality of chain
59	BZ	143	
60	Ba	133	
61	Bb	145	
62	Bc	146	
63	Bd	71	
64	Be	260	
65	Bf	429	
66	Bg	105	
67	Bh	188	
68	Bi	132	
69	Bj	170	
70	Bk	127	
71	Bl	149	
72	Bm	109	
73	Bn	84	
74	Bo	93	
75	Bp	82	
76	Bq	51	
77	Br	374	
78	Bs	128	
79	Bt	106	
80	Bu	308	
81	Bv	192	
82	Bw	257	
83	Bx	276	

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Mol	Chain	Length	Quality of chain
84	By	189	
85	AA	2251	
86	AB	73	

2 Entry composition

There are 86 unique types of molecules in this entry. The entry contains 232955 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called 40S RIBOSOMAL PROTEIN S3A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A0	219	1782	1124	337	313	8	0	1

- Molecule 2 is a protein called 40S RIBOSOMAL PROTEIN S4, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	A1	248	1940	1232	360	339	9	0	1

- Molecule 3 is a protein called 40S RIBOSOMAL PROTEIN S5, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	A2	187	1484	928	286	265	5	0	0

- Molecule 4 is a protein called 40S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	A3	250	2003	1243	415	341	4	0	0

- Molecule 5 is a protein called RIBOSOMAL PROTEIN S7, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	A4	192	1592	1014	310	263	5	0	1

- Molecule 6 is a protein called 40S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	A5	195	1551	975	315	259	2	0	1

- Molecule 7 is a protein called 40S RIBOSOMAL PROTEIN S9, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A6	187	Total	C	N	O	S	0	1
			1518	951	307	253	7		

- Molecule 8 is a protein called GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	A7	315	Total	C	N	O	S	0	1
			2412	1508	429	462	13		

- Molecule 9 is a protein called RIBOSOMAL PROTEIN S29, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	A8	42	Total	C	N	O	S	0	0
			334	204	69	57	4		

- Molecule 10 is a protein called UBIQUITIN/RIBOSOMAL PROTEIN S27A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	A9	66	Total	C	N	O	S	0	1
			530	330	102	91	7		

- Molecule 11 is a protein called 40S RIBOSOMAL PROTEIN SA, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AC	204	Total	C	N	O	S	0	1
			1620	1034	293	282	11		

- Molecule 12 is a protein called 40S RIBOSOMAL PROTEIN S10, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AD	104	Total	C	N	O	S	0	1
			853	553	148	147	5		

- Molecule 13 is a protein called 40S RIBOSOMAL PROTEINS S11, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AE	160	Total	C	N	O	S	0	0
			1300	812	262	220	6		

- Molecule 14 is a protein called 40S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AF	121	Total	C	N	O	S	0	0
			940	578	169	184	9		

- Molecule 15 is a protein called 40S RIBOSOMAL PROTEIN S13, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AG	141	Total	C	N	O	S	0	0
			1148	724	227	190	7		

- Molecule 16 is a protein called 40S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AH	126	Total	C	N	O	S	0	1
			922	572	167	174	9		

- Molecule 17 is a protein called 40S RIBOSOMAL PROTEIN S15, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AI	134	Total	C	N	O	S	0	1
			1074	679	211	181	3		

- Molecule 18 is a protein called 40S RIBOSOMAL PROTEIN S15A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AJ	129	Total	C	N	O	S	0	0
			1018	645	191	174	8		

- Molecule 19 is a protein called 40S RIBOSOMAL PROTEIN S16, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AK	148	Total	C	N	O	S	0	0
			1190	757	225	205	3		

- Molecule 20 is a protein called 40S RIBOSOMAL PROTEIN S17, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AL	127	Total	C	N	O	S	0	1
			1021	641	198	177	5		

- Molecule 21 is a protein called 40S RIBOSOMAL PROTEIN S18, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AM	153	Total	C	N	O	S	0	0
			1229	764	244	215	6		

- Molecule 22 is a protein called RIBOSOMAL PROTEIN S19, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	AO	149	Total	C	N	O	S	0	0
			1181	746	230	196	9		

- Molecule 23 is a protein called 40S RIBOSOMAL PROTEIN S2, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AP	224	Total	C	N	O	S	0	1
			1731	1103	309	310	9		

- Molecule 24 is a protein called RIBOSOMAL PROTEIN S20, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AQ	105	Total	C	N	O	S	0	1
			827	522	153	149	3		

- Molecule 25 is a protein called 40S RIBOSOMAL PROTEIN S21, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	AR	81	Total	C	N	O	S	0	1
			603	374	108	118	3		

- Molecule 26 is a protein called 40S RIBOSOMAL PROTEIN S23, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AS	142	Total	C	N	O	S	0	0
			1116	706	219	189	2		

- Molecule 27 is a protein called 40S RIBOSOMAL PROTEIN S24.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	AT	131	Total	C	N	O	S	0	0
			1050	666	206	174	4		

- Molecule 28 is a protein called 40S RIBOSOMAL PROTEIN S25, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	AU	86	Total	C	N	O	S	0	1
			673	427	127	114	5		

- Molecule 29 is a protein called RIBOSOMAL PROTEIN S26, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	AV	101	Total	C	N	O	S	0	1
			809	498	172	131	8		

- Molecule 30 is a protein called 40S RIBOSOMAL PROTEIN S27, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	AW	83	Total	C	N	O	S	0	1
			636	396	120	111	9		

- Molecule 31 is a protein called 40S RIBOSOMAL PROTEIN S3, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AX	206	Total	C	N	O	S	0	1
			1628	1020	307	289	12		

- Molecule 32 is a protein called 40S RIBOSOMAL PROTEIN S30, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AY	65	Total	C	N	O	S	0	0
			514	322	107	84	1		

- Molecule 33 is a protein called 40S RIBOSOMAL PROTEIN S33, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	AZ	68	Total	C	N	O	S	0	0
			526	315	107	100	4		

- Molecule 34 is a RNA chain called ALPHA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT 28S RRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BA	1847	Total	C	N	O	P	0	0
			39395	17589	7008	12952	1846		

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	?	-	C	DELETION	GB X14553
BA	?	-	T	DELETION	GB X14553
BA	?	-	T	DELETION	GB X14553
BA	?	-	C	DELETION	GB X14553
BA	?	-	C	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	?	-	C	DELETION	GB X14553
BA	?	-	C	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	?	-	T	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	?	-	G	DELETION	GB X14553
BA	799	A	-	INSERTION	GB X14553

- Molecule 35 is a RNA chain called BETA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT 28S RRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
35	BB	1465	31164	13918	5476	10306	1464	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	484	G	-	INSERTION	GB X14553
BB	485	U	-	INSERTION	GB X14553
BB	486	G	-	INSERTION	GB X14553
BB	487	A	-	INSERTION	GB X14553

- Molecule 36 is a RNA chain called 5.8S RRNA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
36	BC	169	3584	1604	629	1183	168	0	0

- Molecule 37 is a RNA chain called 5S RRNA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BD	119	Total	C	N	O	P	0	0
			2533	1131	449	835	118		

- Molecule 38 is a RNA chain called SHORT RRNA-I OF THE LARGE RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	BE	210	Total	C	N	O	P	0	0
			4441	1986	768	1478	209		

- Molecule 39 is a RNA chain called SHORT RRNA-II OF THE LARGE RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BF	73	Total	C	N	O	P	0	0
			1521	682	247	520	72		

- Molecule 40 is a RNA chain called SHORT RRNA-III OF THE LARGE RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	BG	182	Total	C	N	O	P	0	0
			3896	1737	706	1272	181		

- Molecule 41 is a RNA chain called SHORT RRNA-IV OF THE LARGE RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BH	135	Total	C	N	O	P	0	0
			2867	1280	502	951	134		

- Molecule 42 is a protein called 60S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BI	192	Total	C	N	O	S	0	0
			1527	956	315	248	8		

- Molecule 43 is a protein called RIBOSOMAL PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	BJ	214	Total	C	N	O	S	0	0
			1717	1086	308	307	16		

- Molecule 44 is a protein called 60S RIBOSOMAL PROTEIN L10, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BK	212	Total	C	N	O	S	0	0
			1725	1086	338	287	14		

- Molecule 45 is a protein called 60S RIBOSOMAL PROTEIN L11, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BL	170	Total	C	N	O	S	0	1
			1363	859	258	239	7		

- Molecule 46 is a protein called 60S RIBOSOMAL PROTEIN L12, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BM	139	Total	C	N	O	S	0	1
			1022	642	187	188	5		

- Molecule 47 is a protein called 60S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	BN	216	Total	C	N	O	S	0	1
			1762	1097	366	292	7		

- Molecule 48 is a protein called 60S RIBOSOMAL PROTEIN L13A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	BO	201	Total	C	N	O	S	0	1
			1627	1035	323	262	7		

- Molecule 49 is a protein called PROBABLE 60S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	BP	184	Total	C	N	O	S	0	1
			1484	934	299	247	4		

- Molecule 50 is a protein called RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	BQ	203	Total	C	N	O	S	0	0
			1716	1077	370	264	5		

- Molecule 51 is a protein called 60S RIBOSOMAL PROTEIN L17, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	BR	155	Total	C	N	O	S	0	1
			1245	782	247	208	8		

- Molecule 52 is a protein called 60S RIBOSOMAL PROTEIN L18A.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	BS	179	Total	C	N	O	S	0	0
			1473	931	290	244	8		

- Molecule 53 is a protein called 60S RIBOSOMAL PROTEIN L19, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	BT	200	Total	C	N	O	S	0	1
			1672	1025	366	273	8		

- Molecule 54 is a protein called 60S RIBOSOMAL PROTEIN L21E, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	BU	158	Total	C	N	O	S	0	0
			1260	802	246	206	6		

- Molecule 55 is a protein called 60S RIBOSOMAL PROTEIN L22, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	BV	104	Total	C	N	O	S	0	1
			863	558	152	150	3		

- Molecule 56 is a protein called 60S RIBOSOMAL PROTEIN L23, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	BW	138	Total	C	N	O	S	0	0
			1042	659	198	180	5		

- Molecule 57 is a protein called 60S RIBOSOMAL PROTEIN L23A.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	BX	121	Total	C	N	O	S	0	0
			990	629	186	173	2		

- Molecule 58 is a protein called 60S RIBOSOMAL PROTEIN L24, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	BY	100	Total	C	N	O	S	0	0
			836	530	171	130	5		

- Molecule 59 is a protein called 60S RIBOSOMAL PROTEIN L26, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	BZ	125	Total	C	N	O	S	0	1
			1008	623	213	167	5		

- Molecule 60 is a protein called 60S RIBOSOMAL PROTEIN L27, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	Ba	132	Total	C	N	O	S	0	0
			1091	691	222	175	3		

- Molecule 61 is a protein called 60S RIBOSOMAL PROTEIN L27A.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	Bb	144	Total	C	N	O	S	0	0
			1137	717	228	186	6		

- Molecule 62 is a protein called 60S RIBOSOMAL PROTEIN L28, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	Bc	141	Total	C	N	O	S	0	1
			1129	704	226	191	8		

- Molecule 63 is a protein called 60S RIBOSOMAL PROTEIN L29, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	Bd	70	Total	C	N	O	S	0	0
			571	349	128	93	1		

- Molecule 64 is a protein called 60S RIBOSOMAL PROTEIN L2, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	Be	186	Total	C	N	O	S	0	1
			1390	859	284	237	10		

- Molecule 65 is a protein called RIBOSOMAL PROTEIN L3, MITOCHONDRIAL, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	Bf	414	Total	C	N	O	S	0	1
			3317	2084	661	559	13		

- Molecule 66 is a protein called 60S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	Bg	96	Total	C	N	O	S	0	0
			735	457	132	141	5		

- Molecule 67 is a protein called 60S RIBOSOMAL SUBUNIT PROTEIN L31, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	Bh	188	Total	C	N	O	S	0	0
			1526	961	309	250	6		

- Molecule 68 is a protein called 60S RIBOSOMAL PROTEIN L32, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	Bi	129	Total	C	N	O	S	0	1
			1054	664	215	171	4		

- Molecule 69 is a protein called 60S RIBOSOMAL PROTEIN L34, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	Bj	162	Total	C	N	O	S	0	1
			1293	801	286	202	4		

- Molecule 70 is a protein called 60S RIBOSOMAL PROTEIN L35, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	Bk	84	Total	C	N	O	S	0	0
			719	448	161	108	2		

- Molecule 71 is a protein called 60S RIBOSOMAL PROTEIN L35A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	Bl	116	Total	C	N	O	S	0	0
			936	589	189	155	3		

- Molecule 72 is a protein called RIBOSOMAL PROTEIN L36, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	Bm	107	Total	C	N	O	S	0	1
			849	530	178	139	2		

- Molecule 73 is a protein called RIBOSOMAL PROTEIN L37.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	Bn	83	Total	C	N	O	S	0	0
			699	425	161	107	6		

- Molecule 74 is a protein called 60S RIBOSOMAL PROTEIN L37A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	Bo	92	Total	C	N	O	S	0	1
			715	442	148	119	6		

- Molecule 75 is a protein called 60S RIBOSOMAL PROTEIN L38, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	Bp	81	Total	C	N	O	S	0	0
			656	411	130	111	4		

- Molecule 76 is a protein called 60S RIBOSOMAL PROTEIN L39, PUTATIVE.

Mol	Chain	Residues	Atoms				AltConf	Trace
76	Bq	50	Total	C	N	O	0	0
			457	297	98	62		

- Molecule 77 is a protein called 60S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	Br	368	Total	C	N	O	S	0	1
			2883	1802	576	488	17		

- Molecule 78 is a protein called UBIQUITIN-60S RIBOSOMAL PROTEIN L40.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	Bs	52	Total	C	N	O	S	0	0
			427	265	88	67	7		

- Molecule 79 is a protein called 60S RIBOSOMAL PROTEIN L44.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	Bt	105	Total	C	N	O	S	0	0
			866	547	170	144	5		

- Molecule 80 is a protein called 60S RIBOSOMAL PROTEIN L5, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	Bu	299	Total	C	N	O	S	0	1
			2354	1485	447	416	6		

- Molecule 81 is a protein called 60S RIBOSOMAL PROTEIN L6, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	Bv	158	Total	C	N	O	S	0	1
			1222	776	228	215	3		

- Molecule 82 is a protein called 60S RIBOSOMAL PROTEIN L7, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	Bw	257	Total	C	N	O	S	0	0
			2066	1316	394	345	11		

- Molecule 83 is a protein called 60S RIBOSOMAL PROTEIN L7A, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	Bx	240	Total	C	N	O	S	0	0
			1908	1198	375	329	6		

- Molecule 84 is a protein called 60S RIBOSOMAL PROTEIN L9, PUTATIVE.

Mol	Chain	Residues	Atoms					AltConf	Trace
84	By	189	Total	C	N	O	S	0	0
			1540	975	284	277	4		

- Molecule 85 is a RNA chain called 18S RRNA OF THE SMALL RIBOSOMAL SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
85	AA	2227	Total	C	N	O	P	0	0
			47370	21162	8354	15629	2225		

- Molecule 86 is a RNA chain called E-SITE TRNA.

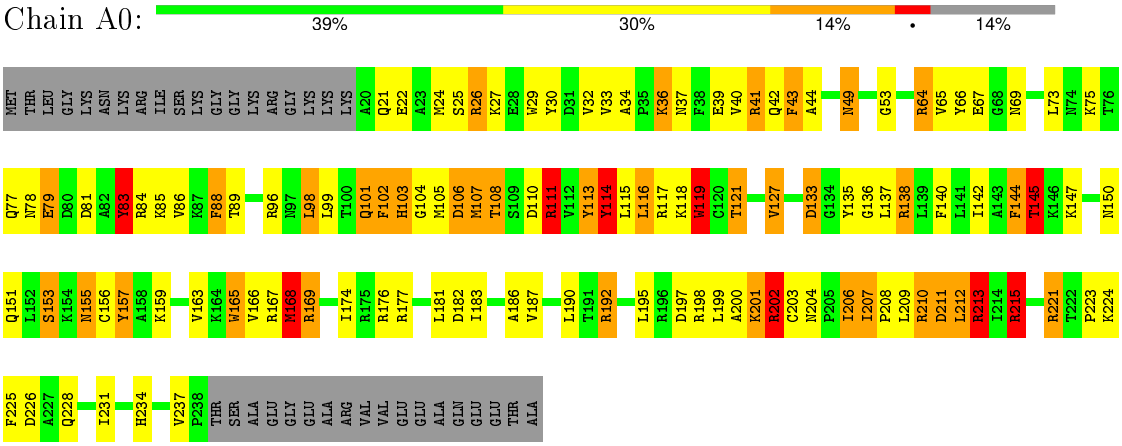
Mol	Chain	Residues	Atoms					AltConf	Trace
86	AB	73	Total	C	N	O	P	0	0
			1557	695	279	511	72		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

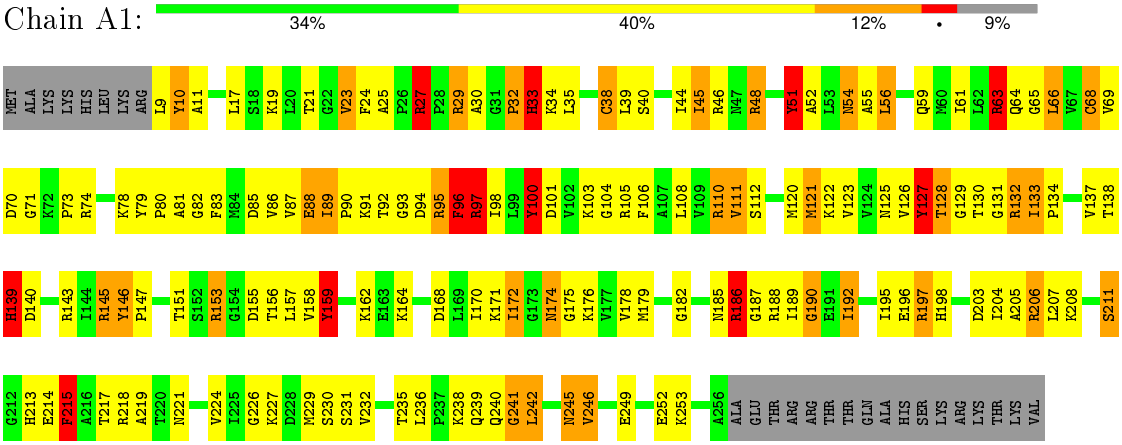
- Molecule 1: 40S RIBOSOMAL PROTEIN S3A, PUTATIVE

Chain A0:



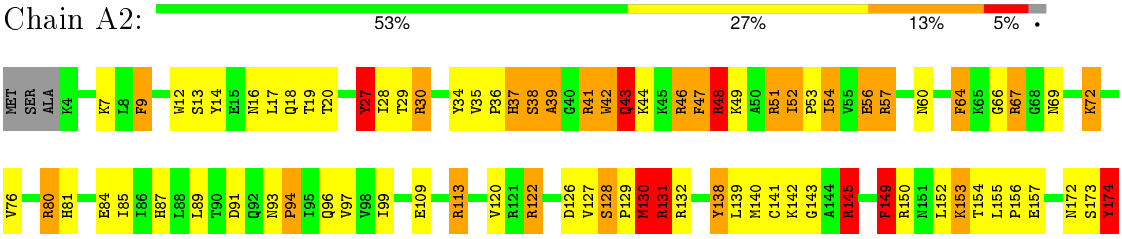
- Molecule 2: 40S RIBOSOMAL PROTEIN S4, PUTATIVE

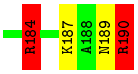
Chain A1:



- Molecule 3: 40S RIBOSOMAL PROTEIN S5, PUTATIVE

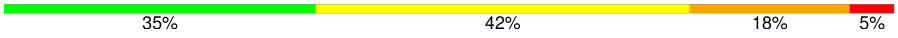
Chain A2:

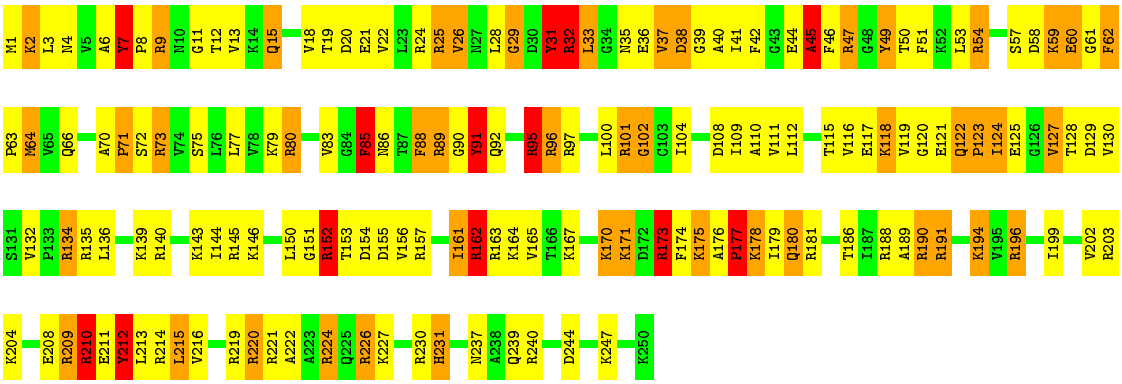




- Molecule 4: 40S RIBOSOMAL PROTEIN S6

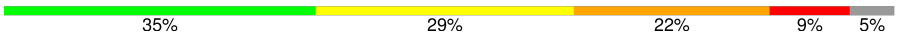
Chain A3:

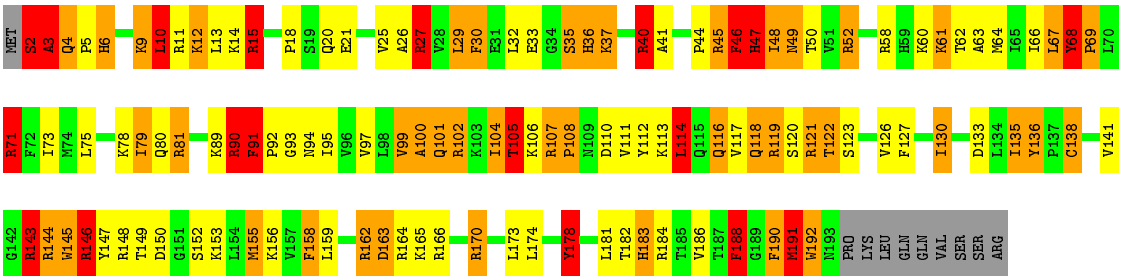




- Molecule 5: RIBOSOMAL PROTEIN S7, PUTATIVE

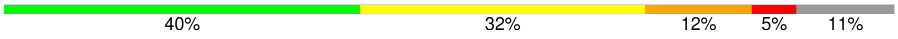
Chain A4:

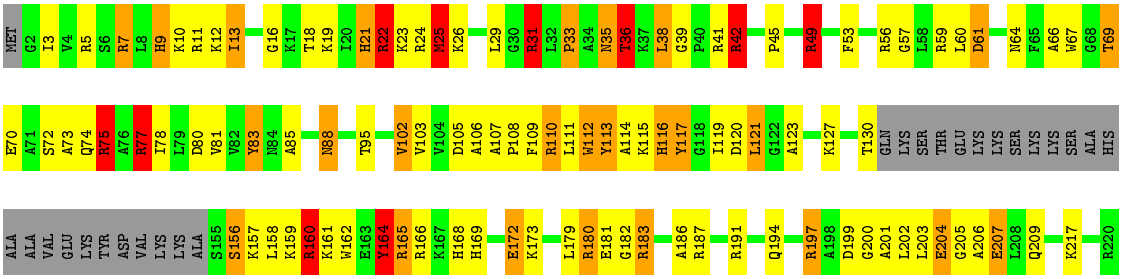




- Molecule 6: 40S RIBOSOMAL PROTEIN S8

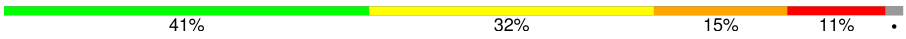
Chain A5:

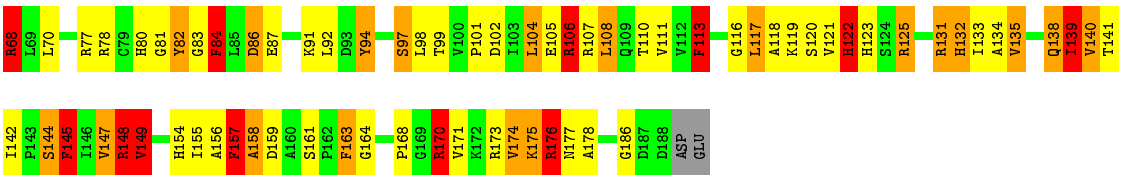




- Molecule 7: 40S RIBOSOMAL PROTEIN S9, PUTATIVE

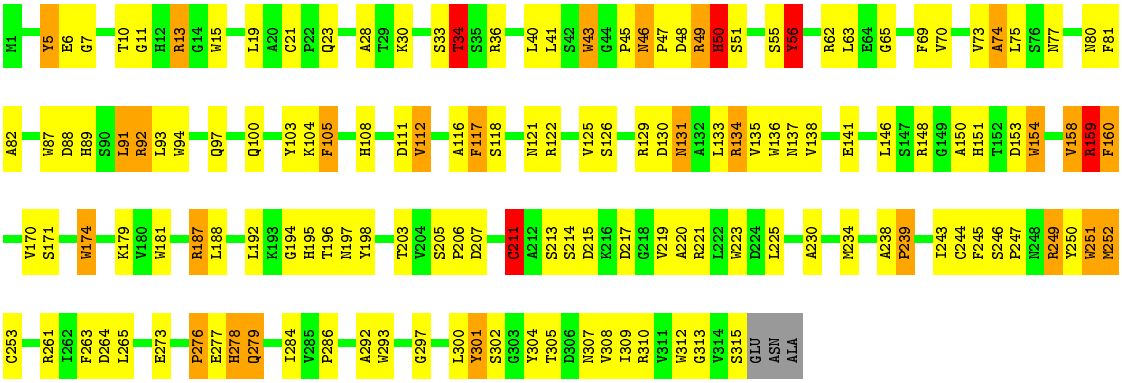
Chain A6:





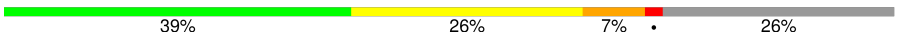
• Molecule 8: GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN

Chain A7:



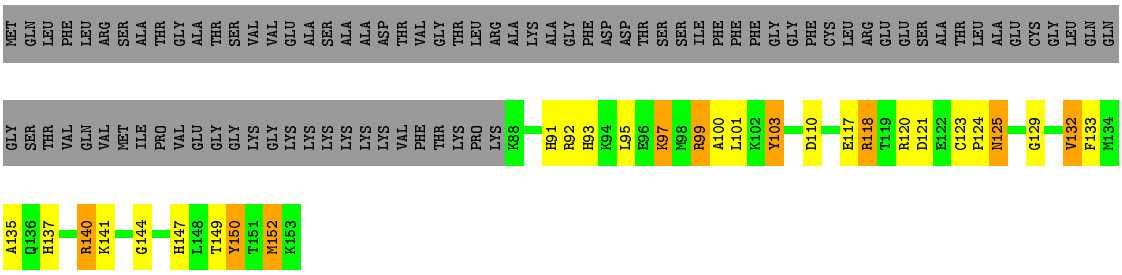
• Molecule 9: RIBOSOMAL PROTEIN S29, PUTATIVE

Chain A8:



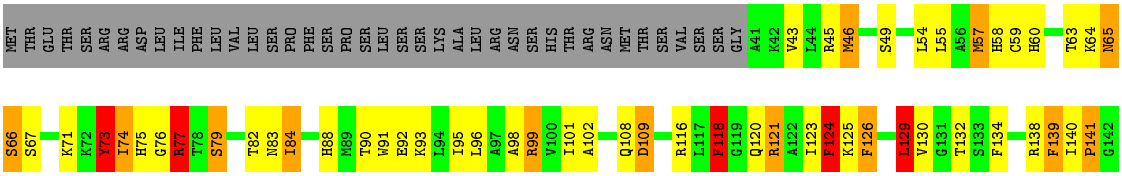
• Molecule 10: UBIQUITIN/RIBOSOMAL PROTEIN S27A, PUTATIVE

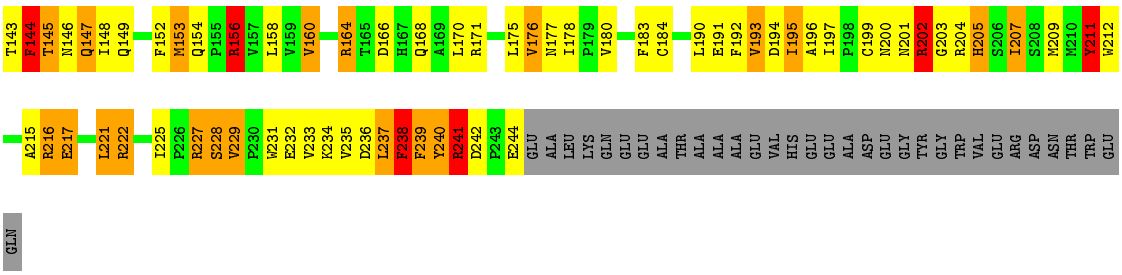
Chain A9:



• Molecule 11: 40S RIBOSOMAL PROTEIN SA, PUTATIVE

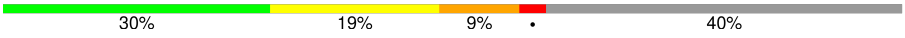
Chain AC:

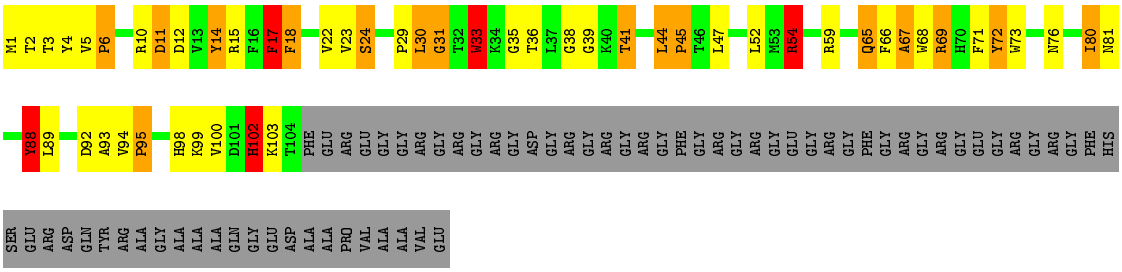




• Molecule 12: 40S RIBOSOMAL PROTEIN S10, PUTATIVE

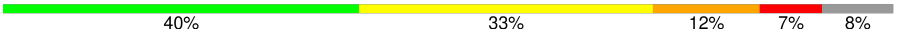
Chain AD:

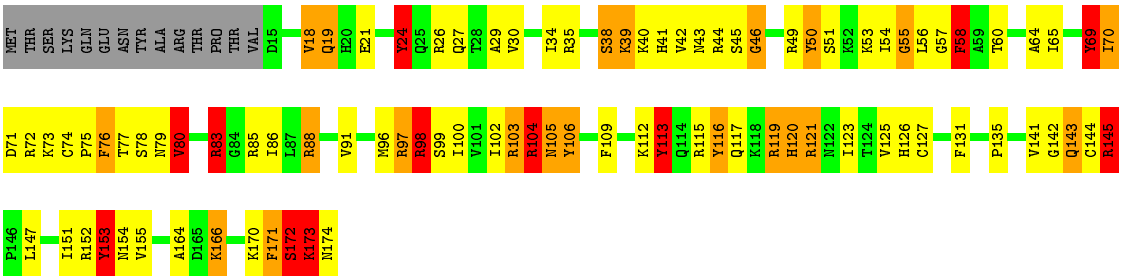




• Molecule 13: 40S RIBOSOMAL PROTEINS S11, PUTATIVE

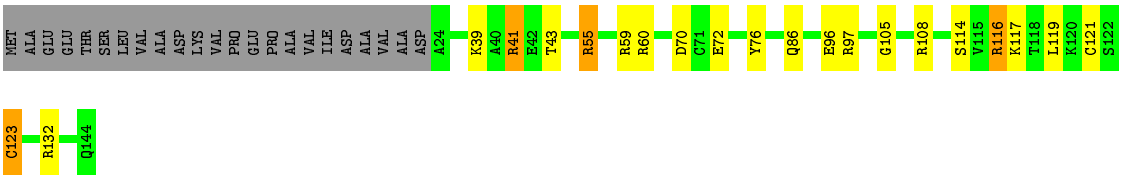
Chain AE:





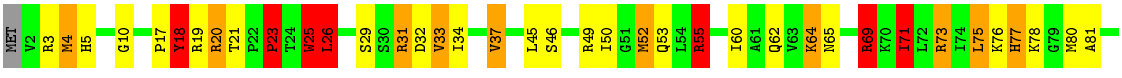
• Molecule 14: 40S RIBOSOMAL PROTEIN S12

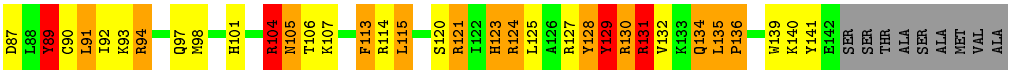
Chain AF:



• Molecule 15: 40S RIBOSOMAL PROTEIN S13, PUTATIVE

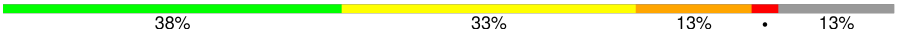
Chain AG:

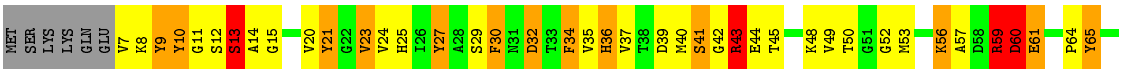




• Molecule 16: 40S RIBOSOMAL PROTEIN S14

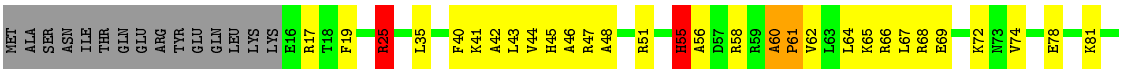
Chain AH:





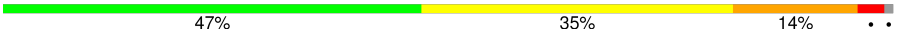
• Molecule 17: 40S RIBOSOMAL PROTEIN S15, PUTATIVE

Chain AI:



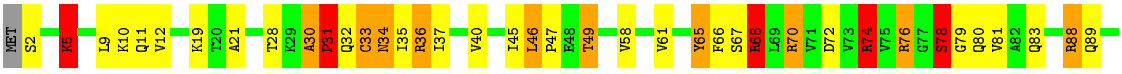
• Molecule 18: 40S RIBOSOMAL PROTEIN S15A, PUTATIVE

Chain AJ:



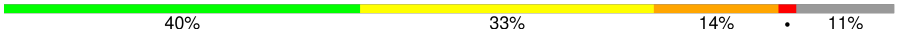
• Molecule 19: 40S RIBOSOMAL PROTEIN S16, PUTATIVE

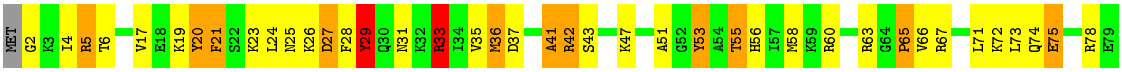
Chain AK:



• Molecule 20: 40S RIBOSOMAL PROTEIN S17, PUTATIVE

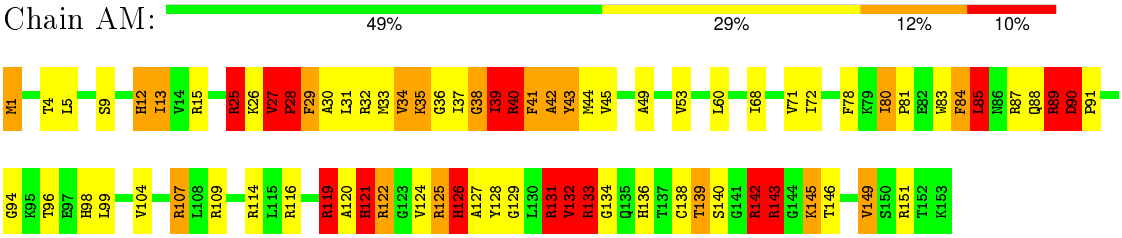
Chain AL:





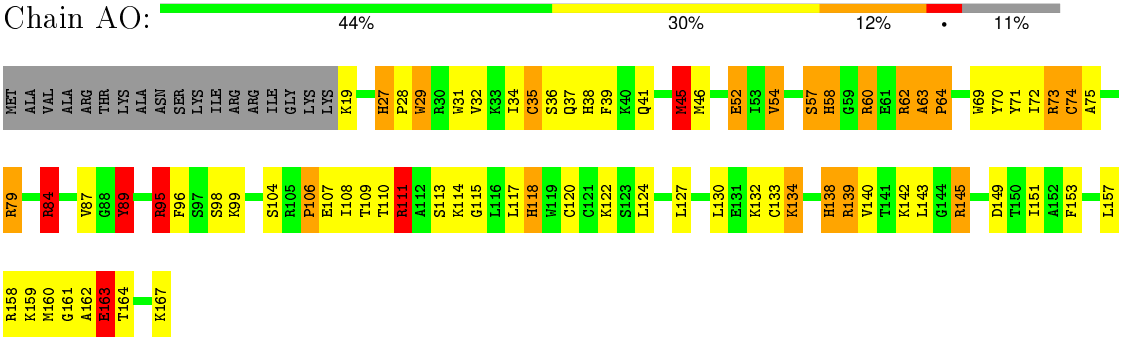
• Molecule 21: 40S RIBOSOMAL PROTEIN S18, PUTATIVE

Chain AM:



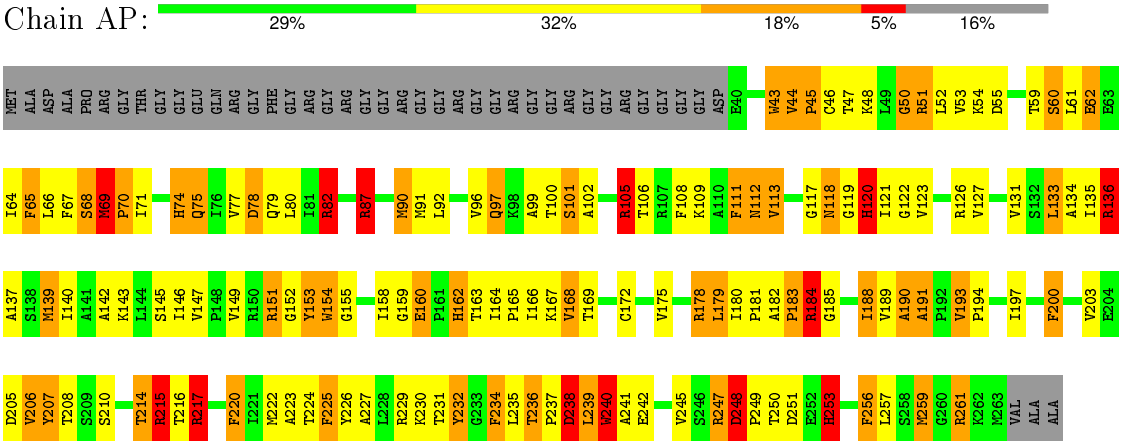
• Molecule 22: RIBOSOMAL PROTEIN S19, PUTATIVE

Chain AO:



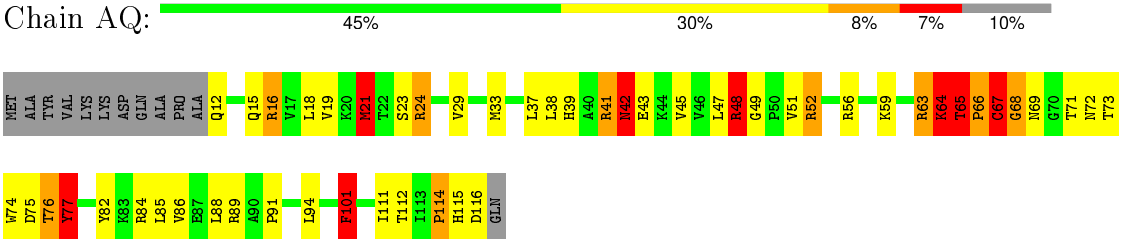
• Molecule 23: 40S RIBOSOMAL PROTEIN S2, PUTATIVE

Chain AP:



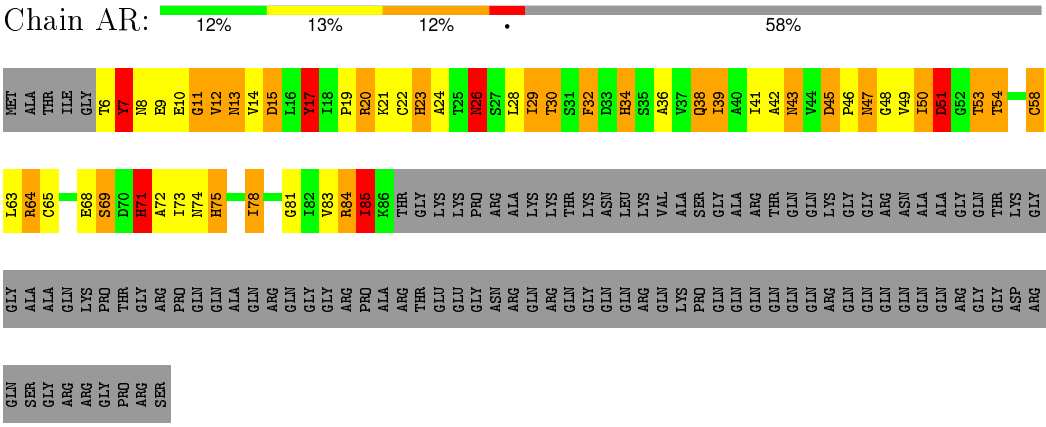
• Molecule 24: RIBOSOMAL PROTEIN S20, PUTATIVE

Chain AQ:



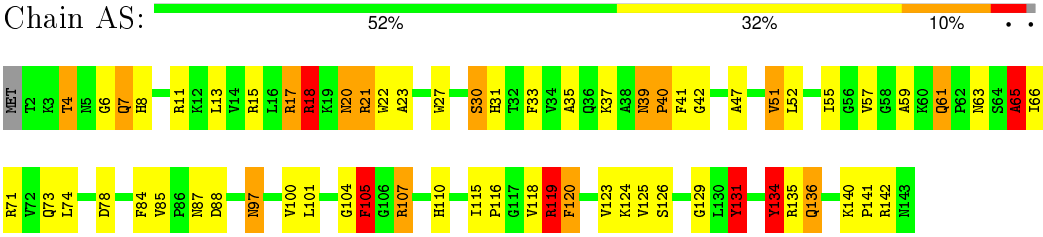
• Molecule 25: 40S RIBOSOMAL PROTEIN S21, PUTATIVE

Chain AR:



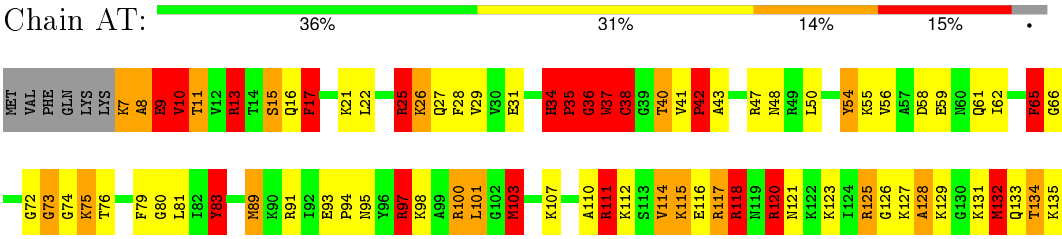
- Molecule 26: 40S RIBOSOMAL PROTEIN S23, PUTATIVE

Chain AS:



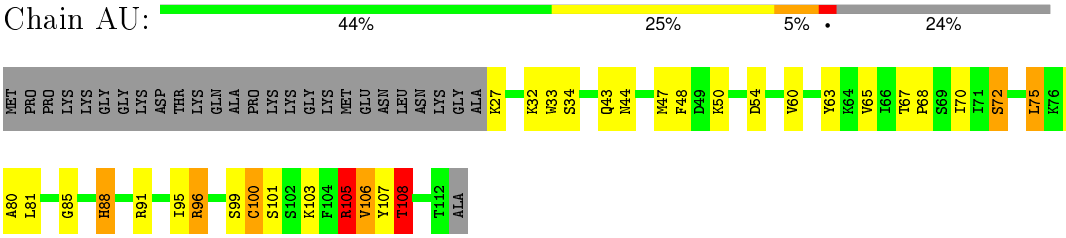
- Molecule 27: 40S RIBOSOMAL PROTEIN S24

Chain AT:



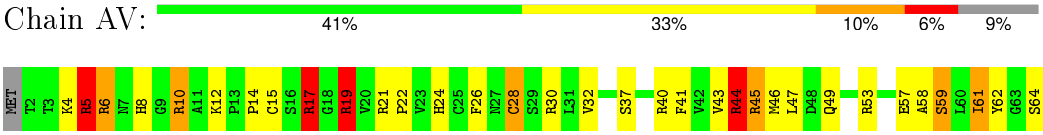
- Molecule 28: 40S RIBOSOMAL PROTEIN S25, PUTATIVE

Chain AU:



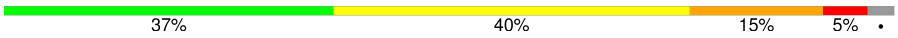
- Molecule 29: RIBOSOMAL PROTEIN S26, PUTATIVE

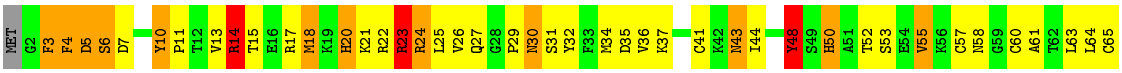
Chain AV:

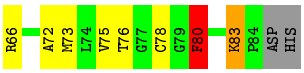


- Molecule 30: 40S RIBOSOMAL PROTEIN S27, PUTATIVE

Chain AW:

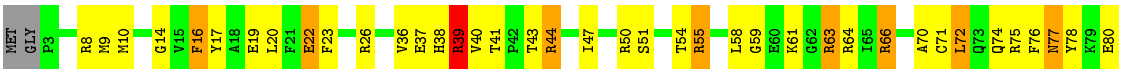


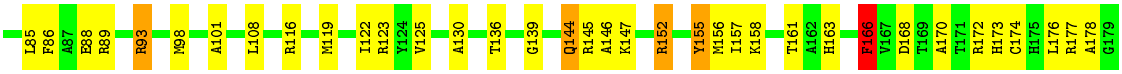




- Molecule 31: 40S RIBOSOMAL PROTEIN S3, PUTATIVE

Chain AX:





- Molecule 32: 40S RIBOSOMAL PROTEIN S30, PUTATIVE

Chain AY:

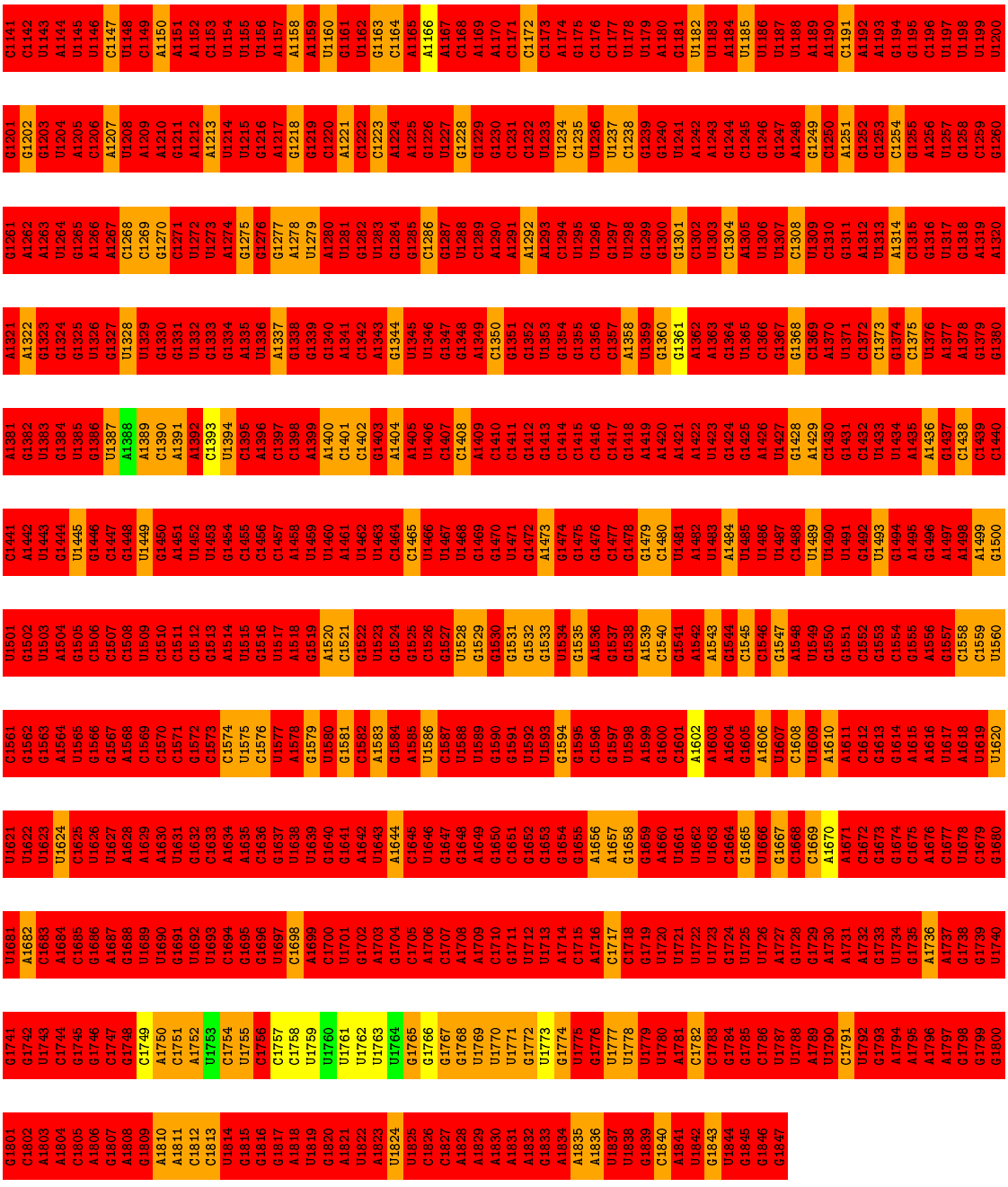
- Molecule 33: 40S RIBOSOMAL PROTEIN S33, PUTATIVE

Chain AZ:

- Molecule 34: ALPHA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT 28S RRNA

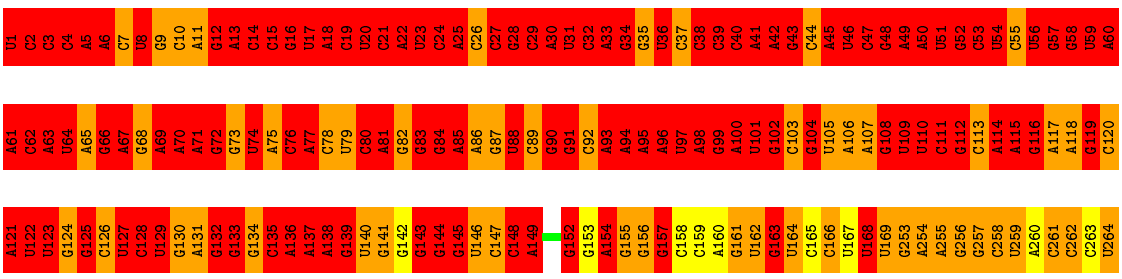
Chain BA:

WORLDWIDE PDB PROTEIN DATA BANK
EMDataBank Unified Data Resource for 3DEM



• Molecule 35: BETA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT 28S RRNA

Chain BB: • 5% 25% 70%



WORLDWIDE PDB PROTEIN DATA BANK
EMDataBank Unified Data Resource for 3DEM

C265 C266 C267 G268 A269 G270 C271 C272 G273 U274 A275 U276 C277 U278 A279 C280 U281 A282 A283 C284 C285 U286 C287 C288 U289 U290 C291 U292 G293 G294 U295 G296 U297 G298 U299 U300 G301 U304 U305 U306 A307 C308 G309 U310 C311 U312 C313 A314 C315 U316 C317 U318 C319 G320 C321 G322 G323 A324 G325
G326 U327 G328 U329 U330 U331 U332 C333 G334 C335 U336 U337 C338 C339 U340 U341 U342 U343 U344 U345 U346 G347 G348 U349 U350 U351 C352 G353 C354 A355 C356 C357 U358 A359 C360 A361 A362 A363 U364 U365 G366 C367 C368 A369 G370 C371 U372 C373 A374 C375 A376 A377 C378 U379 G380 C381 U382 U383 A384 C385
G386 G387 C388 G389 G390 G391 G392 A393 A394 U395 C396 C397 A398 A399 C400 U401 G402 U403 A404 U405 A406 A407 U408 U409 A410 A411 A412 A413 C414 A415 U416 A417 G418 G419 U420 U421 U422 G423 U424 G425 A426 U427 G428 C429 A430 U431 C432 C433 A434 A435 G436 U437 G438 G439 U440 G441 U442 A443 U444 G445
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G506 G507 U508 A509 A510 A511 C512 G513 G514 C515 G516 G517 G518 A519 G520 U521 A522 A523 C524 U525 A526 U527 G528 A529 C530 U531 C532 U533 C534 U535 U536 A537 A538 G539 G540 U541 A542 G543 C544 C545 A546 A547 A548 U549 G550 C551 C552 U553 C554 G555 U556 C557 U558 U559 C560 C561 A562 A563 U564 U565
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A746 A747 A748 U749 G750 A751 A752 A753 U754 A755 C756 C757 A758 C759 G760 A761 C762 U763 C764 G765 G766 A767 A768 C769 G770 U771 U772 G773 C774 G775 U776 C777 A778 C779 U780 U781 A782 G783 G784 G785 A786 A787 U788 G789 A790 A791 G792 A793 G794 A795 C796 C797 A798 A799 U800 G801 G802 U803 U804 G805
U806 U807 U808 U809 G810 C811 G812 C813 A814 G815 U816 C817 U818 U819 C820 G821 G822 G823 C824 U825 G826 U827 G828 C829 G830 C831 C832 G833 U834 C835 U836 A837 G838 G839 C840 U841 G842 G843 G844 C845 A846 U847 A848 A849 U850 U851 G852 U853 G854 G855 U856 G857 U858 U859 U860 C861 U862 U863 U864 C865
A866 C867 C868 G869 C870 C871 A872 C873 G874 G875 G876 A877 G878 G879 G880 G881 U882 G883 U884 U885 G886 G887 U888 U889 U890 U891 U892 U893 A894 U895 C896 C897 U898 C899 C900 U901 C902 U903 C904 C905 G906 U907 U908 U909 C910 U911 C912 C913 U914 U915 U916 U917 C918 U919 C920 U921 C922 U923 U924 U925
C926 U927 C928 C929 C930 U931 U932 U933 U934 U935 U936 U937 G938 G939 G940 C941 G942 U943 U944 U945 G946 A947 G948 G949 G950 U951 U952 G953 G954 U955 G956 A957 C958 C959 C960 G961 U962 G963 G964 G965 C966 G967 C968 C969 C970 A971 C972 C973 C974 G975 U976 G977 C978 G979 G980 A981 A982 C983 U984 A985
C986 U987 G988 C989 G990 C991 C992 A993 A994 C995 G996 G997 G998 G999 U1000 G1001 G1002 G1003 A1004 A1005 C1006 U1007 U1008 U1009 U1010 C1011 G1012 U1013 U1014 U1015 C1016 U1017 U1018 C1019 U1020 C1021 C1022 G1023 G1024 A1025 G1026 U1027 C1028 U1029 U1030 G1031 U1032 U1033 U1034 C1035 G1036 A1037 G1038 A1039 C1040 A1041 U1042 C1043 U1044 G1045
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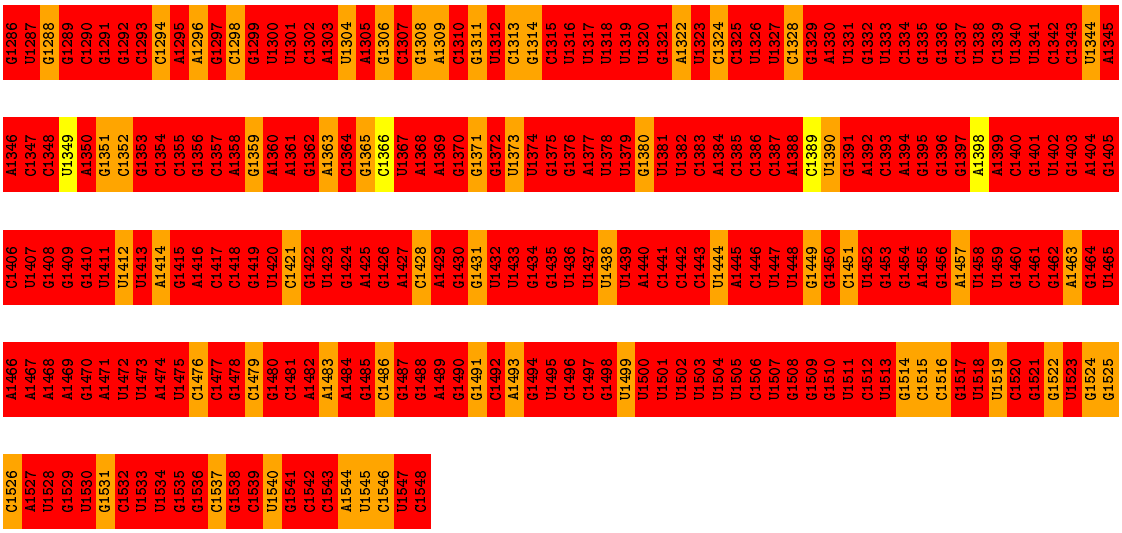
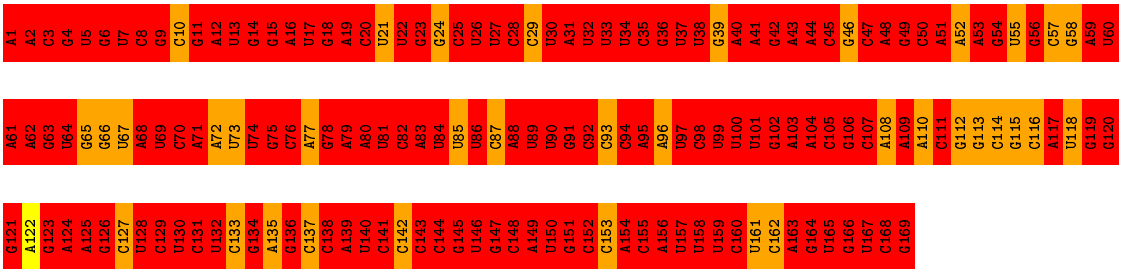
A1166 C1167 G1168 A1169 U1170 U1171 U1172 C1173 C1174 A1175 G1176 U1177 A1178 C1179 G1180 A1181 A1182 C1183 C1184 A1185 A1186 G1187 A1188 C1189 U1190 G1191 C1192 G1193 G1194 A1195 A1196 G1197 C1198 A1199 A1200 G1201 G1202 C1203 C1204 A1205 G1206 C1207 G1208 A1209 U1210 C1211 C1212 G1213 U1214 U1215 G1216 C1217 G1218 A1219 A1220 G1221 A1222 A1223 C1224 A1225
G1226 C1227 A1228 A1229 A1230 U1231 A1232 U1233 G1234 A1235 A1236 C1237 A1238 A1239 A1240 U1241 C1242 A1243 U1244 A1245 C1246 C1247 A1248 G1249 A1250 G1251 G1252 U1253 G1254 U1255 C1256 A1257 G1258 A1259 A1260 U1261 A1262 A1263 U1264 U1265 A1266 C1267 C1268 A1269 C1270 A1271 G1272 G1273 G1274 A1275 U1276 A1277 A1278 C1279 U1280 G1281 G1282 C1283 U1284 U1285



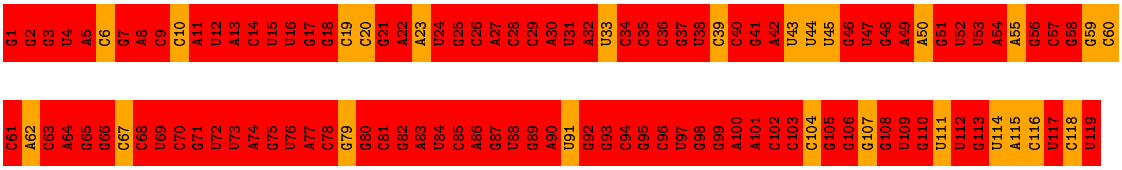
- Molecule 36: 5.8S RRNA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT

Chain BC:



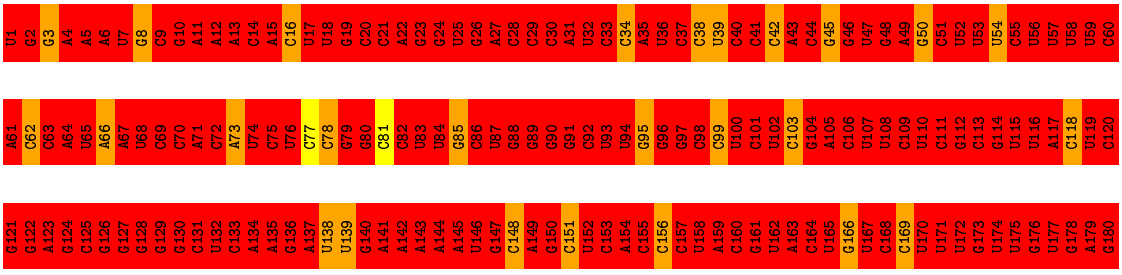
- Molecule 37: 5S RRNA CHAIN OF THE LARGE RIBOSOMAL SUBUNIT

Chain BD:



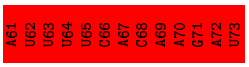
- Molecule 38: SHORT RRNA-I OF THE LARGE RIBOSOMAL SUBUNIT

Chain BE:



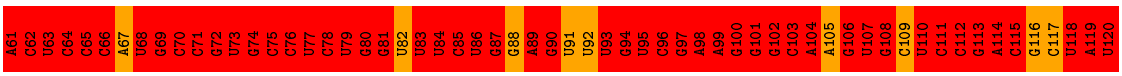
• Molecule 39: SHORT RRNA-II OF THE LARGE RIBOSOMAL SUBUNIT

Chain BF:



• Molecule 40: SHORT RRNA-III OF THE LARGE RIBOSOMAL SUBUNIT

Chain BG:

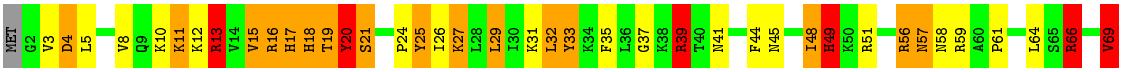


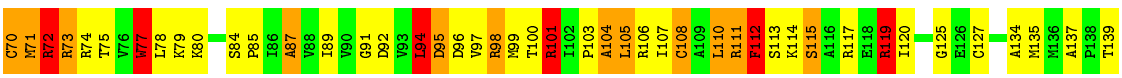
• Molecule 41: SHORT RRNA-IV OF THE LARGE RIBOSOMAL SUBUNIT

Chain BH:

• Molecule 42: 60S RIBOSOMAL PROTEIN L18

Chain BI:



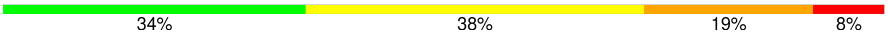


- Molecule 43: RIBOSOMAL PROTEIN

Chain BJ:

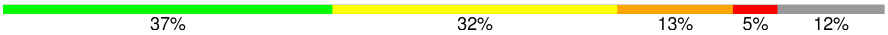
- Molecule 44: 60S RIBOSOMAL PROTEIN L10, PUTATIVE

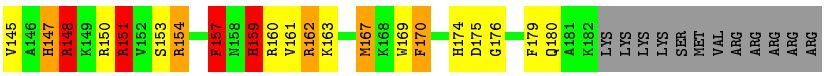
Chain BK:



- Molecule 45: 60S RIBOSOMAL PROTEIN L11, PUTATIVE

Chain BL:



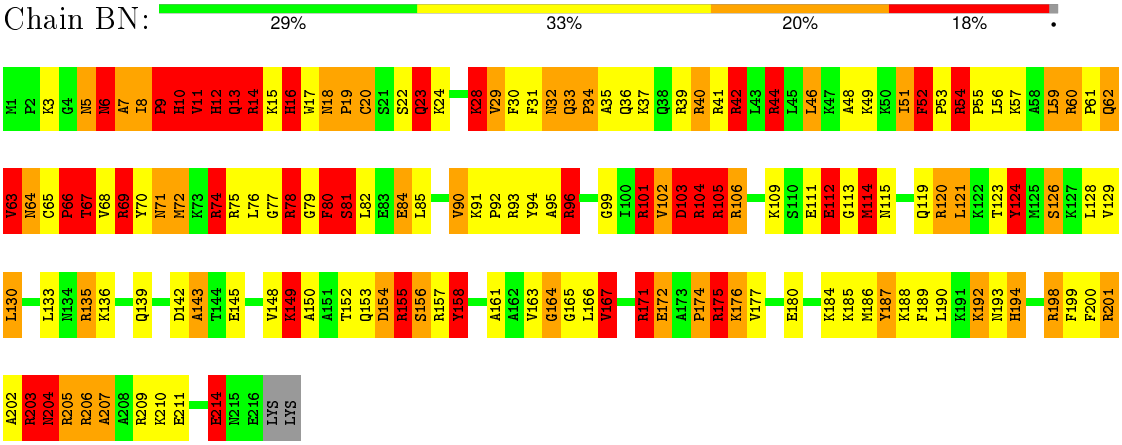


- Molecule 46: 60S RIBOSOMAL PROTEIN L12, PUTATIVE

Chain BM:

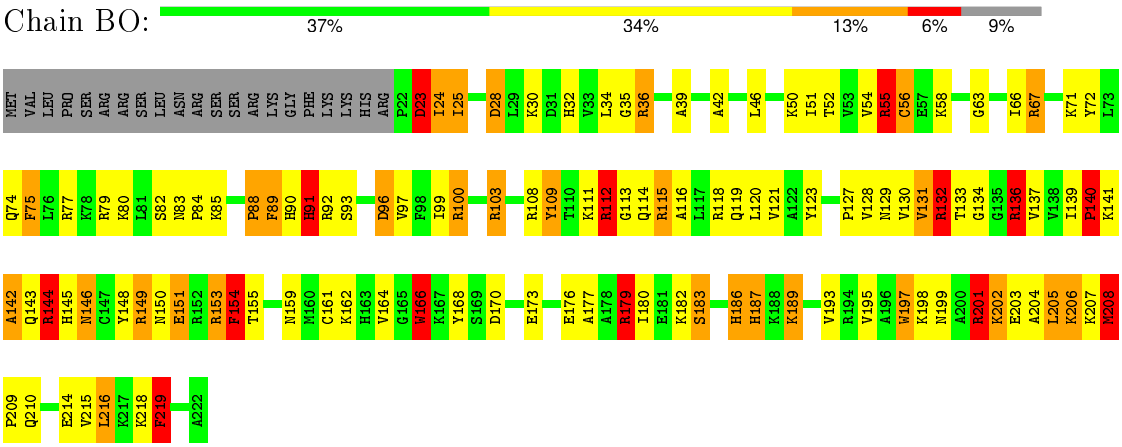
- Molecule 47: 60S RIBOSOMAL PROTEIN L13

Chain BN:



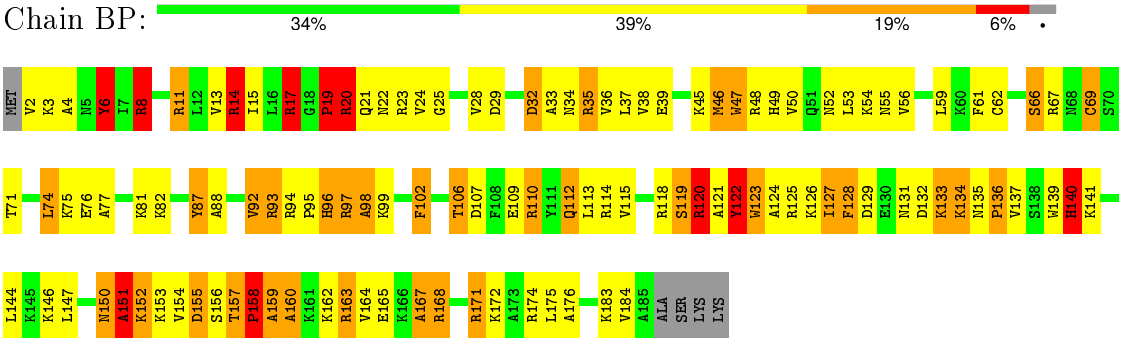
- Molecule 48: 60S RIBOSOMAL PROTEIN L13A, PUTATIVE

Chain BO:



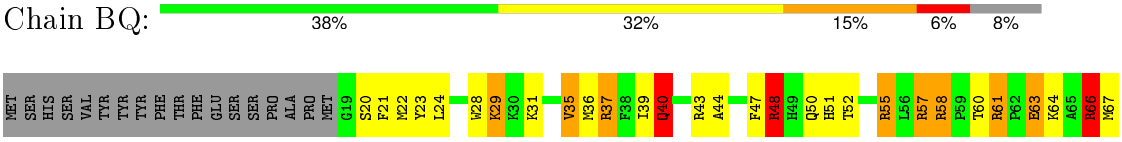
- Molecule 49: PROBABLE 60S RIBOSOMAL PROTEIN L14

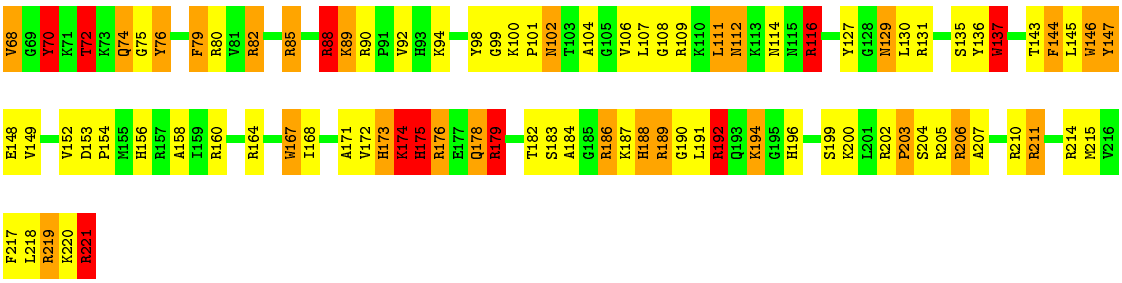
Chain BP:



- Molecule 50: RIBOSOMAL PROTEIN L15

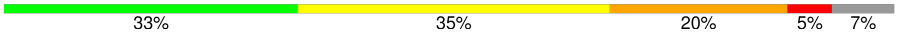
Chain BQ:

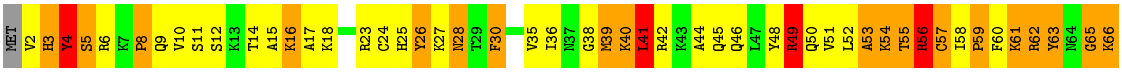




• Molecule 51: 60S RIBOSOMAL PROTEIN L17, PUTATIVE

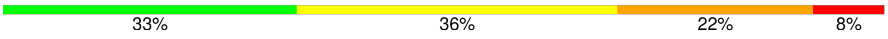
Chain BR:

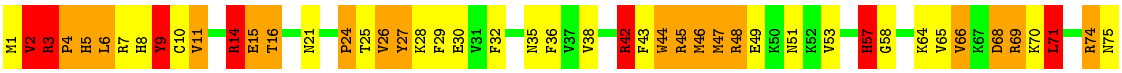


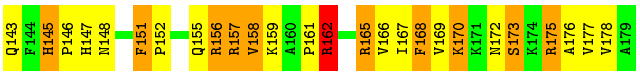


• Molecule 52: 60S RIBOSOMAL PROTEIN L18A

Chain BS:

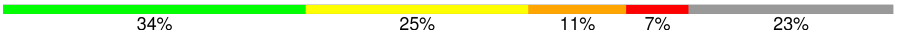


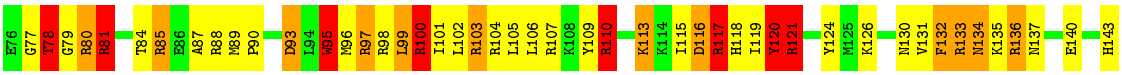


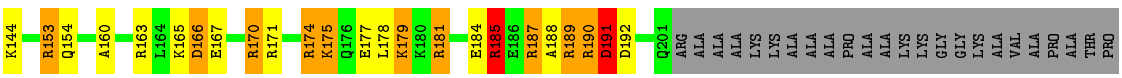


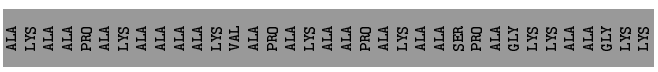
• Molecule 53: 60S RIBOSOMAL PROTEIN L19, PUTATIVE

Chain BT:



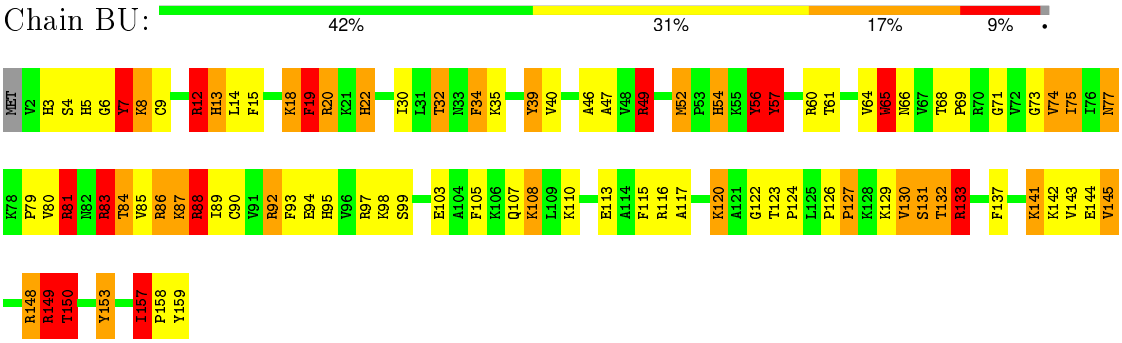






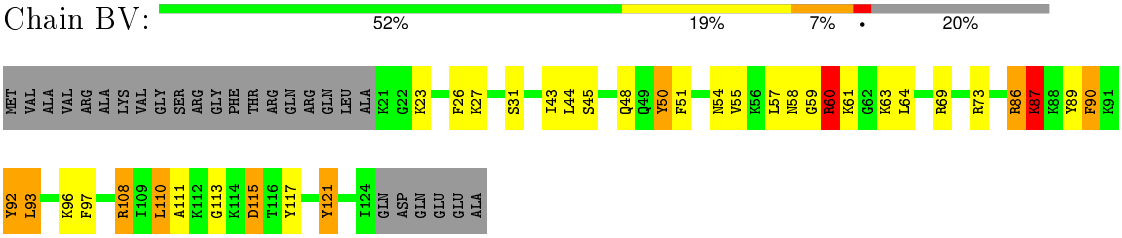
• Molecule 54: 60S RIBOSOMAL PROTEIN L21E, PUTATIVE

Chain BU:



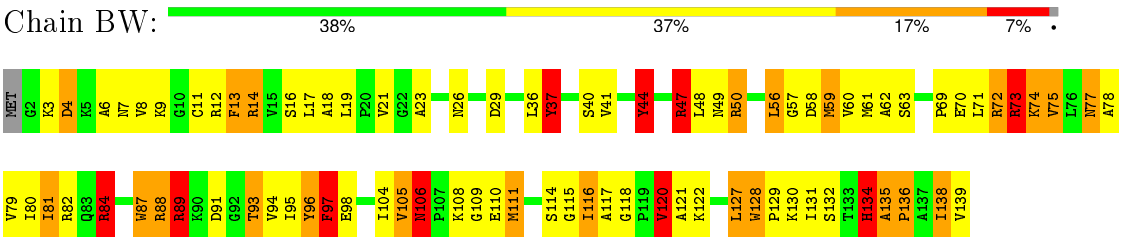
• Molecule 55: 60S RIBOSOMAL PROTEIN L22, PUTATIVE

Chain BV:



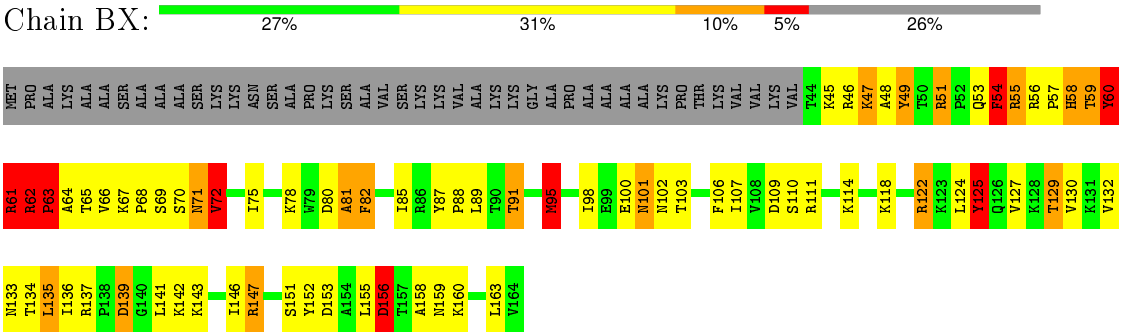
• Molecule 56: 60S RIBOSOMAL PROTEIN L23, PUTATIVE

Chain BW:



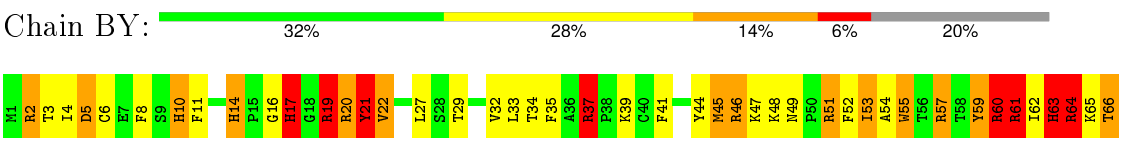
• Molecule 57: 60S RIBOSOMAL PROTEIN L23A

Chain BX:



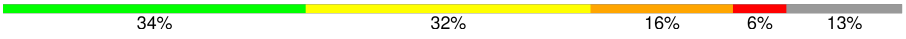
• Molecule 58: 60S RIBOSOMAL PROTEIN L24, PUTATIVE

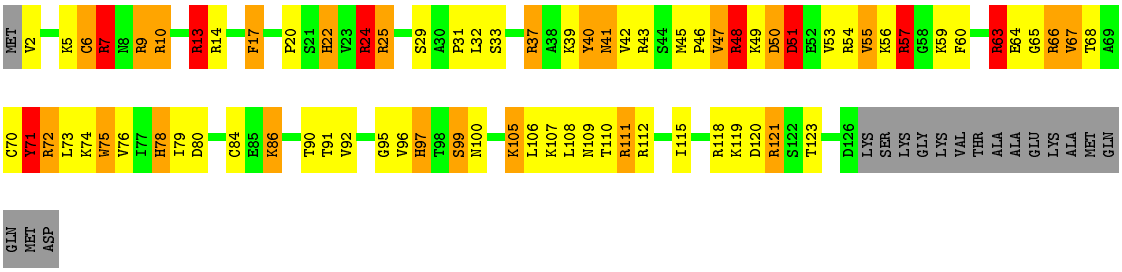
Chain BY:



- Molecule 59: 60S RIBOSOMAL PROTEIN L26, PUTATIVE

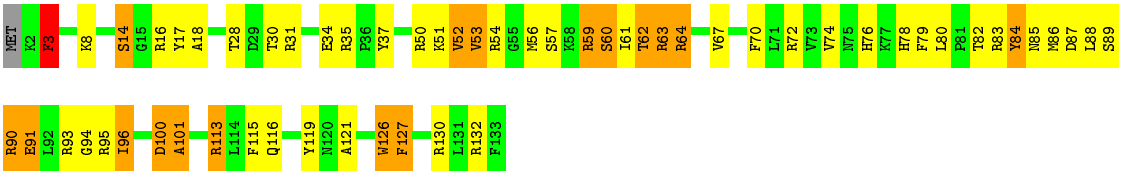
Chain BZ:





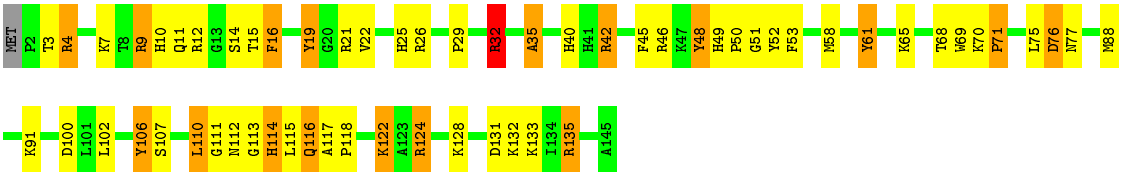
- Molecule 60: 60S RIBOSOMAL PROTEIN L27, PUTATIVE

Chain Ba:



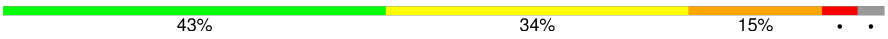
- Molecule 61: 60S RIBOSOMAL PROTEIN L27A

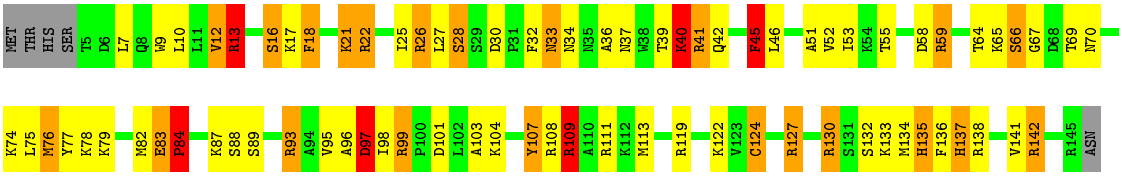
Chain Bb:



- Molecule 62: 60S RIBOSOMAL PROTEIN L28, PUTATIVE

Chain Bc:



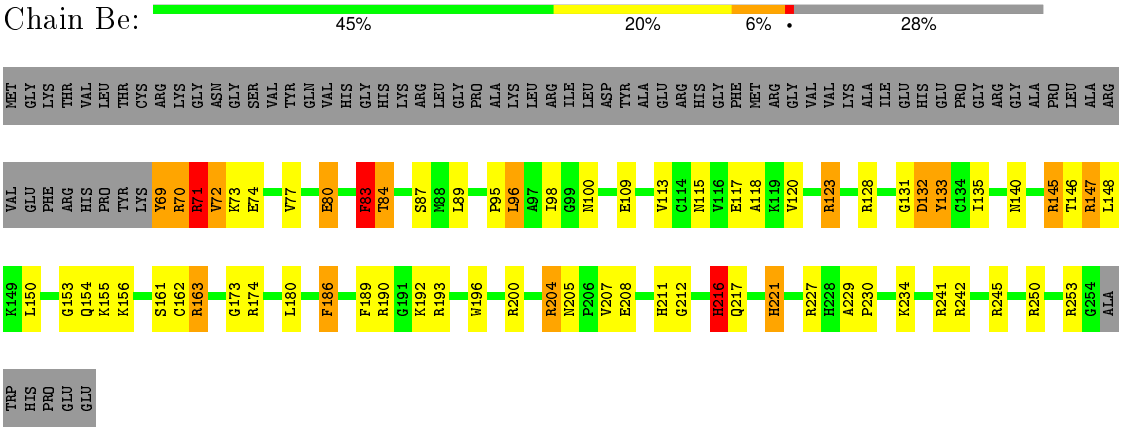


- Molecule 63: 60S RIBOSOMAL PROTEIN L29, PUTATIVE

Chain Bd:

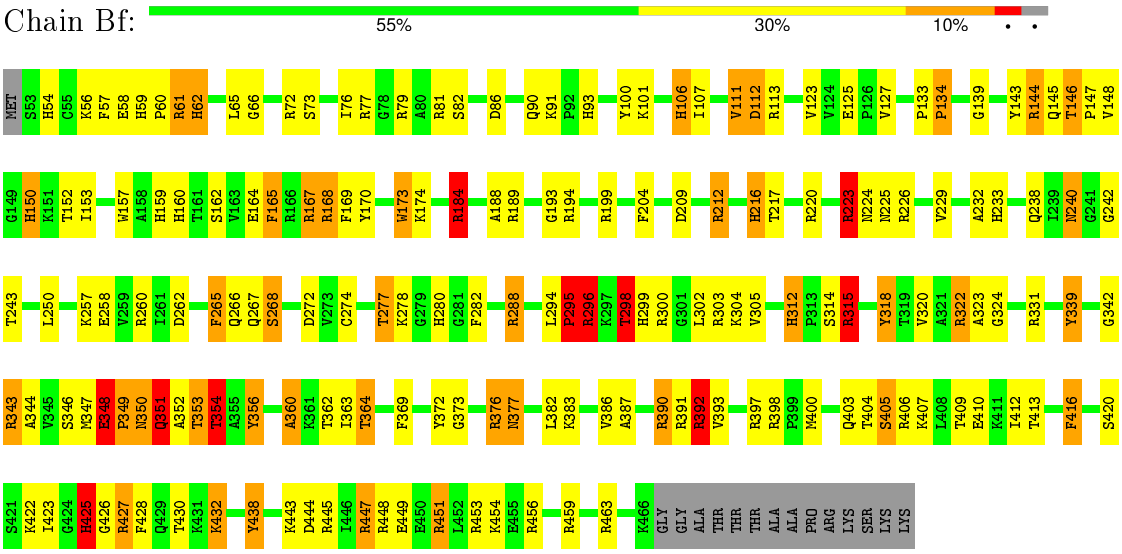
• Molecule 64: 60S RIBOSOMAL PROTEIN L2, PUTATIVE

Chain Be:



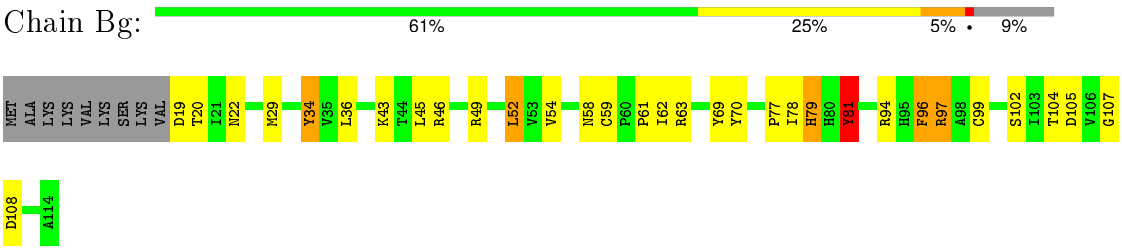
• Molecule 65: RIBOSOMAL PROTEIN L3, MITOCHONDRIAL, PUTATIVE

Chain Bf:



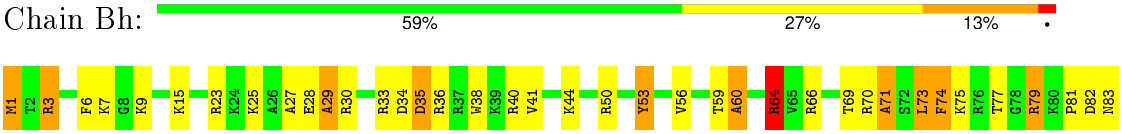
• Molecule 66: 60S RIBOSOMAL PROTEIN L30

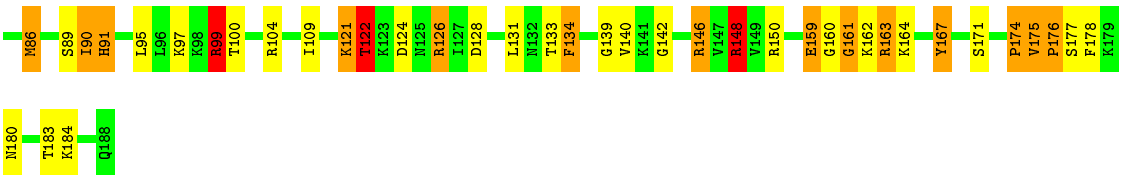
Chain Bg:



• Molecule 67: 60S RIBOSOMAL SUBUNIT PROTEIN L31, PUTATIVE

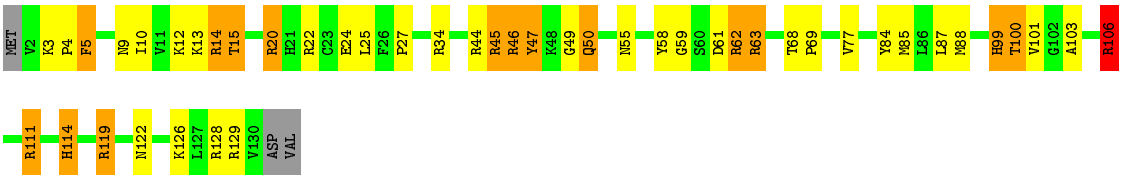
Chain Bh:





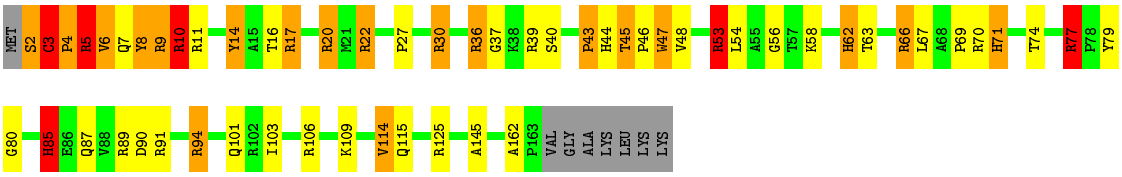
• Molecule 68: 60S RIBOSOMAL PROTEIN L32, PUTATIVE

Chain Bi:



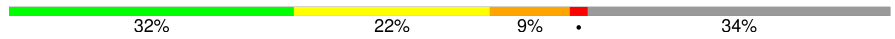
• Molecule 69: 60S RIBOSOMAL PROTEIN L34, PUTATIVE

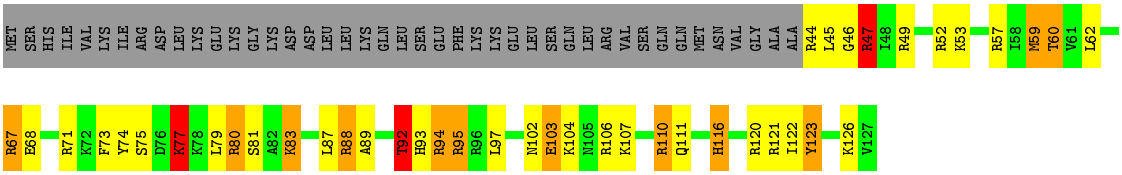
Chain Bj:



• Molecule 70: 60S RIBOSOMAL PROTEIN L35, PUTATIVE

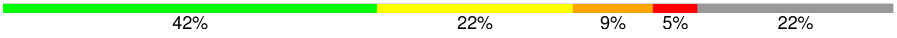
Chain Bk:

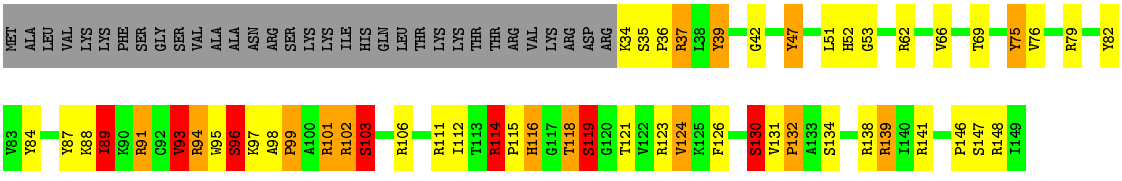




• Molecule 71: 60S RIBOSOMAL PROTEIN L35A, PUTATIVE

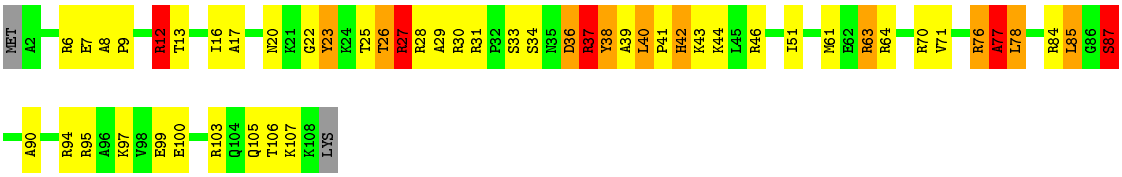
Chain Bl:





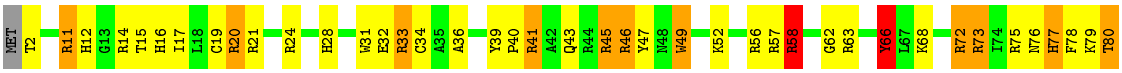
• Molecule 72: RIBOSOMAL PROTEIN L36, PUTATIVE

Chain Bm:



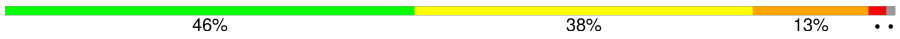
• Molecule 73: RIBOSOMAL PROTEIN L37

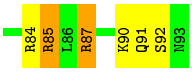
Chain Bn:



• Molecule 74: 60S RIBOSOMAL PROTEIN L37A, PUTATIVE

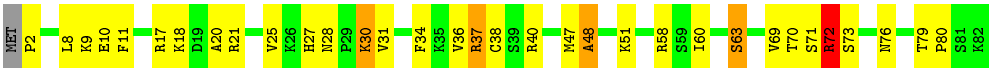
Chain Bo:





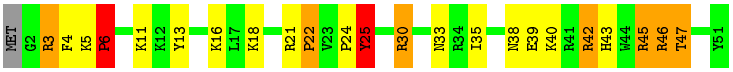
• Molecule 75: 60S RIBOSOMAL PROTEIN L38, PUTATIVE

Chain Bp:



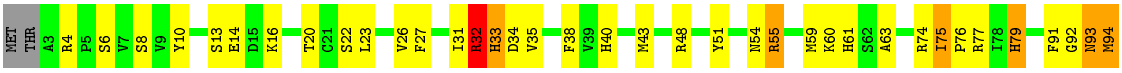
• Molecule 76: 60S RIBOSOMAL PROTEIN L39, PUTATIVE

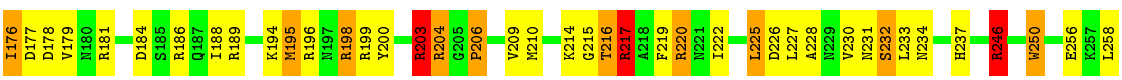
Chain Bq:

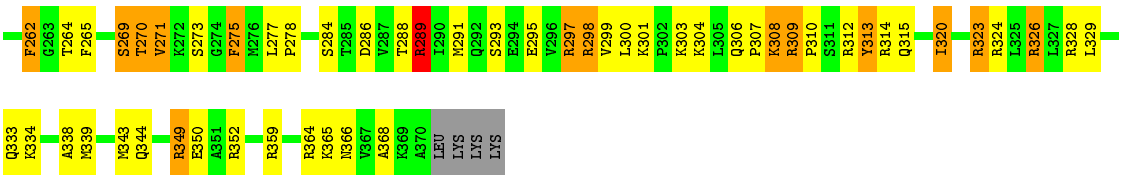


• Molecule 77: 60S RIBOSOMAL PROTEIN L4

Chain Br:

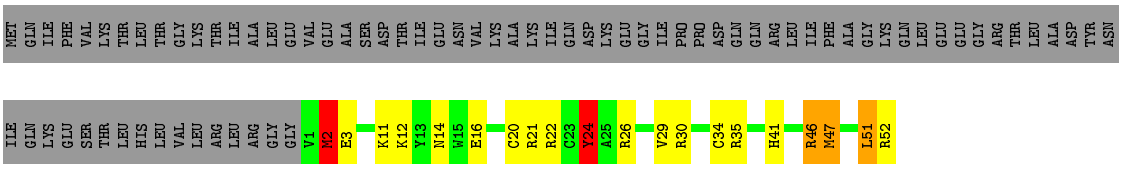






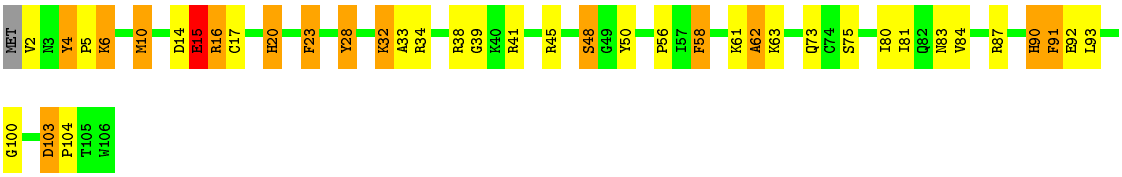
• Molecule 78: UBIQUITIN-60S RIBOSOMAL PROTEIN L40

Chain Bs:



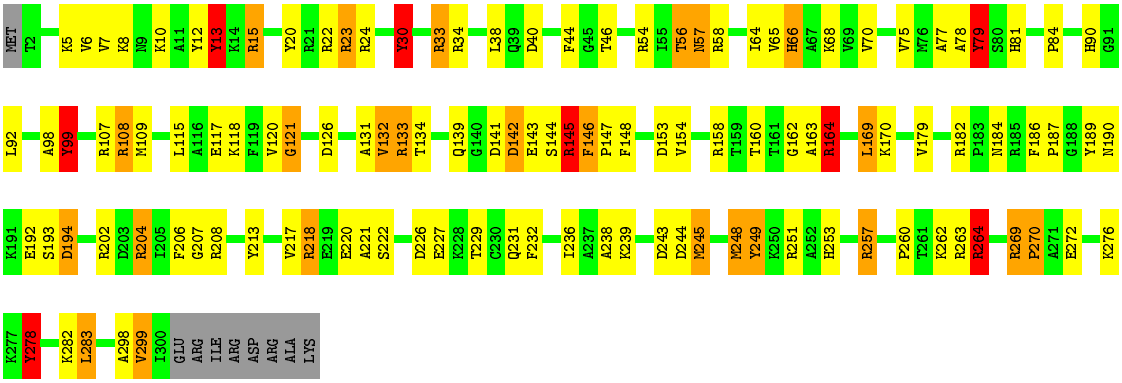
• Molecule 79: 60S RIBOSOMAL PROTEIN L44

Chain Bt:



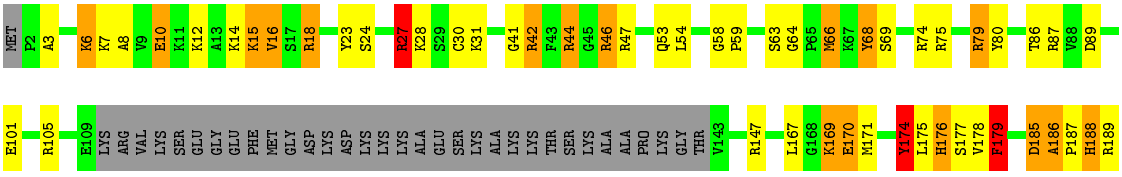
• Molecule 80: 60S RIBOSOMAL PROTEIN L5, PUTATIVE

Chain Bu:



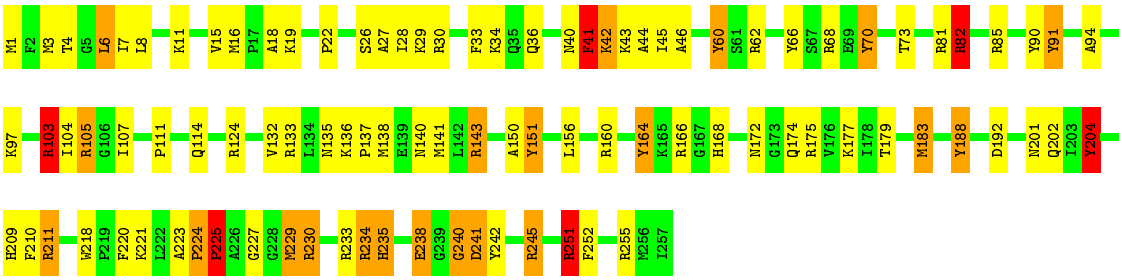
• Molecule 81: 60S RIBOSOMAL PROTEIN L6, PUTATIVE

Chain Bv:



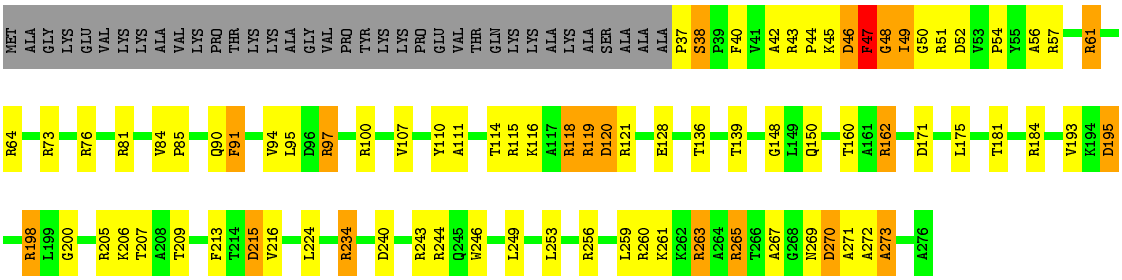
- Molecule 82: 60S RIBOSOMAL PROTEIN L7, PUTATIVE

Chain Bw:



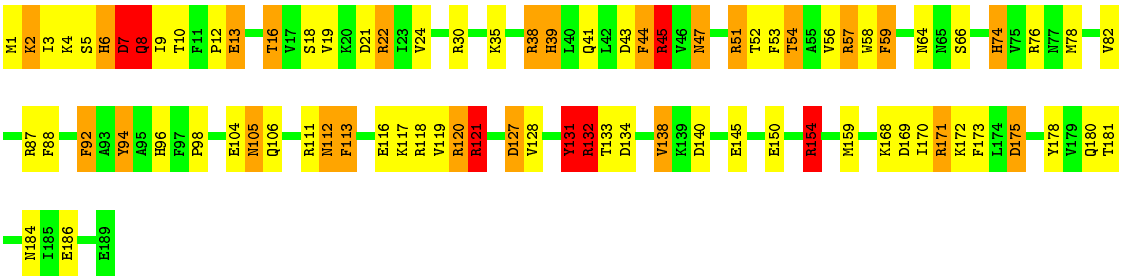
- Molecule 83: 60S RIBOSOMAL PROTEIN L7A, PUTATIVE

Chain Bx:



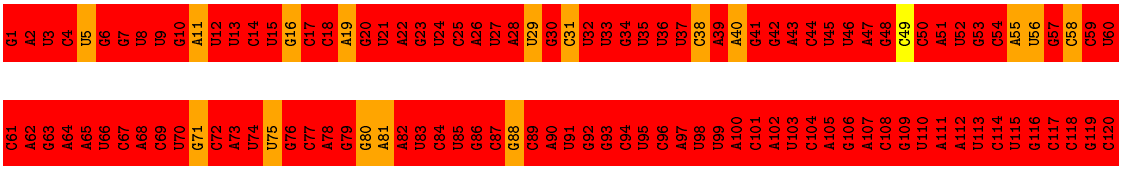
- Molecule 84: 60S RIBOSOMAL PROTEIN L9, PUTATIVE

Chain By:

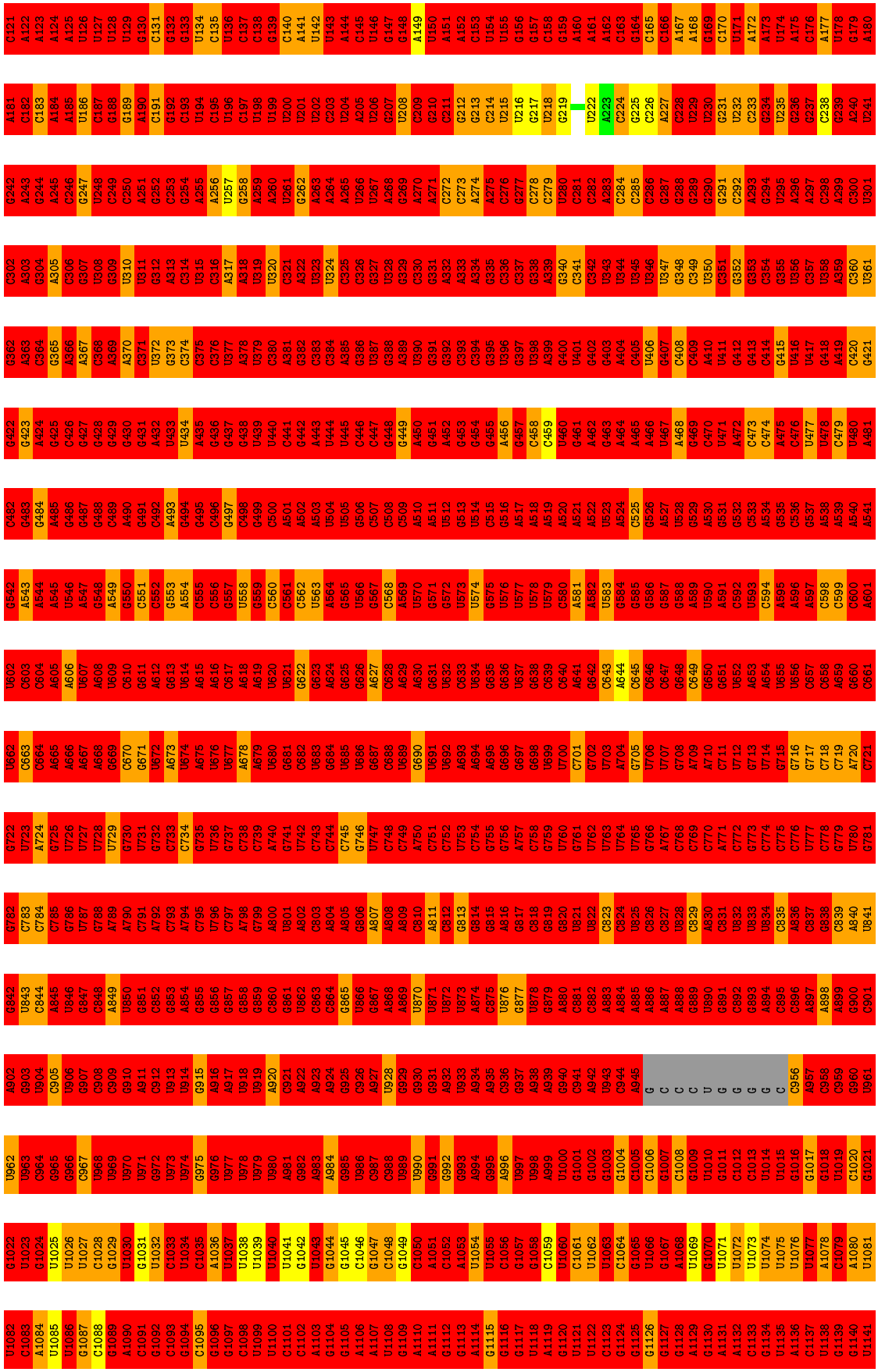


- Molecule 85: 18S RRNA OF THE SMALL RIBOSOMAL SUBUNIT

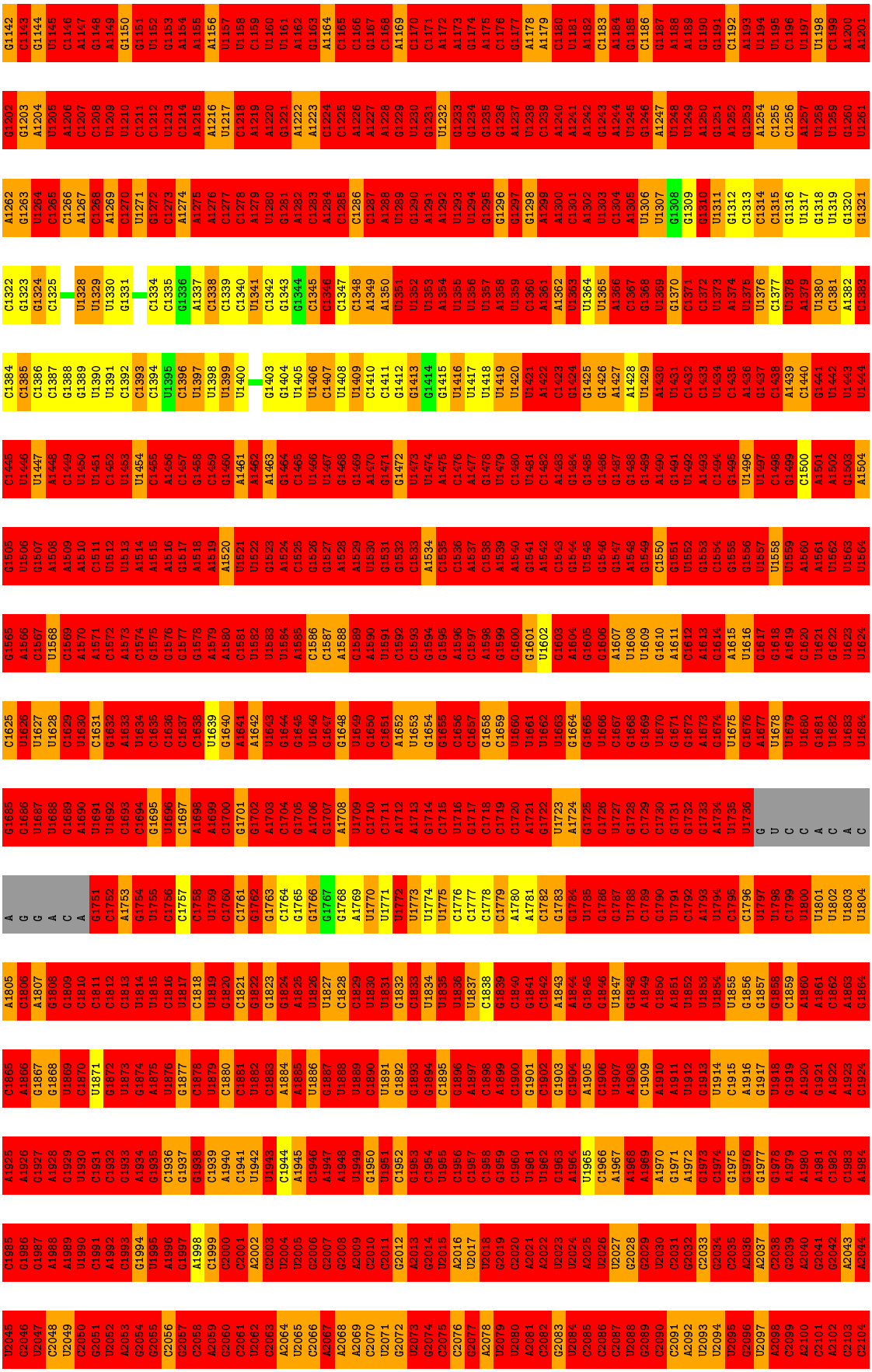
Chain AA:



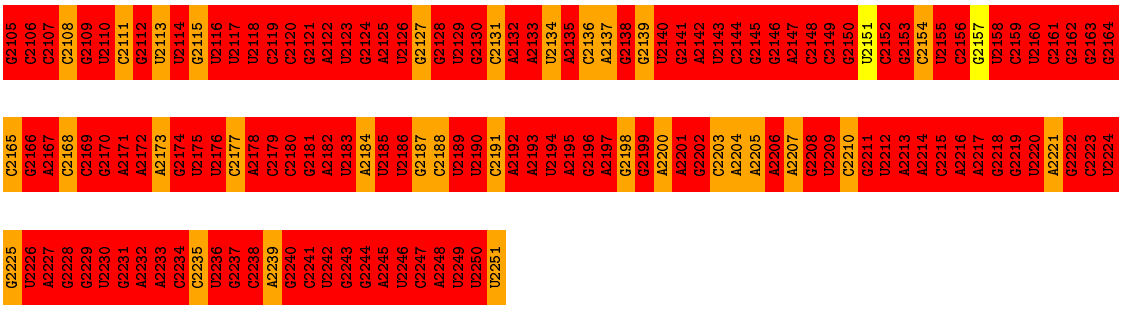
WORLDWIDE PDB PROTEIN DATA BANK
EMDataBank Unified Data Resource for 3DEM



WORLDWIDE PDB PROTEIN DATA BANK
EMDataBank Unified Data Resource for 3DEM

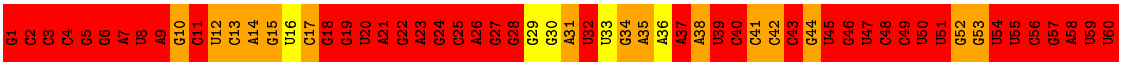


WORLDWIDE PDB PROTEIN DATA BANK
EMDataBank Unified Data Resource for 3DEM



- Molecule 86: E-SITE TRNA

Chain AB:



4 Experimental information (i)

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	PHASE-FLIPPING	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	Not provided	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO163 FILM	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>2$	RMSZ	#$\|Z\|>2$
1	A0	1.19	2/1808 (0.1%)	1.83	45/2432 (1.9%)
10	A9	0.91	0/542	1.55	8/722 (1.1%)
11	AC	1.41	1/1655 (0.1%)	1.76	29/2240 (1.3%)
12	AD	1.02	0/877	1.60	13/1182 (1.1%)
13	AE	1.32	4/1324 (0.3%)	1.83	29/1771 (1.6%)
14	AF	0.76	0/946	1.36	11/1270 (0.9%)
15	AG	1.45	2/1170 (0.2%)	1.93	41/1567 (2.6%)
16	AH	1.24	0/937	1.77	21/1263 (1.7%)
17	AI	0.92	0/1098	1.64	15/1473 (1.0%)
18	AJ	1.29	0/1035	1.78	13/1386 (0.9%)
19	AK	1.06	0/1211	1.77	24/1625 (1.5%)
2	A1	1.37	5/1973 (0.3%)	1.90	53/2657 (2.0%)
20	AL	1.24	1/1033 (0.1%)	1.91	27/1380 (2.0%)
21	AM	1.05	0/1247	1.76	29/1666 (1.7%)
22	AO	1.08	0/1206	1.81	23/1613 (1.4%)
23	AP	1.40	1/1766 (0.1%)	1.83	37/2383 (1.6%)
24	AQ	1.11	0/839	1.77	23/1139 (2.0%)
25	AR	1.52	3/612 (0.5%)	1.96	26/835 (3.1%)
26	AS	1.22	0/1137	1.73	27/1520 (1.8%)
27	AT	1.17	2/1065 (0.2%)	1.99	30/1411 (2.1%)
28	AU	1.00	0/681	1.54	6/907 (0.7%)
29	AV	1.17	0/825	1.95	19/1105 (1.7%)
3	A2	1.08	0/1507	1.76	36/2027 (1.8%)
30	AW	1.37	1/648 (0.2%)	1.84	14/868 (1.6%)
31	AX	1.11	2/1649 (0.1%)	1.71	35/2203 (1.6%)
32	AY	1.22	0/521	1.83	9/685 (1.3%)
33	AZ	1.20	1/527 (0.2%)	1.77	13/702 (1.9%)
34	BA	4.08	8852/44057 (20.1%)	3.34	8033/68678 (11.7%)
35	BB	3.66	5797/34826 (16.6%)	2.99	5090/54269 (9.4%)
36	BC	4.32	938/4004 (23.4%)	3.24	674/6235 (10.8%)
37	BD	4.09	601/2830 (21.2%)	3.33	521/4410 (11.8%)
38	BE	3.90	902/4956 (18.2%)	3.64	1067/7716 (13.8%)
39	BF	3.69	277/1691 (16.4%)	3.64	354/2627 (13.5%)
4	A3	1.32	1/2026 (0.0%)	1.92	53/2699 (2.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >2	RMSZ	#|Z| >2
40	BG	4.34	1057/4358 (24.3%)	3.41	840/6797 (12.4%)
41	BH	3.79	548/3201 (17.1%)	3.52	652/4987 (13.1%)
42	BI	1.47	4/1553 (0.3%)	2.04	64/2070 (3.1%)
43	BJ	0.72	0/1743	1.28	12/2339 (0.5%)
44	BK	1.40	3/1760 (0.2%)	1.89	45/2359 (1.9%)
45	BL	1.33	1/1385 (0.1%)	1.80	33/1851 (1.8%)
46	BM	0.67	0/1033	1.21	1/1394 (0.1%)
47	BN	2.40	4/1793 (0.2%)	2.18	80/2392 (3.3%)
48	BO	1.46	2/1655 (0.1%)	1.84	44/2214 (2.0%)
49	BP	1.48	3/1506 (0.2%)	1.97	45/2014 (2.2%)
5	A4	1.33	2/1623 (0.1%)	2.04	60/2185 (2.7%)
50	BQ	1.52	1/1755 (0.1%)	1.84	42/2346 (1.8%)
51	BR	1.39	1/1270 (0.1%)	1.99	39/1705 (2.3%)
52	BS	1.36	3/1508 (0.2%)	2.06	54/2028 (2.7%)
53	BT	1.45	1/1689 (0.1%)	1.97	65/2232 (2.9%)
54	BU	1.35	1/1290 (0.1%)	1.89	39/1734 (2.2%)
55	BV	0.96	0/878	1.57	13/1169 (1.1%)
56	BW	1.44	5/1059 (0.5%)	2.00	32/1424 (2.2%)
57	BX	1.56	4/1007 (0.4%)	1.97	35/1353 (2.6%)
58	BY	1.28	1/857 (0.1%)	1.82	26/1150 (2.3%)
59	BZ	1.44	3/1021 (0.3%)	2.07	43/1362 (3.2%)
6	A5	1.42	6/1574 (0.4%)	1.83	36/2100 (1.7%)
60	Ba	1.40	0/1111	1.95	31/1479 (2.1%)
61	Bb	1.35	4/1165 (0.3%)	1.92	34/1554 (2.2%)
62	Bc	2.50	3/1145 (0.3%)	2.20	62/1528 (4.1%)
63	Bd	1.21	2/582 (0.3%)	1.98	22/777 (2.8%)
64	Be	1.50	7/1416 (0.5%)	1.91	38/1905 (2.0%)
65	Bf	1.43	8/3387 (0.2%)	1.99	129/4548 (2.8%)
66	Bg	1.75	3/745 (0.4%)	2.09	23/1005 (2.3%)
67	Bh	1.27	4/1551 (0.3%)	2.00	56/2059 (2.7%)
68	Bi	1.39	2/1076 (0.2%)	1.91	30/1439 (2.1%)
69	Bj	1.24	3/1312 (0.2%)	1.85	34/1743 (2.0%)
7	A6	1.38	3/1548 (0.2%)	1.95	44/2076 (2.1%)
70	Bk	1.46	0/726	2.06	31/957 (3.2%)
71	Bl	1.44	4/958 (0.4%)	2.05	35/1290 (2.7%)
72	Bm	1.54	1/859 (0.1%)	1.97	29/1141 (2.5%)
73	Bn	1.60	1/713 (0.1%)	2.01	28/949 (3.0%)
74	Bo	1.70	8/727 (1.1%)	1.88	26/968 (2.7%)
75	Bp	1.50	1/666 (0.2%)	1.87	15/885 (1.7%)
76	Bq	1.31	1/471 (0.2%)	1.71	9/626 (1.4%)
77	Br	1.46	5/2937 (0.2%)	1.98	106/3943 (2.7%)
78	Bs	1.40	1/433 (0.2%)	1.86	12/572 (2.1%)
79	Bt	1.36	1/883 (0.1%)	1.87	24/1170 (2.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >2	RMSZ	#|Z| >2
8	A7	1.06	0/2471	1.64	33/3368 (1.0%)
80	Bu	1.30	1/2397 (0.0%)	1.88	65/3219 (2.0%)
81	Bv	1.30	1/1242 (0.1%)	1.84	29/1667 (1.7%)
82	Bw	1.44	2/2105 (0.1%)	1.91	49/2823 (1.7%)
83	Bx	1.48	5/1936 (0.3%)	1.85	38/2603 (1.5%)
84	By	1.32	1/1561 (0.1%)	1.95	62/2098 (3.0%)
85	AA	3.42	7237/52940 (13.7%)	3.10	8226/82489 (10.0%)
86	AB	2.36	80/1740 (4.6%)	2.66	188/2712 (6.9%)
9	A8	1.09	0/337	1.68	4/445 (0.9%)
All	All	3.06	26432/250887 (10.5%)	2.80	28260/369909 (7.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A0	0	19
10	A9	0	4
11	AC	0	21
12	AD	0	10
13	AE	0	25
14	AF	0	6
15	AG	0	17
16	AH	0	8
17	AI	0	10
18	AJ	0	11
19	AK	0	20
2	A1	0	18
20	AL	0	6
21	AM	0	18
22	AO	0	17
23	AP	0	14
24	AQ	0	7
25	AR	0	12
26	AS	0	7
27	AT	0	27
28	AU	0	7
29	AV	0	13
3	A2	0	11
30	AW	0	13
31	AX	0	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
32	AY	0	13
33	AZ	0	3
34	BA	0	1404
35	BB	0	967
36	BC	0	128
37	BD	0	89
38	BE	0	169
39	BF	0	61
4	A3	0	23
40	BG	0	144
41	BH	0	87
42	BI	0	19
43	BJ	0	7
44	BK	0	26
45	BL	0	15
47	BN	1	31
48	BO	0	21
49	BP	0	24
5	A4	0	27
50	BQ	0	28
51	BR	0	21
52	BS	0	21
53	BT	0	24
54	BU	0	21
55	BV	0	6
56	BW	0	10
57	BX	0	7
58	BY	0	15
59	BZ	0	12
6	A5	0	23
60	Ba	0	20
61	Bb	0	15
62	Bc	0	27
63	Bd	0	10
64	Be	0	21
65	Bf	0	48
66	Bg	0	8
67	Bh	0	23
68	Bi	0	13
69	Bj	1	23
7	A6	0	26
70	Bk	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
71	Bl	0	23
72	Bm	0	16
73	Bn	0	14
74	Bo	0	12
75	Bp	0	6
76	Bq	0	9
77	Br	0	46
78	Bs	0	5
79	Bt	0	13
8	A7	0	17
80	Bu	0	34
81	Bv	0	22
82	Bw	0	32
83	Bx	0	19
84	By	1	27
85	AA	0	1567
86	AB	0	45
9	A8	0	4
All	All	3	5934

All (26432) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	469	G	C5-C4	80.15	1.94	1.38
47	BN	7	ALA	CA-C	79.39	3.59	1.52
34	BA	743	A	N9-C4	74.20	1.82	1.37
62	Bc	78	LYS	CD-CE	69.91	3.26	1.51
34	BA	214	A	C6-N1	57.25	1.75	1.35
34	BA	214	A	C5-C4	55.92	1.77	1.38
85	AA	469	G	C8-N7	52.60	1.62	1.30
34	BA	743	A	N9-C8	46.86	1.75	1.37
34	BA	214	A	C5-C6	42.37	1.79	1.41
34	BA	546	U	O3'-P	42.32	2.12	1.61
34	BA	214	A	C2-N3	40.77	1.70	1.33
34	BA	214	A	N3-C4	40.20	1.58	1.34
34	BA	214	A	N1-C2	39.07	1.69	1.34
85	AA	469	G	N9-C4	33.75	1.65	1.38
85	AA	469	G	N9-C8	32.48	1.60	1.37
34	BA	743	A	N7-C5	-32.37	1.19	1.39
34	BA	743	A	C5-C6	31.22	1.69	1.41
34	BA	481	A	N9-C4	-30.64	1.19	1.37
34	BA	743	A	C5-C4	27.33	1.57	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	62	A	N9-C4	-26.76	1.21	1.37
34	BA	399	G	N9-C4	-23.70	1.19	1.38
34	BA	547	C	C4'-C3'	23.33	1.78	1.53
34	BA	557	U	C3'-C2'	22.13	1.77	1.52
85	AA	1916	A	N9-C4	-22.12	1.24	1.37
34	BA	557	U	O3'-P	21.67	1.87	1.61
38	BE	123	A	N9-C4	-21.08	1.25	1.37
38	BE	139	U	P-O5'	-20.49	1.39	1.59
34	BA	471	U	N1-C2	-20.26	1.20	1.38
40	BG	9	G	O3'-P	-19.82	1.37	1.61
34	BA	1011	G	P-O5'	-19.73	1.40	1.59
41	BH	34	G	P-O5'	-19.71	1.40	1.59
85	AA	1228	A	N9-C4	-19.61	1.26	1.37
34	BA	1556	A	N9-C4	-19.58	1.26	1.37
34	BA	1213	A	N9-C4	-19.42	1.26	1.37
85	AA	2193	A	N9-C4	-19.41	1.26	1.37
40	BG	25	G	P-O5'	-19.30	1.40	1.59
34	BA	49	A	N9-C4	-19.27	1.26	1.37
85	AA	597	A	N9-C4	-19.22	1.26	1.37
34	BA	1321	A	P-O5'	-19.21	1.40	1.59
85	AA	2133	A	N9-C4	-19.21	1.26	1.37
36	BC	39	G	P-O5'	-19.11	1.40	1.59
34	BA	759	A	N9-C4	-19.10	1.26	1.37
40	BG	64	C	P-O5'	-19.07	1.40	1.59
41	BH	72	G	C4'-C3'	18.84	1.73	1.53
40	BG	39	A	N9-C4	-18.75	1.26	1.37
34	BA	1442	A	N9-C4	18.72	1.49	1.37
35	BB	1315	C	P-O5'	-18.65	1.41	1.59
35	BB	822	G	N9-C4	18.62	1.52	1.38
85	AA	970	U	P-O5'	-18.62	1.41	1.59
85	AA	989	U	P-O5'	-18.61	1.41	1.59
34	BA	517	A	P-O5'	-18.60	1.41	1.59
35	BB	1306	G	P-O5'	-18.57	1.41	1.59
34	BA	1608	C	P-O5'	-18.53	1.41	1.59
41	BH	16	A	N9-C4	-18.53	1.26	1.37
35	BB	1132	A	P-O5'	-18.49	1.41	1.59
40	BG	24	A	O3'-P	-18.48	1.39	1.61
85	AA	2125	A	N9-C4	-18.42	1.26	1.37
34	BA	1177	C	P-O5'	-18.39	1.41	1.59
34	BA	1411	C	P-O5'	-18.36	1.41	1.59
34	BA	480	G	N9-C4	-18.33	1.23	1.38
38	BE	149	A	N9-C4	-18.31	1.26	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1832	A	P-O5'	-18.28	1.41	1.59
41	BH	121	A	N9-C4	-18.26	1.26	1.37
34	BA	992	A	N9-C4	-18.25	1.26	1.37
34	BA	757	G	C2'-C1'	-18.21	1.33	1.53
34	BA	1468	U	P-O5'	-18.19	1.41	1.59
85	AA	917	A	N9-C4	-18.15	1.26	1.37
34	BA	1649	A	N9-C4	-18.09	1.26	1.37
38	BE	194	A	N9-C4	-18.07	1.27	1.37
38	BE	117	A	P-O5'	-18.00	1.41	1.59
34	BA	321	G	N7-C5	-17.89	1.28	1.39
34	BA	875	G	P-O5'	-17.88	1.41	1.59
35	BB	109	U	P-O5'	-17.85	1.42	1.59
35	BB	577	U	P-O5'	-17.83	1.42	1.59
85	AA	869	A	N9-C4	-17.80	1.27	1.37
35	BB	99	G	P-O5'	-17.79	1.42	1.59
85	AA	1731	G	P-O5'	-17.69	1.42	1.59
35	BB	993	A	N9-C4	-17.68	1.27	1.37
36	BC	113	G	P-O5'	-17.68	1.42	1.59
35	BB	703	U	P-O5'	-17.66	1.42	1.59
35	BB	404	A	N9-C4	-17.64	1.27	1.37
38	BE	163	A	N9-C4	-17.61	1.27	1.37
34	BA	15	G	N9-C4	-17.54	1.24	1.38
35	BB	435	A	N9-C4	-17.49	1.27	1.37
34	BA	135	G	P-O5'	-17.40	1.42	1.59
85	AA	788	G	P-O5'	-17.39	1.42	1.59
34	BA	111	U	C1'-N1	-17.38	1.22	1.46
34	BA	1017	C	P-O5'	-17.37	1.42	1.59
34	BA	919	A	P-O5'	-17.37	1.42	1.59
36	BC	24	G	P-O5'	-17.35	1.42	1.59
35	BB	415	A	N9-C4	-17.29	1.27	1.37
85	AA	367	A	N9-C4	-17.28	1.27	1.37
85	AA	97	A	N9-C4	-17.20	1.27	1.37
85	AA	2063	C	P-O5'	-17.13	1.42	1.59
34	BA	57	A	N9-C4	-17.11	1.27	1.37
40	BG	33	G	N9-C4	-17.07	1.24	1.38
85	AA	2060	G	P-O5'	-17.07	1.42	1.59
41	BH	72	G	O3'-P	-17.03	1.40	1.61
34	BA	1454	G	N9-C4	-16.99	1.24	1.38
85	AA	679	A	N9-C4	-16.92	1.27	1.37
37	BD	100	A	N9-C4	-16.87	1.27	1.37
34	BA	115	U	P-O5'	-16.87	1.42	1.59
34	BA	436	U	P-O5'	-16.83	1.43	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	19	A	N9-C4	-16.79	1.27	1.37
34	BA	141	G	N9-C4	-16.76	1.24	1.38
35	BB	1129	C	P-O5'	-16.74	1.43	1.59
34	BA	1211	G	N7-C5	-16.73	1.29	1.39
85	AA	2092	A	P-O5'	-16.71	1.43	1.59
41	BH	29	G	C6-N1	-16.70	1.27	1.39
34	BA	383	G	P-O5'	-16.70	1.43	1.59
34	BA	316	G	P-O5'	-16.62	1.43	1.59
85	AA	1501	A	P-O5'	-16.61	1.43	1.59
34	BA	6	C	P-O5'	-16.58	1.43	1.59
34	BA	86	A	N9-C4	-16.58	1.27	1.37
34	BA	422	C	P-O5'	-16.57	1.43	1.59
34	BA	1656	A	N9-C4	-16.57	1.27	1.37
34	BA	20	A	N7-C5	-16.53	1.29	1.39
34	BA	605	G	N9-C4	16.53	1.51	1.38
35	BB	1130	U	P-O5'	-16.48	1.43	1.59
35	BB	33	A	N9-C4	-16.48	1.27	1.37
34	BA	900	A	N9-C4	-16.46	1.27	1.37
85	AA	19	A	N9-C4	-16.44	1.27	1.37
36	BC	41	A	N9-C4	-16.41	1.28	1.37
34	BA	45	A	N9-C4	-16.38	1.28	1.37
85	AA	794	A	N9-C4	-16.37	1.28	1.37
85	AA	1240	A	N9-C4	-16.36	1.28	1.37
36	BC	23	G	P-O5'	-16.36	1.43	1.59
85	AA	1254	A	N9-C4	-16.32	1.28	1.37
38	BE	192	A	N9-C4	-16.32	1.28	1.37
35	BB	1246	C	P-O5'	-16.31	1.43	1.59
85	AA	661	C	P-O5'	-16.31	1.43	1.59
35	BB	1148	U	P-O5'	-16.28	1.43	1.59
35	BB	1399	A	N9-C4	-16.27	1.28	1.37
34	BA	1808	A	P-O5'	-16.23	1.43	1.59
85	AA	483	G	P-O5'	-16.16	1.43	1.59
85	AA	431	G	P-O5'	-16.14	1.43	1.59
34	BA	26	C	P-O5'	-16.11	1.43	1.59
85	AA	316	C	P-O5'	-16.10	1.43	1.59
34	BA	292	C	P-O5'	-16.09	1.43	1.59
36	BC	16	A	N9-C4	-16.09	1.28	1.37
35	BB	399	A	N9-C4	-16.09	1.28	1.37
35	BB	798	A	N7-C5	-16.07	1.29	1.39
34	BA	1260	G	P-O5'	-16.07	1.43	1.59
34	BA	502	U	O3'-P	-16.07	1.41	1.61
34	BA	1542	A	N9-C4	-16.04	1.28	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	81	C	P-O5'	-16.04	1.43	1.59
34	BA	348	U	P-O5'	-16.03	1.43	1.59
35	BB	423	G	P-O5'	-16.02	1.43	1.59
34	BA	1503	U	O3'-P	-16.00	1.42	1.61
85	AA	674	U	P-O5'	-15.96	1.43	1.59
34	BA	494	A	P-O5'	-15.93	1.43	1.59
41	BH	44	A	N9-C4	-15.91	1.28	1.37
34	BA	82	A	N9-C4	-15.89	1.28	1.37
34	BA	294	C	P-O5'	-15.89	1.43	1.59
34	BA	481	A	N3-C4	-15.88	1.25	1.34
85	AA	867	G	O3'-P	-15.82	1.42	1.61
36	BC	6	G	N9-C4	-15.80	1.25	1.38
40	BG	30	C	P-O5'	-15.77	1.44	1.59
34	BA	1585	A	N9-C4	-15.76	1.28	1.37
35	BB	96	A	N7-C5	-15.74	1.29	1.39
35	BB	1514	G	P-O5'	-15.74	1.44	1.59
34	BA	684	G	C5'-C4'	15.73	1.70	1.51
40	BG	142	A	N9-C4	-15.72	1.28	1.37
85	AA	1216	A	P-O5'	-15.72	1.44	1.59
36	BC	18	G	N9-C4	-15.70	1.25	1.38
34	BA	1604	A	N9-C4	-15.69	1.28	1.37
40	BG	157	A	N7-C5	-15.67	1.29	1.39
35	BB	79	U	P-O5'	-15.64	1.44	1.59
35	BB	1220	A	N9-C4	-15.62	1.28	1.37
34	BA	1845	G	N9-C4	-15.61	1.25	1.38
35	BB	468	U	P-O5'	-15.61	1.44	1.59
34	BA	96	G	P-O5'	-15.60	1.44	1.59
41	BH	126	C	P-O5'	-15.59	1.44	1.59
85	AA	114	C	P-O5'	-15.59	1.44	1.59
34	BA	398	G	N9-C4	-15.58	1.25	1.38
85	AA	1495	G	P-O5'	-15.58	1.44	1.59
34	BA	1721	U	C4'-C3'	-15.57	1.36	1.53
35	BB	1226	G	N9-C4	-15.57	1.25	1.38
34	BA	1620	U	P-O5'	-15.55	1.44	1.59
36	BC	25	C	P-O5'	-15.55	1.44	1.59
85	AA	635	G	P-O5'	-15.53	1.44	1.59
34	BA	401	A	N9-C4	-15.50	1.28	1.37
35	BB	657	A	P-O5'	-15.49	1.44	1.59
35	BB	993	A	P-O5'	-15.47	1.44	1.59
41	BH	20	A	P-O5'	-15.47	1.44	1.59
37	BD	75	G	N9-C4	-15.46	1.25	1.38
40	BG	35	G	P-O5'	-15.45	1.44	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	447	U	P-O5'	-15.45	1.44	1.59
40	BG	81	G	P-O5'	-15.42	1.44	1.59
34	BA	335	C	P-O5'	-15.41	1.44	1.59
85	AA	937	G	P-O5'	-15.41	1.44	1.59
35	BB	1196	A	N9-C4	-15.39	1.28	1.37
34	BA	740	A	C2'-C1'	-15.39	1.36	1.53
34	BA	417	A	N9-C4	-15.38	1.28	1.37
35	BB	36	U	P-O5'	-15.37	1.44	1.59
34	BA	881	C	P-O5'	-15.37	1.44	1.59
85	AA	527	A	P-O5'	-15.37	1.44	1.59
34	BA	68	A	N9-C4	-15.34	1.28	1.37
85	AA	363	A	N9-C4	-15.33	1.28	1.37
38	BE	6	A	N9-C4	-15.33	1.28	1.37
35	BB	45	A	N9-C4	-15.32	1.28	1.37
35	BB	634	A	P-O5'	-15.32	1.44	1.59
37	BD	14	C	P-O5'	-15.31	1.44	1.59
34	BA	372	U	P-O5'	-15.31	1.44	1.59
85	AA	514	U	P-O5'	-15.27	1.44	1.59
35	BB	701	U	P-O5'	-15.26	1.44	1.59
85	AA	1459	C	P-O5'	-15.26	1.44	1.59
34	BA	1577	U	P-O5'	-15.25	1.44	1.59
34	BA	462	C	P-O5'	-15.24	1.44	1.59
35	BB	837	A	P-O5'	-15.23	1.44	1.59
35	BB	1360	A	P-O5'	-15.23	1.44	1.59
85	AA	699	U	O3'-P	-15.23	1.42	1.61
35	BB	1138	A	C4'-C3'	-15.23	1.36	1.53
85	AA	521	A	N9-C4	-15.22	1.28	1.37
34	BA	906	A	N9-C4	-15.22	1.28	1.37
35	BB	1486	C	P-O5'	-15.22	1.44	1.59
85	AA	443	A	O3'-P	-15.20	1.43	1.61
85	AA	102	A	N9-C4	-15.20	1.28	1.37
35	BB	483	C	P-O5'	-15.19	1.44	1.59
35	BB	1431	G	P-O5'	-15.19	1.44	1.59
34	BA	121	A	N9-C4	-15.18	1.28	1.37
85	AA	557	G	P-O5'	-15.16	1.44	1.59
36	BC	28	C	N1-C2	-15.16	1.25	1.40
34	BA	761	U	C2-N3	-15.13	1.27	1.37
85	AA	1106	A	C4'-C3'	-15.13	1.36	1.53
35	BB	802	G	P-O5'	-15.09	1.44	1.59
34	BA	481	A	P-O5'	-15.08	1.44	1.59
35	BB	1206	G	P-O5'	-15.08	1.44	1.59
38	BE	128	G	P-O5'	-15.08	1.44	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	29	U	P-O5'	-15.07	1.44	1.59
34	BA	843	G	P-O5'	-15.06	1.44	1.59
85	AA	1840	C	P-O5'	-15.04	1.44	1.59
40	BG	140	G	P-O5'	-15.03	1.44	1.59
34	BA	344	G	O3'-P	-15.02	1.43	1.61
34	BA	1277	G	P-O5'	-15.02	1.44	1.59
34	BA	21	C	P-O5'	-15.02	1.44	1.59
40	BG	28	A	P-O5'	-15.02	1.44	1.59
34	BA	1619	U	P-O5'	-14.99	1.44	1.59
34	BA	130	U	P-O5'	-14.98	1.44	1.59
34	BA	1267	A	P-O5'	-14.98	1.44	1.59
34	BA	1615	A	N9-C4	-14.97	1.28	1.37
34	BA	1720	U	C2-N3	-14.97	1.27	1.37
85	AA	1182	A	N9-C4	-14.96	1.28	1.37
41	BH	111	U	P-O5'	-14.95	1.44	1.59
34	BA	1146	U	P-O5'	-14.95	1.44	1.59
35	BB	971	A	N9-C4	-14.93	1.28	1.37
85	AA	424	A	C3'-C2'	-14.93	1.36	1.52
85	AA	2147	A	N9-C4	-14.93	1.28	1.37
85	AA	706	U	P-O5'	-14.92	1.44	1.59
34	BA	894	G	N9-C4	-14.89	1.26	1.38
41	BH	107	A	N9-C4	-14.89	1.28	1.37
35	BB	1515	C	P-O5'	-14.88	1.44	1.59
35	BB	1209	A	N9-C4	-14.87	1.28	1.37
34	BA	1275	G	O3'-P	-14.87	1.43	1.61
35	BB	456	A	N9-C4	-14.86	1.28	1.37
35	BB	630	A	P-O5'	-14.85	1.44	1.59
85	AA	1521	U	P-O5'	-14.85	1.45	1.59
34	BA	196	A	O3'-P	-14.84	1.43	1.61
35	BB	505	G	P-O5'	-14.83	1.45	1.59
85	AA	986	U	P-O5'	-14.80	1.45	1.59
38	BE	31	A	P-O5'	-14.79	1.45	1.59
34	BA	12	G	N9-C4	-14.79	1.26	1.38
85	AA	644	A	N9-C4	-14.78	1.28	1.37
34	BA	530	A	N9-C4	-14.77	1.28	1.37
34	BA	946	A	N9-C4	-14.75	1.28	1.37
34	BA	212	A	P-O5'	-14.75	1.45	1.59
35	BB	621	C	P-O5'	-14.74	1.45	1.59
38	BE	119	U	P-O5'	-14.72	1.45	1.59
34	BA	67	A	N9-C4	-14.71	1.29	1.37
85	AA	2140	U	P-O5'	-14.71	1.45	1.59
40	BG	22	G	O3'-P	-14.69	1.43	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	806	G	P-O5'	-14.69	1.45	1.59
34	BA	1485	U	P-O5'	-14.68	1.45	1.59
34	BA	1647	G	P-O5'	-14.68	1.45	1.59
85	AA	1219	A	N9-C4	-14.67	1.29	1.37
35	BB	1483	A	P-O5'	-14.65	1.45	1.59
34	BA	897	U	P-O5'	-14.65	1.45	1.59
85	AA	1469	G	O3'-P	-14.64	1.43	1.61
34	BA	759	A	P-O5'	-14.64	1.45	1.59
34	BA	1706	A	N9-C4	-14.64	1.29	1.37
34	BA	30	A	P-O5'	-14.62	1.45	1.59
40	BG	20	U	P-O5'	-14.62	1.45	1.59
34	BA	547	C	C5'-C4'	14.62	1.68	1.51
34	BA	547	C	O3'-P	14.61	1.78	1.61
35	BB	784	C	P-O5'	-14.61	1.45	1.59
85	AA	1996	A	N9-C4	-14.60	1.29	1.37
34	BA	1709	A	O3'-P	-14.59	1.43	1.61
35	BB	1234	G	P-O5'	-14.59	1.45	1.59
34	BA	141	G	N3-C4	-14.57	1.25	1.35
34	BA	241	U	P-O5'	-14.57	1.45	1.59
34	BA	888	G	P-O5'	-14.56	1.45	1.59
35	BB	1052	G	O3'-P	-14.56	1.43	1.61
35	BB	1109	A	P-O5'	-14.55	1.45	1.59
34	BA	207	A	N9-C4	-14.54	1.29	1.37
34	BA	297	A	P-O5'	-14.54	1.45	1.59
40	BG	34	A	N9-C4	-14.54	1.29	1.37
35	BB	835	C	P-O5'	-14.53	1.45	1.59
37	BD	51	G	P-O5'	-14.53	1.45	1.59
34	BA	389	U	P-O5'	-14.53	1.45	1.59
34	BA	1204	U	O3'-P	-14.51	1.43	1.61
85	AA	2120	C	P-O5'	-14.51	1.45	1.59
41	BH	26	C	P-O5'	-14.50	1.45	1.59
34	BA	166	G	P-O5'	-14.50	1.45	1.59
37	BD	19	C	P-O5'	-14.50	1.45	1.59
34	BA	1675	C	P-O5'	-14.49	1.45	1.59
34	BA	1176	C	P-O5'	-14.48	1.45	1.59
35	BB	5	A	C6-N6	-14.48	1.22	1.33
37	BD	35	C	P-O5'	-14.48	1.45	1.59
85	AA	2142	A	N9-C4	-14.48	1.29	1.37
85	AA	2174	G	N9-C4	-14.46	1.26	1.38
34	BA	591	G	P-O5'	-14.46	1.45	1.59
34	BA	1039	G	P-O5'	-14.46	1.45	1.59
34	BA	1148	U	P-O5'	-14.44	1.45	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	169	A	N9-C4	-14.42	1.29	1.37
34	BA	281	C	P-O5'	-14.41	1.45	1.59
34	BA	804	G	C6-N1	-14.41	1.29	1.39
85	AA	731	U	P-O5'	-14.41	1.45	1.59
35	BB	666	A	N9-C4	-14.40	1.29	1.37
85	AA	413	G	P-O5'	-14.39	1.45	1.59
85	AA	862	U	O3'-P	-14.39	1.43	1.61
34	BA	1798	G	P-O5'	-14.38	1.45	1.59
34	BA	299	C	P-O5'	-14.37	1.45	1.59
35	BB	687	C	P-O5'	-14.37	1.45	1.59
34	BA	57	A	N7-C5	-14.37	1.30	1.39
85	AA	887	A	N9-C4	-14.37	1.29	1.37
34	BA	957	A	O3'-P	-14.36	1.44	1.61
34	BA	1143	U	P-O5'	-14.36	1.45	1.59
34	BA	1412	G	C6-N1	-14.36	1.29	1.39
34	BA	500	C	O3'-P	-14.35	1.44	1.61
34	BA	1011	G	N9-C4	-14.35	1.26	1.38
40	BG	51	U	P-O5'	-14.34	1.45	1.59
35	BB	430	A	N9-C4	-14.34	1.29	1.37
34	BA	1563	G	P-O5'	-14.34	1.45	1.59
38	BE	101	C	O3'-P	-14.34	1.44	1.61
85	AA	385	A	N9-C4	-14.33	1.29	1.37
36	BC	117	A	N9-C4	-14.32	1.29	1.37
37	BD	72	U	O3'-P	-14.32	1.44	1.61
34	BA	401	A	P-O5'	-14.31	1.45	1.59
40	BG	135	C	P-O5'	-14.31	1.45	1.59
36	BC	51	A	N9-C4	-14.30	1.29	1.37
34	BA	1592	U	P-O5'	-14.28	1.45	1.59
85	AA	1666	U	P-O5'	-14.28	1.45	1.59
34	BA	1650	G	C1'-N9	-14.26	1.26	1.46
36	BC	148	C	P-O5'	-14.26	1.45	1.59
34	BA	777	C	P-O5'	-14.26	1.45	1.59
35	BB	21	C	O3'-P	-14.24	1.44	1.61
35	BB	1005	A	P-O5'	-14.24	1.45	1.59
38	BE	194	A	N7-C5	-14.24	1.30	1.39
85	AA	2122	A	N7-C5	-14.23	1.30	1.39
85	AA	991	G	N7-C5	-14.22	1.30	1.39
85	AA	870	U	P-O5'	-14.22	1.45	1.59
35	BB	605	C	O3'-P	-14.22	1.44	1.61
85	AA	414	C	P-O5'	-14.19	1.45	1.59
35	BB	93	A	P-O5'	-14.18	1.45	1.59
85	AA	474	C	P-O5'	-14.17	1.45	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1262	A	N9-C4	-14.16	1.29	1.37
34	BA	665	C	P-O5'	-14.15	1.45	1.59
34	BA	1213	A	P-O5'	-14.15	1.45	1.59
85	AA	1256	C	P-O5'	-14.14	1.45	1.59
35	BB	871	C	P-O5'	-14.14	1.45	1.59
34	BA	1415	C	P-O5'	-14.13	1.45	1.59
35	BB	1449	G	P-O5'	-14.13	1.45	1.59
39	BF	14	C	O3'-P	-14.13	1.44	1.61
34	BA	1438	C	P-O5'	-14.12	1.45	1.59
39	BF	4	A	N9-C4	-14.12	1.29	1.37
35	BB	1452	U	P-O5'	-14.12	1.45	1.59
35	BB	593	A	N9-C4	-14.11	1.29	1.37
38	BE	45	G	P-O5'	-14.12	1.45	1.59
39	BF	11	C	C5'-C4'	14.11	1.68	1.51
85	AA	313	A	N9-C4	-14.11	1.29	1.37
35	BB	1355	C	O3'-P	-14.11	1.44	1.61
85	AA	932	A	N9-C4	-14.11	1.29	1.37
85	AA	586	G	P-O5'	-14.10	1.45	1.59
38	BE	21	C	O3'-P	-14.10	1.44	1.61
85	AA	800	A	N9-C4	-14.10	1.29	1.37
34	BA	1697	U	O3'-P	-14.09	1.44	1.61
36	BC	137	C	P-O5'	-14.08	1.45	1.59
34	BA	296	G	C4'-C3'	14.07	1.68	1.53
34	BA	452	A	N9-C4	-14.07	1.29	1.37
85	AA	427	G	P-O5'	-14.06	1.45	1.59
34	BA	720	A	N9-C4	-14.05	1.29	1.37
35	BB	1404	A	N9-C4	-14.05	1.29	1.37
85	AA	5	U	P-O5'	-14.05	1.45	1.59
85	AA	419	A	N9-C4	-14.05	1.29	1.37
34	BA	921	G	P-O5'	-14.04	1.45	1.59
34	BA	1528	U	P-O5'	-14.04	1.45	1.59
34	BA	1790	U	P-O5'	-14.04	1.45	1.59
39	BF	22	U	P-O5'	-14.04	1.45	1.59
35	BB	577	U	C2-N3	-14.03	1.27	1.37
85	AA	2151	U	P-O5'	-14.03	1.45	1.59
85	AA	492	C	P-O5'	-14.02	1.45	1.59
37	BD	111	U	P-O5'	-14.00	1.45	1.59
85	AA	1465	C	P-O5'	-13.99	1.45	1.59
34	BA	458	G	P-O5'	-13.98	1.45	1.59
34	BA	755	G	N9-C4	-13.98	1.26	1.38
85	AA	440	U	P-O5'	-13.98	1.45	1.59
34	BA	480	G	P-O5'	-13.97	1.45	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	431	U	P-O5'	-13.97	1.45	1.59
34	BA	376	U	C2-N3	-13.96	1.27	1.37
85	AA	484	G	C2'-C1'	-13.96	1.38	1.53
34	BA	104	A	N9-C4	-13.96	1.29	1.37
85	AA	1247	A	O3'-P	-13.93	1.44	1.61
35	BB	491	A	N9-C4	-13.93	1.29	1.37
85	AA	1520	A	N9-C4	-13.93	1.29	1.37
35	BB	1164	U	P-O5'	-13.93	1.45	1.59
34	BA	1049	G	N9-C4	-13.92	1.26	1.38
34	BA	1599	A	O3'-P	-13.92	1.44	1.61
34	BA	983	A	N9-C4	-13.90	1.29	1.37
34	BA	792	A	N9-C4	-13.90	1.29	1.37
39	BF	69	A	N9-C4	-13.90	1.29	1.37
35	BB	604	C	P-O5'	-13.88	1.45	1.59
34	BA	605	G	N7-C5	-13.88	1.30	1.39
38	BE	59	U	P-O5'	-13.88	1.45	1.59
85	AA	2071	U	P-O5'	-13.88	1.45	1.59
37	BD	77	A	P-O5'	-13.88	1.45	1.59
34	BA	1619	U	O3'-P	-13.88	1.44	1.61
34	BA	858	C	P-O5'	-13.87	1.45	1.59
35	BB	766	G	P-O5'	-13.87	1.45	1.59
85	AA	1679	U	P-O5'	-13.87	1.45	1.59
34	BA	12	G	P-O5'	-13.86	1.45	1.59
34	BA	1025	A	N9-C4	-13.86	1.29	1.37
35	BB	1334	C	C2'-C1'	-13.86	1.38	1.53
35	BB	1195	A	P-O5'	-13.85	1.46	1.59
35	BB	80	C	O3'-P	-13.84	1.44	1.61
34	BA	254	U	C2-N3	-13.84	1.28	1.37
35	BB	1243	A	N9-C4	-13.84	1.29	1.37
41	BH	127	A	P-O5'	-13.83	1.46	1.59
85	AA	77	C	P-O5'	-13.83	1.46	1.59
34	BA	484	A	N9-C4	-13.82	1.29	1.37
35	BB	1222	A	N9-C4	-13.81	1.29	1.37
34	BA	793	A	P-O5'	-13.80	1.46	1.59
34	BA	138	C	P-O5'	-13.80	1.46	1.59
38	BE	96	G	P-O5'	-13.80	1.46	1.59
38	BE	193	A	N9-C4	-13.79	1.29	1.37
85	AA	130	G	P-O5'	-13.79	1.46	1.59
85	AA	504	U	O3'-P	-13.78	1.44	1.61
85	AA	932	A	P-O5'	-13.78	1.46	1.59
34	BA	257	G	N9-C4	-13.77	1.26	1.38
85	AA	1463	A	P-O5'	-13.77	1.46	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	762	A	N9-C4	-13.76	1.29	1.37
34	BA	64	A	N9-C4	-13.76	1.29	1.37
85	AA	1539	A	N9-C4	-13.76	1.29	1.37
34	BA	62	A	N9-C4	-13.75	1.29	1.37
34	BA	1558	C	P-O5'	-13.75	1.46	1.59
36	BC	88	A	P-O5'	-13.75	1.46	1.59
40	BG	118	U	P-O5'	-13.74	1.46	1.59
34	BA	1556	A	C1'-N9	-13.74	1.27	1.46
36	BC	24	G	O3'-P	-13.74	1.44	1.61
85	AA	1180	C	O3'-P	-13.73	1.44	1.61
34	BA	1561	C	P-O5'	-13.72	1.46	1.59
40	BG	18	U	P-O5'	-13.72	1.46	1.59
35	BB	5	A	C2'-C1'	-13.71	1.38	1.53
85	AA	2176	U	P-O5'	-13.72	1.46	1.59
41	BH	37	U	O3'-P	-13.69	1.44	1.61
35	BB	552	C	P-O5'	-13.67	1.46	1.59
85	AA	28	A	P-O5'	-13.67	1.46	1.59
35	BB	1033	U	P-O5'	-13.67	1.46	1.59
40	BG	28	A	O3'-P	-13.66	1.44	1.61
34	BA	127	U	P-O5'	-13.66	1.46	1.59
34	BA	774	A	N9-C4	-13.66	1.29	1.37
34	BA	802	G	P-O5'	-13.65	1.46	1.59
34	BA	926	A	P-O5'	-13.63	1.46	1.59
38	BE	27	A	C1'-N9	-13.63	1.27	1.46
35	BB	1181	A	N9-C4	-13.63	1.29	1.37
85	AA	168	A	P-O5'	-13.62	1.46	1.59
34	BA	1097	G	O3'-P	-13.62	1.44	1.61
34	BA	290	G	P-O5'	-13.61	1.46	1.59
34	BA	409	A	N9-C4	-13.61	1.29	1.37
34	BA	680	C	O3'-P	-13.61	1.44	1.61
34	BA	1028	A	P-O5'	-13.61	1.46	1.59
85	AA	692	U	P-O5'	-13.61	1.46	1.59
85	AA	484	G	P-O5'	-13.60	1.46	1.59
34	BA	582	U	C2-N3	-13.59	1.28	1.37
36	BC	156	A	N9-C4	-13.59	1.29	1.37
36	BC	102	G	P-O5'	-13.58	1.46	1.59
35	BB	1252	G	N9-C4	-13.56	1.27	1.38
34	BA	557	U	C2'-C1'	-13.54	1.38	1.53
34	BA	1489	U	P-O5'	-13.54	1.46	1.59
85	AA	508	C	P-O5'	-13.54	1.46	1.59
39	BF	28	C	O3'-P	-13.53	1.45	1.61
34	BA	1637	G	P-O5'	-13.53	1.46	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	692	U	N1-C2	-13.52	1.26	1.38
85	AA	668	A	N9-C4	-13.52	1.29	1.37
34	BA	557	U	N1-C6	-13.52	1.25	1.38
35	BB	1063	C	P-O5'	-13.51	1.46	1.59
85	AA	1226	A	P-O5'	-13.51	1.46	1.59
85	AA	435	A	N9-C4	-13.51	1.29	1.37
34	BA	141	G	C2-N3	-13.50	1.22	1.32
34	BA	214	A	N9-C4	-13.49	1.29	1.37
37	BD	82	G	C3'-C2'	-13.49	1.38	1.52
39	BF	23	G	C2'-C1'	-13.49	1.38	1.53
38	BE	32	U	P-O5'	-13.48	1.46	1.59
34	BA	1666	U	P-O5'	-13.46	1.46	1.59
85	AA	115	U	O3'-P	-13.46	1.45	1.61
35	BB	39	C	P-O5'	-13.46	1.46	1.59
35	BB	8	U	P-O5'	-13.46	1.46	1.59
34	BA	894	G	O3'-P	-13.46	1.45	1.61
34	BA	93	A	O3'-P	-13.45	1.45	1.61
34	BA	1160	U	P-O5'	-13.44	1.46	1.59
34	BA	1247	G	P-O5'	-13.44	1.46	1.59
34	BA	1463	U	P-O5'	-13.44	1.46	1.59
35	BB	613	C	P-O5'	-13.44	1.46	1.59
37	BD	61	C	P-O5'	-13.44	1.46	1.59
85	AA	2188	C	O3'-P	-13.43	1.45	1.61
34	BA	1685	C	P-O5'	-13.43	1.46	1.59
85	AA	455	G	N9-C4	-13.42	1.27	1.38
85	AA	152	A	N7-C5	-13.42	1.31	1.39
35	BB	27	C	O3'-P	-13.42	1.45	1.61
37	BD	4	U	P-O5'	-13.42	1.46	1.59
34	BA	74	A	C2'-C1'	-13.41	1.38	1.53
85	AA	2075	C	P-O5'	-13.40	1.46	1.59
34	BA	236	A	O3'-P	-13.40	1.45	1.61
34	BA	1197	U	P-O5'	-13.39	1.46	1.59
38	BE	133	C	O3'-P	-13.39	1.45	1.61
34	BA	741	A	N9-C4	-13.39	1.29	1.37
34	BA	182	U	P-O5'	-13.38	1.46	1.59
34	BA	65	A	C2'-C1'	-13.38	1.38	1.53
34	BA	206	C	C5'-C4'	13.37	1.67	1.51
35	BB	1102	U	O3'-P	-13.38	1.45	1.61
85	AA	521	A	N7-C5	-13.37	1.31	1.39
85	AA	2127	G	N9-C4	-13.37	1.27	1.38
35	BB	1282	G	P-O5'	-13.37	1.46	1.59
34	BA	330	A	N9-C4	-13.36	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	788	C	C2'-C1'	-13.36	1.38	1.53
85	AA	1456	A	N9-C4	-13.36	1.29	1.37
34	BA	1031	U	P-O5'	-13.35	1.46	1.59
85	AA	365	G	C2'-C1'	-13.35	1.38	1.53
35	BB	999	G	P-O5'	-13.34	1.46	1.59
85	AA	511	A	P-O5'	-13.34	1.46	1.59
34	BA	982	A	N9-C4	-13.33	1.29	1.37
34	BA	1217	A	N9-C4	-13.33	1.29	1.37
35	BB	549	U	O3'-P	-13.33	1.45	1.61
35	BB	1425	A	N9-C4	-13.33	1.29	1.37
85	AA	982	G	N9-C4	-13.33	1.27	1.38
34	BA	1202	G	P-O5'	-13.32	1.46	1.59
35	BB	1327	U	O3'-P	-13.32	1.45	1.61
34	BA	1500	G	N9-C4	13.32	1.48	1.38
85	AA	1116	G	P-O5'	-13.32	1.46	1.59
34	BA	922	C	O3'-P	-13.32	1.45	1.61
34	BA	1160	U	O3'-P	-13.32	1.45	1.61
34	BA	1796	A	N9-C4	-13.31	1.29	1.37
85	AA	1511	C	P-O5'	-13.31	1.46	1.59
85	AA	1230	U	P-O5'	-13.31	1.46	1.59
34	BA	891	C	P-O5'	-13.31	1.46	1.59
38	BE	162	U	P-O5'	-13.30	1.46	1.59
34	BA	1598	U	P-O5'	-13.30	1.46	1.59
85	AA	1471	G	P-O5'	-13.30	1.46	1.59
85	AA	1708	A	N9-C4	-13.29	1.29	1.37
35	BB	1385	C	O3'-P	-13.29	1.45	1.61
85	AA	2131	C	P-O5'	-13.28	1.46	1.59
34	BA	1550	G	P-O5'	-13.27	1.46	1.59
34	BA	1564	A	P-O5'	-13.27	1.46	1.59
85	AA	53	G	P-O5'	-13.26	1.46	1.59
35	BB	1426	G	C6-N1	-13.26	1.30	1.39
37	BD	106	G	P-O5'	-13.25	1.46	1.59
85	AA	862	U	P-O5'	-13.25	1.46	1.59
34	BA	1466	U	C2-N3	-13.24	1.28	1.37
34	BA	1520	A	O3'-P	-13.24	1.45	1.61
35	BB	697	G	P-O5'	-13.24	1.46	1.59
35	BB	56	U	P-O5'	-13.24	1.46	1.59
85	AA	2196	G	P-O5'	-13.24	1.46	1.59
85	AA	1525	C	P-O5'	-13.24	1.46	1.59
36	BC	31	A	C1'-N9	-13.23	1.28	1.46
35	BB	690	C	P-O5'	-13.22	1.46	1.59
85	AA	755	G	P-O5'	-13.22	1.46	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	525	C	C2'-C1'	-13.22	1.38	1.53
34	BA	4	A	N9-C4	-13.21	1.29	1.37
34	BA	421	G	P-O5'	-13.21	1.46	1.59
34	BA	1636	C	O3'-P	-13.21	1.45	1.61
35	BB	1025	A	C5'-C4'	13.21	1.67	1.51
34	BA	1409	A	N9-C4	-13.18	1.29	1.37
41	BH	33	G	O3'-P	-13.18	1.45	1.61
85	AA	169	G	P-O5'	-13.17	1.46	1.59
35	BB	1123	A	P-O5'	-13.17	1.46	1.59
85	AA	939	A	N7-C5	-13.16	1.31	1.39
85	AA	1831	U	P-O5'	-13.15	1.46	1.59
39	BF	32	G	O3'-P	-13.15	1.45	1.61
35	BB	778	A	O3'-P	-13.15	1.45	1.61
34	BA	1462	U	O3'-P	-13.15	1.45	1.61
85	AA	1669	G	P-O5'	-13.15	1.46	1.59
39	BF	58	U	P-O5'	-13.14	1.46	1.59
35	BB	121	A	P-O5'	-13.13	1.46	1.59
35	BB	648	G	O3'-P	-13.13	1.45	1.61
85	AA	100	A	N9-C4	-13.13	1.29	1.37
34	BA	1422	A	N9-C4	-13.12	1.29	1.37
85	AA	923	A	O3'-P	-13.12	1.45	1.61
35	BB	81	A	P-O5'	-13.12	1.46	1.59
34	BA	590	U	P-O5'	-13.11	1.46	1.59
34	BA	1675	C	O3'-P	-13.11	1.45	1.61
37	BD	93	G	P-O5'	-13.11	1.46	1.59
38	BE	94	U	O3'-P	-13.11	1.45	1.61
34	BA	1658	G	P-O5'	-13.11	1.46	1.59
34	BA	280	A	P-O5'	-13.10	1.46	1.59
35	BB	1334	C	O3'-P	-13.10	1.45	1.61
34	BA	1804	A	N7-C5	-13.09	1.31	1.39
35	BB	1440	A	N9-C4	-13.09	1.29	1.37
34	BA	1809	G	P-O5'	-13.08	1.46	1.59
34	BA	221	G	P-O5'	-13.08	1.46	1.59
40	BG	38	A	N9-C4	-13.07	1.30	1.37
37	BD	101	A	N9-C4	-13.06	1.30	1.37
34	BA	228	A	N9-C4	13.06	1.45	1.37
35	BB	21	C	P-O5'	-13.06	1.46	1.59
85	AA	69	C	C2'-C1'	-13.06	1.39	1.53
41	BH	36	C	P-O5'	-13.06	1.46	1.59
39	BF	31	U	O3'-P	-13.06	1.45	1.61
85	AA	960	G	N7-C5	-13.06	1.31	1.39
35	BB	1445	A	N9-C4	-13.05	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1699	A	P-O5'	-13.05	1.46	1.59
35	BB	1339	C	P-O5'	-13.04	1.46	1.59
85	AA	1462	A	C2'-C1'	-13.04	1.39	1.53
34	BA	1284	G	C6-N1	-13.04	1.30	1.39
34	BA	1545	C	P-O5'	-13.03	1.46	1.59
35	BB	101	U	P-O5'	-13.03	1.46	1.59
34	BA	1315	C	O3'-P	-13.03	1.45	1.61
35	BB	512	C	P-O5'	-13.02	1.46	1.59
34	BA	1503	U	C2'-C1'	-13.01	1.39	1.53
34	BA	1475	G	O3'-P	-13.01	1.45	1.61
34	BA	1262	A	N9-C4	-13.01	1.30	1.37
36	BC	98	C	P-O5'	-13.01	1.46	1.59
85	AA	100	A	P-O5'	-13.01	1.46	1.59
85	AA	1703	A	P-O5'	-13.00	1.46	1.59
36	BC	108	A	P-O5'	-13.00	1.46	1.59
85	AA	390	U	C2'-C1'	-12.99	1.39	1.53
37	BD	8	A	P-O5'	-12.99	1.46	1.59
39	BF	56	C	P-O5'	-12.99	1.46	1.59
34	BA	969	A	N9-C4	-12.99	1.30	1.37
34	BA	1710	C	P-O5'	-12.99	1.46	1.59
36	BC	124	A	N9-C4	12.98	1.45	1.37
85	AA	1499	G	P-O5'	-12.98	1.46	1.59
34	BA	696	A	O3'-P	-12.97	1.45	1.61
85	AA	699	U	P-O5'	-12.97	1.46	1.59
35	BB	492	U	P-O5'	-12.97	1.46	1.59
85	AA	2107	C	P-O5'	-12.97	1.46	1.59
85	AA	1454	U	P-O5'	-12.96	1.46	1.59
34	BA	1518	A	N9-C4	-12.96	1.30	1.37
35	BB	50	A	P-O5'	-12.95	1.46	1.59
35	BB	458	U	P-O5'	-12.94	1.46	1.59
39	BF	73	U	P-O5'	-12.94	1.46	1.59
40	BG	105	A	P-O5'	-12.94	1.46	1.59
41	BH	45	G	P-O5'	-12.94	1.46	1.59
35	BB	1322	A	N9-C4	-12.93	1.30	1.37
34	BA	798	G	N9-C4	-12.92	1.27	1.38
85	AA	323	U	P-O5'	-12.92	1.46	1.59
35	BB	586	U	P-O5'	-12.91	1.46	1.59
85	AA	49	C	P-O5'	-12.91	1.46	1.59
36	BC	100	U	P-O5'	-12.91	1.46	1.59
85	AA	1471	G	O3'-P	-12.91	1.45	1.61
34	BA	801	U	P-O5'	-12.90	1.46	1.59
85	AA	1221	G	N9-C4	-12.90	1.27	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	98	A	N9-C4	-12.89	1.30	1.37
34	BA	809	U	C2-N3	-12.89	1.28	1.37
34	BA	906	A	P-O5'	-12.89	1.46	1.59
35	BB	1134	G	P-O5'	-12.89	1.46	1.59
34	BA	1728	G	O3'-P	-12.88	1.45	1.61
34	BA	1789	A	O3'-P	-12.88	1.45	1.61
35	BB	638	G	P-O5'	-12.88	1.46	1.59
40	BG	109	C	P-O5'	-12.87	1.46	1.59
34	BA	105	U	P-O5'	-12.87	1.46	1.59
34	BA	1689	U	O3'-P	-12.87	1.45	1.61
34	BA	297	A	O3'-P	-12.86	1.45	1.61
34	BA	369	A	O3'-P	-12.86	1.45	1.61
36	BC	42	G	P-O5'	-12.86	1.46	1.59
85	AA	2127	G	C2'-C1'	-12.86	1.39	1.53
35	BB	1220	A	O3'-P	-12.85	1.45	1.61
35	BB	778	A	P-O5'	-12.85	1.47	1.59
41	BH	23	G	O3'-P	-12.84	1.45	1.61
34	BA	10	G	P-O5'	-12.84	1.47	1.59
85	AA	2132	A	O3'-P	-12.84	1.45	1.61
85	AA	1197	U	P-O5'	-12.83	1.47	1.59
35	BB	1156	U	P-O5'	-12.82	1.47	1.59
38	BE	201	A	N9-C4	-12.82	1.30	1.37
85	AA	889	G	P-O5'	-12.82	1.47	1.59
35	BB	1422	G	N9-C4	-12.82	1.27	1.38
34	BA	326	A	C4'-C3'	-12.82	1.39	1.53
85	AA	1924	C	P-O5'	-12.82	1.47	1.59
85	AA	1124	G	C3'-C2'	-12.81	1.38	1.52
85	AA	1114	A	N9-C4	-12.81	1.30	1.37
34	BA	264	A	N9-C4	-12.81	1.30	1.37
34	BA	1668	C	P-O5'	-12.80	1.47	1.59
34	BA	1609	U	P-O5'	-12.80	1.47	1.59
37	BD	34	C	P-O5'	-12.80	1.47	1.59
34	BA	1329	U	P-O5'	-12.79	1.47	1.59
40	BG	103	C	P-O5'	-12.78	1.47	1.59
85	AA	1538	C	O3'-P	-12.78	1.45	1.61
34	BA	1222	C	O3'-P	-12.77	1.45	1.61
85	AA	2182	A	N9-C4	-12.77	1.30	1.37
85	AA	935	A	P-O5'	-12.73	1.47	1.59
34	BA	1323	G	P-O5'	-12.73	1.47	1.59
40	BG	49	A	O3'-P	-12.73	1.45	1.61
85	AA	1206	A	O3'-P	-12.73	1.45	1.61
40	BG	156	G	N9-C4	-12.72	1.27	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	91	G	P-O5'	-12.72	1.47	1.59
35	BB	832	C	P-O5'	-12.72	1.47	1.59
35	BB	1484	A	N7-C5	-12.72	1.31	1.39
34	BA	1564	A	N9-C4	-12.71	1.30	1.37
36	BC	17	U	P-O5'	-12.71	1.47	1.59
34	BA	896	U	C3'-C2'	12.71	1.67	1.52
35	BB	1254	G	N9-C4	-12.71	1.27	1.38
35	BB	1260	A	N9-C4	-12.71	1.30	1.37
36	BC	26	U	N1-C2	-12.71	1.27	1.38
85	AA	251	A	P-O5'	-12.70	1.47	1.59
34	BA	774	A	C2'-C1'	-12.70	1.39	1.53
35	BB	782	A	P-O5'	-12.70	1.47	1.59
85	AA	152	A	N9-C4	-12.70	1.30	1.37
34	BA	1578	A	N9-C4	-12.69	1.30	1.37
85	AA	2054	G	P-O5'	-12.69	1.47	1.59
34	BA	1556	A	P-O5'	-12.69	1.47	1.59
41	BH	33	G	N9-C4	-12.69	1.27	1.38
36	BC	54	G	C2'-C1'	-12.68	1.39	1.53
38	BE	48	G	P-O5'	-12.68	1.47	1.59
40	BG	139	U	O3'-P	-12.67	1.46	1.61
85	AA	420	C	P-O5'	-12.67	1.47	1.59
85	AA	424	A	N9-C4	-12.67	1.30	1.37
41	BH	6	U	P-O5'	-12.66	1.47	1.59
34	BA	1804	A	N9-C4	-12.65	1.30	1.37
35	BB	580	A	N9-C4	-12.65	1.30	1.37
34	BA	972	C	P-O5'	-12.65	1.47	1.59
37	BD	90	A	N9-C4	-12.65	1.30	1.37
35	BB	1155	U	C2-N3	-12.65	1.28	1.37
34	BA	874	G	O3'-P	-12.64	1.46	1.61
34	BA	1461	A	P-O5'	-12.64	1.47	1.59
36	BC	116	C	P-O5'	-12.64	1.47	1.59
85	AA	967	C	P-O5'	-12.64	1.47	1.59
41	BH	108	U	O3'-P	-12.63	1.46	1.61
34	BA	1499	A	P-O5'	-12.63	1.47	1.59
85	AA	1104	G	P-O5'	-12.63	1.47	1.59
35	BB	451	A	N9-C4	-12.62	1.30	1.37
34	BA	8	G	P-O5'	-12.62	1.47	1.59
37	BD	25	G	P-O5'	-12.61	1.47	1.59
34	BA	748	C	P-O5'	-12.61	1.47	1.59
35	BB	1259	A	N9-C4	-12.61	1.30	1.37
34	BA	1786	C	P-O5'	-12.60	1.47	1.59
85	AA	107	A	N9-C4	-12.60	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	758	G	O3'-P	-12.60	1.46	1.61
34	BA	1591	G	P-O5'	-12.60	1.47	1.59
34	BA	209	A	N7-C5	-12.59	1.31	1.39
85	AA	479	C	P-O5'	-12.59	1.47	1.59
35	BB	1168	G	P-O5'	-12.59	1.47	1.59
85	AA	2143	U	P-O5'	-12.59	1.47	1.59
34	BA	736	G	N9-C4	-12.59	1.27	1.38
34	BA	1709	A	N9-C4	-12.58	1.30	1.37
35	BB	795	A	N9-C4	-12.58	1.30	1.37
35	BB	1147	G	O3'-P	-12.58	1.46	1.61
85	AA	411	U	O3'-P	-12.58	1.46	1.61
34	BA	1179	U	O3'-P	-12.57	1.46	1.61
38	BE	177	U	C2-N3	-12.57	1.28	1.37
35	BB	1211	C	P-O5'	-12.57	1.47	1.59
37	BD	74	A	N9-C4	-12.56	1.30	1.37
35	BB	1196	A	O3'-P	-12.56	1.46	1.61
34	BA	56	G	C1'-N9	-12.55	1.29	1.46
35	BB	1320	U	P-O5'	-12.55	1.47	1.59
35	BB	622	G	N7-C5	-12.55	1.31	1.39
39	BF	9	C	P-O5'	-12.55	1.47	1.59
35	BB	786	A	N9-C4	-12.55	1.30	1.37
34	BA	1189	A	P-O5'	-12.55	1.47	1.59
34	BA	1064	A	N9-C4	-12.54	1.30	1.37
35	BB	1201	G	C4'-C3'	12.54	1.67	1.53
37	BD	99	G	N9-C4	-12.54	1.27	1.38
35	BB	93	A	N9-C4	-12.54	1.30	1.37
34	BA	1321	A	N9-C4	-12.52	1.30	1.37
35	BB	1376	G	P-O5'	-12.52	1.47	1.59
34	BA	397	A	O3'-P	-12.52	1.46	1.61
37	BD	48	G	C1'-N9	-12.52	1.29	1.46
85	AA	2145	G	C2'-C1'	-12.52	1.39	1.53
34	BA	323	C	C2'-C1'	-12.52	1.39	1.53
40	BG	22	G	P-O5'	-12.51	1.47	1.59
85	AA	687	G	P-O5'	-12.51	1.47	1.59
85	AA	1153	G	N7-C5	-12.51	1.31	1.39
86	AB	68	C	P-O5'	-12.50	1.47	1.59
34	BA	705	C	P-O5'	-12.50	1.47	1.59
35	BB	1489	A	N9-C4	-12.50	1.30	1.37
38	BE	23	G	P-O5'	-12.50	1.47	1.59
38	BE	201	A	P-O5'	-12.50	1.47	1.59
35	BB	788	U	C2-N3	-12.50	1.29	1.37
34	BA	606	G	O3'-P	-12.49	1.46	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	939	C	P-O5'	-12.49	1.47	1.59
35	BB	122	U	C2-N3	-12.49	1.29	1.37
35	BB	1195	A	N9-C4	-12.49	1.30	1.37
36	BC	107	C	P-O5'	-12.49	1.47	1.59
38	BE	18	U	P-O5'	-12.49	1.47	1.59
85	AA	2096	G	P-O5'	-12.49	1.47	1.59
34	BA	1418	G	P-O5'	-12.48	1.47	1.59
34	BA	1639	U	P-O5'	-12.48	1.47	1.59
35	BB	1024	G	P-O5'	-12.47	1.47	1.59
85	AA	1516	A	O3'-P	-12.47	1.46	1.61
85	AA	1871	U	P-O5'	-12.47	1.47	1.59
36	BC	17	U	N1-C2	-12.47	1.27	1.38
34	BA	1003	A	P-O5'	-12.46	1.47	1.59
85	AA	505	U	P-O5'	-12.46	1.47	1.59
34	BA	1599	A	P-O5'	-12.46	1.47	1.59
85	AA	422	G	P-O5'	-12.46	1.47	1.59
34	BA	474	A	N9-C4	-12.46	1.30	1.37
34	BA	1652	G	C1'-N9	-12.46	1.29	1.46
34	BA	93	A	N9-C4	-12.45	1.30	1.37
85	AA	450	A	N9-C4	-12.45	1.30	1.37
85	AA	1235	G	P-O5'	-12.45	1.47	1.59
40	BG	16	G	C2'-C1'	-12.44	1.39	1.53
34	BA	138	C	O3'-P	-12.44	1.46	1.61
35	BB	824	C	P-O5'	-12.44	1.47	1.59
36	BC	3	C	P-O5'	-12.44	1.47	1.59
85	AA	450	A	P-O5'	-12.44	1.47	1.59
34	BA	1656	A	P-O5'	-12.44	1.47	1.59
35	BB	17	U	P-O5'	-12.44	1.47	1.59
85	AA	519	A	N9-C4	-12.44	1.30	1.37
85	AA	99	U	C2'-C1'	-12.43	1.39	1.53
40	BG	123	C	P-O5'	-12.43	1.47	1.59
85	AA	591	A	N9-C4	-12.43	1.30	1.37
34	BA	618	G	P-O5'	-12.43	1.47	1.59
34	BA	988	U	P-O5'	-12.43	1.47	1.59
41	BH	33	G	C2'-C1'	-12.42	1.39	1.53
85	AA	455	G	O3'-P	-12.42	1.46	1.61
35	BB	18	A	N9-C4	-12.42	1.30	1.37
34	BA	1065	U	O3'-P	-12.42	1.46	1.61
34	BA	1095	G	P-O5'	-12.42	1.47	1.59
36	BC	164	G	O3'-P	-12.42	1.46	1.61
38	BE	111	C	O3'-P	-12.41	1.46	1.61
35	BB	649	A	O3'-P	-12.41	1.46	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	238	C	P-O5'	-12.40	1.47	1.59
34	BA	97	A	N7-C5	-12.40	1.31	1.39
34	BA	1429	A	P-O5'	-12.40	1.47	1.59
36	BC	54	G	N9-C4	-12.40	1.28	1.38
40	BG	33	G	C1'-N9	-12.40	1.29	1.46
85	AA	364	C	P-O5'	-12.39	1.47	1.59
85	AA	1516	A	C1'-N9	-12.38	1.29	1.46
35	BB	452	A	P-O5'	-12.37	1.47	1.59
85	AA	76	G	P-O5'	-12.38	1.47	1.59
34	BA	615	A	N9-C4	-12.37	1.30	1.37
34	BA	732	A	N9-C4	-12.37	1.30	1.37
34	BA	1192	A	O3'-P	-12.37	1.46	1.61
34	BA	4	A	O3'-P	-12.37	1.46	1.61
34	BA	1543	A	N9-C4	-12.37	1.30	1.37
85	AA	2179	C	P-O5'	-12.37	1.47	1.59
38	BE	185	G	P-O5'	-12.36	1.47	1.59
85	AA	2008	G	N9-C4	-12.36	1.28	1.38
34	BA	423	G	N9-C4	-12.36	1.28	1.38
35	BB	1026	G	C2'-C1'	-12.36	1.39	1.53
34	BA	1806	A	N9-C4	-12.36	1.30	1.37
85	AA	456	A	C1'-N9	-12.35	1.29	1.46
35	BB	40	C	P-O5'	-12.35	1.47	1.59
85	AA	929	G	P-O5'	-12.35	1.47	1.59
34	BA	426	A	N9-C4	-12.35	1.30	1.37
85	AA	1484	G	O3'-P	-12.35	1.46	1.61
35	BB	386	G	P-O5'	-12.35	1.47	1.59
41	BH	112	U	O3'-P	-12.35	1.46	1.61
34	BA	142	A	O3'-P	-12.34	1.46	1.61
34	BA	234	A	P-O5'	-12.34	1.47	1.59
35	BB	1138	A	C2'-C1'	-12.34	1.39	1.53
40	BG	182	G	N7-C5	-12.34	1.31	1.39
85	AA	1099	U	P-O5'	-12.34	1.47	1.59
34	BA	136	A	P-O5'	-12.34	1.47	1.59
34	BA	20	A	N9-C4	-12.34	1.30	1.37
85	AA	899	A	C2'-C1'	-12.34	1.39	1.53
34	BA	185	A	P-O5'	-12.33	1.47	1.59
34	BA	457	A	N9-C4	-12.33	1.30	1.37
34	BA	609	G	P-O5'	-12.33	1.47	1.59
34	BA	547	C	C3'-O3'	12.33	1.59	1.42
35	BB	1127	A	N9-C4	-12.33	1.30	1.37
36	BC	37	U	O3'-P	-12.33	1.46	1.61
38	BE	27	A	P-O5'	-12.33	1.47	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	132	G	P-O5'	-12.32	1.47	1.59
85	AA	976	G	P-O5'	-12.32	1.47	1.59
35	BB	1169	A	P-O5'	-12.31	1.47	1.59
34	BA	765	U	C5'-C4'	12.31	1.66	1.51
34	BA	1211	G	N9-C4	-12.31	1.28	1.38
39	BF	35	C	P-O5'	-12.31	1.47	1.59
85	AA	400	G	N9-C4	-12.31	1.28	1.38
35	BB	653	G	P-O5'	-12.30	1.47	1.59
35	BB	1401	G	N9-C4	-12.30	1.28	1.38
41	BH	109	G	C2'-C1'	-12.30	1.39	1.53
85	AA	1439	A	P-O5'	-12.30	1.47	1.59
85	AA	1519	A	N9-C4	-12.30	1.30	1.37
85	AA	694	A	O3'-P	-12.30	1.46	1.61
40	BG	27	C	P-O5'	-12.29	1.47	1.59
85	AA	313	A	C1'-N9	-12.29	1.29	1.46
85	AA	373	G	C2'-C1'	-12.29	1.39	1.53
35	BB	606	C	P-O5'	-12.29	1.47	1.59
35	BB	676	G	P-O5'	-12.28	1.47	1.59
85	AA	392	G	P-O5'	-12.28	1.47	1.59
35	BB	1138	A	O3'-P	-12.28	1.46	1.61
85	AA	2075	C	C2'-C1'	-12.28	1.39	1.53
34	BA	17	A	P-O5'	-12.28	1.47	1.59
34	BA	1548	A	O3'-P	-12.28	1.46	1.61
35	BB	1430	G	O3'-P	-12.28	1.46	1.61
35	BB	446	U	O3'-P	-12.27	1.46	1.61
85	AA	1225	C	P-O5'	-12.27	1.47	1.59
85	AA	426	C	C2-N3	-12.27	1.25	1.35
85	AA	43	A	N9-C4	-12.27	1.30	1.37
34	BA	387	A	P-O5'	-12.27	1.47	1.59
40	BG	55	A	N9-C4	-12.27	1.30	1.37
36	BC	58	G	P-O5'	-12.26	1.47	1.59
40	BG	149	U	C1'-N1	-12.26	1.29	1.46
34	BA	408	U	P-O5'	-12.26	1.47	1.59
34	BA	1110	A	O3'-P	-12.26	1.46	1.61
34	BA	540	G	P-O5'	-12.25	1.47	1.59
35	BB	22	A	N9-C4	-12.24	1.30	1.37
34	BA	473	A	O3'-P	-12.24	1.46	1.61
37	BD	108	G	P-O5'	-12.24	1.47	1.59
34	BA	1265	G	P-O5'	-12.24	1.47	1.59
36	BC	154	A	C2'-C1'	-12.24	1.39	1.53
38	BE	31	A	N9-C4	-12.24	1.30	1.37
85	AA	112	A	O3'-P	-12.24	1.46	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	542	A	N9-C4	-12.24	1.30	1.37
85	AA	2036	A	N7-C5	-12.24	1.31	1.39
85	AA	1856	G	P-O5'	-12.23	1.47	1.59
34	BA	804	G	N7-C5	-12.23	1.31	1.39
34	BA	1006	G	P-O5'	-12.23	1.47	1.59
34	BA	184	C	P-O5'	-12.22	1.47	1.59
34	BA	463	A	N9-C4	-12.22	1.30	1.37
85	AA	1107	A	P-O5'	-12.22	1.47	1.59
34	BA	1041	U	P-O5'	-12.22	1.47	1.59
35	BB	479	U	P-O5'	-12.22	1.47	1.59
85	AA	1490	A	O3'-P	-12.22	1.46	1.61
35	BB	83	G	P-O5'	-12.22	1.47	1.59
85	AA	1561	A	N9-C4	-12.21	1.30	1.37
34	BA	381	A	O3'-P	-12.21	1.46	1.61
38	BE	146	U	C2-N3	-12.21	1.29	1.37
34	BA	1058	C	O3'-P	-12.20	1.46	1.61
34	BA	1328	U	C2'-C1'	-12.20	1.40	1.53
34	BA	1737	A	P-O5'	-12.20	1.47	1.59
85	AA	2133	A	O3'-P	-12.20	1.46	1.61
38	BE	108	U	C2'-C1'	-12.19	1.40	1.53
35	BB	1052	G	N9-C4	-12.19	1.28	1.38
37	BD	33	U	O3'-P	-12.18	1.46	1.61
34	BA	395	G	C1'-N9	-12.18	1.29	1.46
35	BB	637	G	O3'-P	-12.18	1.46	1.61
85	AA	657	C	P-O5'	-12.17	1.47	1.59
34	BA	461	A	N9-C4	-12.17	1.30	1.37
38	BE	140	G	P-O5'	-12.17	1.47	1.59
85	AA	264	A	P-O5'	-12.16	1.47	1.59
35	BB	1542	C	P-O5'	-12.16	1.47	1.59
35	BB	398	A	P-O5'	-12.16	1.47	1.59
85	AA	723	U	P-O5'	-12.16	1.47	1.59
34	BA	611	A	O3'-P	-12.15	1.46	1.61
35	BB	667	G	P-O5'	-12.15	1.47	1.59
36	BC	10	C	C2'-C1'	-12.15	1.40	1.53
40	BG	141	A	N9-C4	-12.15	1.30	1.37
36	BC	94	C	O3'-P	-12.14	1.46	1.61
37	BD	4	U	C2-N3	-12.14	1.29	1.37
85	AA	466	A	N9-C4	-12.14	1.30	1.37
34	BA	1618	A	P-O5'	-12.14	1.47	1.59
35	BB	1449	G	N9-C4	-12.14	1.28	1.38
34	BA	1699	A	C2'-C1'	-12.14	1.40	1.53
85	AA	1978	G	N9-C4	-12.14	1.28	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	466	A	C6-N6	12.14	1.43	1.33
85	AA	936	C	O3'-P	-12.13	1.46	1.61
35	BB	101	U	O3'-P	-12.13	1.46	1.61
85	AA	432	A	P-O5'	-12.13	1.47	1.59
34	BA	206	C	C4'-C3'	12.12	1.66	1.53
41	BH	3	U	O3'-P	-12.13	1.46	1.61
85	AA	2181	G	P-O5'	-12.12	1.47	1.59
34	BA	615	A	P-O5'	-12.12	1.47	1.59
36	BC	107	C	C2'-C1'	-12.12	1.40	1.53
85	AA	1521	U	O3'-P	-12.12	1.46	1.61
35	BB	1235	A	N9-C4	-12.11	1.30	1.37
38	BE	5	A	N9-C4	-12.11	1.30	1.37
35	BB	127	U	P-O5'	-12.11	1.47	1.59
35	BB	700	C	P-O5'	-12.11	1.47	1.59
35	BB	1342	C	C4'-C3'	-12.11	1.39	1.53
41	BH	119	U	P-O5'	-12.11	1.47	1.59
36	BC	141	C	O3'-P	-12.11	1.46	1.61
85	AA	385	A	O3'-P	-12.11	1.46	1.61
34	BA	449	G	P-O5'	-12.10	1.47	1.59
41	BH	4	U	P-O5'	-12.10	1.47	1.59
36	BC	135	A	P-O5'	-12.10	1.47	1.59
34	BA	1669	C	P-O5'	-12.09	1.47	1.59
35	BB	14	C	O3'-P	-12.08	1.46	1.61
85	AA	1676	G	P-O5'	-12.08	1.47	1.59
85	AA	2084	U	P-O5'	-12.08	1.47	1.59
85	AA	2148	C	P-O5'	-12.08	1.47	1.59
85	AA	535	G	P-O5'	-12.08	1.47	1.59
34	BA	420	A	N9-C4	-12.07	1.30	1.37
34	BA	947	A	N9-C4	-12.07	1.30	1.37
35	BB	1264	U	P-O5'	-12.07	1.47	1.59
36	BC	53	A	O3'-P	-12.07	1.46	1.61
85	AA	2070	C	P-O5'	-12.06	1.47	1.59
85	AA	811	A	P-O5'	-12.06	1.47	1.59
85	AA	412	G	P-O5'	-12.06	1.47	1.59
85	AA	366	A	P-O5'	-12.05	1.47	1.59
35	BB	1180	G	P-O5'	-12.05	1.47	1.59
34	BA	186	G	P-O5'	-12.05	1.47	1.59
40	BG	8	U	P-O5'	-12.05	1.47	1.59
35	BB	61	A	O3'-P	-12.04	1.46	1.61
85	AA	2185	U	P-O5'	-12.04	1.47	1.59
34	BA	272	A	N9-C4	-12.04	1.30	1.37
37	BD	109	U	P-O5'	-12.04	1.47	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	180	G	N9-C4	-12.03	1.28	1.38
35	BB	451	A	O3'-P	-12.03	1.46	1.61
34	BA	531	C	O3'-P	-12.03	1.46	1.61
34	BA	1215	U	P-O5'	-12.03	1.47	1.59
34	BA	598	G	P-O5'	-12.03	1.47	1.59
35	BB	1079	G	P-O5'	-12.02	1.47	1.59
34	BA	1641	G	C3'-C2'	-12.02	1.39	1.52
85	AA	1157	U	O3'-P	-12.02	1.46	1.61
34	BA	82	A	C1'-N9	-12.01	1.30	1.46
34	BA	1215	U	C2-N3	-12.01	1.29	1.37
85	AA	641	A	P-O5'	-12.01	1.47	1.59
35	BB	1312	U	C2-N3	-12.01	1.29	1.37
35	BB	1435	G	N9-C4	-12.01	1.28	1.38
86	AB	66	U	P-O5'	-12.01	1.47	1.59
85	AA	889	G	N7-C5	-12.00	1.32	1.39
41	BH	36	C	O3'-P	-12.00	1.46	1.61
34	BA	923	C	O3'-P	-11.99	1.46	1.61
34	BA	337	C	P-O5'	-11.99	1.47	1.59
34	BA	473	A	P-O5'	-11.99	1.47	1.59
34	BA	524	G	C6-N1	-11.99	1.31	1.39
34	BA	265	A	P-O5'	-11.99	1.47	1.59
34	BA	1555	G	O3'-P	-11.99	1.46	1.61
36	BC	26	U	O3'-P	-11.99	1.46	1.61
85	AA	1106	A	P-O5'	-11.99	1.47	1.59
85	AA	2102	A	N9-C4	-11.98	1.30	1.37
35	BB	1218	G	C2'-C1'	-11.98	1.40	1.53
85	AA	938	A	N7-C5	-11.98	1.32	1.39
34	BA	1286	C	O3'-P	-11.97	1.46	1.61
37	BD	24	U	P-O5'	-11.97	1.47	1.59
35	BB	648	G	C6-N1	-11.97	1.31	1.39
38	BE	108	U	O3'-P	-11.97	1.46	1.61
34	BA	326	A	O3'-P	-11.96	1.46	1.61
34	BA	1239	G	O3'-P	-11.96	1.46	1.61
35	BB	1440	A	O3'-P	-11.96	1.46	1.61
34	BA	537	C	P-O5'	-11.95	1.47	1.59
40	BG	8	U	C2-N3	-11.95	1.29	1.37
34	BA	1069	U	C3'-C2'	-11.94	1.39	1.52
38	BE	166	G	P-O5'	-11.94	1.47	1.59
34	BA	856	G	C2'-C1'	-11.94	1.40	1.53
34	BA	1016	A	N9-C4	-11.94	1.30	1.37
34	BA	91	C	O3'-P	-11.93	1.46	1.61
85	AA	983	A	N9-C4	-11.93	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	805	A	P-O5'	-11.93	1.47	1.59
85	AA	283	A	N9-C4	-11.93	1.30	1.37
34	BA	1268	C	P-O5'	-11.93	1.47	1.59
85	AA	249	C	P-O5'	-11.93	1.47	1.59
34	BA	662	U	P-O5'	-11.92	1.47	1.59
34	BA	800	G	O4'-C1'	-11.92	1.26	1.41
34	BA	1232	C	P-O5'	-11.92	1.47	1.59
35	BB	630	A	C4'-C3'	-11.92	1.40	1.53
85	AA	201	U	P-O5'	-11.92	1.47	1.59
85	AA	2147	A	N7-C5	-11.92	1.32	1.39
85	AA	2147	A	O3'-P	-11.91	1.46	1.61
38	BE	132	U	P-O5'	-11.91	1.47	1.59
39	BF	12	U	P-O5'	-11.91	1.47	1.59
34	BA	22	C	P-O5'	-11.90	1.47	1.59
34	BA	440	A	O3'-P	-11.90	1.46	1.61
85	AA	866	U	C2'-C1'	-11.90	1.40	1.53
34	BA	48	C	O3'-P	-11.90	1.46	1.61
38	BE	14	C	P-O5'	-11.90	1.47	1.59
40	BG	112	C	P-O5'	-11.90	1.47	1.59
36	BC	3	C	C2'-C1'	-11.89	1.40	1.53
34	BA	1223	C	P-O5'	-11.89	1.47	1.59
85	AA	1829	C	P-O5'	-11.89	1.47	1.59
36	BC	79	A	N9-C4	-11.89	1.30	1.37
34	BA	513	U	C2-N3	-11.89	1.29	1.37
34	BA	504	A	P-O5'	-11.88	1.47	1.59
34	BA	1335	A	P-O5'	-11.88	1.47	1.59
85	AA	731	U	O3'-P	-11.88	1.46	1.61
34	BA	953	G	P-O5'	-11.88	1.47	1.59
85	AA	407	G	P-O5'	-11.88	1.47	1.59
34	BA	1276	G	P-O5'	-11.88	1.47	1.59
34	BA	958	G	P-O5'	-11.87	1.47	1.59
34	BA	1275	G	P-O5'	-11.87	1.47	1.59
34	BA	1291	A	N9-C4	-11.87	1.30	1.37
85	AA	438	G	P-O5'	-11.87	1.47	1.59
85	AA	1455	C	C2'-C1'	-11.87	1.40	1.53
34	BA	382	G	C6-N1	-11.87	1.31	1.39
34	BA	301	U	C2'-C1'	-11.86	1.40	1.53
85	AA	1518	A	N9-C4	-11.86	1.30	1.37
85	AA	1541	G	P-O5'	-11.86	1.47	1.59
34	BA	1583	A	N9-C4	-11.85	1.30	1.37
36	BC	120	G	N9-C4	-11.85	1.28	1.38
85	AA	515	C	O3'-P	-11.85	1.47	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2130	G	O3'-P	-11.85	1.47	1.61
34	BA	1591	G	C1'-N9	-11.85	1.30	1.46
35	BB	1498	G	N9-C4	-11.85	1.28	1.38
85	AA	1227	A	P-O5'	-11.85	1.48	1.59
34	BA	609	G	C2'-C1'	-11.84	1.40	1.53
34	BA	979	G	O3'-P	-11.84	1.47	1.61
85	AA	936	C	P-O5'	-11.84	1.48	1.59
34	BA	1844	U	P-O5'	-11.84	1.48	1.59
35	BB	59	U	C2-N3	-11.84	1.29	1.37
85	AA	374	C	P-O5'	-11.84	1.48	1.59
34	BA	340	U	P-O5'	-11.84	1.48	1.59
85	AA	299	A	P-O5'	-11.84	1.48	1.59
34	BA	504	A	N9-C4	-11.83	1.30	1.37
34	BA	762	A	P-O5'	-11.83	1.48	1.59
34	BA	2	A	P-O5'	-11.83	1.48	1.59
34	BA	667	U	P-O5'	-11.83	1.48	1.59
34	BA	1641	G	O3'-P	-11.83	1.47	1.61
35	BB	990	G	O3'-P	-11.83	1.47	1.61
34	BA	355	U	P-O5'	-11.82	1.48	1.59
35	BB	805	G	C4'-C3'	-11.82	1.40	1.53
85	AA	1471	G	C5-C6	-11.82	1.30	1.42
85	AA	1661	U	P-O5'	-11.82	1.48	1.59
35	BB	572	G	N7-C5	-11.81	1.32	1.39
85	AA	695	A	N9-C4	-11.81	1.30	1.37
85	AA	2137	A	N9-C4	-11.81	1.30	1.37
34	BA	985	C	O3'-P	-11.81	1.47	1.61
34	BA	1190	A	P-O5'	-11.81	1.48	1.59
34	BA	1220	C	P-O5'	-11.81	1.48	1.59
85	AA	822	U	P-O5'	-11.81	1.48	1.59
35	BB	499	A	N9-C4	-11.80	1.30	1.37
85	AA	902	A	N9-C4	-11.80	1.30	1.37
85	AA	1674	G	N9-C4	-11.81	1.28	1.38
40	BG	95	U	C1'-N1	-11.80	1.30	1.46
38	BE	20	C	C2'-C1'	-11.80	1.40	1.53
38	BE	61	A	P-O5'	-11.80	1.48	1.59
85	AA	2203	C	C2'-C1'	-11.80	1.40	1.53
35	BB	1246	C	O3'-P	-11.79	1.47	1.61
35	BB	1546	C	P-O5'	-11.79	1.48	1.59
34	BA	687	G	O3'-P	-11.79	1.47	1.61
85	AA	397	G	O3'-P	-11.79	1.47	1.61
85	AA	879	G	C2'-C1'	-11.79	1.40	1.53
34	BA	16	C	P-O5'	-11.79	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	758	G	N9-C8	-11.78	1.29	1.37
34	BA	838	U	P-O5'	-11.78	1.48	1.59
85	AA	1191	G	P-O5'	-11.78	1.48	1.59
34	BA	856	G	O3'-P	-11.78	1.47	1.61
34	BA	1720	U	P-O5'	-11.78	1.48	1.59
41	BH	35	G	P-O5'	-11.78	1.48	1.59
41	BH	133	U	P-O5'	-11.78	1.48	1.59
40	BG	88	G	O3'-P	-11.77	1.47	1.61
35	BB	1172	U	O3'-P	-11.77	1.47	1.61
85	AA	99	U	O3'-P	-11.77	1.47	1.61
85	AA	1224	C	O3'-P	-11.77	1.47	1.61
34	BA	162	G	N9-C4	-11.77	1.28	1.38
85	AA	927	A	N9-C4	11.77	1.45	1.37
85	AA	991	G	N9-C8	-11.77	1.29	1.37
38	BE	190	U	O3'-P	-11.76	1.47	1.61
85	AA	684	G	P-O5'	-11.76	1.48	1.59
41	BH	126	C	O3'-P	-11.76	1.47	1.61
34	BA	1604	A	O3'-P	-11.76	1.47	1.61
34	BA	333	A	N9-C4	-11.76	1.30	1.37
34	BA	1223	C	O3'-P	-11.76	1.47	1.61
34	BA	449	G	O3'-P	-11.76	1.47	1.61
35	BB	370	A	P-O5'	-11.75	1.48	1.59
35	BB	1019	C	P-O5'	-11.75	1.48	1.59
35	BB	440	U	P-O5'	-11.75	1.48	1.59
35	BB	1227	G	O3'-P	-11.75	1.47	1.61
34	BA	1177	C	C2'-C1'	-11.75	1.40	1.53
85	AA	2174	G	C2'-C1'	-11.75	1.40	1.53
35	BB	1314	G	O3'-P	-11.74	1.47	1.61
34	BA	1282	G	O3'-P	-11.74	1.47	1.61
40	BG	118	U	C2-N3	-11.74	1.29	1.37
34	BA	938	C	C3'-C2'	-11.74	1.39	1.52
40	BG	23	C	P-O5'	-11.74	1.48	1.59
34	BA	1661	U	O3'-P	-11.74	1.47	1.61
35	BB	409	U	P-O5'	-11.74	1.48	1.59
35	BB	1243	A	O3'-P	-11.73	1.47	1.61
85	AA	464	A	N7-C5	-11.73	1.32	1.39
35	BB	777	C	P-O5'	-11.73	1.48	1.59
35	BB	1103	A	O3'-P	-11.72	1.47	1.61
85	AA	1182	A	C2'-C1'	-11.72	1.40	1.53
41	BH	44	A	N7-C5	-11.72	1.32	1.39
40	BG	70	C	P-O5'	-11.72	1.48	1.59
85	AA	83	U	P-O5'	-11.72	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2125	A	O3'-P	-11.72	1.47	1.61
85	AA	1219	A	N7-C5	-11.72	1.32	1.39
34	BA	909	G	O3'-P	-11.71	1.47	1.61
39	BF	38	C	P-O5'	-11.71	1.48	1.59
40	BG	23	C	O3'-P	-11.71	1.47	1.61
85	AA	809	A	P-O5'	-11.71	1.48	1.59
34	BA	108	A	N9-C4	-11.71	1.30	1.37
35	BB	1367	U	P-O5'	-11.70	1.48	1.59
85	AA	1976	G	P-O5'	-11.70	1.48	1.59
34	BA	382	G	P-O5'	-11.70	1.48	1.59
34	BA	1003	A	C3'-C2'	-11.70	1.39	1.52
85	AA	189	G	P-O5'	-11.70	1.48	1.59
35	BB	1183	U	O3'-P	-11.70	1.47	1.61
85	AA	868	A	P-O5'	-11.70	1.48	1.59
41	BH	105	U	P-O5'	-11.69	1.48	1.59
34	BA	824	C	P-O5'	-11.69	1.48	1.59
85	AA	1510	A	N9-C4	-11.69	1.30	1.37
34	BA	651	U	C2'-C1'	-11.68	1.40	1.53
34	BA	1796	A	C1'-N9	-11.68	1.30	1.46
38	BE	113	C	P-O5'	-11.68	1.48	1.59
38	BE	148	C	P-O5'	-11.68	1.48	1.59
41	BH	113	G	N9-C4	-11.68	1.28	1.38
39	BF	39	C	O3'-P	-11.67	1.47	1.61
85	AA	1228	A	C2'-C1'	-11.67	1.40	1.53
85	AA	1549	G	N9-C4	-11.67	1.28	1.38
34	BA	1341	A	N9-C4	-11.67	1.30	1.37
85	AA	2029	G	P-O5'	-11.67	1.48	1.59
34	BA	400	A	P-O5'	-11.67	1.48	1.59
34	BA	1002	U	C3'-C2'	-11.67	1.40	1.52
38	BE	16	C	C5'-C4'	11.67	1.65	1.51
34	BA	201	A	O3'-P	-11.66	1.47	1.61
34	BA	979	G	N9-C4	-11.66	1.28	1.38
34	BA	1424	G	P-O5'	-11.66	1.48	1.59
85	AA	472	A	P-O5'	-11.66	1.48	1.59
37	BD	48	G	N9-C4	-11.66	1.28	1.38
85	AA	1283	C	C2-N3	-11.66	1.26	1.35
34	BA	93	A	P-O5'	-11.65	1.48	1.59
34	BA	1465	C	O3'-P	-11.65	1.47	1.61
35	BB	1528	U	P-O5'	-11.65	1.48	1.59
41	BH	124	C	O3'-P	-11.65	1.47	1.61
85	AA	2149	C	C2'-C1'	-11.65	1.40	1.53
85	AA	2227	A	N9-C4	-11.65	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	649	A	P-O5'	-11.65	1.48	1.59
36	BC	43	A	C3'-C2'	-11.65	1.40	1.52
37	BD	73	U	P-O5'	-11.65	1.48	1.59
85	AA	2123	U	P-O5'	-11.65	1.48	1.59
35	BB	1180	G	O3'-P	-11.64	1.47	1.61
36	BC	67	U	P-O5'	-11.64	1.48	1.59
85	AA	488	G	P-O5'	-11.64	1.48	1.59
34	BA	53	G	O3'-P	-11.64	1.47	1.61
34	BA	1732	A	N9-C4	11.64	1.44	1.37
34	BA	484	A	P-O5'	-11.64	1.48	1.59
34	BA	471	U	P-O5'	-11.64	1.48	1.59
35	BB	387	G	N9-C8	-11.64	1.29	1.37
85	AA	2199	G	C2'-C1'	-11.63	1.40	1.53
34	BA	1002	U	P-O5'	-11.63	1.48	1.59
35	BB	615	A	N9-C4	-11.63	1.30	1.37
37	BD	77	A	N9-C4	-11.63	1.30	1.37
41	BH	17	A	P-O5'	-11.63	1.48	1.59
85	AA	605	A	N7-C5	-11.63	1.32	1.39
85	AA	712	U	P-O5'	-11.63	1.48	1.59
34	BA	350	C	O3'-P	-11.62	1.47	1.61
35	BB	1463	A	N9-C4	11.62	1.44	1.37
85	AA	393	C	O3'-P	-11.62	1.47	1.61
34	BA	734	G	P-O5'	-11.62	1.48	1.59
34	BA	896	U	C2'-C1'	11.62	1.66	1.53
34	BA	942	G	P-O5'	-11.61	1.48	1.59
35	BB	1490	G	C2'-C1'	-11.61	1.40	1.53
34	BA	782	C	C2'-C1'	-11.61	1.40	1.53
85	AA	106	G	P-O5'	-11.61	1.48	1.59
35	BB	1075	A	N9-C4	-11.61	1.30	1.37
41	BH	41	A	N9-C4	-11.61	1.30	1.37
85	AA	763	U	C2-N3	-11.61	1.29	1.37
85	AA	1540	A	P-O5'	-11.61	1.48	1.59
34	BA	31	A	N9-C4	-11.60	1.30	1.37
40	BG	27	C	O3'-P	-11.60	1.47	1.61
41	BH	33	G	P-O5'	-11.60	1.48	1.59
85	AA	601	A	O3'-P	-11.60	1.47	1.61
34	BA	89	G	P-O5'	-11.59	1.48	1.59
35	BB	1048	A	N9-C4	-11.59	1.30	1.37
85	AA	383	C	P-O5'	-11.59	1.48	1.59
34	BA	1100	A	P-O5'	-11.59	1.48	1.59
34	BA	1193	A	O3'-P	-11.59	1.47	1.61
35	BB	818	U	P-O5'	-11.59	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	115	A	P-O5'	-11.59	1.48	1.59
40	BG	95	U	C2-N3	-11.59	1.29	1.37
36	BC	78	G	O3'-P	-11.58	1.47	1.61
36	BC	92	C	P-O5'	-11.58	1.48	1.59
34	BA	954	U	P-O5'	-11.58	1.48	1.59
85	AA	630	A	N9-C4	-11.58	1.30	1.37
35	BB	1348	C	O3'-P	-11.58	1.47	1.61
85	AA	1531	G	P-O5'	-11.58	1.48	1.59
34	BA	877	U	C2-N3	-11.57	1.29	1.37
37	BD	68	C	P-O5'	-11.57	1.48	1.59
34	BA	737	U	O3'-P	-11.57	1.47	1.61
36	BC	2	A	N9-C4	-11.57	1.30	1.37
38	BE	200	A	N9-C4	-11.57	1.30	1.37
34	BA	1430	C	O3'-P	-11.57	1.47	1.61
34	BA	1809	G	O3'-P	-11.57	1.47	1.61
34	BA	1697	U	C2-N3	11.56	1.45	1.37
35	BB	1413	U	P-O5'	-11.56	1.48	1.59
40	BG	78	C	O3'-P	-11.56	1.47	1.61
85	AA	605	A	N9-C4	-11.56	1.30	1.37
85	AA	436	G	P-O5'	-11.56	1.48	1.59
38	BE	128	G	O3'-P	-11.56	1.47	1.61
34	BA	850	C	P-O5'	-11.55	1.48	1.59
85	AA	244	G	P-O5'	-11.56	1.48	1.59
34	BA	984	U	C2-N3	-11.55	1.29	1.37
35	BB	1461	C	C2'-C1'	-11.55	1.40	1.53
85	AA	270	A	P-O5'	-11.55	1.48	1.59
35	BB	644	A	N9-C4	-11.54	1.30	1.37
34	BA	297	A	C4'-C3'	-11.54	1.40	1.53
34	BA	1159	A	P-O5'	-11.54	1.48	1.59
34	BA	1321	A	C2'-C1'	-11.54	1.40	1.53
34	BA	720	A	O3'-P	-11.53	1.47	1.61
85	AA	2105	G	P-O5'	-11.54	1.48	1.59
35	BB	798	A	C2'-C1'	-11.53	1.40	1.53
85	AA	455	G	P-O5'	-11.53	1.48	1.59
35	BB	1242	C	P-O5'	-11.53	1.48	1.59
35	BB	824	C	C2'-C1'	-11.53	1.40	1.53
35	BB	1232	A	P-O5'	-11.52	1.48	1.59
34	BA	912	G	O3'-P	-11.52	1.47	1.61
38	BE	28	C	P-O5'	-11.52	1.48	1.59
34	BA	86	A	P-O5'	-11.52	1.48	1.59
34	BA	810	A	P-O5'	-11.52	1.48	1.59
34	BA	918	U	P-O5'	-11.52	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	482	A	N9-C4	-11.52	1.30	1.37
34	BA	35	U	P-O5'	-11.51	1.48	1.59
34	BA	125	G	P-O5'	-11.51	1.48	1.59
35	BB	1360	A	N9-C4	-11.51	1.30	1.37
34	BA	1549	U	P-O5'	-11.51	1.48	1.59
35	BB	5	A	N7-C5	-11.51	1.32	1.39
34	BA	899	G	O3'-P	-11.51	1.47	1.61
35	BB	1421	C	P-O5'	-11.51	1.48	1.59
37	BD	77	A	C1'-N9	-11.51	1.30	1.46
34	BA	545	U	P-O5'	-11.50	1.48	1.59
85	AA	1676	G	O3'-P	-11.50	1.47	1.61
34	BA	556	A	O3'-P	-11.50	1.47	1.61
34	BA	1322	A	O3'-P	-11.50	1.47	1.61
37	BD	84	U	P-O5'	-11.50	1.48	1.59
85	AA	2228	G	P-O5'	-11.50	1.48	1.59
34	BA	1722	U	P-O5'	-11.50	1.48	1.59
35	BB	1368	A	N9-C4	-11.50	1.30	1.37
41	BH	31	A	C1'-N9	-11.50	1.30	1.46
35	BB	970	C	O3'-P	-11.49	1.47	1.61
36	BC	101	U	C2'-C1'	-11.49	1.40	1.53
85	AA	24	U	P-O5'	-11.49	1.48	1.59
85	AA	436	G	N9-C4	-11.49	1.28	1.38
85	AA	541	A	P-O5'	-11.49	1.48	1.59
34	BA	1709	A	C3'-C2'	-11.49	1.40	1.52
34	BA	44	U	P-O5'	-11.49	1.48	1.59
39	BF	65	U	P-O5'	-11.49	1.48	1.59
35	BB	1415	G	C6-N1	-11.48	1.31	1.39
38	BE	39	U	P-O5'	-11.48	1.48	1.59
35	BB	440	U	C3'-C2'	-11.48	1.40	1.52
35	BB	1293	C	P-O5'	-11.48	1.48	1.59
85	AA	210	G	C2'-C1'	-11.48	1.40	1.53
34	BA	717	U	P-O5'	-11.48	1.48	1.59
34	BA	1099	U	O3'-P	-11.48	1.47	1.61
38	BE	129	G	C6-N1	-11.48	1.31	1.39
35	BB	1199	A	N9-C4	-11.47	1.30	1.37
40	BG	69	G	O3'-P	-11.47	1.47	1.61
85	AA	521	A	C2'-C1'	-11.47	1.40	1.53
85	AA	2075	C	N1-C6	-11.47	1.30	1.37
85	AA	922	A	O3'-P	-11.46	1.47	1.61
34	BA	587	U	O3'-P	-11.46	1.47	1.61
34	BA	1050	A	N9-C4	-11.46	1.30	1.37
85	AA	1470	A	N9-C4	-11.46	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1631	U	C4'-C3'	11.46	1.65	1.53
34	BA	1190	A	C2'-C1'	-11.46	1.40	1.53
34	BA	1556	A	O3'-P	-11.45	1.47	1.61
38	BE	141	A	P-O5'	-11.45	1.48	1.59
36	BC	162	C	P-O5'	-11.45	1.48	1.59
85	AA	1481	U	P-O5'	-11.45	1.48	1.59
34	BA	1076	U	C2-N3	-11.44	1.29	1.37
37	BD	82	G	O3'-P	-11.45	1.47	1.61
34	BA	10	G	C3'-C2'	-11.44	1.40	1.52
34	BA	1027	C	O3'-P	-11.44	1.47	1.61
34	BA	1693	U	O3'-P	-11.44	1.47	1.61
35	BB	1398	A	N9-C4	-11.44	1.30	1.37
34	BA	1144	A	P-O5'	-11.44	1.48	1.59
34	BA	1529	G	C6-N1	-11.43	1.31	1.39
34	BA	1688	G	P-O5'	-11.43	1.48	1.59
34	BA	1256	A	N9-C4	-11.42	1.30	1.37
34	BA	1259	C	O3'-P	-11.42	1.47	1.61
85	AA	808	A	O3'-P	-11.42	1.47	1.61
85	AA	1357	U	P-O5'	-11.42	1.48	1.59
41	BH	54	U	P-O5'	-11.42	1.48	1.59
85	AA	1499	G	O3'-P	-11.42	1.47	1.61
35	BB	368	C	O3'-P	-11.41	1.47	1.61
38	BE	200	A	C2'-C1'	-11.41	1.40	1.53
85	AA	469	G	N3-C4	-11.41	1.27	1.35
85	AA	1182	A	P-O5'	-11.41	1.48	1.59
34	BA	907	A	O3'-P	-11.41	1.47	1.61
34	BA	986	G	P-O5'	-11.41	1.48	1.59
85	AA	314	C	P-O5'	-11.41	1.48	1.59
85	AA	370	A	P-O5'	-11.41	1.48	1.59
85	AA	441	C	O3'-P	-11.41	1.47	1.61
85	AA	918	U	O3'-P	-11.41	1.47	1.61
34	BA	1322	A	C2'-C1'	-11.40	1.40	1.53
85	AA	119	G	C2'-C1'	-11.40	1.40	1.53
34	BA	900	A	N7-C5	-11.40	1.32	1.39
40	BG	105	A	N9-C4	-11.40	1.31	1.37
35	BB	411	A	N9-C4	-11.40	1.31	1.37
35	BB	818	U	C2-N3	-11.40	1.29	1.37
37	BD	95	G	C6-N1	-11.40	1.31	1.39
34	BA	1028	A	N9-C4	-11.39	1.31	1.37
35	BB	814	A	P-O5'	-11.39	1.48	1.59
38	BE	46	G	P-O5'	-11.39	1.48	1.59
35	BB	1226	G	C1'-N9	-11.39	1.30	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1412	G	O3'-P	-11.39	1.47	1.61
36	BC	168	C	P-O5'	-11.39	1.48	1.59
34	BA	837	U	O3'-P	-11.39	1.47	1.61
85	AA	545	A	P-O5'	-11.39	1.48	1.59
34	BA	606	G	P-O5'	-11.38	1.48	1.59
35	BB	1028	C	O3'-P	-11.38	1.47	1.61
35	BB	1312	U	P-O5'	-11.38	1.48	1.59
35	BB	56	U	O3'-P	-11.38	1.47	1.61
35	BB	1467	A	N7-C5	-11.38	1.32	1.39
34	BA	1254	C	P-O5'	-11.38	1.48	1.59
35	BB	1342	C	O3'-P	-11.38	1.47	1.61
34	BA	358	A	N9-C4	-11.37	1.31	1.37
40	BG	48	U	P-O5'	-11.37	1.48	1.59
85	AA	1909	C	P-O5'	-11.37	1.48	1.59
85	AA	116	G	N9-C4	-11.37	1.28	1.38
34	BA	1147	C	O3'-P	-11.36	1.47	1.61
35	BB	414	C	P-O5'	-11.36	1.48	1.59
85	AA	2176	U	N1-C2	-11.36	1.28	1.38
35	BB	68	G	N9-C4	-11.35	1.28	1.38
85	AA	1127	G	C1'-N9	-11.35	1.30	1.46
85	AA	2136	C	P-O5'	-11.35	1.48	1.59
34	BA	1597	G	N9-C4	-11.35	1.28	1.38
38	BE	34	C	C2'-C1'	-11.35	1.40	1.53
85	AA	1281	G	N9-C4	-11.35	1.28	1.38
34	BA	113	G	C3'-C2'	-11.35	1.40	1.52
34	BA	356	C	O3'-P	-11.35	1.47	1.61
85	AA	4	C	O3'-P	-11.35	1.47	1.61
85	AA	25	C	P-O5'	-11.35	1.48	1.59
34	BA	1282	G	N9-C4	-11.34	1.28	1.38
35	BB	781	U	O3'-P	-11.34	1.47	1.61
36	BC	9	G	C2'-C1'	-11.34	1.40	1.53
36	BC	111	C	P-O5'	-11.34	1.48	1.59
85	AA	2227	A	P-O5'	-11.34	1.48	1.59
34	BA	1494	G	O3'-P	-11.34	1.47	1.61
34	BA	1650	G	O3'-P	-11.33	1.47	1.61
85	AA	2185	U	C2'-C1'	-11.33	1.40	1.53
34	BA	1071	G	O3'-P	-11.32	1.47	1.61
34	BA	262	A	N9-C4	-11.32	1.31	1.37
34	BA	1676	A	P-O5'	-11.32	1.48	1.59
34	BA	961	C	C2'-C1'	-11.32	1.41	1.53
34	BA	1325	G	O3'-P	-11.31	1.47	1.61
35	BB	46	U	P-O5'	-11.31	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	164	G	P-O5'	-11.31	1.48	1.59
34	BA	1055	U	P-O5'	-11.31	1.48	1.59
35	BB	1147	G	P-O5'	-11.31	1.48	1.59
40	BG	46	G	P-O5'	-11.31	1.48	1.59
40	BG	176	G	P-O5'	-11.31	1.48	1.59
85	AA	2008	G	N3-C4	-11.31	1.27	1.35
36	BC	93	C	O3'-P	-11.31	1.47	1.61
85	AA	45	U	O3'-P	-11.31	1.47	1.61
85	AA	1486	G	C2'-C1'	-11.30	1.41	1.53
34	BA	592	G	C4'-C3'	11.30	1.65	1.53
34	BA	6	C	O3'-P	-11.29	1.47	1.61
34	BA	478	G	C2'-C1'	-11.30	1.41	1.53
36	BC	128	U	P-O5'	-11.30	1.48	1.59
36	BC	55	U	C2'-C1'	-11.29	1.41	1.53
35	BB	1466	A	N9-C4	-11.29	1.31	1.37
37	BD	65	G	P-O5'	-11.29	1.48	1.59
34	BA	432	A	N9-C4	-11.29	1.31	1.37
36	BC	20	C	P-O5'	-11.29	1.48	1.59
36	BC	100	U	O3'-P	-11.29	1.47	1.61
40	BG	162	A	P-O5'	-11.28	1.48	1.59
85	AA	663	C	O3'-P	-11.28	1.47	1.61
39	BF	62	U	O3'-P	-11.28	1.47	1.61
34	BA	13	U	P-O5'	-11.28	1.48	1.59
34	BA	59	A	O3'-P	-11.28	1.47	1.61
35	BB	654	C	O3'-P	-11.28	1.47	1.61
34	BA	1013	A	N9-C4	-11.27	1.31	1.37
35	BB	493	U	P-O5'	-11.27	1.48	1.59
34	BA	1739	G	N9-C4	-11.27	1.28	1.38
34	BA	1322	A	N9-C4	-11.26	1.31	1.37
35	BB	47	C	O3'-P	-11.26	1.47	1.61
36	BC	114	C	O3'-P	-11.26	1.47	1.61
39	BF	29	U	O3'-P	-11.26	1.47	1.61
36	BC	153	C	N1-C2	-11.26	1.28	1.40
85	AA	471	U	P-O5'	-11.26	1.48	1.59
34	BA	754	G	C2'-C1'	-11.26	1.41	1.53
85	AA	655	U	P-O5'	-11.26	1.48	1.59
34	BA	933	U	O3'-P	-11.25	1.47	1.61
38	BE	101	C	C3'-C2'	-11.25	1.40	1.52
35	BB	58	G	N9-C4	-11.25	1.28	1.38
35	BB	1484	A	P-O5'	-11.25	1.48	1.59
41	BH	102	C	O3'-P	-11.25	1.47	1.61
35	BB	1170	U	O3'-P	-11.25	1.47	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	549	A	P-O5'	-11.25	1.48	1.59
35	BB	74	U	P-O5'	-11.25	1.48	1.59
37	BD	16	U	P-O5'	-11.25	1.48	1.59
85	AA	757	A	P-O5'	-11.25	1.48	1.59
34	BA	572	G	N9-C4	11.24	1.47	1.38
35	BB	54	U	O3'-P	-11.23	1.47	1.61
85	AA	393	C	C3'-C2'	-11.23	1.40	1.52
34	BA	1092	U	C2-N3	-11.23	1.29	1.37
35	BB	1356	G	C2-N2	-11.23	1.23	1.34
34	BA	1261	G	C2'-C1'	-11.23	1.41	1.53
35	BB	783	U	O3'-P	-11.23	1.47	1.61
37	BD	98	G	O3'-P	-11.23	1.47	1.61
85	AA	924	A	P-O5'	-11.23	1.48	1.59
35	BB	640	A	N9-C4	-11.22	1.31	1.37
85	AA	384	C	P-O5'	-11.22	1.48	1.59
85	AA	596	A	C2'-C1'	-11.22	1.41	1.53
85	AA	1687	U	C2-N3	-11.22	1.29	1.37
35	BB	1070	G	P-O5'	-11.22	1.48	1.59
34	BA	416	A	N9-C4	-11.22	1.31	1.37
85	AA	1228	A	P-O5'	-11.22	1.48	1.59
34	BA	475	A	N9-C4	-11.21	1.31	1.37
85	AA	551	C	P-O5'	-11.21	1.48	1.59
85	AA	1248	U	O3'-P	-11.21	1.47	1.61
34	BA	381	A	N9-C4	-11.21	1.31	1.37
35	BB	1370	G	N7-C5	-11.21	1.32	1.39
34	BA	936	A	N9-C4	-11.21	1.31	1.37
34	BA	1600	G	P-O5'	-11.21	1.48	1.59
34	BA	1010	C	O3'-P	-11.20	1.47	1.61
35	BB	1105	G	P-O5'	-11.20	1.48	1.59
34	BA	652	C	P-O5'	-11.20	1.48	1.59
34	BA	929	A	N9-C4	-11.20	1.31	1.37
34	BA	1460	U	P-O5'	-11.20	1.48	1.59
38	BE	65	U	P-O5'	-11.20	1.48	1.59
34	BA	741	A	C2'-C1'	-11.20	1.41	1.53
85	AA	158	C	P-O5'	-11.20	1.48	1.59
85	AA	485	A	P-O5'	-11.20	1.48	1.59
85	AA	1110	A	P-O5'	-11.20	1.48	1.59
85	AA	1529	A	N9-C4	-11.20	1.31	1.37
35	BB	368	C	P-O5'	-11.19	1.48	1.59
35	BB	1029	U	P-O5'	-11.19	1.48	1.59
85	AA	372	U	C2-N3	-11.19	1.29	1.37
35	BB	1229	A	C2'-C1'	-11.18	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	702	G	N9-C8	-11.18	1.30	1.37
34	BA	310	C	P-O5'	-11.18	1.48	1.59
36	BC	163	A	P-O5'	-11.18	1.48	1.59
40	BG	106	G	N9-C4	-11.18	1.29	1.38
85	AA	79	G	P-O5'	-11.18	1.48	1.59
35	BB	475	A	N9-C4	-11.18	1.31	1.37
34	BA	96	G	N9-C4	-11.17	1.29	1.38
34	BA	1784	G	P-O5'	-11.17	1.48	1.59
35	BB	1456	G	O3'-P	-11.17	1.47	1.61
36	BC	44	A	O3'-P	-11.17	1.47	1.61
34	BA	593	G	C5'-C4'	11.16	1.64	1.51
35	BB	682	U	C2-N3	-11.16	1.29	1.37
35	BB	1204	C	O3'-P	-11.16	1.47	1.61
35	BB	1444	U	P-O5'	-11.16	1.48	1.59
35	BB	1444	U	C2-N3	-11.16	1.29	1.37
85	AA	496	C	P-O5'	-11.16	1.48	1.59
35	BB	50	A	O3'-P	-11.16	1.47	1.61
34	BA	71	G	O3'-P	-11.16	1.47	1.61
85	AA	2238	C	P-O5'	-11.16	1.48	1.59
36	BC	36	G	N9-C4	-11.15	1.29	1.38
85	AA	4	C	P-O5'	-11.15	1.48	1.59
85	AA	2229	G	C6-N1	-11.15	1.31	1.39
35	BB	795	A	O3'-P	-11.15	1.47	1.61
85	AA	1700	C	P-O5'	-11.15	1.48	1.59
85	AA	2139	G	N9-C4	-11.15	1.29	1.38
34	BA	75	U	C2-N3	-11.14	1.29	1.37
85	AA	603	C	P-O5'	-11.14	1.48	1.59
85	AA	1448	A	P-O5'	-11.14	1.48	1.59
37	BD	87	G	P-O5'	-11.14	1.48	1.59
34	BA	145	U	P-O5'	-11.14	1.48	1.59
34	BA	305	C	P-O5'	-11.14	1.48	1.59
34	BA	1555	G	P-O5'	-11.14	1.48	1.59
38	BE	38	C	P-O5'	-11.13	1.48	1.59
34	BA	428	C	P-O5'	-11.13	1.48	1.59
35	BB	374	A	C2'-C1'	-11.13	1.41	1.53
35	BB	416	U	O3'-P	-11.13	1.47	1.61
37	BD	69	U	P-O5'	-11.13	1.48	1.59
35	BB	1287	U	P-O5'	-11.13	1.48	1.59
34	BA	919	A	N9-C4	-11.12	1.31	1.37
34	BA	902	C	O3'-P	-11.12	1.47	1.61
34	BA	409	A	P-O5'	-11.12	1.48	1.59
36	BC	18	G	C2'-C1'	-11.12	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	120	G	C6-N1	-11.12	1.31	1.39
85	AA	381	A	C1'-N9	-11.12	1.31	1.46
85	AA	1225	C	O3'-P	-11.12	1.47	1.61
34	BA	498	A	O3'-P	-11.12	1.47	1.61
85	AA	613	G	P-O5'	-11.11	1.48	1.59
36	BC	105	C	P-O5'	-11.11	1.48	1.59
40	BG	17	A	C4'-C3'	-11.11	1.41	1.53
85	AA	696	G	O3'-P	-11.11	1.47	1.61
38	BE	2	G	O3'-P	-11.11	1.47	1.61
85	AA	756	G	O3'-P	-11.11	1.47	1.61
35	BB	1508	G	C2'-C1'	-11.11	1.41	1.53
85	AA	2146	G	C2-N2	-11.11	1.23	1.34
85	AA	1526	G	P-O5'	-11.11	1.48	1.59
85	AA	1289	U	P-O5'	-11.10	1.48	1.59
34	BA	900	A	C2'-C1'	-11.10	1.41	1.53
35	BB	1424	G	O3'-P	-11.10	1.47	1.61
85	AA	1152	U	P-O5'	-11.10	1.48	1.59
85	AA	1263	G	C6-N1	-11.10	1.31	1.39
85	AA	1442	U	C2-N3	-11.10	1.29	1.37
34	BA	244	A	P-O5'	-11.10	1.48	1.59
34	BA	812	A	P-O5'	-11.10	1.48	1.59
41	BH	29	G	N9-C4	-11.10	1.29	1.38
35	BB	1274	G	N7-C5	-11.09	1.32	1.39
85	AA	185	A	P-O5'	-11.09	1.48	1.59
34	BA	1406	U	P-O5'	-11.09	1.48	1.59
35	BB	827	U	P-O5'	-11.09	1.48	1.59
36	BC	7	U	N1-C2	-11.09	1.28	1.38
85	AA	10	G	O3'-P	-11.08	1.47	1.61
85	AA	105	A	N9-C4	-11.08	1.31	1.37
85	AA	442	G	C5-C4	-11.08	1.30	1.38
85	AA	2139	G	P-O5'	-11.08	1.48	1.59
34	BA	96	G	O3'-P	-11.08	1.47	1.61
34	BA	761	U	C1'-N1	-11.07	1.31	1.46
35	BB	584	A	C1'-N9	-11.07	1.31	1.46
34	BA	1659	G	P-O5'	-11.07	1.48	1.59
85	AA	1189	A	N9-C4	-11.07	1.31	1.37
34	BA	36	A	P-O5'	-11.07	1.48	1.59
34	BA	1194	G	C3'-C2'	-11.07	1.40	1.52
34	BA	324	C	C4'-C3'	-11.07	1.41	1.53
34	BA	758	G	N9-C4	-11.06	1.29	1.38
34	BA	1779	U	P-O5'	-11.06	1.48	1.59
35	BB	1492	C	P-O5'	-11.06	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2236	U	C2'-C1'	-11.06	1.41	1.53
34	BA	1726	U	O3'-P	-11.06	1.47	1.61
34	BA	1800	G	N9-C4	-11.06	1.29	1.38
34	BA	1665	G	P-O5'	-11.06	1.48	1.59
34	BA	927	A	P-O5'	-11.06	1.48	1.59
35	BB	87	G	O3'-P	-11.06	1.47	1.61
35	BB	1309	A	N9-C4	-11.06	1.31	1.37
85	AA	1493	A	N9-C4	-11.06	1.31	1.37
34	BA	1098	G	P-O5'	-11.05	1.48	1.59
35	BB	1447	U	O3'-P	-11.05	1.47	1.61
40	BG	37	G	P-O5'	-11.05	1.48	1.59
85	AA	1223	A	N9-C4	-11.05	1.31	1.37
34	BA	531	C	C2'-C1'	-11.05	1.41	1.53
34	BA	12	G	C2-N2	-11.05	1.23	1.34
35	BB	25	A	P-O5'	-11.04	1.48	1.59
85	AA	543	A	N9-C4	-11.04	1.31	1.37
34	BA	1613	G	P-O5'	-11.04	1.48	1.59
35	BB	576	A	C2'-C1'	-11.04	1.41	1.53
35	BB	642	G	O3'-P	-11.04	1.48	1.61
38	BE	96	G	C2-N2	-11.04	1.23	1.34
38	BE	141	A	O3'-P	-11.04	1.47	1.61
34	BA	14	G	N9-C4	-11.04	1.29	1.38
34	BA	1266	A	N9-C4	-11.04	1.31	1.37
85	AA	433	U	P-O5'	-11.04	1.48	1.59
34	BA	248	G	C2'-C1'	-11.04	1.41	1.53
34	BA	262	A	P-O5'	-11.04	1.48	1.59
34	BA	774	A	P-O5'	-11.04	1.48	1.59
34	BA	851	C	P-O5'	-11.04	1.48	1.59
35	BB	502	C	P-O5'	-11.04	1.48	1.59
34	BA	999	G	P-O5'	-11.04	1.48	1.59
34	BA	741	A	C1'-N9	-11.04	1.31	1.46
34	BA	955	G	P-O5'	-11.03	1.48	1.59
34	BA	1736	A	N7-C5	-11.03	1.32	1.39
36	BC	5	U	P-O5'	-11.03	1.48	1.59
85	AA	1119	A	O3'-P	-11.03	1.48	1.61
85	AA	1515	A	C1'-N9	-11.03	1.31	1.46
34	BA	390	A	N9-C4	-11.03	1.31	1.37
34	BA	1224	A	C4'-O4'	-11.03	1.31	1.45
35	BB	429	C	P-O5'	-11.03	1.48	1.59
85	AA	50	C	P-O5'	-11.03	1.48	1.59
85	AA	1136	A	C1'-N9	-11.03	1.31	1.46
35	BB	1145	G	N9-C4	-11.02	1.29	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1199	A	P-O5'	-11.02	1.48	1.59
34	BA	79	C	O3'-P	-11.02	1.48	1.61
34	BA	406	G	P-O5'	-11.02	1.48	1.59
85	AA	383	C	C2'-C1'	-11.02	1.41	1.53
85	AA	681	G	N9-C8	-11.02	1.30	1.37
85	AA	815	G	N9-C4	11.02	1.46	1.38
34	BA	1673	G	C6-N1	-11.02	1.31	1.39
35	BB	1131	C	O3'-P	-11.02	1.48	1.61
35	BB	1371	G	O3'-P	-11.02	1.48	1.61
35	BB	1377	A	N9-C4	-11.02	1.31	1.37
34	BA	1845	G	C2-N3	-11.01	1.24	1.32
35	BB	1114	A	N9-C4	-11.01	1.31	1.37
85	AA	449	G	C2'-C1'	-11.01	1.41	1.53
34	BA	65	A	N7-C5	-11.01	1.32	1.39
35	BB	481	A	O3'-P	-11.01	1.48	1.61
34	BA	174	A	O3'-P	-11.01	1.48	1.61
34	BA	1052	G	O3'-P	-11.01	1.48	1.61
35	BB	569	G	C6-N1	-11.00	1.31	1.39
35	BB	6	A	P-O5'	-11.00	1.48	1.59
37	BD	75	G	P-O5'	-11.00	1.48	1.59
34	BA	445	C	C2'-C1'	-11.00	1.41	1.53
35	BB	1185	G	C1'-N9	-11.00	1.31	1.46
85	AA	1115	G	P-O5'	-11.00	1.48	1.59
34	BA	844	U	O3'-P	-11.00	1.48	1.61
35	BB	380	G	P-O5'	-11.00	1.48	1.59
85	AA	2195	A	O3'-P	-11.00	1.48	1.61
85	AA	2153	G	P-O5'	-10.99	1.48	1.59
85	AA	1895	C	P-O5'	-10.99	1.48	1.59
38	BE	172	U	O3'-P	-10.99	1.48	1.61
85	AA	464	A	N9-C4	-10.99	1.31	1.37
34	BA	1549	U	O3'-P	-10.99	1.48	1.61
40	BG	181	C	O3'-P	-10.99	1.48	1.61
34	BA	42	A	P-O5'	-10.98	1.48	1.59
34	BA	482	C	P-O5'	-10.98	1.48	1.59
34	BA	10	G	O3'-P	-10.98	1.48	1.61
35	BB	970	C	C2'-C1'	-10.98	1.41	1.53
34	BA	49	A	C1'-N9	-10.98	1.31	1.46
34	BA	924	U	P-O5'	-10.98	1.48	1.59
37	BD	48	G	C8-N7	-10.98	1.24	1.30
34	BA	301	U	O3'-P	-10.98	1.48	1.61
85	AA	1107	A	O3'-P	-10.98	1.48	1.61
35	BB	93	A	C2'-C1'	-10.97	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	167	U	O3'-P	-10.97	1.48	1.61
85	AA	1879	U	O3'-P	-10.97	1.48	1.61
85	AA	2062	U	O3'-P	-10.97	1.48	1.61
85	AA	2146	G	C2'-C1'	-10.97	1.41	1.53
34	BA	593	G	O3'-P	-10.97	1.48	1.61
35	BB	130	G	O3'-P	-10.97	1.48	1.61
36	BC	127	C	P-O5'	-10.97	1.48	1.59
38	BE	5	A	O3'-P	-10.97	1.48	1.61
38	BE	28	C	O3'-P	-10.97	1.48	1.61
35	BB	1171	U	O3'-P	-10.97	1.48	1.61
37	BD	92	G	P-O5'	-10.97	1.48	1.59
40	BG	122	G	O3'-P	-10.97	1.48	1.61
40	BG	176	G	O3'-P	-10.97	1.48	1.61
34	BA	383	G	C3'-C2'	-10.96	1.40	1.52
35	BB	1540	U	C2'-C1'	-10.96	1.41	1.53
34	BA	460	G	O3'-P	-10.96	1.48	1.61
35	BB	1016	C	C2'-C1'	-10.96	1.41	1.53
85	AA	362	G	C1'-N9	-10.96	1.31	1.46
35	BB	1167	C	O3'-P	-10.96	1.48	1.61
34	BA	1461	A	N9-C4	-10.96	1.31	1.37
35	BB	1089	A	N9-C4	-10.96	1.31	1.37
35	BB	1479	C	P-O5'	-10.96	1.48	1.59
85	AA	1288	A	N3-C4	-10.96	1.28	1.34
34	BA	143	A	P-O5'	-10.95	1.48	1.59
34	BA	1591	G	C5-C4	-10.95	1.30	1.38
35	BB	1378	U	P-O5'	-10.95	1.48	1.59
34	BA	1033	G	N9-C4	-10.95	1.29	1.38
34	BA	1493	U	C5'-C4'	10.95	1.64	1.51
34	BA	95	C	C3'-C2'	-10.95	1.40	1.52
34	BA	243	C	P-O5'	-10.95	1.48	1.59
35	BB	39	C	O3'-P	-10.95	1.48	1.61
40	BG	130	G	C1'-N9	-10.95	1.31	1.46
85	AA	1493	A	C2'-C1'	-10.95	1.41	1.53
34	BA	681	G	N9-C4	-10.94	1.29	1.38
35	BB	1051	U	C2-N3	-10.94	1.30	1.37
85	AA	1196	C	P-O5'	-10.94	1.48	1.59
85	AA	1457	C	C2'-C1'	-10.94	1.41	1.53
34	BA	997	U	C2-N3	-10.94	1.30	1.37
85	AA	1598	A	O3'-P	-10.94	1.48	1.61
34	BA	1614	G	C8-N7	-10.93	1.24	1.30
85	AA	160	A	C2'-C1'	-10.93	1.41	1.53
85	AA	2022	A	N7-C5	-10.93	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	8	C	N1-C2	-10.93	1.29	1.40
85	AA	1548	A	O3'-P	-10.93	1.48	1.61
34	BA	1612	C	O3'-P	-10.93	1.48	1.61
34	BA	1796	A	O3'-P	-10.93	1.48	1.61
85	AA	1913	G	P-O5'	-10.93	1.48	1.59
40	BG	148	C	P-O5'	-10.93	1.48	1.59
85	AA	790	A	C2'-C1'	-10.93	1.41	1.53
85	AA	1209	U	O3'-P	-10.93	1.48	1.61
35	BB	538	A	P-O5'	-10.92	1.48	1.59
34	BA	793	A	N7-C5	-10.92	1.32	1.39
35	BB	1057	G	P-O5'	-10.92	1.48	1.59
35	BB	1419	G	P-O5'	-10.92	1.48	1.59
34	BA	1252	G	O3'-P	-10.91	1.48	1.61
85	AA	364	C	C2'-C1'	-10.91	1.41	1.53
85	AA	498	C	O3'-P	-10.91	1.48	1.61
34	BA	1410	C	P-O5'	-10.91	1.48	1.59
85	AA	890	U	N1-C2	-10.91	1.28	1.38
35	BB	1350	A	O3'-P	-10.91	1.48	1.61
36	BC	102	G	O3'-P	-10.91	1.48	1.61
85	AA	454	G	O3'-P	-10.90	1.48	1.61
34	BA	911	G	C6-N1	-10.90	1.31	1.39
34	BA	788	C	O3'-P	-10.90	1.48	1.61
35	BB	630	A	O3'-P	-10.90	1.48	1.61
35	BB	1038	G	O3'-P	-10.90	1.48	1.61
85	AA	1115	G	C2'-C1'	-10.90	1.41	1.53
35	BB	1089	A	C1'-N9	-10.90	1.31	1.46
36	BC	97	U	O3'-P	-10.90	1.48	1.61
85	AA	2167	A	P-O5'	-10.90	1.48	1.59
34	BA	297	A	N9-C4	-10.90	1.31	1.37
85	AA	370	A	O3'-P	-10.90	1.48	1.61
85	AA	1266	C	P-O5'	-10.89	1.48	1.59
34	BA	1143	U	O3'-P	-10.89	1.48	1.61
35	BB	1310	C	O3'-P	-10.89	1.48	1.61
85	AA	2132	A	C2'-C1'	-10.89	1.41	1.53
36	BC	9	G	C1'-N9	-10.89	1.31	1.46
34	BA	1018	U	O3'-P	-10.88	1.48	1.61
34	BA	1269	C	O3'-P	-10.88	1.48	1.61
35	BB	1045	G	C1'-N9	-10.88	1.31	1.46
85	AA	1287	C	O3'-P	-10.88	1.48	1.61
34	BA	1518	A	N7-C5	-10.88	1.32	1.39
34	BA	1792	U	P-O5'	-10.88	1.48	1.59
85	AA	2030	U	P-O5'	-10.88	1.48	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1240	A	O3'-P	-10.88	1.48	1.61
34	BA	417	A	O3'-P	-10.88	1.48	1.61
35	BB	1323	U	P-O5'	-10.88	1.48	1.59
34	BA	406	G	N9-C4	-10.88	1.29	1.38
34	BA	440	A	N9-C4	-10.88	1.31	1.37
35	BB	1286	G	O3'-P	-10.88	1.48	1.61
36	BC	95	A	C2'-C1'	-10.87	1.41	1.53
35	BB	1466	A	N9-C8	-10.87	1.29	1.37
35	BB	1121	A	N9-C4	-10.87	1.31	1.37
35	BB	1134	G	N9-C4	-10.87	1.29	1.38
85	AA	2085	C	P-O5'	-10.87	1.48	1.59
34	BA	34	U	O3'-P	-10.86	1.48	1.61
34	BA	927	A	C1'-N9	-10.87	1.31	1.46
34	BA	478	G	C6-N1	-10.86	1.31	1.39
34	BA	775	C	P-O5'	-10.86	1.48	1.59
34	BA	900	A	C1'-N9	-10.86	1.31	1.46
35	BB	413	A	O3'-P	-10.86	1.48	1.61
35	BB	620	G	C2'-C1'	-10.86	1.41	1.53
34	BA	420	A	O3'-P	-10.86	1.48	1.61
34	BA	1324	G	P-O5'	-10.86	1.48	1.59
40	BG	147	U	P-O5'	-10.86	1.48	1.59
34	BA	1156	U	C2-N3	-10.86	1.30	1.37
35	BB	391	G	C6-N1	-10.86	1.31	1.39
35	BB	638	G	N9-C4	-10.86	1.29	1.38
85	AA	1490	A	N9-C4	-10.86	1.31	1.37
34	BA	1845	G	O3'-P	-10.86	1.48	1.61
34	BA	128	C	O3'-P	-10.85	1.48	1.61
34	BA	383	G	O3'-P	-10.85	1.48	1.61
35	BB	1135	U	O3'-P	-10.85	1.48	1.61
35	BB	1334	C	C3'-C2'	-10.85	1.40	1.52
85	AA	859	G	P-O5'	-10.85	1.48	1.59
85	AA	1098	C	O3'-P	-10.85	1.48	1.61
34	BA	218	G	P-O5'	-10.85	1.49	1.59
38	BE	59	U	C2-N3	-10.85	1.30	1.37
35	BB	873	C	P-O5'	-10.85	1.49	1.59
85	AA	315	U	O3'-P	-10.85	1.48	1.61
85	AA	863	C	P-O5'	-10.85	1.49	1.59
34	BA	1641	G	P-O5'	-10.84	1.49	1.59
35	BB	471	U	P-O5'	-10.84	1.49	1.59
34	BA	1274	A	N9-C4	-10.84	1.31	1.37
35	BB	971	A	C2'-C1'	-10.84	1.41	1.53
85	AA	48	G	C6-N1	-10.84	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	502	U	P-O5'	-10.84	1.49	1.59
34	BA	1163	G	C6-N1	-10.84	1.31	1.39
85	AA	624	A	N9-C4	-10.83	1.31	1.37
34	BA	876	C	O3'-P	-10.83	1.48	1.61
35	BB	85	A	O3'-P	-10.83	1.48	1.61
85	AA	523	U	P-O5'	-10.83	1.49	1.59
35	BB	119	G	O3'-P	-10.83	1.48	1.61
85	AA	595	A	N9-C4	-10.83	1.31	1.37
34	BA	538	G	C2'-C1'	-10.82	1.41	1.53
36	BC	110	A	O3'-P	-10.82	1.48	1.61
85	AA	369	A	P-O5'	-10.82	1.49	1.59
34	BA	1007	G	N9-C4	-10.82	1.29	1.38
34	BA	517	A	O3'-P	-10.81	1.48	1.61
35	BB	830	G	C2'-C1'	-10.81	1.41	1.53
85	AA	1259	U	P-O5'	-10.81	1.49	1.59
85	AA	365	G	C1'-N9	-10.81	1.31	1.46
85	AA	707	U	C4'-C3'	-10.81	1.41	1.53
35	BB	1122	C	P-O5'	-10.80	1.49	1.59
34	BA	1284	G	N1-C2	-10.80	1.29	1.37
34	BA	899	G	P-O5'	-10.80	1.49	1.59
34	BA	1671	A	C2'-C1'	-10.80	1.41	1.53
85	AA	1878	C	P-O5'	-10.80	1.49	1.59
34	BA	19	G	P-O5'	-10.80	1.49	1.59
35	BB	978	C	P-O5'	-10.80	1.49	1.59
34	BA	366	G	P-O5'	-10.79	1.49	1.59
34	BA	1602	A	N9-C4	-10.79	1.31	1.37
34	BA	1680	G	C6-N1	-10.79	1.31	1.39
34	BA	1730	A	C5'-C4'	10.79	1.64	1.51
37	BD	37	G	P-O5'	-10.79	1.49	1.59
85	AA	2138	G	C2'-C1'	-10.79	1.41	1.53
35	BB	561	C	P-O5'	-10.79	1.49	1.59
34	BA	1662	U	N3-C4	-10.79	1.28	1.38
35	BB	994	A	P-O5'	-10.79	1.49	1.59
39	BF	16	C	C5'-C4'	10.79	1.64	1.51
34	BA	1336	U	P-O5'	-10.78	1.49	1.59
85	AA	2146	G	N9-C8	-10.78	1.30	1.37
34	BA	1680	G	O3'-P	-10.78	1.48	1.61
35	BB	464	C	O3'-P	-10.78	1.48	1.61
36	BC	52	A	P-O5'	-10.78	1.49	1.59
34	BA	1220	C	O3'-P	-10.78	1.48	1.61
34	BA	1588	U	P-O5'	-10.78	1.49	1.59
40	BG	38	A	O3'-P	-10.77	1.48	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	758	C	P-O5'	-10.77	1.49	1.59
85	AA	966	G	P-O5'	-10.77	1.49	1.59
34	BA	596	G	N7-C5	-10.77	1.32	1.39
85	AA	447	C	O3'-P	-10.77	1.48	1.61
34	BA	95	C	O3'-P	-10.76	1.48	1.61
34	BA	1039	G	C3'-C2'	-10.76	1.41	1.52
34	BA	490	A	N9-C4	-10.76	1.31	1.37
35	BB	1403	G	O3'-P	-10.76	1.48	1.61
35	BB	1455	A	N7-C5	-10.76	1.32	1.39
34	BA	895	U	C4'-C3'	-10.76	1.41	1.53
85	AA	1198	U	O3'-P	-10.76	1.48	1.61
34	BA	1062	G	C6-N1	-10.76	1.32	1.39
34	BA	1809	G	C1'-N9	-10.76	1.31	1.46
85	AA	676	U	P-O5'	-10.76	1.49	1.59
34	BA	707	C	O3'-P	-10.75	1.48	1.61
34	BA	1001	G	O3'-P	-10.75	1.48	1.61
35	BB	1036	G	P-O5'	-10.75	1.49	1.59
85	AA	802	A	N9-C4	-10.75	1.31	1.37
38	BE	121	G	C2'-C1'	-10.75	1.41	1.53
41	BH	63	G	N7-C5	-10.75	1.32	1.39
85	AA	819	G	N7-C5	-10.75	1.32	1.39
34	BA	756	A	P-O5'	-10.75	1.49	1.59
34	BA	962	U	C2'-C1'	-10.75	1.41	1.53
35	BB	379	U	P-O5'	-10.75	1.49	1.59
35	BB	418	G	P-O5'	-10.75	1.49	1.59
35	BB	1123	A	N9-C4	-10.75	1.31	1.37
34	BA	876	C	C2'-C1'	-10.74	1.41	1.53
35	BB	1235	A	O3'-P	-10.74	1.48	1.61
40	BG	15	G	C2'-C1'	-10.74	1.41	1.53
40	BG	139	U	N3-C4	-10.74	1.28	1.38
35	BB	18	A	O3'-P	-10.74	1.48	1.61
35	BB	38	C	P-O5'	-10.74	1.49	1.59
85	AA	1828	C	P-O5'	-10.74	1.49	1.59
35	BB	650	A	P-O5'	-10.74	1.49	1.59
34	BA	962	U	O3'-P	-10.74	1.48	1.61
85	AA	687	G	C5-C4	-10.74	1.30	1.38
85	AA	1480	C	O3'-P	-10.74	1.48	1.61
85	AA	2191	C	P-O5'	-10.74	1.49	1.59
34	BA	619	U	P-O5'	-10.73	1.49	1.59
34	BA	1087	A	N9-C4	-10.73	1.31	1.37
85	AA	2210	C	P-O5'	-10.73	1.49	1.59
85	AA	1247	A	N9-C4	-10.73	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1527	G	O3'-P	-10.73	1.48	1.61
39	BF	51	C	P-O5'	-10.73	1.49	1.59
85	AA	702	G	C6-N1	-10.73	1.32	1.39
34	BA	1282	G	P-O5'	-10.72	1.49	1.59
85	AA	700	U	O3'-P	-10.72	1.48	1.61
85	AA	1923	A	N7-C5	-10.72	1.32	1.39
35	BB	634	A	N9-C4	-10.72	1.31	1.37
85	AA	456	A	C2'-C1'	-10.72	1.41	1.53
85	AA	1116	G	O3'-P	-10.72	1.48	1.61
34	BA	1094	U	P-O5'	-10.72	1.49	1.59
34	BA	856	G	P-O5'	-10.72	1.49	1.59
36	BC	38	U	O3'-P	-10.72	1.48	1.61
85	AA	1112	G	N7-C5	-10.72	1.32	1.39
34	BA	327	G	C2'-C1'	-10.72	1.41	1.53
85	AA	2038	C	P-O5'	-10.72	1.49	1.59
34	BA	1835	A	P-O5'	-10.71	1.49	1.59
35	BB	1194	A	C2'-C1'	-10.71	1.41	1.53
34	BA	224	G	O3'-P	-10.71	1.48	1.61
35	BB	825	U	C2'-C1'	-10.71	1.41	1.53
85	AA	667	A	N9-C4	-10.71	1.31	1.37
85	AA	2182	A	N7-C5	-10.71	1.32	1.39
35	BB	1424	G	N9-C4	-10.71	1.29	1.38
85	AA	526	G	P-O5'	-10.71	1.49	1.59
40	BG	166	C	P-O5'	-10.71	1.49	1.59
38	BE	118	C	O3'-P	-10.71	1.48	1.61
40	BG	54	G	P-O5'	-10.71	1.49	1.59
34	BA	895	U	O3'-P	-10.70	1.48	1.61
85	AA	1282	A	O3'-P	-10.70	1.48	1.61
34	BA	1504	A	P-O5'	-10.70	1.49	1.59
85	AA	1096	G	P-O5'	-10.70	1.49	1.59
85	AA	21	U	O3'-P	-10.70	1.48	1.61
85	AA	2083	G	O3'-P	-10.70	1.48	1.61
34	BA	999	G	O3'-P	-10.69	1.48	1.61
34	BA	1642	A	P-O5'	-10.69	1.49	1.59
85	AA	1644	G	N7-C5	-10.69	1.32	1.39
34	BA	886	G	O3'-P	-10.69	1.48	1.61
34	BA	910	U	O3'-P	-10.69	1.48	1.61
34	BA	934	G	O3'-P	-10.69	1.48	1.61
34	BA	321	G	N9-C8	-10.68	1.30	1.37
34	BA	341	U	C2-N3	-10.68	1.30	1.37
34	BA	384	U	P-O5'	-10.68	1.49	1.59
35	BB	837	A	N9-C4	-10.68	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1369	A	O3'-P	-10.68	1.48	1.61
85	AA	1291	A	N9-C4	-10.68	1.31	1.37
34	BA	1839	G	P-O5'	-10.67	1.49	1.59
35	BB	1045	G	C2'-C1'	-10.67	1.41	1.53
37	BD	36	C	C2'-C1'	-10.67	1.41	1.53
85	AA	2189	U	C2'-C1'	-10.67	1.41	1.53
34	BA	513	U	N3-C4	-10.67	1.28	1.38
34	BA	735	A	N9-C4	-10.67	1.31	1.37
85	AA	1255	C	P-O5'	-10.67	1.49	1.59
35	BB	2	C	P-O5'	-10.67	1.49	1.59
34	BA	722	A	N9-C4	-10.66	1.31	1.37
34	BA	972	C	O3'-P	-10.66	1.48	1.61
34	BA	1631	U	C5'-C4'	10.66	1.64	1.51
35	BB	441	G	O3'-P	-10.66	1.48	1.61
35	BB	606	C	O3'-P	-10.66	1.48	1.61
35	BB	1220	A	P-O5'	-10.66	1.49	1.59
37	BD	75	G	C2-N3	-10.66	1.24	1.32
40	BG	11	G	P-O5'	-10.66	1.49	1.59
34	BA	720	A	N7-C5	-10.66	1.32	1.39
85	AA	864	C	C2'-C1'	-10.66	1.41	1.53
34	BA	803	U	P-O5'	-10.66	1.49	1.59
35	BB	556	U	C2-N3	-10.66	1.30	1.37
38	BE	175	U	O3'-P	-10.66	1.48	1.61
40	BG	32	U	C2-N3	-10.66	1.30	1.37
34	BA	291	C	P-O5'	-10.65	1.49	1.59
34	BA	1211	G	N3-C4	-10.65	1.27	1.35
85	AA	57	G	P-O5'	-10.65	1.49	1.59
34	BA	1286	C	C2-N3	-10.65	1.27	1.35
35	BB	372	U	C2-N3	-10.65	1.30	1.37
41	BH	30	C	P-O5'	-10.65	1.49	1.59
34	BA	743	A	P-O5'	-10.65	1.49	1.59
35	BB	120	C	O3'-P	-10.65	1.48	1.61
34	BA	1143	U	C2-N3	-10.65	1.30	1.37
35	BB	69	A	N9-C4	-10.65	1.31	1.37
38	BE	141	A	C4'-C3'	-10.65	1.41	1.53
85	AA	471	U	O3'-P	-10.65	1.48	1.61
85	AA	47	A	O3'-P	-10.65	1.48	1.61
34	BA	1485	U	C2-N3	-10.64	1.30	1.37
35	BB	110	U	P-O5'	-10.64	1.49	1.59
34	BA	997	U	O3'-P	-10.64	1.48	1.61
85	AA	902	A	O4'-C1'	-10.64	1.27	1.41
85	AA	1466	U	N1-C2	-10.64	1.28	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	58	A	N9-C4	-10.64	1.31	1.37
85	AA	1146	C	P-O5'	-10.64	1.49	1.59
34	BA	1832	A	O3'-P	-10.64	1.48	1.61
35	BB	426	A	P-O5'	-10.64	1.49	1.59
40	BG	41	U	P-O5'	-10.64	1.49	1.59
85	AA	341	C	P-O5'	-10.64	1.49	1.59
34	BA	437	G	O3'-P	-10.64	1.48	1.61
34	BA	718	U	C2'-C1'	-10.63	1.41	1.53
85	AA	1911	A	O3'-P	-10.64	1.48	1.61
34	BA	1541	G	N9-C4	-10.63	1.29	1.38
34	BA	1617	U	C2-N3	-10.63	1.30	1.37
34	BA	1708	A	C3'-C2'	-10.63	1.41	1.52
35	BB	1307	C	O3'-P	-10.63	1.48	1.61
34	BA	1724	G	C2'-C1'	-10.63	1.41	1.53
35	BB	1117	G	C3'-C2'	-10.63	1.41	1.52
35	BB	119	G	C3'-C2'	-10.62	1.41	1.52
36	BC	113	G	N9-C4	-10.62	1.29	1.38
85	AA	1655	G	C2'-C1'	-10.62	1.41	1.53
85	AA	2139	G	O3'-P	-10.62	1.48	1.61
34	BA	1587	C	O3'-P	-10.62	1.48	1.61
35	BB	5	A	N9-C4	-10.62	1.31	1.37
36	BC	119	G	N9-C4	-10.61	1.29	1.38
85	AA	1283	C	P-O5'	-10.61	1.49	1.59
34	BA	253	U	C2-N3	-10.61	1.30	1.37
35	BB	28	G	P-O5'	-10.61	1.49	1.59
85	AA	2119	C	C3'-C2'	-10.61	1.41	1.52
35	BB	1462	G	C6-N1	-10.61	1.32	1.39
39	BF	25	G	O3'-P	-10.61	1.48	1.61
85	AA	1489	G	O3'-P	-10.61	1.48	1.61
34	BA	276	C	C2'-C1'	-10.61	1.41	1.53
34	BA	1502	G	C2'-C1'	-10.61	1.41	1.53
34	BA	926	A	C1'-N9	-10.60	1.32	1.46
34	BA	1272	U	O3'-P	-10.60	1.48	1.61
34	BA	798	G	N7-C5	-10.60	1.32	1.39
85	AA	352	G	C1'-N9	-10.60	1.32	1.46
85	AA	1123	C	P-O5'	-10.60	1.49	1.59
85	AA	1867	G	O3'-P	-10.60	1.48	1.61
35	BB	1331	U	O3'-P	-10.60	1.48	1.61
40	BG	165	C	P-O5'	-10.60	1.49	1.59
34	BA	1407	C	P-O5'	-10.59	1.49	1.59
85	AA	1819	U	P-O5'	-10.59	1.49	1.59
34	BA	370	U	P-O5'	-10.59	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	715	U	C2-N3	-10.59	1.30	1.37
35	BB	391	G	P-O5'	-10.59	1.49	1.59
35	BB	1370	G	P-O5'	-10.59	1.49	1.59
34	BA	190	U	P-O5'	-10.59	1.49	1.59
38	BE	192	A	P-O5'	-10.59	1.49	1.59
85	AA	273	C	P-O5'	-10.59	1.49	1.59
85	AA	1223	A	P-O5'	-10.59	1.49	1.59
34	BA	1270	G	O3'-P	-10.58	1.48	1.61
40	BG	139	U	C2-N3	-10.58	1.30	1.37
85	AA	689	U	P-O5'	-10.58	1.49	1.59
34	BA	191	G	O3'-P	-10.58	1.48	1.61
34	BA	930	A	P-O5'	-10.58	1.49	1.59
35	BB	135	C	C3'-C2'	-10.58	1.41	1.52
35	BB	491	A	O3'-P	-10.58	1.48	1.61
34	BA	1711	G	N9-C4	-10.58	1.29	1.38
34	BA	1069	U	C2'-C1'	-10.57	1.41	1.53
34	BA	1696	G	N9-C8	-10.57	1.30	1.37
41	BH	41	A	C1'-N9	-10.57	1.32	1.46
85	AA	1703	A	N9-C4	-10.57	1.31	1.37
34	BA	1175	G	C6-N1	-10.57	1.32	1.39
35	BB	1075	A	C2'-C1'	-10.57	1.41	1.53
34	BA	1173	C	P-O5'	-10.57	1.49	1.59
35	BB	1453	G	C2'-C1'	-10.57	1.41	1.53
85	AA	618	A	N9-C4	-10.57	1.31	1.37
34	BA	27	G	C6-N1	-10.57	1.32	1.39
34	BA	1540	C	C2-N3	10.57	1.44	1.35
35	BB	1033	U	C2-N3	-10.57	1.30	1.37
35	BB	1353	G	P-O5'	-10.57	1.49	1.59
85	AA	537	G	P-O5'	-10.57	1.49	1.59
85	AA	1560	A	N7-C5	-10.57	1.32	1.39
34	BA	1509	U	C2-N3	-10.56	1.30	1.37
34	BA	1542	A	N3-C4	-10.56	1.28	1.34
34	BA	1711	G	P-O5'	-10.56	1.49	1.59
41	BH	135	U	P-O5'	-10.56	1.49	1.59
85	AA	118	C	C2'-C1'	-10.56	1.41	1.53
85	AA	939	A	N9-C4	-10.56	1.31	1.37
34	BA	1694	C	O3'-P	-10.56	1.48	1.61
35	BB	1153	G	O3'-P	-10.56	1.48	1.61
85	AA	941	C	O3'-P	-10.56	1.48	1.61
35	BB	34	G	C6-N1	-10.55	1.32	1.39
85	AA	1209	U	P-O5'	-10.56	1.49	1.59
85	AA	1858	G	P-O5'	-10.56	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1080	U	O3'-P	-10.55	1.48	1.61
85	AA	880	A	C2'-C1'	-10.55	1.41	1.53
85	AA	1832	G	P-O5'	-10.55	1.49	1.59
85	AA	2199	G	C3'-C2'	-10.55	1.41	1.52
34	BA	695	A	C2'-C1'	-10.54	1.41	1.53
34	BA	1107	A	N9-C4	-10.54	1.31	1.37
85	AA	2174	G	C1'-N9	-10.54	1.32	1.46
40	BG	142	A	C1'-N9	-10.54	1.32	1.46
85	AA	366	A	N9-C4	-10.54	1.31	1.37
37	BD	81	C	C3'-C2'	-10.54	1.41	1.52
85	AA	725	G	P-O5'	-10.54	1.49	1.59
34	BA	438	A	N9-C4	-10.53	1.31	1.37
35	BB	9	G	P-O5'	-10.53	1.49	1.59
85	AA	180	A	N9-C4	-10.54	1.31	1.37
85	AA	1292	A	N9-C4	-10.53	1.31	1.37
35	BB	516	G	P-O5'	-10.53	1.49	1.59
85	AA	446	C	O3'-P	-10.53	1.48	1.61
85	AA	1167	G	C6-N1	-10.53	1.32	1.39
34	BA	1476	G	P-O5'	-10.53	1.49	1.59
34	BA	1603	A	N9-C4	-10.53	1.31	1.37
85	AA	1900	C	P-O5'	-10.53	1.49	1.59
35	BB	1534	U	P-O5'	-10.53	1.49	1.59
85	AA	766	G	O3'-P	-10.53	1.48	1.61
34	BA	465	A	N9-C4	-10.52	1.31	1.37
34	BA	529	A	N9-C4	-10.52	1.31	1.37
34	BA	933	U	P-O5'	-10.52	1.49	1.59
39	BF	15	U	O3'-P	-10.52	1.48	1.61
34	BA	3	G	C3'-C2'	-10.52	1.41	1.52
35	BB	1063	C	O3'-P	-10.52	1.48	1.61
35	BB	1520	C	P-O5'	-10.52	1.49	1.59
85	AA	160	A	P-O5'	-10.52	1.49	1.59
85	AA	974	U	C5'-C4'	10.52	1.64	1.51
36	BC	120	G	N7-C5	-10.51	1.32	1.39
40	BG	8	U	C2'-C1'	-10.51	1.41	1.53
34	BA	696	A	C2'-C1'	-10.51	1.41	1.53
34	BA	777	C	O3'-P	-10.51	1.48	1.61
37	BD	95	G	N9-C4	10.51	1.46	1.38
85	AA	418	G	P-O5'	-10.51	1.49	1.59
34	BA	1166	A	O3'-P	-10.51	1.48	1.61
35	BB	1326	U	C2'-C1'	-10.51	1.41	1.53
41	BH	29	G	C1'-N9	-10.51	1.32	1.46
85	AA	1292	A	O3'-P	-10.51	1.48	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	992	A	N7-C5	-10.50	1.32	1.39
34	BA	246	G	O3'-P	-10.50	1.48	1.61
85	AA	2056	C	P-O5'	-10.50	1.49	1.59
34	BA	1166	A	C3'-C2'	-10.50	1.41	1.52
34	BA	1203	G	N7-C5	-10.50	1.32	1.39
35	BB	541	U	C2-N3	-10.50	1.30	1.37
38	BE	26	G	O3'-P	-10.50	1.48	1.61
85	AA	789	A	C5'-C4'	10.50	1.64	1.51
38	BE	129	G	N7-C5	-10.50	1.32	1.39
34	BA	1262	A	P-O5'	-10.49	1.49	1.59
35	BB	52	G	P-O5'	-10.49	1.49	1.59
35	BB	709	G	C2'-C1'	-10.49	1.41	1.53
38	BE	124	G	N9-C4	-10.49	1.29	1.38
40	BG	181	C	C2'-C1'	-10.49	1.41	1.53
85	AA	878	U	P-O5'	-10.49	1.49	1.59
34	BA	1003	A	C1'-N9	-10.49	1.32	1.46
40	BG	178	G	O3'-P	-10.49	1.48	1.61
39	BF	16	C	C4'-C3'	10.49	1.64	1.53
40	BG	100	G	N7-C5	-10.49	1.32	1.39
85	AA	2187	G	C4'-C3'	-10.49	1.41	1.53
34	BA	196	A	C5-C4	-10.49	1.31	1.38
34	BA	796	G	N7-C5	-10.49	1.32	1.39
35	BB	1367	U	O3'-P	-10.49	1.48	1.61
35	BB	1441	C	O3'-P	-10.49	1.48	1.61
85	AA	34	G	O3'-P	-10.49	1.48	1.61
35	BB	66	G	O3'-P	-10.48	1.48	1.61
35	BB	1036	G	O3'-P	-10.48	1.48	1.61
85	AA	2172	A	O3'-P	-10.48	1.48	1.61
85	AA	2218	G	N7-C5	-10.48	1.32	1.39
34	BA	427	G	P-O5'	-10.48	1.49	1.59
34	BA	711	C	C5'-C4'	10.48	1.64	1.51
35	BB	1207	C	O3'-P	-10.48	1.48	1.61
38	BE	97	G	C3'-C2'	-10.48	1.41	1.52
85	AA	1264	U	O3'-P	-10.48	1.48	1.61
85	AA	2007	G	C2'-C1'	-10.48	1.41	1.53
34	BA	616	G	P-O5'	-10.48	1.49	1.59
34	BA	1046	G	P-O5'	-10.48	1.49	1.59
34	BA	308	C	P-O5'	-10.47	1.49	1.59
35	BB	647	U	C2-N3	-10.47	1.30	1.37
34	BA	1018	U	C4'-C3'	-10.47	1.41	1.53
35	BB	1039	A	N9-C4	-10.47	1.31	1.37
39	BF	53	G	O3'-P	-10.47	1.48	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	771	A	O3'-P	-10.47	1.48	1.61
85	AA	938	A	P-O5'	-10.47	1.49	1.59
34	BA	82	A	P-O5'	-10.47	1.49	1.59
34	BA	1218	G	N9-C4	10.47	1.46	1.38
35	BB	880	G	P-O5'	-10.47	1.49	1.59
38	BE	40	C	O3'-P	-10.47	1.48	1.61
85	AA	645	C	O3'-P	-10.47	1.48	1.61
34	BA	1175	G	P-O5'	-10.46	1.49	1.59
38	BE	60	C	O3'-P	-10.46	1.48	1.61
40	BG	89	A	O3'-P	-10.46	1.48	1.61
85	AA	428	G	N9-C4	-10.46	1.29	1.38
85	AA	960	G	N9-C8	-10.46	1.30	1.37
34	BA	326	A	N9-C4	-10.46	1.31	1.37
85	AA	768	C	O3'-P	-10.46	1.48	1.61
34	BA	504	A	O3'-P	-10.46	1.48	1.61
35	BB	1363	A	O3'-P	-10.46	1.48	1.61
36	BC	125	A	P-O5'	-10.46	1.49	1.59
38	BE	192	A	N7-C5	-10.46	1.32	1.39
34	BA	894	G	C1'-N9	-10.46	1.32	1.46
35	BB	1316	U	O3'-P	-10.46	1.48	1.61
40	BG	140	G	O3'-P	-10.46	1.48	1.61
85	AA	463	G	P-O5'	-10.46	1.49	1.59
85	AA	1288	A	P-O5'	-10.45	1.49	1.59
34	BA	370	U	O3'-P	-10.45	1.48	1.61
34	BA	1674	G	O3'-P	-10.45	1.48	1.61
35	BB	651	G	N9-C8	-10.45	1.30	1.37
35	BB	1190	U	P-O5'	-10.45	1.49	1.59
36	BC	37	U	C2'-C1'	-10.45	1.41	1.53
85	AA	96	C	P-O5'	-10.45	1.49	1.59
34	BA	352	G	O3'-P	-10.45	1.48	1.61
85	AA	396	U	C2-N3	-10.45	1.30	1.37
85	AA	496	C	C2-N3	-10.45	1.27	1.35
34	BA	414	A	N9-C4	-10.45	1.31	1.37
35	BB	633	C	O3'-P	-10.44	1.48	1.61
40	BG	33	G	C2'-C1'	-10.45	1.41	1.53
34	BA	1034	U	C2-N3	-10.44	1.30	1.37
34	BA	1795	A	N9-C4	-10.44	1.31	1.37
35	BB	1372	G	P-O5'	-10.44	1.49	1.59
37	BD	47	U	O3'-P	-10.44	1.48	1.61
85	AA	2086	C	O3'-P	-10.44	1.48	1.61
34	BA	57	A	N3-C4	-10.44	1.28	1.34
36	BC	141	C	P-O5'	-10.44	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	649	C	P-O5'	-10.44	1.49	1.59
40	BG	9	G	C3'-C2'	-10.44	1.41	1.52
35	BB	1512	C	P-O5'	-10.44	1.49	1.59
35	BB	77	A	N9-C4	-10.43	1.31	1.37
85	AA	860	C	C3'-C2'	-10.43	1.41	1.52
35	BB	120	C	C3'-C2'	-10.43	1.41	1.52
34	BA	78	U	C2'-C1'	-10.43	1.41	1.53
85	AA	63	G	O3'-P	-10.43	1.48	1.61
85	AA	424	A	C2'-C1'	-10.43	1.41	1.53
85	AA	743	C	C2'-C1'	-10.43	1.41	1.53
85	AA	1160	U	P-O5'	-10.43	1.49	1.59
85	AA	2174	G	P-O5'	-10.43	1.49	1.59
34	BA	1485	U	O3'-P	-10.43	1.48	1.61
40	BG	15	G	O3'-P	-10.43	1.48	1.61
85	AA	385	A	C1'-N9	-10.43	1.32	1.46
35	BB	1054	G	O3'-P	-10.42	1.48	1.61
85	AA	1263	G	N9-C4	-10.42	1.29	1.38
34	BA	949	C	O3'-P	-10.42	1.48	1.61
36	BC	27	U	P-O5'	-10.42	1.49	1.59
34	BA	1801	G	C1'-N9	-10.42	1.32	1.46
34	BA	535	G	N9-C4	10.42	1.46	1.38
34	BA	1680	G	N7-C5	-10.42	1.32	1.39
85	AA	1730	C	O3'-P	-10.42	1.48	1.61
34	BA	80	U	O3'-P	-10.41	1.48	1.61
35	BB	1427	A	O3'-P	-10.41	1.48	1.61
41	BH	104	U	C1'-N1	-10.41	1.32	1.46
40	BG	89	A	P-O5'	-10.41	1.49	1.59
34	BA	238	C	N1-C6	-10.41	1.30	1.37
34	BA	800	G	N7-C5	-10.41	1.33	1.39
34	BA	996	U	C2-N3	-10.41	1.30	1.37
35	BB	375	G	C1'-N9	-10.41	1.32	1.46
34	BA	146	G	C2'-C1'	-10.41	1.42	1.53
38	BE	56	U	P-O5'	-10.41	1.49	1.59
34	BA	894	G	C6-N1	-10.40	1.32	1.39
35	BB	404	A	P-O5'	-10.40	1.49	1.59
35	BB	1017	U	C2'-C1'	-10.40	1.42	1.53
35	BB	1450	G	P-O5'	-10.40	1.49	1.59
85	AA	2058	C	C2'-C1'	-10.40	1.42	1.53
34	BA	28	C	O3'-P	-10.40	1.48	1.61
34	BA	502	U	C3'-C2'	-10.40	1.41	1.52
35	BB	1474	A	C4'-C3'	10.40	1.64	1.53
36	BC	44	A	P-O5'	-10.40	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	750	A	N9-C4	-10.40	1.31	1.37
85	AA	1695	G	N9-C4	-10.40	1.29	1.38
34	BA	1335	A	O3'-P	-10.40	1.48	1.61
34	BA	1639	U	O3'-P	-10.40	1.48	1.61
35	BB	15	C	C2-N3	-10.40	1.27	1.35
35	BB	434	A	P-O5'	-10.40	1.49	1.59
35	BB	1254	G	O4'-C1'	-10.40	1.28	1.41
85	AA	420	C	C3'-C2'	-10.40	1.41	1.52
34	BA	1656	A	C5-C4	-10.39	1.31	1.38
85	AA	381	A	P-O5'	-10.39	1.49	1.59
85	AA	1483	A	C2'-C1'	-10.39	1.42	1.53
34	BA	331	G	C6-N1	-10.39	1.32	1.39
37	BD	91	U	C3'-C2'	-10.39	1.41	1.52
85	AA	384	C	O3'-P	-10.39	1.48	1.61
34	BA	247	U	C3'-C2'	10.39	1.64	1.52
34	BA	1714	A	N9-C4	-10.39	1.31	1.37
34	BA	1782	C	C2'-C1'	-10.39	1.42	1.53
41	BH	29	G	C8-N7	-10.39	1.24	1.30
35	BB	568	A	N9-C4	-10.39	1.31	1.37
38	BE	18	U	C2-N3	-10.39	1.30	1.37
85	AA	507	C	C2-N3	-10.39	1.27	1.35
85	AA	1472	G	P-O5'	-10.39	1.49	1.59
85	AA	1516	A	C3'-C2'	-10.39	1.41	1.52
85	AA	1955	U	P-O5'	-10.39	1.49	1.59
35	BB	1423	U	P-O5'	-10.38	1.49	1.59
38	BE	177	U	P-O5'	-10.38	1.49	1.59
85	AA	1483	A	N9-C4	-10.38	1.31	1.37
40	BG	38	A	P-O5'	-10.38	1.49	1.59
85	AA	12	U	P-O5'	-10.38	1.49	1.59
35	BB	1191	G	P-O5'	-10.38	1.49	1.59
36	BC	4	G	O3'-P	-10.38	1.48	1.61
86	AB	69	G	N9-C4	-10.38	1.29	1.38
85	AA	882	C	O3'-P	-10.38	1.48	1.61
85	AA	1797	U	P-O5'	-10.38	1.49	1.59
34	BA	513	U	P-O5'	-10.38	1.49	1.59
85	AA	411	U	C2-N3	-10.38	1.30	1.37
34	BA	1204	U	C2-N3	-10.38	1.30	1.37
35	BB	1237	C	C2-N3	-10.38	1.27	1.35
34	BA	336	A	O3'-P	-10.37	1.48	1.61
35	BB	1239	A	P-O5'	-10.37	1.49	1.59
85	AA	1257	A	C1'-N9	-10.38	1.32	1.46
85	AA	1682	U	O3'-P	-10.38	1.48	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	111	U	C3'-C2'	-10.37	1.41	1.52
34	BA	1591	G	N9-C8	-10.37	1.30	1.37
34	BA	1733	G	P-O5'	-10.37	1.49	1.59
35	BB	121	A	C3'-C2'	-10.37	1.41	1.52
85	AA	81	A	P-O5'	-10.37	1.49	1.59
85	AA	2173	A	P-O5'	-10.37	1.49	1.59
34	BA	780	U	C5'-C4'	10.37	1.63	1.51
85	AA	1215	A	P-O5'	-10.37	1.49	1.59
34	BA	679	U	C2-N3	-10.37	1.30	1.37
34	BA	1542	A	C1'-N9	-10.37	1.32	1.46
36	BC	2	A	P-O5'	-10.37	1.49	1.59
35	BB	688	U	P-O5'	-10.36	1.49	1.59
36	BC	101	U	P-O5'	-10.37	1.49	1.59
34	BA	1411	C	O3'-P	-10.36	1.48	1.61
37	BD	23	A	C2'-C1'	-10.36	1.42	1.53
38	BE	6	A	P-O5'	-10.36	1.49	1.59
34	BA	1599	A	C2'-C1'	-10.36	1.42	1.53
35	BB	119	G	C1'-N9	-10.36	1.32	1.46
35	BB	1432	U	C2-N3	-10.36	1.30	1.37
85	AA	1252	A	O3'-P	-10.36	1.48	1.61
34	BA	1439	C	P-O5'	-10.36	1.49	1.59
40	BG	149	U	O3'-P	-10.36	1.48	1.61
35	BB	787	A	P-O5'	-10.36	1.49	1.59
35	BB	1415	G	N7-C5	-10.36	1.33	1.39
40	BG	30	C	O3'-P	-10.36	1.48	1.61
85	AA	31	C	C2'-C1'	-10.36	1.42	1.53
34	BA	1501	U	C2'-C1'	-10.35	1.42	1.53
35	BB	1188	A	P-O5'	-10.35	1.49	1.59
35	BB	1370	G	C6-N1	-10.35	1.32	1.39
35	BB	1397	G	P-O5'	-10.35	1.49	1.59
36	BC	55	U	O3'-P	-10.35	1.48	1.61
40	BG	17	A	C2'-C1'	-10.35	1.42	1.53
34	BA	426	A	O3'-P	-10.35	1.48	1.61
34	BA	538	G	C2-N2	-10.35	1.24	1.34
85	AA	54	C	P-O5'	-10.35	1.49	1.59
35	BB	479	U	O3'-P	-10.35	1.48	1.61
36	BC	113	G	N7-C5	-10.35	1.33	1.39
85	AA	70	U	O3'-P	-10.35	1.48	1.61
85	AA	1490	A	N3-C4	-10.35	1.28	1.34
40	BG	163	G	N7-C5	-10.35	1.33	1.39
85	AA	766	G	P-O5'	-10.35	1.49	1.59
34	BA	909	G	N9-C4	-10.34	1.29	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	977	G	P-O5'	-10.34	1.49	1.59
35	BB	608	A	N9-C4	-10.34	1.31	1.37
35	BB	1023	G	N9-C4	-10.34	1.29	1.38
85	AA	404	A	O3'-P	-10.34	1.48	1.61
35	BB	1159	U	C2-N3	-10.34	1.30	1.37
35	BB	1377	A	P-O5'	-10.34	1.49	1.59
40	BG	158	A	N9-C4	-10.34	1.31	1.37
85	AA	362	G	O3'-P	-10.34	1.48	1.61
34	BA	663	U	P-O5'	-10.34	1.49	1.59
34	BA	979	G	N7-C5	-10.34	1.33	1.39
85	AA	363	A	O3'-P	-10.34	1.48	1.61
34	BA	1152	A	N9-C4	-10.34	1.31	1.37
34	BA	1807	G	C6-N1	-10.34	1.32	1.39
35	BB	1039	A	P-O5'	-10.34	1.49	1.59
85	AA	377	U	P-O5'	-10.34	1.49	1.59
85	AA	764	U	P-O5'	-10.34	1.49	1.59
34	BA	214	A	C1'-N9	-10.33	1.32	1.46
35	BB	778	A	C3'-C2'	-10.33	1.41	1.52
85	AA	363	A	C3'-C2'	-10.33	1.41	1.52
35	BB	416	U	N1-C2	-10.33	1.29	1.38
34	BA	859	G	N9-C4	-10.33	1.29	1.38
35	BB	836	U	O3'-P	-10.33	1.48	1.61
36	BC	15	G	N9-C4	-10.33	1.29	1.38
36	BC	55	U	P-O5'	-10.33	1.49	1.59
41	BH	110	C	C3'-C2'	-10.33	1.41	1.52
34	BA	596	G	C5'-C4'	10.32	1.63	1.51
34	BA	604	G	O3'-P	-10.32	1.48	1.61
34	BA	1706	A	C2'-C1'	-10.32	1.42	1.53
85	AA	529	G	O3'-P	-10.32	1.48	1.61
85	AA	985	G	P-O5'	-10.32	1.49	1.59
85	AA	362	G	C2'-C1'	-10.32	1.42	1.53
85	AA	1253	G	C2'-C1'	-10.32	1.42	1.53
85	AA	1670	U	P-O5'	-10.32	1.49	1.59
85	AA	2174	G	O3'-P	-10.32	1.48	1.61
34	BA	1338	G	N9-C4	-10.32	1.29	1.38
35	BB	610	U	P-O5'	-10.32	1.49	1.59
40	BG	94	G	N9-C4	-10.32	1.29	1.38
85	AA	259	A	N9-C4	-10.32	1.31	1.37
85	AA	466	A	N3-C4	-10.32	1.28	1.34
34	BA	1721	U	O4'-C1'	-10.32	1.28	1.41
36	BC	122	A	O3'-P	-10.32	1.48	1.61
34	BA	763	U	P-O5'	-10.32	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	151	A	O3'-P	-10.32	1.48	1.61
34	BA	992	A	C1'-N9	-10.31	1.32	1.46
34	BA	1065	U	C3'-C2'	-10.31	1.41	1.52
35	BB	1060	U	O3'-P	-10.31	1.48	1.61
85	AA	1515	A	C2'-C1'	-10.31	1.42	1.53
85	AA	2126	U	C2'-C1'	-10.31	1.42	1.53
34	BA	1711	G	C3'-C2'	-10.31	1.41	1.52
34	BA	1068	C	P-O5'	-10.31	1.49	1.59
85	AA	879	G	N9-C4	-10.31	1.29	1.38
85	AA	1578	G	C5'-C4'	10.31	1.63	1.51
34	BA	1103	G	O3'-P	-10.30	1.48	1.61
34	BA	1610	A	P-O5'	-10.30	1.49	1.59
85	AA	1892	G	P-O5'	-10.30	1.49	1.59
34	BA	1807	G	N7-C5	-10.30	1.33	1.39
40	BG	39	A	O3'-P	-10.30	1.48	1.61
40	BG	65	C	O3'-P	-10.30	1.48	1.61
40	BG	102	G	C6-N1	-10.30	1.32	1.39
34	BA	1464	C	P-O5'	-10.30	1.49	1.59
35	BB	572	G	N9-C8	-10.30	1.30	1.37
34	BA	33	C	O3'-P	-10.30	1.48	1.61
34	BA	98	A	C1'-N9	-10.30	1.32	1.46
39	BF	57	C	N1-C6	-10.30	1.30	1.37
34	BA	13	U	O3'-P	-10.30	1.48	1.61
34	BA	237	A	N9-C4	-10.29	1.31	1.37
34	BA	1006	G	C6-N1	-10.29	1.32	1.39
85	AA	531	G	C2'-C1'	-10.29	1.42	1.53
34	BA	965	A	O3'-P	-10.29	1.48	1.61
35	BB	505	G	C6-N1	-10.29	1.32	1.39
40	BG	14	G	C2'-C1'	-10.29	1.42	1.53
40	BG	137	G	O3'-P	-10.29	1.48	1.61
85	AA	17	C	P-O5'	-10.29	1.49	1.59
36	BC	149	A	O3'-P	-10.29	1.48	1.61
35	BB	1426	G	N1-C2	-10.29	1.29	1.37
37	BD	67	C	C2'-C1'	-10.29	1.42	1.53
41	BH	45	G	N9-C4	-10.29	1.29	1.38
85	AA	641	A	O3'-P	-10.28	1.48	1.61
34	BA	413	A	C2'-C1'	-10.28	1.42	1.53
85	AA	8	U	O3'-P	-10.28	1.48	1.61
85	AA	1471	G	N9-C4	-10.28	1.29	1.38
34	BA	1060	C	O3'-P	-10.28	1.48	1.61
85	AA	2174	G	C3'-C2'	-10.28	1.41	1.52
35	BB	802	G	C6-N1	-10.28	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1531	G	P-O5'	-10.28	1.49	1.59
85	AA	1265	C	P-O5'	-10.28	1.49	1.59
36	BC	69	U	O3'-P	-10.28	1.48	1.61
85	AA	497	G	O3'-P	-10.28	1.48	1.61
85	AA	1503	G	C1'-N9	-10.28	1.32	1.46
85	AA	1814	U	C2'-C1'	-10.28	1.42	1.53
35	BB	93	A	O3'-P	-10.27	1.48	1.61
85	AA	1494	C	P-O5'	-10.27	1.49	1.59
34	BA	139	U	C2-N3	-10.27	1.30	1.37
34	BA	440	A	C1'-N9	-10.27	1.32	1.46
34	BA	543	A	N9-C4	-10.27	1.31	1.37
34	BA	948	C	P-O5'	-10.27	1.49	1.59
34	BA	1432	C	P-O5'	-10.27	1.49	1.59
85	AA	32	U	P-O5'	-10.27	1.49	1.59
35	BB	828	G	C2'-C1'	-10.27	1.42	1.53
34	BA	875	G	C1'-N9	-10.27	1.32	1.46
34	BA	1546	C	C2'-C1'	-10.27	1.42	1.53
34	BA	1566	G	P-O5'	-10.27	1.49	1.59
34	BA	1609	U	C2-N3	-10.27	1.30	1.37
35	BB	10	C	P-O5'	-10.27	1.49	1.59
40	BG	83	U	O3'-P	-10.27	1.48	1.61
34	BA	384	U	C3'-C2'	-10.27	1.41	1.52
85	AA	1682	U	P-O5'	-10.27	1.49	1.59
34	BA	452	A	C1'-N9	-10.27	1.32	1.46
38	BE	63	C	O3'-P	-10.27	1.48	1.61
85	AA	292	C	C2'-C1'	-10.26	1.42	1.53
34	BA	56	G	O3'-P	-10.26	1.48	1.61
34	BA	372	U	C3'-C2'	-10.26	1.41	1.52
41	BH	127	A	N9-C4	-10.26	1.31	1.37
34	BA	65	A	C1'-N9	-10.26	1.32	1.46
34	BA	108	A	O3'-P	-10.26	1.48	1.61
34	BA	20	A	C2'-C1'	-10.26	1.42	1.53
34	BA	128	C	P-O5'	-10.26	1.49	1.59
35	BB	996	G	C1'-N9	-10.26	1.32	1.46
35	BB	1202	G	N9-C4	10.26	1.46	1.38
34	BA	1803	A	N9-C4	-10.26	1.31	1.37
35	BB	1178	A	N9-C4	-10.26	1.31	1.37
34	BA	38	G	C2'-C1'	-10.26	1.42	1.53
34	BA	975	A	C3'-C2'	-10.26	1.41	1.52
40	BG	14	G	C5-C4	-10.26	1.31	1.38
85	AA	596	A	P-O5'	-10.26	1.49	1.59
85	AA	1227	A	N9-C4	-10.26	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	BF	17	U	P-O5'	-10.25	1.49	1.59
41	BH	29	G	C2'-C1'	-10.25	1.42	1.53
35	BB	629	C	P-O5'	-10.25	1.49	1.59
35	BB	1117	G	O3'-P	-10.25	1.48	1.61
35	BB	1266	A	O3'-P	-10.25	1.48	1.61
34	BA	1211	G	C8-N7	-10.25	1.24	1.30
34	BA	514	U	C2'-C1'	-10.25	1.42	1.53
34	BA	950	C	O3'-P	-10.24	1.48	1.61
34	BA	1702	G	P-O5'	-10.24	1.49	1.59
85	AA	1536	C	C5'-C4'	10.24	1.63	1.51
85	AA	2209	U	P-O5'	-10.24	1.49	1.59
34	BA	266	G	C6-N1	-10.24	1.32	1.39
34	BA	1283	U	C2'-C1'	-10.24	1.42	1.53
85	AA	1244	A	N9-C4	-10.24	1.31	1.37
85	AA	1371	C	O3'-P	-10.24	1.48	1.61
35	BB	1383	C	N1-C6	-10.24	1.31	1.37
36	BC	49	G	C6-N1	-10.24	1.32	1.39
37	BD	71	G	C1'-N9	-10.24	1.32	1.46
35	BB	428	G	P-O5'	-10.23	1.49	1.59
35	BB	1157	G	O3'-P	-10.23	1.48	1.61
38	BE	180	G	P-O5'	-10.23	1.49	1.59
38	BE	116	U	O3'-P	-10.23	1.48	1.61
34	BA	788	C	C3'-C2'	-10.23	1.41	1.52
34	BA	1435	A	C1'-N9	-10.23	1.32	1.46
34	BA	1695	G	O3'-P	-10.23	1.48	1.61
38	BE	70	C	P-O5'	-10.23	1.49	1.59
39	BF	47	C	P-O5'	-10.23	1.49	1.59
85	AA	11	A	P-O5'	-10.23	1.49	1.59
85	AA	1502	A	N7-C5	-10.23	1.33	1.39
34	BA	24	C	O3'-P	-10.22	1.48	1.61
34	BA	259	C	P-O5'	-10.22	1.49	1.59
34	BA	1573	C	C2-N3	-10.22	1.27	1.35
85	AA	1102	C	O3'-P	-10.22	1.48	1.61
86	AB	16	U	C5'-C4'	10.22	1.63	1.51
34	BA	1845	G	N3-C4	-10.22	1.28	1.35
35	BB	465	C	O3'-P	-10.22	1.48	1.61
85	AA	1441	G	P-O5'	-10.22	1.49	1.59
34	BA	386	A	N9-C4	-10.22	1.31	1.37
35	BB	417	A	N9-C4	-10.22	1.31	1.37
34	BA	890	G	C1'-N9	-10.22	1.32	1.46
35	BB	995	C	O3'-P	-10.22	1.48	1.61
35	BB	1271	A	P-O5'	-10.22	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	131	C	P-O5'	-10.22	1.49	1.59
85	AA	508	C	C2'-C1'	-10.22	1.42	1.53
35	BB	443	A	N9-C4	-10.21	1.31	1.37
85	AA	1197	U	C2-N3	-10.22	1.30	1.37
35	BB	688	U	O3'-P	-10.21	1.48	1.61
85	AA	2133	A	C4'-C3'	-10.21	1.42	1.53
34	BA	1154	U	P-O5'	-10.21	1.49	1.59
85	AA	1148	G	C2'-C1'	-10.21	1.42	1.53
34	BA	1071	G	C3'-C2'	-10.21	1.41	1.52
39	BF	6	C	C3'-C2'	-10.21	1.41	1.52
40	BG	138	C	P-O5'	-10.21	1.49	1.59
85	AA	157	G	C1'-N9	-10.21	1.32	1.46
85	AA	1736	U	P-O5'	-10.21	1.49	1.59
34	BA	389	U	C2-N3	-10.21	1.30	1.37
34	BA	896	U	C2-N3	10.21	1.44	1.37
35	BB	1399	A	N7-C5	-10.21	1.33	1.39
34	BA	1025	A	C5-C4	-10.21	1.31	1.38
34	BA	269	G	C2-N2	-10.21	1.24	1.34
34	BA	1314	A	N9-C4	-10.21	1.31	1.37
35	BB	103	C	P-O5'	-10.20	1.49	1.59
34	BA	1434	U	P-O5'	-10.20	1.49	1.59
85	AA	659	A	C2'-C1'	-10.20	1.42	1.53
34	BA	1724	G	C3'-C2'	-10.20	1.41	1.52
34	BA	1739	G	C2-N3	-10.20	1.24	1.32
35	BB	816	U	N1-C2	10.20	1.47	1.38
85	AA	509	C	P-O5'	-10.20	1.49	1.59
34	BA	330	A	O3'-P	-10.20	1.49	1.61
38	BE	21	C	N1-C6	-10.20	1.31	1.37
85	AA	2082	C	C4-C5	-10.20	1.34	1.43
34	BA	897	U	O3'-P	-10.19	1.49	1.61
34	BA	1167	A	O3'-P	-10.19	1.49	1.61
85	AA	1140	G	C2'-C1'	-10.19	1.42	1.53
37	BD	10	C	O3'-P	-10.19	1.49	1.61
35	BB	8	U	O3'-P	-10.19	1.49	1.61
36	BC	53	A	C1'-N9	-10.19	1.32	1.46
37	BD	60	C	O3'-P	-10.19	1.49	1.61
35	BB	648	G	C4'-C3'	-10.19	1.42	1.53
36	BC	145	G	C6-N1	-10.19	1.32	1.39
40	BG	109	C	O3'-P	-10.19	1.49	1.61
85	AA	475	A	C1'-N9	-10.19	1.32	1.46
35	BB	100	A	N9-C4	-10.18	1.31	1.37
35	BB	572	G	N9-C4	-10.18	1.29	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	665	A	C2'-C1'	-10.18	1.42	1.53
85	AA	1220	A	O3'-P	-10.18	1.49	1.61
85	AA	1892	G	O3'-P	-10.18	1.49	1.61
34	BA	321	G	C8-N7	-10.18	1.24	1.30
34	BA	608	G	O4'-C1'	-10.18	1.28	1.41
41	BH	36	C	N1-C6	-10.18	1.31	1.37
34	BA	905	A	N9-C4	-10.18	1.31	1.37
85	AA	760	U	C3'-C2'	-10.18	1.41	1.52
85	AA	1991	C	C4-C5	-10.18	1.34	1.43
37	BD	81	C	P-O5'	-10.18	1.49	1.59
85	AA	640	C	P-O5'	-10.18	1.49	1.59
85	AA	2239	A	N9-C4	-10.18	1.31	1.37
37	BD	74	A	O3'-P	-10.17	1.49	1.61
34	BA	882	G	P-O5'	-10.17	1.49	1.59
34	BA	973	U	O3'-P	-10.17	1.49	1.61
34	BA	1142	C	O3'-P	-10.17	1.49	1.61
34	BA	475	A	C1'-N9	-10.17	1.32	1.46
34	BA	1682	A	O3'-P	-10.17	1.49	1.61
35	BB	1061	G	C6-N1	-10.17	1.32	1.39
37	BD	86	A	C3'-C2'	-10.17	1.41	1.52
35	BB	43	G	C2'-C1'	-10.16	1.42	1.53
35	BB	1019	C	C2'-C1'	-10.16	1.42	1.53
38	BE	200	A	O3'-P	-10.16	1.49	1.61
41	BH	112	U	P-O5'	-10.16	1.49	1.59
34	BA	1220	C	C2-N3	-10.16	1.27	1.35
35	BB	1064	U	P-O5'	-10.16	1.49	1.59
35	BB	1199	A	O3'-P	-10.16	1.49	1.61
35	BB	1211	C	O3'-P	-10.16	1.49	1.61
41	BH	19	G	P-O5'	-10.16	1.49	1.59
85	AA	2069	A	C2'-C1'	-10.16	1.42	1.53
34	BA	125	G	C6-N1	-10.16	1.32	1.39
34	BA	807	U	C2'-C1'	-10.16	1.42	1.53
35	BB	625	A	P-O5'	-10.16	1.49	1.59
35	BB	1384	A	C2'-C1'	-10.16	1.42	1.53
85	AA	117	C	C3'-C2'	-10.16	1.41	1.52
85	AA	1491	G	N9-C4	-10.16	1.29	1.38
85	AA	1671	G	P-O5'	-10.16	1.49	1.59
36	BC	107	C	C2-N3	-10.15	1.27	1.35
36	BC	149	A	P-O5'	-10.15	1.49	1.59
34	BA	1010	C	C3'-C2'	-10.15	1.41	1.52
35	BB	441	G	N9-C4	-10.15	1.29	1.38
35	BB	805	G	O3'-P	-10.15	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1146	C	P-O5'	-10.15	1.49	1.59
85	AA	1926	A	C2'-C1'	-10.15	1.42	1.53
34	BA	724	A	O3'-P	-10.15	1.49	1.61
38	BE	25	U	C3'-C2'	-10.14	1.41	1.52
38	BE	101	C	C2'-C1'	-10.14	1.42	1.53
38	BE	192	A	C2'-C1'	-10.14	1.42	1.53
38	BE	26	G	C4'-O4'	-10.14	1.32	1.45
39	BF	6	C	O3'-P	-10.14	1.49	1.61
35	BB	74	U	O3'-P	-10.14	1.49	1.61
85	AA	532	G	N9-C4	-10.14	1.29	1.38
85	AA	1973	G	O3'-P	-10.14	1.49	1.61
35	BB	431	U	O3'-P	-10.14	1.49	1.61
35	BB	1340	U	C2'-C1'	-10.14	1.42	1.53
35	BB	1392	A	P-O5'	-10.14	1.49	1.59
40	BG	134	U	O3'-P	-10.14	1.49	1.61
34	BA	461	A	N7-C5	-10.14	1.33	1.39
38	BE	176	G	O3'-P	-10.13	1.49	1.61
85	AA	1218	C	P-O5'	-10.13	1.49	1.59
34	BA	430	A	N9-C4	-10.13	1.31	1.37
34	BA	1022	C	O3'-P	-10.13	1.49	1.61
35	BB	1292	G	P-O5'	-10.13	1.49	1.59
85	AA	1553	G	P-O5'	-10.13	1.49	1.59
34	BA	479	U	O3'-P	-10.13	1.49	1.61
34	BA	1696	G	C6-N1	-10.13	1.32	1.39
36	BC	104	A	P-O5'	-10.13	1.49	1.59
38	BE	110	U	P-O5'	-10.13	1.49	1.59
34	BA	1663	U	O3'-P	-10.13	1.49	1.61
35	BB	1217	C	O3'-P	-10.13	1.49	1.61
36	BC	52	A	O3'-P	-10.13	1.49	1.61
38	BE	158	U	O3'-P	-10.12	1.49	1.61
34	BA	1696	G	C3'-C2'	-10.12	1.41	1.52
37	BD	6	C	O3'-P	-10.12	1.49	1.61
37	BD	78	C	C2-N3	-10.12	1.27	1.35
85	AA	95	U	C2-N3	-10.12	1.30	1.37
34	BA	322	U	O3'-P	-10.12	1.49	1.61
34	BA	415	C	P-O5'	-10.12	1.49	1.59
34	BA	1694	C	P-O5'	-10.12	1.49	1.59
34	BA	1706	A	N3-C4	-10.12	1.28	1.34
35	BB	1151	A	O3'-P	-10.12	1.49	1.61
40	BG	25	G	C2'-C1'	-10.12	1.42	1.53
41	BH	33	G	C1'-N9	-10.12	1.32	1.46
85	AA	618	A	C2'-C1'	-10.12	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1979	A	O3'-P	-10.12	1.49	1.61
34	BA	42	A	O3'-P	-10.12	1.49	1.61
38	BE	60	C	C2-N3	-10.12	1.27	1.35
85	AA	535	G	N9-C4	-10.12	1.29	1.38
85	AA	572	G	C2'-C1'	-10.12	1.42	1.53
34	BA	772	G	N9-C8	-10.11	1.30	1.37
40	BG	59	G	P-O5'	-10.11	1.49	1.59
85	AA	675	A	O3'-P	-10.11	1.49	1.61
85	AA	1671	G	O3'-P	-10.11	1.49	1.61
85	AA	396	U	O3'-P	-10.11	1.49	1.61
85	AA	2228	G	C2'-C1'	-10.11	1.42	1.53
40	BG	58	G	C4'-C3'	-10.11	1.42	1.53
85	AA	373	G	O3'-P	-10.11	1.49	1.61
85	AA	2129	U	C2'-C1'	-10.11	1.42	1.53
36	BC	17	U	C3'-C2'	-10.11	1.41	1.52
85	AA	1673	A	P-O5'	-10.11	1.49	1.59
85	AA	2213	A	C2'-C1'	-10.11	1.42	1.53
34	BA	1088	G	N9-C4	-10.11	1.29	1.38
85	AA	1890	C	C2'-C1'	-10.11	1.42	1.53
35	BB	434	A	N9-C4	-10.11	1.31	1.37
38	BE	130	G	P-O5'	-10.11	1.49	1.59
34	BA	49	A	O3'-P	-10.10	1.49	1.61
34	BA	543	A	C2'-C1'	-10.10	1.42	1.53
34	BA	912	G	P-O5'	-10.10	1.49	1.59
34	BA	1441	C	O3'-P	-10.10	1.49	1.61
34	BA	1594	G	C2'-C1'	-10.10	1.42	1.53
36	BC	130	U	P-O5'	-10.10	1.49	1.59
34	BA	62	A	O3'-P	-10.10	1.49	1.61
34	BA	894	G	C2-N2	-10.10	1.24	1.34
34	BA	1092	U	P-O5'	-10.10	1.49	1.59
35	BB	1443	C	C2'-C1'	-10.10	1.42	1.53
38	BE	116	U	P-O5'	-10.10	1.49	1.59
40	BG	70	C	C2-N3	-10.10	1.27	1.35
85	AA	1125	G	C1'-N9	-10.10	1.32	1.46
34	BA	277	A	P-O5'	-10.10	1.49	1.59
34	BA	1518	A	C1'-N9	-10.10	1.32	1.46
35	BB	642	G	C6-N1	-10.10	1.32	1.39
35	BB	1401	G	P-O5'	-10.10	1.49	1.59
35	BB	587	A	C2'-C1'	-10.09	1.42	1.53
85	AA	1217	U	C2'-C1'	-10.09	1.42	1.53
35	BB	1170	U	P-O5'	-10.09	1.49	1.59
38	BE	94	U	C3'-C2'	-10.09	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	83	G	N7-C5	-10.09	1.33	1.39
34	BA	1462	U	C3'-C2'	-10.09	1.41	1.52
85	AA	1506	U	O3'-P	-10.09	1.49	1.61
34	BA	366	G	C6-N1	-10.09	1.32	1.39
34	BA	909	G	C4'-C3'	-10.09	1.42	1.53
85	AA	1586	C	C3'-C2'	-10.09	1.41	1.52
35	BB	1015	U	C2'-C1'	-10.09	1.42	1.53
38	BE	27	A	C2'-C1'	-10.09	1.42	1.53
34	BA	1011	G	C2-N3	-10.08	1.24	1.32
35	BB	1507	U	O3'-P	-10.08	1.49	1.61
34	BA	386	A	N7-C5	-10.08	1.33	1.39
34	BA	98	A	C2'-C1'	-10.08	1.42	1.53
34	BA	1253	G	C6-N1	-10.08	1.32	1.39
34	BA	1676	A	C2'-C1'	-10.08	1.42	1.53
85	AA	131	C	P-O5'	-10.08	1.49	1.59
85	AA	579	U	C2'-C1'	-10.08	1.42	1.53
85	AA	817	G	O3'-P	-10.07	1.49	1.61
34	BA	84	U	P-O5'	-10.07	1.49	1.59
36	BC	166	G	P-O5'	-10.07	1.49	1.59
85	AA	1001	G	P-O5'	-10.07	1.49	1.59
34	BA	742	C	C2-N3	-10.07	1.27	1.35
34	BA	1837	U	P-O5'	-10.07	1.49	1.59
38	BE	87	U	P-O5'	-10.07	1.49	1.59
85	AA	2037	A	N9-C4	-10.07	1.31	1.37
34	BA	106	U	O3'-P	-10.07	1.49	1.61
35	BB	1342	C	C2'-C1'	-10.07	1.42	1.53
34	BA	269	G	N3-C4	-10.07	1.28	1.35
34	BA	860	G	O3'-P	-10.07	1.49	1.61
35	BB	489	A	N9-C4	-10.07	1.31	1.37
35	BB	698	C	O3'-P	-10.07	1.49	1.61
85	AA	1211	C	C2'-C1'	-10.07	1.42	1.53
34	BA	132	U	C2'-C1'	-10.06	1.42	1.53
34	BA	748	C	C3'-C2'	-10.06	1.41	1.52
34	BA	1789	A	N9-C4	-10.06	1.31	1.37
39	BF	34	C	C2'-C1'	-10.06	1.42	1.53
85	AA	107	A	N9-C8	-10.06	1.29	1.37
34	BA	1463	U	O3'-P	-10.06	1.49	1.61
36	BC	31	A	N9-C4	-10.06	1.31	1.37
85	AA	2204	A	C2'-C1'	-10.06	1.42	1.53
85	AA	2149	C	P-O5'	-10.06	1.49	1.59
34	BA	1572	G	O3'-P	-10.05	1.49	1.61
35	BB	85	A	N9-C4	-10.06	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2108	C	C2'-C1'	-10.06	1.42	1.53
34	BA	1164	C	C2'-C1'	-10.05	1.42	1.53
34	BA	1519	G	P-O5'	-10.05	1.49	1.59
35	BB	416	U	C3'-C2'	-10.05	1.41	1.52
85	AA	1461	A	P-O5'	-10.05	1.49	1.59
34	BA	784	C	C2'-C1'	-10.05	1.42	1.53
35	BB	1214	U	O3'-P	-10.05	1.49	1.61
34	BA	1501	U	C2-N3	-10.05	1.30	1.37
35	BB	680	A	C3'-C2'	-10.05	1.41	1.52
35	BB	1470	G	C5'-C4'	10.05	1.63	1.51
34	BA	926	A	C3'-C2'	-10.05	1.41	1.52
41	BH	118	U	O3'-P	-10.05	1.49	1.61
85	AA	366	A	O3'-P	-10.05	1.49	1.61
85	AA	1495	G	C3'-C2'	-10.05	1.41	1.52
34	BA	436	U	O3'-P	-10.05	1.49	1.61
85	AA	705	G	C3'-C2'	-10.05	1.41	1.52
34	BA	420	A	P-O5'	-10.04	1.49	1.59
34	BA	790	G	O3'-P	-10.04	1.49	1.61
35	BB	1205	A	N7-C5	-10.04	1.33	1.39
35	BB	542	A	O3'-P	-10.04	1.49	1.61
35	BB	1181	A	C1'-N9	-10.04	1.32	1.46
85	AA	398	U	P-O5'	-10.04	1.49	1.59
85	AA	690	G	P-O5'	-10.04	1.49	1.59
85	AA	1921	G	N9-C4	10.04	1.46	1.38
34	BA	1817	G	O3'-P	-10.03	1.49	1.61
35	BB	15	C	P-O5'	-10.03	1.49	1.59
85	AA	2180	C	O3'-P	-10.03	1.49	1.61
34	BA	292	C	C2'-C1'	-10.03	1.42	1.53
34	BA	1454	G	C2'-C1'	-10.03	1.42	1.53
37	BD	11	A	O3'-P	-10.03	1.49	1.61
85	AA	90	A	N9-C4	-10.03	1.31	1.37
34	BA	357	A	C2'-C1'	-10.03	1.42	1.53
34	BA	400	A	C3'-C2'	-10.03	1.41	1.52
34	BA	532	C	C2'-C1'	-10.03	1.42	1.53
34	BA	605	G	C6-N1	-10.03	1.32	1.39
34	BA	744	G	C2'-C1'	-10.03	1.42	1.53
35	BB	1099	U	C2-N3	-10.03	1.30	1.37
36	BC	123	G	N9-C4	-10.03	1.29	1.38
35	BB	999	G	C2'-C1'	-10.03	1.42	1.53
85	AA	84	C	P-O5'	-10.03	1.49	1.59
85	AA	196	U	C2-N3	-10.03	1.30	1.37
34	BA	681	G	P-O5'	-10.02	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	944	G	O3'-P	-10.02	1.49	1.61
36	BC	168	C	O3'-P	-10.02	1.49	1.61
34	BA	1585	A	O3'-P	-10.02	1.49	1.61
35	BB	137	A	N9-C4	-10.02	1.31	1.37
85	AA	1118	U	C2-N3	-10.02	1.30	1.37
34	BA	366	G	O3'-P	-10.02	1.49	1.61
34	BA	917	C	P-O5'	-10.02	1.49	1.59
34	BA	245	U	P-O5'	-10.02	1.49	1.59
34	BA	1174	A	O3'-P	-10.02	1.49	1.61
34	BA	1259	C	P-O5'	-10.02	1.49	1.59
34	BA	1676	A	C1'-N9	-10.02	1.32	1.46
35	BB	813	C	P-O5'	-10.02	1.49	1.59
39	BF	32	G	N7-C5	-10.02	1.33	1.39
34	BA	1690	U	P-O5'	-10.01	1.49	1.59
35	BB	489	A	N3-C4	-10.01	1.28	1.34
85	AA	737	G	P-O5'	-10.01	1.49	1.59
85	AA	1699	A	O3'-P	-10.01	1.49	1.61
34	BA	1585	A	C1'-N9	-10.01	1.32	1.46
40	BG	26	G	P-O5'	-10.01	1.49	1.59
34	BA	370	U	C2-N3	-10.00	1.30	1.37
35	BB	64	U	O3'-P	-10.00	1.49	1.61
36	BC	14	G	P-O5'	-10.00	1.49	1.59
36	BC	152	C	N1-C2	-10.00	1.30	1.40
37	BD	98	G	N9-C4	-10.00	1.29	1.38
85	AA	2176	U	O3'-P	-10.00	1.49	1.61
36	BC	153	C	P-O5'	-10.00	1.49	1.59
38	BE	104	G	C6-N1	-10.00	1.32	1.39
85	AA	120	C	P-O5'	-10.00	1.49	1.59
34	BA	9	A	O3'-P	-10.00	1.49	1.61
34	BA	691	A	N9-C4	-10.00	1.31	1.37
85	AA	1563	U	P-O5'	-10.00	1.49	1.59
35	BB	1423	U	C2'-C1'	-9.99	1.42	1.53
85	AA	2218	G	C1'-N9	-9.99	1.32	1.46
34	BA	1293	A	P-O5'	-9.99	1.49	1.59
85	AA	474	C	C3'-C2'	-9.99	1.41	1.52
34	BA	471	U	C4'-C3'	-9.99	1.42	1.53
34	BA	1820	G	N9-C4	-9.99	1.29	1.38
34	BA	1506	C	C3'-C2'	-9.99	1.41	1.52
40	BG	94	G	P-O5'	-9.99	1.49	1.59
41	BH	11	C	O3'-P	-9.99	1.49	1.61
85	AA	1125	G	C2'-C1'	-9.99	1.42	1.53
34	BA	963	G	C2'-C1'	-9.98	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1310	C	P-O5'	-9.98	1.49	1.59
34	BA	1808	A	N9-C4	-9.98	1.31	1.37
35	BB	491	A	C3'-C2'	-9.98	1.41	1.52
35	BB	428	G	C2'-C1'	-9.98	1.42	1.53
34	BA	1795	A	C1'-N9	-9.98	1.32	1.46
85	AA	568	C	P-O5'	-9.98	1.49	1.59
35	BB	118	A	P-O5'	-9.98	1.49	1.59
37	BD	74	A	P-O5'	-9.98	1.49	1.59
85	AA	1216	A	C3'-C2'	-9.98	1.41	1.52
34	BA	1700	C	O3'-P	-9.98	1.49	1.61
85	AA	1136	A	C2'-C1'	-9.98	1.42	1.53
34	BA	1106	A	N9-C4	-9.97	1.31	1.37
34	BA	981	A	O3'-P	-9.97	1.49	1.61
34	BA	1559	C	O3'-P	-9.97	1.49	1.61
35	BB	136	A	O3'-P	-9.97	1.49	1.61
35	BB	662	G	C1'-N9	-9.97	1.32	1.46
85	AA	481	A	N9-C4	-9.97	1.31	1.37
85	AA	1676	G	N9-C4	-9.97	1.29	1.38
86	AB	66	U	O3'-P	-9.97	1.49	1.61
34	BA	89	G	N9-C4	-9.97	1.29	1.38
85	AA	2100	A	C2'-C1'	-9.97	1.42	1.53
34	BA	1165	A	P-O5'	-9.97	1.49	1.59
35	BB	1229	A	N9-C4	-9.97	1.31	1.37
85	AA	542	G	C2'-C1'	-9.97	1.42	1.53
85	AA	644	A	P-O5'	-9.97	1.49	1.59
85	AA	1104	G	O3'-P	-9.97	1.49	1.61
34	BA	1529	G	P-O5'	-9.97	1.49	1.59
35	BB	5	A	C6-N1	-9.97	1.28	1.35
35	BB	6	A	C2'-C1'	-9.97	1.42	1.53
85	AA	517	A	N9-C4	-9.97	1.31	1.37
35	BB	1445	A	O3'-P	-9.97	1.49	1.61
38	BE	26	G	N9-C4	-9.97	1.29	1.38
34	BA	340	U	C2-N3	-9.97	1.30	1.37
34	BA	889	U	P-O5'	-9.96	1.49	1.59
34	BA	1609	U	C3'-C2'	-9.97	1.41	1.52
36	BC	18	G	N3-C4	-9.97	1.28	1.35
41	BH	22	A	O3'-P	-9.97	1.49	1.61
34	BA	1568	A	N9-C4	-9.96	1.31	1.37
34	BA	1592	U	C2-N3	-9.96	1.30	1.37
37	BD	16	U	C2-N3	-9.96	1.30	1.37
85	AA	902	A	P-O5'	-9.96	1.49	1.59
85	AA	1458	G	C6-N1	-9.96	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2022	A	C6-N1	-9.96	1.28	1.35
34	BA	35	U	C3'-C2'	-9.96	1.41	1.52
35	BB	564	U	P-O5'	-9.96	1.49	1.59
38	BE	171	U	O3'-P	-9.96	1.49	1.61
85	AA	447	C	C2'-C1'	-9.96	1.42	1.53
85	AA	1967	A	O3'-P	-9.96	1.49	1.61
35	BB	504	C	O3'-P	-9.96	1.49	1.61
35	BB	436	G	P-O5'	-9.95	1.49	1.59
41	BH	19	G	O3'-P	-9.96	1.49	1.61
34	BA	281	C	C2-N3	-9.95	1.27	1.35
85	AA	921	C	P-O5'	-9.95	1.49	1.59
34	BA	371	U	P-O5'	-9.95	1.49	1.59
34	BA	1475	G	C2'-C1'	-9.95	1.42	1.53
85	AA	2170	G	P-O5'	-9.95	1.49	1.59
34	BA	60	A	P-O5'	-9.95	1.49	1.59
35	BB	368	C	C2'-C1'	-9.95	1.42	1.53
34	BA	888	G	O3'-P	-9.95	1.49	1.61
41	BH	21	G	C2'-C1'	-9.95	1.42	1.53
34	BA	1256	A	C1'-N9	-9.94	1.32	1.46
85	AA	161	A	O3'-P	-9.95	1.49	1.61
34	BA	141	G	C2-N2	-9.94	1.24	1.34
34	BA	1451	A	C4'-C3'	-9.94	1.42	1.53
34	BA	1583	A	C1'-N9	-9.94	1.32	1.46
35	BB	490	G	N9-C4	-9.94	1.29	1.38
40	BG	79	U	C2'-C1'	-9.94	1.42	1.53
41	BH	104	U	O3'-P	-9.94	1.49	1.61
85	AA	1496	U	C2-N3	-9.94	1.30	1.37
85	AA	2039	G	O3'-P	-9.94	1.49	1.61
34	BA	1169	A	P-O5'	-9.94	1.49	1.59
41	BH	18	C	P-O5'	-9.94	1.49	1.59
34	BA	1245	C	O3'-P	-9.94	1.49	1.61
41	BH	109	G	C4'-C3'	-9.94	1.42	1.53
35	BB	13	A	P-O5'	-9.93	1.49	1.59
85	AA	456	A	C5-C4	-9.93	1.31	1.38
36	BC	3	C	O3'-P	-9.93	1.49	1.61
85	AA	972	G	C5'-C4'	9.93	1.63	1.51
38	BE	67	A	P-O5'	-9.93	1.49	1.59
34	BA	965	A	N9-C4	-9.93	1.31	1.37
34	BA	1278	A	O3'-P	-9.93	1.49	1.61
35	BB	397	C	O3'-P	-9.93	1.49	1.61
35	BB	574	G	P-O5'	-9.93	1.49	1.59
35	BB	1186	A	C3'-C2'	-9.93	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	42	A	P-O5'	-9.93	1.49	1.59
38	BE	124	G	C1'-N9	-9.93	1.32	1.46
34	BA	49	A	N7-C5	-9.93	1.33	1.39
34	BA	158	U	P-O5'	-9.93	1.49	1.59
34	BA	1557	G	C6-N1	-9.93	1.32	1.39
85	AA	161	A	C2'-C1'	-9.93	1.42	1.53
85	AA	1544	G	C1'-N9	-9.93	1.32	1.46
34	BA	480	G	O3'-P	-9.92	1.49	1.61
85	AA	1821	C	P-O5'	-9.92	1.49	1.59
34	BA	799	A	N9-C4	-9.92	1.31	1.37
34	BA	900	A	C5-C4	-9.92	1.31	1.38
34	BA	1808	A	O3'-P	-9.92	1.49	1.61
34	BA	882	G	C2'-C1'	-9.92	1.42	1.53
34	BA	1801	G	C2'-C1'	-9.92	1.42	1.53
35	BB	50	A	N9-C4	-9.92	1.31	1.37
85	AA	913	U	P-O5'	-9.92	1.49	1.59
34	BA	971	G	C1'-N9	-9.91	1.32	1.46
35	BB	1062	G	P-O5'	-9.91	1.49	1.59
34	BA	82	A	O3'-P	-9.91	1.49	1.61
34	BA	1532	G	C6-N1	-9.91	1.32	1.39
35	BB	618	U	C3'-C2'	-9.91	1.41	1.52
35	BB	1321	G	O3'-P	-9.91	1.49	1.61
85	AA	64	A	P-O5'	-9.91	1.49	1.59
85	AA	2232	A	P-O5'	-9.91	1.49	1.59
36	BC	138	C	P-O5'	-9.91	1.49	1.59
38	BE	123	A	C8-N7	-9.91	1.24	1.31
35	BB	43	G	N9-C4	-9.91	1.30	1.38
41	BH	13	C	C2'-C1'	-9.91	1.42	1.53
34	BA	397	A	C1'-N9	-9.91	1.32	1.46
35	BB	2	C	C4'-C3'	-9.91	1.42	1.53
34	BA	718	U	P-O5'	-9.90	1.49	1.59
34	BA	760	G	P-O5'	-9.90	1.49	1.59
35	BB	673	C	P-O5'	-9.90	1.49	1.59
35	BB	1097	U	P-O5'	-9.90	1.49	1.59
85	AA	1430	A	P-O5'	-9.90	1.49	1.59
34	BA	904	G	C1'-N9	-9.90	1.32	1.46
34	BA	1578	A	C1'-N9	-9.90	1.32	1.46
35	BB	1396	G	N9-C4	-9.90	1.30	1.38
35	BB	1409	G	P-O5'	-9.90	1.49	1.59
40	BG	33	G	C3'-C2'	-9.90	1.41	1.52
36	BC	106	G	C6-N1	-9.90	1.32	1.39
41	BH	37	U	P-O5'	-9.90	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1252	A	C2'-C1'	-9.90	1.42	1.53
34	BA	428	C	O3'-P	-9.90	1.49	1.61
34	BA	669	U	P-O5'	-9.90	1.49	1.59
37	BD	57	C	P-O5'	-9.90	1.49	1.59
40	BG	112	C	O3'-P	-9.90	1.49	1.61
38	BE	13	A	O3'-P	-9.90	1.49	1.61
85	AA	702	G	N9-C4	-9.90	1.30	1.38
85	AA	1212	C	P-O5'	-9.90	1.49	1.59
34	BA	504	A	C2'-C1'	-9.89	1.42	1.53
35	BB	40	C	O3'-P	-9.89	1.49	1.61
35	BB	1364	C	P-O5'	-9.89	1.49	1.59
34	BA	658	C	P-O5'	-9.89	1.49	1.59
35	BB	778	A	C1'-N9	-9.89	1.32	1.46
85	AA	487	G	P-O5'	-9.89	1.49	1.59
36	BC	12	A	P-O5'	-9.89	1.49	1.59
40	BG	67	A	O3'-P	-9.89	1.49	1.61
40	BG	128	U	C1'-N1	-9.89	1.33	1.46
85	AA	995	G	C2'-C1'	-9.89	1.42	1.53
35	BB	465	C	P-O5'	-9.89	1.49	1.59
38	BE	49	A	O3'-P	-9.89	1.49	1.61
40	BG	75	C	P-O5'	-9.89	1.49	1.59
35	BB	782	A	O3'-P	-9.88	1.49	1.61
85	AA	480	U	O3'-P	-9.89	1.49	1.61
34	BA	348	U	O3'-P	-9.88	1.49	1.61
41	BH	103	C	C2'-C1'	-9.88	1.42	1.53
34	BA	1698	C	O3'-P	-9.88	1.49	1.61
35	BB	387	G	N7-C5	-9.88	1.33	1.39
85	AA	2113	U	P-O5'	-9.88	1.49	1.59
85	AA	554	A	P-O5'	-9.88	1.49	1.59
85	AA	1368	G	P-O5'	-9.88	1.49	1.59
34	BA	1061	A	N9-C4	-9.88	1.31	1.37
34	BA	1478	G	O3'-P	-9.88	1.49	1.61
34	BA	1597	G	C2'-C1'	-9.88	1.42	1.53
35	BB	1401	G	C8-N7	-9.88	1.25	1.30
35	BB	1430	G	C1'-N9	-9.88	1.33	1.46
34	BA	726	G	C6-N1	-9.88	1.32	1.39
34	BA	1607	U	C3'-C2'	-9.88	1.41	1.52
35	BB	1034	U	O3'-P	-9.87	1.49	1.61
85	AA	1243	G	C2'-C1'	-9.88	1.42	1.53
34	BA	749	G	O3'-P	-9.87	1.49	1.61
37	BD	75	G	N3-C4	-9.87	1.28	1.35
35	BB	1087	A	N9-C4	-9.87	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	800	A	N3-C4	-9.87	1.28	1.34
34	BA	180	G	N9-C4	9.87	1.45	1.38
35	BB	1418	C	P-O5'	-9.87	1.49	1.59
41	BH	31	A	N9-C4	-9.87	1.31	1.37
34	BA	1030	C	O3'-P	-9.87	1.49	1.61
85	AA	623	G	P-O5'	-9.87	1.49	1.59
85	AA	1105	G	C2-N2	-9.87	1.24	1.34
34	BA	675	C	P-O5'	-9.86	1.49	1.59
35	BB	1179	C	O3'-P	-9.87	1.49	1.61
40	BG	9	G	P-O5'	-9.86	1.49	1.59
34	BA	83	G	O3'-P	-9.86	1.49	1.61
34	BA	1189	A	N7-C5	-9.86	1.33	1.39
35	BB	117	A	N9-C4	-9.86	1.31	1.37
35	BB	779	C	O3'-P	-9.86	1.49	1.61
85	AA	303	A	C5'-C4'	9.86	1.63	1.51
85	AA	830	A	N9-C4	-9.86	1.31	1.37
34	BA	100	A	N9-C4	-9.86	1.31	1.37
34	BA	1544	G	P-O5'	-9.86	1.49	1.59
35	BB	1161	G	N9-C4	-9.86	1.30	1.38
34	BA	1557	G	N7-C5	-9.86	1.33	1.39
34	BA	1814	U	O3'-P	-9.86	1.49	1.61
40	BG	161	C	O3'-P	-9.86	1.49	1.61
34	BA	518	C	O3'-P	-9.85	1.49	1.61
34	BA	1672	C	P-O5'	-9.85	1.49	1.59
35	BB	557	C	P-O5'	-9.85	1.49	1.59
35	BB	1139	A	O3'-P	-9.85	1.49	1.61
38	BE	173	G	N9-C4	-9.85	1.30	1.38
85	AA	93	G	P-O5'	-9.85	1.49	1.59
85	AA	1275	A	C2'-C1'	-9.85	1.42	1.53
85	AA	270	A	C2'-C1'	-9.85	1.42	1.53
34	BA	487	A	N9-C4	-9.85	1.31	1.37
34	BA	1228	G	P-O5'	-9.85	1.50	1.59
35	BB	1157	G	P-O5'	-9.85	1.50	1.59
85	AA	1663	U	P-O5'	-9.85	1.50	1.59
34	BA	99	G	P-O5'	-9.85	1.50	1.59
34	BA	1003	A	N9-C4	-9.85	1.31	1.37
34	BA	76	U	O3'-P	-9.85	1.49	1.61
34	BA	335	C	O3'-P	-9.85	1.49	1.61
35	BB	1412	U	P-O5'	-9.85	1.50	1.59
85	AA	1867	G	P-O5'	-9.85	1.50	1.59
34	BA	1681	U	O3'-P	-9.84	1.49	1.61
35	BB	1036	G	C3'-C2'	-9.84	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	91	G	O3'-P	-9.84	1.49	1.61
41	BH	127	A	C2'-C1'	-9.84	1.42	1.53
85	AA	363	A	C2'-C1'	-9.84	1.42	1.53
85	AA	1464	G	P-O5'	-9.84	1.50	1.59
34	BA	173	U	P-O5'	-9.84	1.50	1.59
34	BA	467	A	P-O5'	-9.84	1.50	1.59
38	BE	20	C	C4-N4	-9.84	1.25	1.33
37	BD	72	U	P-O5'	-9.84	1.50	1.59
34	BA	84	U	O3'-P	-9.84	1.49	1.61
34	BA	1526	C	P-O5'	-9.84	1.50	1.59
38	BE	62	C	P-O5'	-9.84	1.50	1.59
38	BE	136	G	C4'-O4'	-9.84	1.32	1.45
85	AA	744	C	C2-N3	-9.84	1.27	1.35
85	AA	769	C	O3'-P	-9.84	1.49	1.61
34	BA	800	G	C1'-N9	-9.83	1.33	1.46
34	BA	826	C	P-O5'	-9.83	1.50	1.59
34	BA	1688	G	N9-C4	-9.83	1.30	1.38
85	AA	152	A	P-O5'	-9.83	1.50	1.59
85	AA	1963	G	N7-C5	-9.83	1.33	1.39
36	BC	9	G	P-O5'	-9.83	1.50	1.59
85	AA	2142	A	C2'-C1'	-9.83	1.42	1.53
34	BA	1582	C	P-O5'	-9.82	1.50	1.59
34	BA	992	A	C2'-C1'	-9.82	1.42	1.53
35	BB	112	G	P-O5'	-9.82	1.50	1.59
35	BB	1060	U	P-O5'	-9.82	1.50	1.59
85	AA	485	A	C2'-C1'	-9.82	1.42	1.53
85	AA	1093	C	P-O5'	-9.82	1.50	1.59
85	AA	1950	G	P-O5'	-9.82	1.50	1.59
34	BA	1252	G	C1'-N9	-9.82	1.33	1.46
34	BA	1283	U	P-O5'	-9.82	1.50	1.59
35	BB	1154	C	O3'-P	-9.82	1.49	1.61
40	BG	99	A	N9-C4	-9.82	1.31	1.37
34	BA	954	U	C2-N3	-9.81	1.30	1.37
38	BE	134	A	P-O5'	-9.81	1.50	1.59
40	BG	94	G	C2'-C1'	-9.81	1.42	1.53
40	BG	52	A	O3'-P	-9.81	1.49	1.61
85	AA	387	U	O3'-P	-9.81	1.49	1.61
85	AA	420	C	C2-N3	-9.81	1.27	1.35
85	AA	486	G	P-O5'	-9.81	1.50	1.59
34	BA	1475	G	C1'-N9	-9.81	1.33	1.46
34	BA	1590	G	C6-N1	-9.81	1.32	1.39
85	AA	506	G	N9-C4	-9.81	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1562	G	O3'-P	-9.80	1.49	1.61
34	BA	1158	A	N7-C5	-9.80	1.33	1.39
34	BA	1429	A	O3'-P	-9.80	1.49	1.61
35	BB	578	G	P-O5'	-9.80	1.50	1.59
41	BH	41	A	P-O5'	-9.80	1.50	1.59
85	AA	674	U	C3'-C2'	-9.80	1.42	1.52
85	AA	916	A	O3'-P	-9.80	1.49	1.61
85	AA	1139	G	C2'-C1'	-9.80	1.42	1.53
34	BA	1581	G	C6-N1	-9.80	1.32	1.39
34	BA	1455	C	O3'-P	-9.80	1.49	1.61
85	AA	584	G	N7-C5	-9.80	1.33	1.39
85	AA	1828	C	O3'-P	-9.80	1.49	1.61
34	BA	1135	U	P-O5'	-9.80	1.50	1.59
34	BA	440	A	P-O5'	-9.80	1.50	1.59
34	BA	1443	U	C2-N3	-9.80	1.30	1.37
35	BB	991	C	P-O5'	-9.80	1.50	1.59
40	BG	84	U	P-O5'	-9.80	1.50	1.59
85	AA	898	A	P-O5'	-9.80	1.50	1.59
85	AA	1197	U	N3-C4	-9.80	1.29	1.38
85	AA	2184	A	O3'-P	-9.80	1.49	1.61
34	BA	272	A	C1'-N9	-9.80	1.33	1.46
34	BA	327	G	O3'-P	-9.80	1.49	1.61
85	AA	90	A	P-O5'	-9.79	1.50	1.59
85	AA	411	U	P-O5'	-9.79	1.50	1.59
34	BA	440	A	N7-C5	-9.79	1.33	1.39
34	BA	670	U	C2'-C1'	-9.79	1.42	1.53
40	BG	41	U	C2-N3	-9.79	1.30	1.37
85	AA	1434	U	P-O5'	-9.79	1.50	1.59
34	BA	478	G	N7-C5	-9.79	1.33	1.39
35	BB	135	C	O3'-P	-9.79	1.49	1.61
85	AA	397	G	N9-C4	-9.79	1.30	1.38
34	BA	1646	U	O3'-P	-9.79	1.49	1.61
35	BB	73	G	N7-C5	-9.79	1.33	1.39
34	BA	1191	C	C2'-C1'	-9.79	1.42	1.53
35	BB	868	C	C2'-C1'	-9.78	1.42	1.53
40	BG	112	C	C3'-C2'	-9.79	1.42	1.52
85	AA	20	G	P-O5'	-9.78	1.50	1.59
85	AA	1565	G	P-O5'	-9.79	1.50	1.59
34	BA	449	G	C3'-C2'	-9.78	1.42	1.52
34	BA	749	G	C3'-C2'	-9.78	1.42	1.52
35	BB	1203	C	C2'-C1'	-9.78	1.42	1.53
85	AA	425	G	O3'-P	-9.78	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	792	A	N7-C5	-9.78	1.33	1.39
34	BA	30	A	C3'-C2'	-9.78	1.42	1.52
85	AA	1214	C	O3'-P	-9.78	1.49	1.61
34	BA	1826	C	P-O5'	-9.78	1.50	1.59
35	BB	1202	G	C2'-C1'	-9.78	1.42	1.53
36	BC	150	U	O3'-P	-9.78	1.49	1.61
36	BC	8	C	P-O5'	-9.78	1.50	1.59
34	BA	1164	C	P-O5'	-9.78	1.50	1.59
85	AA	385	A	C2'-C1'	-9.77	1.42	1.53
34	BA	1162	U	P-O5'	-9.77	1.50	1.59
85	AA	2139	G	N7-C5	-9.77	1.33	1.39
34	BA	939	C	C3'-C2'	-9.77	1.42	1.52
37	BD	64	A	P-O5'	-9.77	1.50	1.59
85	AA	2177	C	O3'-P	-9.77	1.49	1.61
85	AA	1541	G	C4'-C3'	-9.77	1.42	1.53
35	BB	95	A	N7-C5	-9.77	1.33	1.39
35	BB	1098	G	P-O5'	-9.77	1.50	1.59
37	BD	44	U	P-O5'	-9.77	1.50	1.59
38	BE	27	A	N9-C4	-9.77	1.31	1.37
34	BA	374	U	C2-N3	-9.76	1.30	1.37
34	BA	1559	C	C2-N3	-9.76	1.27	1.35
35	BB	1405	G	C1'-N9	-9.76	1.33	1.46
37	BD	67	C	O3'-P	-9.76	1.49	1.61
85	AA	644	A	O3'-P	-9.76	1.49	1.61
35	BB	1291	G	C1'-N9	-9.76	1.33	1.46
35	BB	1466	A	C2'-C1'	-9.76	1.42	1.53
37	BD	105	G	N7-C5	-9.76	1.33	1.39
38	BE	146	U	P-O5'	-9.76	1.50	1.59
34	BA	266	G	N1-C2	-9.76	1.29	1.37
34	BA	409	A	O3'-P	-9.76	1.49	1.61
35	BB	1070	G	N9-C8	-9.76	1.31	1.37
38	BE	204	U	O3'-P	-9.76	1.49	1.61
41	BH	109	G	N9-C4	-9.76	1.30	1.38
34	BA	407	A	P-O5'	-9.75	1.50	1.59
40	BG	126	G	O3'-P	-9.75	1.49	1.61
34	BA	232	U	C5'-C4'	9.75	1.63	1.51
85	AA	474	C	O3'-P	-9.75	1.49	1.61
34	BA	322	U	C2-N3	-9.75	1.30	1.37
34	BA	427	G	O3'-P	-9.75	1.49	1.61
34	BA	1016	A	O3'-P	-9.75	1.49	1.61
34	BA	1534	U	C2-N3	-9.75	1.30	1.37
34	BA	88	C	O3'-P	-9.75	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1107	C	O3'-P	-9.75	1.49	1.61
35	BB	1310	C	P-O5'	-9.75	1.50	1.59
40	BG	72	G	C6-N1	-9.75	1.32	1.39
40	BG	140	G	C3'-C2'	-9.75	1.42	1.52
35	BB	639	A	O3'-P	-9.74	1.49	1.61
34	BA	1332	U	C2'-C1'	-9.74	1.42	1.53
34	BA	1451	A	C2'-C1'	-9.74	1.42	1.53
35	BB	101	U	C2-N3	-9.74	1.30	1.37
40	BG	23	C	C5'-C4'	-9.74	1.39	1.51
85	AA	2036	A	C8-N7	-9.74	1.24	1.31
34	BA	754	G	P-O5'	-9.74	1.50	1.59
34	BA	1519	G	C6-N1	-9.74	1.32	1.39
34	BA	1676	A	N9-C4	-9.74	1.32	1.37
35	BB	1339	C	O3'-P	-9.74	1.49	1.61
35	BB	1487	G	P-O5'	-9.74	1.50	1.59
85	AA	681	G	O3'-P	-9.74	1.49	1.61
34	BA	331	G	O3'-P	-9.74	1.49	1.61
34	BA	1094	U	C2-N3	-9.74	1.30	1.37
35	BB	86	A	P-O5'	-9.74	1.50	1.59
35	BB	1100	C	O3'-P	-9.74	1.49	1.61
40	BG	9	G	C1'-N9	-9.74	1.33	1.46
34	BA	702	G	C3'-C2'	-9.73	1.42	1.52
38	BE	8	G	C6-N1	-9.73	1.32	1.39
41	BH	36	C	C3'-C2'	-9.73	1.42	1.52
85	AA	577	U	P-O5'	-9.73	1.50	1.59
85	AA	2075	C	O3'-P	-9.73	1.49	1.61
34	BA	69	C	O3'-P	-9.73	1.49	1.61
34	BA	431	A	O3'-P	-9.73	1.49	1.61
34	BA	880	G	O3'-P	-9.73	1.49	1.61
36	BC	69	U	C3'-C2'	-9.73	1.42	1.52
34	BA	185	A	C1'-N9	-9.73	1.33	1.46
34	BA	1843	G	C2'-C1'	-9.73	1.42	1.53
35	BB	1403	G	N9-C4	-9.73	1.30	1.38
38	BE	183	C	N1-C6	9.73	1.43	1.37
85	AA	626	G	P-O5'	-9.72	1.50	1.59
85	AA	2054	G	C2'-C1'	-9.72	1.42	1.53
34	BA	787	A	N9-C4	-9.72	1.32	1.37
34	BA	974	G	C1'-N9	-9.72	1.33	1.46
85	AA	1122	U	O3'-P	-9.72	1.49	1.61
34	BA	1554	C	P-O5'	-9.72	1.50	1.59
35	BB	1192	C	P-O5'	-9.72	1.50	1.59
34	BA	1196	C	C4'-C3'	-9.72	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1533	G	C6-N1	-9.72	1.32	1.39
34	BA	1668	C	N1-C6	-9.72	1.31	1.37
35	BB	64	U	C4'-C3'	-9.72	1.42	1.53
34	BA	783	U	P-O5'	-9.72	1.50	1.59
38	BE	66	A	N9-C4	-9.72	1.32	1.37
35	BB	27	C	C2'-C1'	-9.71	1.42	1.53
35	BB	680	A	N9-C4	-9.71	1.32	1.37
35	BB	1241	U	C2-N3	-9.71	1.30	1.37
85	AA	538	A	O3'-P	-9.71	1.49	1.61
85	AA	646	C	P-O5'	-9.71	1.50	1.59
34	BA	795	G	N9-C4	-9.71	1.30	1.38
85	AA	533	C	C2-N3	-9.71	1.27	1.35
85	AA	2085	C	O3'-P	-9.71	1.49	1.61
38	BE	204	U	C2-N3	-9.71	1.30	1.37
85	AA	156	G	C6-N1	-9.71	1.32	1.39
85	AA	994	A	C2'-C1'	-9.71	1.42	1.53
35	BB	58	G	P-O5'	-9.71	1.50	1.59
39	BF	36	G	O3'-P	-9.71	1.49	1.61
85	AA	1661	U	O3'-P	-9.71	1.49	1.61
34	BA	714	G	N9-C4	-9.71	1.30	1.38
36	BC	4	G	N9-C4	-9.71	1.30	1.38
34	BA	1064	A	P-O5'	-9.70	1.50	1.59
35	BB	434	A	O3'-P	-9.70	1.49	1.61
85	AA	185	A	N9-C4	-9.70	1.32	1.37
85	AA	509	C	O3'-P	-9.70	1.49	1.61
34	BA	135	G	C6-N1	-9.70	1.32	1.39
34	BA	168	U	P-O5'	-9.70	1.50	1.59
40	BG	73	U	C2-N3	-9.70	1.30	1.37
85	AA	2098	A	N9-C4	-9.70	1.32	1.37
34	BA	894	G	C2'-C1'	-9.70	1.42	1.53
34	BA	1811	A	N9-C4	-9.70	1.32	1.37
85	AA	317	A	N9-C4	-9.70	1.32	1.37
35	BB	72	G	C6-N1	-9.70	1.32	1.39
85	AA	928	U	C2'-C1'	-9.70	1.42	1.53
35	BB	827	U	O3'-P	-9.69	1.49	1.61
85	AA	398	U	O3'-P	-9.70	1.49	1.61
85	AA	2244	G	P-O5'	-9.69	1.50	1.59
34	BA	1192	A	P-O5'	-9.69	1.50	1.59
35	BB	1283	C	P-O5'	-9.69	1.50	1.59
85	AA	788	G	O3'-P	-9.69	1.49	1.61
34	BA	701	G	C3'-C2'	-9.69	1.42	1.52
34	BA	758	G	N7-C5	-9.69	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	946	A	C1'-N9	-9.69	1.33	1.46
34	BA	1608	C	O3'-P	-9.69	1.49	1.61
35	BB	412	A	N9-C4	-9.68	1.32	1.37
85	AA	102	A	O3'-P	-9.68	1.49	1.61
35	BB	1359	G	C2'-C1'	-9.68	1.42	1.53
40	BG	28	A	C2'-C1'	-9.68	1.42	1.53
85	AA	111	A	O3'-P	-9.68	1.49	1.61
85	AA	423	G	P-O5'	-9.68	1.50	1.59
85	AA	1124	G	P-O5'	-9.68	1.50	1.59
85	AA	1678	U	C2'-C1'	-9.68	1.42	1.53
34	BA	131	A	O3'-P	-9.68	1.49	1.61
34	BA	859	G	P-O5'	-9.68	1.50	1.59
34	BA	1701	U	P-O5'	-9.68	1.50	1.59
35	BB	1330	A	N9-C4	-9.68	1.32	1.37
35	BB	439	G	O3'-P	-9.68	1.49	1.61
85	AA	1248	U	C2'-C1'	-9.68	1.42	1.53
36	BC	55	U	C3'-C2'	-9.68	1.42	1.52
38	BE	197	A	C1'-N9	-9.68	1.33	1.46
34	BA	580	U	P-O5'	-9.67	1.50	1.59
34	BA	1289	C	O3'-P	-9.67	1.49	1.61
35	BB	691	A	N9-C4	-9.67	1.32	1.37
35	BB	968	C	C2'-C1'	-9.67	1.42	1.53
34	BA	599	U	O3'-P	-9.67	1.49	1.61
85	AA	2154	C	C2'-C1'	-9.67	1.42	1.53
35	BB	382	U	P-O5'	-9.67	1.50	1.59
35	BB	450	A	N9-C4	-9.67	1.32	1.37
85	AA	658	C	P-O5'	-9.67	1.50	1.59
35	BB	1483	A	N9-C4	-9.67	1.32	1.37
40	BG	52	A	C3'-C2'	-9.67	1.42	1.52
85	AA	1142	G	P-O5'	-9.67	1.50	1.59
85	AA	1471	G	C1'-N9	-9.67	1.33	1.46
34	BA	1287	G	C2'-C1'	-9.67	1.42	1.53
35	BB	1467	A	N9-C4	-9.67	1.32	1.37
36	BC	153	C	O3'-P	-9.66	1.49	1.61
85	AA	429	G	P-O5'	-9.66	1.50	1.59
34	BA	1208	U	O3'-P	-9.66	1.49	1.61
34	BA	1236	U	C2-N3	-9.66	1.30	1.37
34	BA	1421	A	N9-C4	-9.66	1.32	1.37
34	BA	1510	C	C3'-C2'	-9.66	1.42	1.52
85	AA	1126	G	C6-N1	-9.66	1.32	1.39
85	AA	1263	G	N7-C5	-9.66	1.33	1.39
35	BB	1292	G	C6-N1	-9.66	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1645	G	P-O5'	-9.66	1.50	1.59
34	BA	154	A	P-O5'	-9.66	1.50	1.59
35	BB	1018	U	P-O5'	-9.66	1.50	1.59
34	BA	255	G	O3'-P	-9.66	1.49	1.61
34	BA	1281	U	C3'-C2'	-9.66	1.42	1.52
35	BB	867	C	C2'-C1'	-9.66	1.42	1.53
35	BB	1256	C	O3'-P	-9.66	1.49	1.61
35	BB	1480	G	C3'-C2'	-9.66	1.42	1.52
34	BA	1583	A	C2'-C1'	-9.66	1.42	1.53
35	BB	134	G	C6-N1	-9.66	1.32	1.39
35	BB	823	G	C1'-N9	-9.66	1.33	1.46
35	BB	1133	C	O3'-P	-9.66	1.49	1.61
85	AA	466	A	P-O5'	-9.66	1.50	1.59
85	AA	2218	G	C8-N7	-9.66	1.25	1.30
34	BA	388	A	N9-C4	-9.65	1.32	1.37
35	BB	484	G	O3'-P	-9.65	1.49	1.61
85	AA	250	C	N1-C6	-9.65	1.31	1.37
85	AA	547	A	P-O5'	-9.65	1.50	1.59
34	BA	932	G	C6-N1	-9.65	1.32	1.39
39	BF	41	U	P-O5'	-9.65	1.50	1.59
85	AA	707	U	O3'-P	-9.65	1.49	1.61
34	BA	1599	A	C3'-C2'	-9.65	1.42	1.52
38	BE	127	G	N1-C2	-9.65	1.30	1.37
85	AA	2177	C	C2'-C1'	-9.65	1.42	1.53
38	BE	174	U	C3'-C2'	-9.65	1.42	1.52
35	BB	778	A	N9-C4	-9.64	1.32	1.37
35	BB	1343	C	O3'-P	-9.64	1.49	1.61
85	AA	605	A	O3'-P	-9.64	1.49	1.61
85	AA	780	U	P-O5'	-9.64	1.50	1.59
34	BA	6	C	C3'-C2'	-9.64	1.42	1.52
34	BA	349	G	C2'-C1'	-9.64	1.42	1.53
34	BA	783	U	O3'-P	-9.64	1.49	1.61
35	BB	1152	U	O3'-P	-9.64	1.49	1.61
35	BB	1215	U	P-O5'	-9.64	1.50	1.59
35	BB	1308	G	P-O5'	-9.64	1.50	1.59
85	AA	1542	A	P-O5'	-9.64	1.50	1.59
35	BB	1368	A	P-O5'	-9.64	1.50	1.59
36	BC	52	A	N9-C4	-9.64	1.32	1.37
34	BA	893	U	C2'-C1'	-9.63	1.42	1.53
85	AA	477	U	C3'-C2'	-9.64	1.42	1.52
35	BB	68	G	P-O5'	-9.63	1.50	1.59
35	BB	1299	G	N9-C4	-9.63	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	103	C	O3'-P	-9.63	1.49	1.61
85	AA	160	A	C1'-N9	-9.63	1.33	1.46
34	BA	1419	A	P-O5'	-9.63	1.50	1.59
35	BB	1231	U	O3'-P	-9.63	1.49	1.61
41	BH	53	C	P-O5'	-9.63	1.50	1.59
34	BA	349	G	O3'-P	-9.63	1.49	1.61
34	BA	680	C	C3'-C2'	-9.63	1.42	1.52
34	BA	1578	A	C2'-C1'	-9.63	1.42	1.53
34	BA	1812	C	O3'-P	-9.63	1.49	1.61
85	AA	1133	C	O3'-P	-9.63	1.49	1.61
34	BA	1287	G	P-O5'	-9.63	1.50	1.59
35	BB	1210	U	C2-N3	-9.63	1.31	1.37
85	AA	443	A	N9-C4	-9.63	1.32	1.37
34	BA	1333	G	C1'-N9	-9.62	1.33	1.46
35	BB	415	A	P-O5'	-9.62	1.50	1.59
34	BA	565	U	P-O5'	-9.62	1.50	1.59
34	BA	658	C	C2'-C1'	-9.62	1.42	1.53
38	BE	88	G	P-O5'	-9.62	1.50	1.59
85	AA	52	U	O3'-P	-9.62	1.49	1.61
85	AA	241	U	O3'-P	-9.62	1.49	1.61
34	BA	926	A	C5-C4	-9.62	1.32	1.38
35	BB	654	C	C1'-N1	-9.62	1.33	1.46
85	AA	1978	G	C1'-N9	-9.62	1.33	1.46
85	AA	2183	U	P-O5'	-9.62	1.50	1.59
34	BA	61	G	O3'-P	-9.62	1.49	1.61
34	BA	817	U	C3'-C2'	-9.62	1.42	1.52
35	BB	1136	G	P-O5'	-9.62	1.50	1.59
34	BA	1037	C	O3'-P	-9.61	1.49	1.61
35	BB	118	A	C1'-N9	-9.62	1.33	1.46
37	BD	80	G	P-O5'	-9.62	1.50	1.59
40	BG	166	C	O3'-P	-9.62	1.49	1.61
85	AA	726	U	P-O5'	-9.62	1.50	1.59
85	AA	2139	G	C2'-C1'	-9.62	1.42	1.53
34	BA	19	G	C1'-N9	-9.61	1.33	1.46
34	BA	1645	C	O3'-P	-9.61	1.49	1.61
35	BB	86	A	N9-C4	-9.61	1.32	1.37
36	BC	95	A	O3'-P	-9.61	1.49	1.61
37	BD	82	G	C6-N1	-9.61	1.32	1.39
34	BA	994	G	O3'-P	-9.61	1.49	1.61
35	BB	482	A	O3'-P	-9.61	1.49	1.61
41	BH	40	C	C2'-C1'	-9.61	1.42	1.53
36	BC	43	A	C2'-C1'	-9.61	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	4	U	O3'-P	-9.61	1.49	1.61
39	BF	10	A	N7-C5	-9.61	1.33	1.39
34	BA	99	G	N3-C4	-9.61	1.28	1.35
34	BA	902	C	P-O5'	-9.61	1.50	1.59
34	BA	1073	G	N7-C5	-9.61	1.33	1.39
34	BA	1588	U	O3'-P	-9.61	1.49	1.61
35	BB	18	A	P-O5'	-9.61	1.50	1.59
35	BB	1248	A	C1'-N9	-9.61	1.33	1.46
85	AA	357	C	P-O5'	-9.61	1.50	1.59
85	AA	763	U	O3'-P	-9.61	1.49	1.61
85	AA	1506	U	P-O5'	-9.61	1.50	1.59
85	AA	1557	U	P-O5'	-9.61	1.50	1.59
34	BA	478	G	N9-C8	-9.60	1.31	1.37
36	BC	94	C	P-O5'	-9.60	1.50	1.59
85	AA	2169	C	P-O5'	-9.60	1.50	1.59
34	BA	1597	G	C5-C4	-9.60	1.31	1.38
35	BB	1519	U	C2'-C1'	-9.60	1.42	1.53
35	BB	605	C	P-O5'	-9.60	1.50	1.59
35	BB	1301	U	P-O5'	-9.60	1.50	1.59
38	BE	194	A	C8-N7	-9.60	1.24	1.31
85	AA	1498	C	P-O5'	-9.60	1.50	1.59
39	BF	71	G	O3'-P	-9.60	1.49	1.61
34	BA	1502	G	N9-C8	-9.60	1.31	1.37
35	BB	1155	U	C2'-C1'	-9.60	1.42	1.53
35	BB	1367	U	C2-N3	-9.60	1.31	1.37
36	BC	116	C	C2-N3	-9.60	1.28	1.35
36	BC	151	G	P-O5'	-9.60	1.50	1.59
41	BH	114	G	N9-C4	-9.60	1.30	1.38
85	AA	367	A	N7-C5	-9.60	1.33	1.39
35	BB	1178	A	O3'-P	-9.59	1.49	1.61
85	AA	402	G	N7-C5	-9.59	1.33	1.39
35	BB	1140	C	P-O5'	-9.59	1.50	1.59
35	BB	693	U	P-O5'	-9.59	1.50	1.59
85	AA	397	G	P-O5'	-9.59	1.50	1.59
85	AA	1217	U	N3-C4	-9.59	1.29	1.38
35	BB	1249	G	C1'-N9	-9.59	1.33	1.46
38	BE	12	A	N9-C4	-9.59	1.32	1.37
34	BA	103	G	O3'-P	-9.59	1.49	1.61
34	BA	598	G	O3'-P	-9.59	1.49	1.61
34	BA	1250	C	C2-N3	-9.59	1.28	1.35
34	BA	1558	C	O3'-P	-9.59	1.49	1.61
35	BB	786	A	C1'-N9	-9.59	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1510	G	P-O5'	-9.59	1.50	1.59
36	BC	99	U	P-O5'	-9.59	1.50	1.59
85	AA	2033	C	C4'-C3'	-9.59	1.42	1.53
34	BA	1418	G	N9-C8	-9.58	1.31	1.37
85	AA	1823	G	O3'-P	-9.58	1.49	1.61
35	BB	1420	U	O3'-P	-9.58	1.49	1.61
85	AA	302	C	C5'-C4'	9.58	1.62	1.51
85	AA	437	G	O3'-P	-9.58	1.49	1.61
34	BA	183	G	P-O5'	-9.58	1.50	1.59
34	BA	539	C	P-O5'	-9.58	1.50	1.59
34	BA	616	G	C2'-C1'	-9.58	1.42	1.53
85	AA	248	U	O3'-P	-9.58	1.49	1.61
85	AA	627	A	N9-C4	-9.58	1.32	1.37
35	BB	663	G	P-O5'	-9.58	1.50	1.59
41	BH	132	C	P-O5'	-9.58	1.50	1.59
34	BA	967	C	O3'-P	-9.57	1.49	1.61
34	BA	1327	G	O3'-P	-9.57	1.49	1.61
35	BB	611	U	O3'-P	-9.57	1.49	1.61
35	BB	1027	U	O3'-P	-9.57	1.49	1.61
34	BA	798	G	P-O5'	-9.57	1.50	1.59
35	BB	675	U	O3'-P	-9.57	1.49	1.61
37	BD	32	A	O3'-P	-9.57	1.49	1.61
37	BD	108	G	N7-C5	-9.57	1.33	1.39
34	BA	320	G	N7-C5	-9.57	1.33	1.39
35	BB	662	G	C2'-C1'	-9.57	1.42	1.53
35	BB	852	G	P-O5'	-9.57	1.50	1.59
35	BB	481	A	C1'-N9	-9.57	1.33	1.46
35	BB	1340	U	C3'-C2'	-9.57	1.42	1.52
85	AA	2010	C	P-O5'	-9.57	1.50	1.59
41	BH	15	A	P-O5'	-9.56	1.50	1.59
85	AA	1885	A	C2'-C1'	-9.56	1.42	1.53
85	AA	1254	A	C2'-C1'	-9.56	1.42	1.53
34	BA	908	G	P-O5'	-9.56	1.50	1.59
34	BA	1719	G	C6-N1	-9.56	1.32	1.39
36	BC	91	G	P-O5'	-9.56	1.50	1.59
85	AA	1471	G	C6-N1	-9.56	1.32	1.39
38	BE	178	G	P-O5'	-9.56	1.50	1.59
85	AA	455	G	C1'-N9	-9.56	1.33	1.46
85	AA	2058	C	C3'-C2'	-9.56	1.42	1.52
34	BA	1091	U	C2-N3	-9.56	1.31	1.37
38	BE	117	A	C4'-O4'	-9.56	1.33	1.45
39	BF	65	U	O3'-P	-9.56	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	86	U	C2'-C1'	-9.56	1.42	1.53
85	AA	1692	U	C2-N3	-9.56	1.31	1.37
85	AA	2211	G	P-O5'	-9.56	1.50	1.59
34	BA	557	U	C4'-C3'	9.56	1.63	1.53
34	BA	297	A	N3-C4	-9.55	1.29	1.34
35	BB	442	U	O3'-P	-9.55	1.49	1.61
38	BE	195	G	N9-C4	9.55	1.45	1.38
85	AA	769	C	P-O5'	-9.55	1.50	1.59
85	AA	2119	C	O3'-P	-9.55	1.49	1.61
34	BA	1802	C	C2'-C1'	-9.55	1.42	1.53
35	BB	654	C	P-O5'	-9.55	1.50	1.59
41	BH	110	C	O3'-P	-9.55	1.49	1.61
85	AA	1487	G	C1'-N9	-9.55	1.33	1.46
35	BB	1284	U	C2-N3	-9.55	1.31	1.37
34	BA	150	C	C4'-C3'	-9.55	1.42	1.53
34	BA	1052	G	N9-C4	-9.54	1.30	1.38
34	BA	1598	U	O3'-P	-9.54	1.49	1.61
34	BA	1599	A	N9-C4	-9.54	1.32	1.37
35	BB	374	A	C1'-N9	-9.55	1.33	1.46
35	BB	485	U	P-O5'	-9.54	1.50	1.59
85	AA	1238	U	O3'-P	-9.54	1.49	1.61
34	BA	705	C	C3'-C2'	-9.54	1.42	1.52
34	BA	1193	A	P-O5'	-9.54	1.50	1.59
36	BC	24	G	N9-C4	-9.54	1.30	1.38
85	AA	2129	U	P-O5'	-9.54	1.50	1.59
34	BA	365	A	P-O5'	-9.54	1.50	1.59
35	BB	704	G	P-O5'	-9.54	1.50	1.59
38	BE	139	U	O3'-P	-9.54	1.49	1.61
39	BF	25	G	N7-C5	-9.54	1.33	1.39
41	BH	119	U	O4'-C1'	-9.54	1.29	1.41
85	AA	1566	A	P-O5'	-9.54	1.50	1.59
34	BA	133	A	N9-C4	-9.54	1.32	1.37
34	BA	1687	A	O3'-P	-9.54	1.49	1.61
35	BB	608	A	O3'-P	-9.54	1.49	1.61
85	AA	2011	C	C2'-C1'	-9.54	1.42	1.53
85	AA	2223	C	P-O5'	-9.53	1.50	1.59
34	BA	1260	G	C5-C4	-9.53	1.31	1.38
35	BB	375	G	O3'-P	-9.53	1.49	1.61
35	BB	1421	C	C2-N3	-9.53	1.28	1.35
41	BH	38	G	C2'-C1'	-9.53	1.42	1.53
34	BA	74	A	C1'-N9	-9.53	1.33	1.46
34	BA	733	G	N9-C4	-9.53	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	556	U	C3'-C2'	-9.53	1.42	1.52
34	BA	1559	C	C3'-C2'	-9.53	1.42	1.52
35	BB	703	U	O3'-P	-9.53	1.49	1.61
34	BA	893	U	O3'-P	-9.53	1.49	1.61
34	BA	1307	U	P-O5'	-9.53	1.50	1.59
35	BB	1386	C	P-O5'	-9.53	1.50	1.59
85	AA	736	U	C2'-C1'	-9.53	1.42	1.53
36	BC	29	C	N1-C2	-9.53	1.30	1.40
34	BA	135	G	C3'-C2'	-9.52	1.42	1.52
35	BB	667	G	O3'-P	-9.52	1.49	1.61
85	AA	307	G	C2'-C1'	-9.52	1.42	1.53
85	AA	1282	A	N9-C4	-9.52	1.32	1.37
85	AA	1650	G	O3'-P	-9.52	1.49	1.61
85	AA	1271	U	P-O5'	-9.52	1.50	1.59
34	BA	975	A	O3'-P	-9.52	1.49	1.61
34	BA	1675	C	C3'-C2'	-9.52	1.42	1.52
37	BD	83	A	P-O5'	-9.52	1.50	1.59
34	BA	1108	U	P-O5'	-9.52	1.50	1.59
35	BB	35	G	C5-C4	-9.52	1.31	1.38
34	BA	809	U	P-O5'	-9.52	1.50	1.59
35	BB	688	U	C2-N3	-9.52	1.31	1.37
85	AA	449	G	N9-C4	-9.52	1.30	1.38
34	BA	45	A	N7-C5	-9.51	1.33	1.39
34	BA	790	G	N9-C4	-9.51	1.30	1.38
85	AA	119	G	N9-C4	-9.51	1.30	1.38
35	BB	131	A	P-O5'	-9.51	1.50	1.59
34	BA	372	U	C2-N3	-9.51	1.31	1.37
34	BA	1486	U	C2'-C1'	-9.51	1.42	1.53
34	BA	1635	A	P-O5'	-9.51	1.50	1.59
34	BA	423	G	O3'-P	-9.51	1.49	1.61
34	BA	1328	U	C3'-C2'	-9.51	1.42	1.52
34	BA	1560	U	C2-N3	-9.51	1.31	1.37
35	BB	651	G	N7-C5	-9.51	1.33	1.39
34	BA	1816	G	C5-C4	-9.51	1.31	1.38
35	BB	661	G	O3'-P	-9.51	1.49	1.61
38	BE	46	G	O3'-P	-9.51	1.49	1.61
85	AA	194	U	P-O5'	-9.51	1.50	1.59
85	AA	369	A	N9-C4	-9.51	1.32	1.37
34	BA	125	G	O3'-P	-9.50	1.49	1.61
34	BA	213	A	N9-C4	-9.50	1.32	1.37
34	BA	932	G	N7-C5	-9.50	1.33	1.39
34	BA	1290	A	N9-C4	-9.50	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2039	G	C4'-C3'	-9.50	1.42	1.53
34	BA	713	C	C2'-C1'	-9.50	1.42	1.53
34	BA	1522	G	C1'-N9	-9.50	1.33	1.46
35	BB	1517	G	N7-C5	-9.50	1.33	1.39
38	BE	108	U	C3'-C2'	-9.50	1.42	1.52
40	BG	136	G	C2'-C1'	-9.50	1.43	1.53
85	AA	1137	C	P-O5'	-9.50	1.50	1.59
40	BG	168	A	N9-C4	-9.50	1.32	1.37
34	BA	300	C	C2'-C1'	-9.50	1.43	1.53
85	AA	745	C	P-O5'	-9.50	1.50	1.59
34	BA	800	G	C2'-C1'	-9.50	1.43	1.53
34	BA	1329	U	O3'-P	-9.50	1.49	1.61
34	BA	670	U	C2-N3	-9.49	1.31	1.37
34	BA	390	A	O3'-P	-9.49	1.49	1.61
34	BA	1279	U	C2-N3	-9.49	1.31	1.37
35	BB	1114	A	P-O5'	-9.49	1.50	1.59
36	BC	125	A	C2'-C1'	-9.49	1.43	1.53
37	BD	31	U	P-O5'	-9.49	1.50	1.59
38	BE	13	A	C2'-C1'	-9.49	1.43	1.53
38	BE	47	U	O3'-P	-9.49	1.49	1.61
41	BH	39	G	C2'-C1'	-9.49	1.43	1.53
85	AA	85	U	P-O5'	-9.49	1.50	1.59
85	AA	604	C	O3'-P	-9.49	1.49	1.61
34	BA	323	C	C3'-C2'	-9.49	1.42	1.52
34	BA	452	A	P-O5'	-9.49	1.50	1.59
34	BA	1157	A	N9-C4	-9.49	1.32	1.37
34	BA	1555	G	C2'-C1'	-9.49	1.43	1.53
35	BB	992	C	O3'-P	-9.49	1.49	1.61
85	AA	1262	A	C2'-C1'	-9.49	1.43	1.53
85	AA	1502	A	C2'-C1'	-9.49	1.43	1.53
34	BA	851	C	O3'-P	-9.48	1.49	1.61
34	BA	1018	U	N3-C4	-9.48	1.29	1.38
34	BA	1531	G	C2'-C1'	-9.48	1.43	1.53
35	BB	881	G	P-O5'	-9.48	1.50	1.59
36	BC	61	A	N9-C4	-9.48	1.32	1.37
37	BD	32	A	P-O5'	-9.48	1.50	1.59
40	BG	40	G	C6-N1	-9.48	1.32	1.39
85	AA	259	A	P-O5'	-9.48	1.50	1.59
38	BE	105	A	P-O5'	-9.48	1.50	1.59
34	BA	649	A	P-O5'	-9.48	1.50	1.59
34	BA	906	A	N3-C4	-9.48	1.29	1.34
35	BB	1389	C	P-O5'	-9.48	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	59	G	N9-C4	-9.48	1.30	1.38
41	BH	38	G	N9-C4	-9.48	1.30	1.38
85	AA	994	A	P-O5'	-9.48	1.50	1.59
34	BA	557	U	C4'-O4'	9.48	1.57	1.45
85	AA	2103	C	O3'-P	-9.48	1.49	1.61
37	BD	60	C	P-O5'	-9.48	1.50	1.59
85	AA	465	A	P-O5'	-9.48	1.50	1.59
85	AA	806	G	C2'-C1'	-9.48	1.43	1.53
34	BA	1510	C	O3'-P	-9.47	1.49	1.61
34	BA	1840	C	O3'-P	-9.47	1.49	1.61
35	BB	49	A	O3'-P	-9.47	1.49	1.61
35	BB	456	A	O3'-P	-9.47	1.49	1.61
35	BB	588	A	N9-C4	-9.47	1.32	1.37
36	BC	109	A	N9-C4	-9.47	1.32	1.37
40	BG	1	G	N9-C4	-9.47	1.30	1.38
34	BA	1152	A	O3'-P	-9.47	1.49	1.61
34	BA	138	C	C3'-C2'	-9.47	1.42	1.52
35	BB	1062	G	C2'-C1'	-9.47	1.43	1.53
36	BC	73	U	C3'-C2'	-9.47	1.42	1.52
36	BC	75	G	C6-N1	-9.47	1.32	1.39
85	AA	1460	G	N9-C4	-9.47	1.30	1.38
34	BA	654	C	P-O5'	-9.47	1.50	1.59
34	BA	1573	C	O3'-P	-9.47	1.49	1.61
35	BB	1385	C	P-O5'	-9.47	1.50	1.59
36	BC	3	C	N1-C6	-9.47	1.31	1.37
39	BF	65	U	C2-N3	-9.47	1.31	1.37
34	BA	892	C	N3-C4	-9.47	1.27	1.33
35	BB	1427	A	P-O5'	-9.47	1.50	1.59
35	BB	1482	A	O3'-P	-9.47	1.49	1.61
38	BE	13	A	C5'-C4'	9.47	1.62	1.51
40	BG	163	G	N9-C4	-9.47	1.30	1.38
85	AA	2124	G	O3'-P	-9.47	1.49	1.61
34	BA	21	C	O3'-P	-9.46	1.49	1.61
34	BA	1210	A	C4'-C3'	-9.46	1.42	1.53
35	BB	487	A	N9-C4	-9.46	1.32	1.37
35	BB	491	A	C2'-C1'	-9.46	1.43	1.53
38	BE	114	G	C4'-C3'	-9.46	1.42	1.53
85	AA	605	A	C8-N7	-9.46	1.25	1.31
34	BA	1213	A	C1'-N9	-9.46	1.33	1.46
34	BA	1672	C	O3'-P	-9.46	1.49	1.61
35	BB	1407	U	O3'-P	-9.46	1.49	1.61
36	BC	4	G	C2'-C1'	-9.46	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	131	A	N9-C4	-9.46	1.32	1.37
34	BA	1171	C	P-O5'	-9.46	1.50	1.59
34	BA	1474	G	O3'-P	-9.46	1.49	1.61
34	BA	790	G	C2-N2	-9.46	1.25	1.34
34	BA	1054	U	P-O5'	-9.46	1.50	1.59
39	BF	49	C	O3'-P	-9.45	1.49	1.61
40	BG	179	C	O3'-P	-9.45	1.49	1.61
85	AA	718	C	P-O5'	-9.46	1.50	1.59
85	AA	2182	A	P-O5'	-9.45	1.50	1.59
34	BA	216	C	C2'-C1'	-9.45	1.43	1.53
34	BA	1077	G	P-O5'	-9.45	1.50	1.59
34	BA	1283	U	O3'-P	-9.45	1.49	1.61
34	BA	1556	A	C2'-C1'	-9.45	1.43	1.53
34	BA	1668	C	O3'-P	-9.45	1.49	1.61
34	BA	1678	U	P-O5'	-9.45	1.50	1.59
36	BC	31	A	P-O5'	-9.45	1.50	1.59
85	AA	1677	A	N9-C4	-9.45	1.32	1.37
34	BA	94	G	C6-N1	-9.45	1.32	1.39
36	BC	16	A	C6-N6	-9.45	1.26	1.33
38	BE	95	G	P-O5'	-9.45	1.50	1.59
40	BG	171	A	N7-C5	-9.45	1.33	1.39
85	AA	534	A	N9-C4	-9.45	1.32	1.37
85	AA	637	U	O3'-P	-9.45	1.49	1.61
34	BA	881	C	O3'-P	-9.45	1.49	1.61
85	AA	16	G	C5-C4	-9.45	1.31	1.38
35	BB	1164	U	O3'-P	-9.45	1.49	1.61
85	AA	495	G	O3'-P	-9.45	1.49	1.61
34	BA	682	A	N9-C4	-9.44	1.32	1.37
40	BG	120	U	P-O5'	-9.44	1.50	1.59
85	AA	710	A	N7-C5	-9.44	1.33	1.39
85	AA	926	C	O3'-P	-9.44	1.49	1.61
85	AA	710	A	O3'-P	-9.44	1.49	1.61
85	AA	1124	G	O3'-P	-9.44	1.49	1.61
34	BA	892	C	O3'-P	-9.44	1.49	1.61
37	BD	27	A	P-O5'	-9.44	1.50	1.59
38	BE	23	G	C6-N1	-9.44	1.32	1.39
85	AA	695	A	O3'-P	-9.44	1.49	1.61
85	AA	288	G	P-O5'	-9.44	1.50	1.59
35	BB	82	G	C2'-C1'	-9.43	1.43	1.53
35	BB	647	U	O3'-P	-9.43	1.49	1.61
35	BB	1377	A	O3'-P	-9.43	1.49	1.61
36	BC	102	G	N9-C4	-9.43	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	143	C	O3'-P	-9.43	1.49	1.61
85	AA	547	A	N9-C4	-9.43	1.32	1.37
34	BA	177	G	C2-N2	-9.43	1.25	1.34
34	BA	1283	U	C3'-C2'	-9.43	1.42	1.52
35	BB	485	U	C2-N3	-9.43	1.31	1.37
35	BB	1114	A	N7-C5	-9.43	1.33	1.39
35	BB	1285	U	O3'-P	-9.43	1.49	1.61
36	BC	74	U	P-O5'	-9.43	1.50	1.59
85	AA	687	G	N7-C5	-9.43	1.33	1.39
34	BA	871	G	N7-C5	-9.43	1.33	1.39
85	AA	173	A	O3'-P	-9.43	1.49	1.61
34	BA	31	A	O3'-P	-9.43	1.49	1.61
34	BA	399	G	N3-C4	-9.43	1.28	1.35
34	BA	940	C	C3'-C2'	-9.43	1.42	1.52
35	BB	389	G	O3'-P	-9.43	1.49	1.61
39	BF	11	C	O3'-P	-9.43	1.49	1.61
85	AA	174	U	O3'-P	-9.43	1.49	1.61
34	BA	1204	U	P-O5'	-9.42	1.50	1.59
37	BD	89	G	C2'-C1'	-9.42	1.43	1.53
40	BG	133	C	P-O5'	-9.42	1.50	1.59
34	BA	203	U	P-O5'	-9.42	1.50	1.59
34	BA	907	A	N9-C4	-9.42	1.32	1.37
34	BA	1511	C	C3'-C2'	-9.42	1.42	1.52
35	BB	1300	U	P-O5'	-9.42	1.50	1.59
85	AA	331	G	P-O5'	-9.42	1.50	1.59
34	BA	272	A	O3'-P	-9.42	1.49	1.61
34	BA	520	G	N7-C5	-9.42	1.33	1.39
35	BB	694	C	C2-N3	-9.42	1.28	1.35
35	BB	1040	C	C2'-C1'	-9.42	1.43	1.53
85	AA	1486	G	N9-C8	-9.42	1.31	1.37
34	BA	1704	G	P-O5'	-9.42	1.50	1.59
34	BA	1713	U	O3'-P	-9.42	1.49	1.61
34	BA	1732	A	N7-C5	-9.42	1.33	1.39
34	BA	983	A	C2'-C1'	-9.42	1.43	1.53
34	BA	1037	C	C3'-C2'	-9.42	1.42	1.52
34	BA	1335	A	C3'-C2'	-9.42	1.42	1.52
34	BA	1719	G	N9-C8	-9.42	1.31	1.37
35	BB	501	G	C6-N1	-9.42	1.32	1.39
37	BD	114	U	P-O5'	-9.42	1.50	1.59
86	AB	63	G	C2'-C1'	-9.42	1.43	1.53
35	BB	901	U	P-O5'	-9.41	1.50	1.59
35	BB	1237	C	C2'-C1'	-9.41	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1296	A	N7-C5	-9.41	1.33	1.39
38	BE	141	A	N7-C5	-9.41	1.33	1.39
40	BG	74	G	C6-N1	-9.41	1.32	1.39
85	AA	572	G	C2-N2	-9.41	1.25	1.34
85	AA	1474	U	O3'-P	-9.41	1.49	1.61
85	AA	1549	G	O3'-P	-9.41	1.49	1.61
35	BB	1401	G	N7-C5	-9.41	1.33	1.39
85	AA	425	G	C2'-C1'	-9.41	1.43	1.53
85	AA	1493	A	N7-C5	-9.41	1.33	1.39
85	AA	690	G	N1-C2	-9.41	1.30	1.37
85	AA	2054	G	O3'-P	-9.41	1.49	1.61
34	BA	961	C	O3'-P	-9.41	1.49	1.61
34	BA	1615	A	O3'-P	-9.41	1.49	1.61
40	BG	177	U	C2-N3	-9.41	1.31	1.37
35	BB	1115	G	P-O5'	-9.41	1.50	1.59
36	BC	90	U	N1-C2	-9.41	1.30	1.38
85	AA	505	U	C4'-C3'	-9.41	1.42	1.53
85	AA	1182	A	O3'-P	-9.41	1.49	1.61
35	BB	72	G	C3'-C2'	-9.40	1.42	1.52
35	BB	705	C	P-O5'	-9.40	1.50	1.59
41	BH	72	G	P-O5'	9.40	1.69	1.59
85	AA	627	A	C2'-C1'	-9.40	1.43	1.53
85	AA	1879	U	P-O5'	-9.40	1.50	1.59
85	AA	2094	U	O3'-P	-9.40	1.49	1.61
85	AA	1481	U	C2-N3	-9.40	1.31	1.37
85	AA	1923	A	N9-C4	-9.40	1.32	1.37
34	BA	1841	A	P-O5'	-9.40	1.50	1.59
35	BB	474	G	N9-C4	-9.40	1.30	1.38
35	BB	1441	C	C2'-C1'	-9.40	1.43	1.53
85	AA	995	G	N9-C4	-9.40	1.30	1.38
37	BD	41	G	P-O5'	-9.40	1.50	1.59
34	BA	58	A	P-O5'	-9.40	1.50	1.59
34	BA	1609	U	O3'-P	-9.40	1.49	1.61
40	BG	175	G	C2'-C1'	-9.40	1.43	1.53
34	BA	391	U	O3'-P	-9.40	1.49	1.61
35	BB	488	G	C2'-C1'	-9.40	1.43	1.53
35	BB	1192	C	O3'-P	-9.40	1.49	1.61
35	BB	1306	G	C6-N1	-9.40	1.32	1.39
35	BB	1378	U	C2-N3	-9.40	1.31	1.37
36	BC	126	G	P-O5'	-9.40	1.50	1.59
40	BG	119	A	P-O5'	-9.40	1.50	1.59
85	AA	338	G	P-O5'	-9.40	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	596	A	N9-C4	-9.40	1.32	1.37
85	AA	709	A	N9-C4	-9.40	1.32	1.37
35	BB	1019	C	O3'-P	-9.39	1.49	1.61
85	AA	707	U	P-O5'	-9.39	1.50	1.59
34	BA	1567	G	P-O5'	-9.39	1.50	1.59
35	BB	494	C	C2'-C1'	-9.39	1.43	1.53
35	BB	97	U	O3'-P	-9.39	1.49	1.61
35	BB	661	G	N3-C4	-9.39	1.28	1.35
85	AA	156	G	N7-C5	-9.39	1.33	1.39
85	AA	682	C	O3'-P	-9.39	1.49	1.61
85	AA	2184	A	P-O5'	-9.39	1.50	1.59
85	AA	2214	A	C2'-C1'	-9.39	1.43	1.53
34	BA	159	U	C2'-C1'	-9.39	1.43	1.53
34	BA	825	G	N7-C5	-9.39	1.33	1.39
34	BA	1711	G	C5-C4	-9.39	1.31	1.38
35	BB	426	A	O3'-P	-9.39	1.49	1.61
34	BA	1816	G	C2'-C1'	-9.39	1.43	1.53
37	BD	95	G	N1-C2	-9.39	1.30	1.37
85	AA	2139	G	N9-C8	-9.39	1.31	1.37
35	BB	506	G	C3'-C2'	-9.39	1.42	1.52
35	BB	1486	C	O3'-P	-9.39	1.49	1.61
85	AA	629	A	O3'-P	-9.39	1.49	1.61
34	BA	328	A	C2'-C1'	-9.38	1.43	1.53
34	BA	1468	U	O3'-P	-9.38	1.49	1.61
85	AA	2191	C	O3'-P	-9.38	1.49	1.61
34	BA	708	C	O3'-P	-9.38	1.49	1.61
36	BC	144	C	C3'-C2'	-9.38	1.42	1.52
40	BG	49	A	C1'-N9	-9.38	1.33	1.46
85	AA	2182	A	O3'-P	-9.38	1.49	1.61
85	AA	1194	U	C2-N3	-9.38	1.31	1.37
34	BA	338	U	P-O5'	-9.38	1.50	1.59
85	AA	2175	U	O3'-P	-9.38	1.49	1.61
39	BF	34	C	C2-N3	-9.37	1.28	1.35
35	BB	79	U	O3'-P	-9.37	1.50	1.61
34	BA	727	G	N7-C5	-9.37	1.33	1.39
36	BC	41	A	C2'-C1'	-9.37	1.43	1.53
40	BG	73	U	O3'-P	-9.37	1.50	1.61
85	AA	706	U	C2-N3	-9.37	1.31	1.37
85	AA	2037	A	O3'-P	-9.37	1.50	1.61
34	BA	117	C	C2'-C1'	-9.37	1.43	1.53
34	BA	1550	G	C1'-N9	-9.37	1.33	1.46
35	BB	1311	G	O3'-P	-9.37	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	443	A	C2'-C1'	-9.37	1.43	1.53
34	BA	82	A	C2'-C1'	-9.36	1.43	1.53
85	AA	486	G	O3'-P	-9.36	1.50	1.61
35	BB	1449	G	O3'-P	-9.36	1.50	1.61
35	BB	1470	G	C4'-C3'	9.36	1.63	1.53
85	AA	97	A	C2'-C1'	-9.36	1.43	1.53
34	BA	193	C	O3'-P	-9.36	1.50	1.61
37	BD	32	A	C3'-C2'	-9.36	1.42	1.52
38	BE	116	U	C2-N3	-9.36	1.31	1.37
85	AA	352	G	N9-C4	-9.36	1.30	1.38
34	BA	23	A	C1'-N9	-9.36	1.33	1.46
34	BA	503	C	C2'-C1'	-9.36	1.43	1.53
34	BA	517	A	C5-C4	-9.36	1.32	1.38
34	BA	1070	G	N9-C4	-9.36	1.30	1.38
35	BB	391	G	N1-C2	-9.36	1.30	1.37
35	BB	1270	C	P-O5'	-9.36	1.50	1.59
85	AA	94	C	P-O5'	-9.36	1.50	1.59
39	BF	69	A	C2'-C1'	-9.35	1.43	1.53
34	BA	52	G	C2'-C1'	-9.35	1.43	1.53
34	BA	476	U	P-O5'	-9.35	1.50	1.59
34	BA	1657	A	N7-C5	-9.35	1.33	1.39
35	BB	832	C	C3'-C2'	-9.35	1.42	1.52
35	BB	1369	A	P-O5'	-9.35	1.50	1.59
85	AA	1541	G	O3'-P	-9.35	1.50	1.61
85	AA	2135	A	P-O5'	-9.35	1.50	1.59
40	BG	16	G	P-O5'	-9.35	1.50	1.59
34	BA	400	A	C1'-N9	-9.35	1.33	1.46
34	BA	1210	A	N9-C4	-9.35	1.32	1.37
38	BE	147	G	C1'-N9	-9.35	1.33	1.46
34	BA	857	C	C3'-C2'	-9.35	1.42	1.52
38	BE	124	G	P-O5'	-9.35	1.50	1.59
35	BB	552	C	O3'-P	-9.34	1.50	1.61
35	BB	1145	G	N7-C5	-9.34	1.33	1.39
39	BF	52	A	O3'-P	-9.34	1.50	1.61
34	BA	1282	G	C3'-C2'	-9.34	1.42	1.52
34	BA	1426	A	N7-C5	-9.34	1.33	1.39
36	BC	160	C	C3'-C2'	-9.34	1.42	1.52
34	BA	195	G	C6-N1	-9.34	1.33	1.39
34	BA	1257	U	O3'-P	-9.34	1.50	1.61
34	BA	453	A	P-O5'	-9.34	1.50	1.59
36	BC	43	A	C5-C4	-9.34	1.32	1.38
37	BD	89	G	N7-C5	-9.34	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	BF	43	U	O3'-P	-9.34	1.50	1.61
85	AA	1667	C	O3'-P	-9.34	1.50	1.61
34	BA	211	C	C3'-C2'	-9.33	1.42	1.52
34	BA	712	C	O3'-P	-9.33	1.50	1.61
34	BA	860	G	P-O5'	-9.33	1.50	1.59
35	BB	620	G	O3'-P	-9.33	1.50	1.61
34	BA	262	A	N3-C4	-9.33	1.29	1.34
34	BA	759	A	O3'-P	-9.33	1.50	1.61
34	BA	996	U	C3'-C2'	-9.33	1.42	1.52
34	BA	1312	A	O3'-P	-9.33	1.50	1.61
34	BA	768	G	P-O5'	-9.33	1.50	1.59
35	BB	1033	U	C2'-C1'	-9.33	1.43	1.53
35	BB	1281	G	N9-C4	-9.33	1.30	1.38
85	AA	463	G	N9-C4	-9.33	1.30	1.38
85	AA	1366	A	P-O5'	-9.33	1.50	1.59
34	BA	1486	U	O3'-P	-9.33	1.50	1.61
35	BB	384	A	N3-C4	-9.33	1.29	1.34
35	BB	454	U	P-O5'	-9.33	1.50	1.59
36	BC	113	G	C2'-C1'	-9.33	1.43	1.53
38	BE	123	A	O3'-P	-9.33	1.50	1.61
85	AA	179	G	P-O5'	-9.33	1.50	1.59
85	AA	768	C	P-O5'	-9.33	1.50	1.59
85	AA	1165	C	O3'-P	-9.33	1.50	1.61
85	AA	2007	G	N9-C4	-9.33	1.30	1.38
38	BE	146	U	N3-C4	-9.32	1.30	1.38
85	AA	470	C	C2-N3	-9.32	1.28	1.35
34	BA	1049	G	P-O5'	-9.32	1.50	1.59
34	BA	1695	G	C3'-C2'	-9.32	1.42	1.52
35	BB	1116	U	P-O5'	-9.32	1.50	1.59
38	BE	20	C	C2-N3	-9.32	1.28	1.35
40	BG	134	U	P-O5'	-9.32	1.50	1.59
85	AA	70	U	C2-N3	-9.32	1.31	1.37
34	BA	1725	U	C4'-C3'	-9.32	1.42	1.53
35	BB	1286	G	C2'-C1'	-9.32	1.43	1.53
38	BE	25	U	P-O5'	-9.32	1.50	1.59
85	AA	241	U	P-O5'	-9.32	1.50	1.59
85	AA	1463	A	O3'-P	-9.32	1.50	1.61
34	BA	220	U	P-O5'	-9.32	1.50	1.59
34	BA	419	U	C2-N3	-9.32	1.31	1.37
34	BA	506	U	C2'-C1'	-9.32	1.43	1.53
34	BA	1260	G	N1-C2	-9.32	1.30	1.37
38	BE	199	A	C2'-C1'	-9.32	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	452	A	O3'-P	-9.32	1.50	1.61
34	BA	670	U	O3'-P	-9.32	1.50	1.61
35	BB	52	G	C1'-N9	-9.32	1.33	1.46
35	BB	582	G	C4'-C3'	-9.32	1.43	1.53
35	BB	866	A	P-O5'	-9.32	1.50	1.59
41	BH	129	G	C2'-C1'	-9.32	1.43	1.53
34	BA	685	C	C5'-C4'	9.31	1.62	1.51
34	BA	1239	G	C6-N1	-9.31	1.33	1.39
85	AA	785	C	P-O5'	-9.31	1.50	1.59
36	BC	134	G	C2'-C1'	-9.31	1.43	1.53
85	AA	530	A	P-O5'	-9.31	1.50	1.59
85	AA	1571	A	C2'-C1'	-9.31	1.43	1.53
34	BA	51	C	C2-N3	-9.31	1.28	1.35
34	BA	88	C	C4'-O4'	-9.31	1.33	1.45
35	BB	1535	G	O3'-P	-9.31	1.50	1.61
35	BB	594	U	C2-N3	-9.31	1.31	1.37
35	BB	1014	U	P-O5'	-9.31	1.50	1.59
35	BB	1222	A	N7-C5	-9.31	1.33	1.39
83	Bx	48	GLY	CA-C	9.31	1.66	1.51
85	AA	463	G	C1'-N9	-9.31	1.33	1.46
85	AA	1575	G	P-O5'	-9.31	1.50	1.59
35	BB	118	A	N9-C4	-9.31	1.32	1.37
34	BA	1598	U	N1-C2	-9.31	1.30	1.38
40	BG	41	U	O3'-P	-9.31	1.50	1.61
34	BA	161	U	C4-C5	-9.30	1.35	1.43
34	BA	407	A	O3'-P	-9.31	1.50	1.61
34	BA	691	A	C2'-C1'	-9.31	1.43	1.53
34	BA	1178	U	P-O5'	-9.31	1.50	1.59
34	BA	1742	G	C2'-C1'	-9.30	1.43	1.53
85	AA	1122	U	P-O5'	-9.31	1.50	1.59
34	BA	909	G	C5-C4	-9.30	1.31	1.38
34	BA	925	G	N3-C4	-9.30	1.28	1.35
34	BA	1648	G	O3'-P	-9.30	1.50	1.61
34	BA	703	U	O3'-P	-9.30	1.50	1.61
34	BA	1796	A	C2'-C1'	-9.30	1.43	1.53
34	BA	1094	U	O3'-P	-9.30	1.50	1.61
35	BB	1145	G	O3'-P	-9.30	1.50	1.61
85	AA	351	C	P-O5'	-9.30	1.50	1.59
86	AB	6	G	P-O5'	-9.30	1.50	1.59
38	BE	16	C	O3'-P	-9.30	1.50	1.61
85	AA	548	G	C2'-C1'	-9.30	1.43	1.53
85	AA	2190	U	C2-N3	-9.30	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	349	G	C6-N1	-9.30	1.33	1.39
35	BB	576	A	O3'-P	-9.30	1.50	1.61
85	AA	1585	A	N9-C4	-9.30	1.32	1.37
35	BB	1145	G	P-O5'	-9.30	1.50	1.59
34	BA	321	G	C5-C4	-9.29	1.31	1.38
34	BA	843	G	O3'-P	-9.29	1.50	1.61
34	BA	930	A	N9-C4	-9.30	1.32	1.37
35	BB	806	U	C4-C5	-9.29	1.35	1.43
41	BH	41	A	C2'-C1'	-9.29	1.43	1.53
85	AA	1258	U	P-O5'	-9.29	1.50	1.59
85	AA	2031	C	P-O5'	-9.29	1.50	1.59
34	BA	936	A	C3'-C2'	-9.29	1.42	1.52
38	BE	195	G	C2-N3	9.29	1.40	1.32
85	AA	190	A	C3'-C2'	-9.29	1.42	1.52
85	AA	190	A	C5-C4	-9.29	1.32	1.38
34	BA	1783	C	C2'-C1'	-9.29	1.43	1.53
85	AA	318	A	N9-C4	-9.29	1.32	1.37
85	AA	1928	A	C2'-C1'	-9.29	1.43	1.53
85	AA	1522	U	P-O5'	-9.29	1.50	1.59
34	BA	17	A	C2'-C1'	-9.29	1.43	1.53
35	BB	1130	U	O3'-P	-9.29	1.50	1.61
34	BA	27	G	O3'-P	-9.28	1.50	1.61
34	BA	1260	G	O3'-P	-9.28	1.50	1.61
85	AA	81	A	O3'-P	-9.29	1.50	1.61
85	AA	1356	U	O3'-P	-9.28	1.50	1.61
34	BA	753	G	O3'-P	-9.28	1.50	1.61
34	BA	350	C	P-O5'	-9.28	1.50	1.59
34	BA	825	G	C3'-C2'	-9.28	1.42	1.52
35	BB	94	A	N9-C4	-9.28	1.32	1.37
35	BB	709	G	C1'-N9	-9.28	1.33	1.46
85	AA	598	C	O3'-P	-9.28	1.50	1.61
85	AA	1528	A	P-O5'	-9.28	1.50	1.59
85	AA	1471	G	N7-C5	-9.28	1.33	1.39
85	AA	2175	U	P-O5'	-9.28	1.50	1.59
34	BA	1715	C	P-O5'	-9.28	1.50	1.59
35	BB	586	U	O3'-P	-9.28	1.50	1.61
35	BB	1292	G	N3-C4	-9.28	1.28	1.35
38	BE	89	G	C2'-C1'	-9.28	1.43	1.53
38	BE	105	A	C2'-C1'	-9.28	1.43	1.53
85	AA	1809	G	P-O5'	-9.28	1.50	1.59
34	BA	815	C	O3'-P	-9.28	1.50	1.61
85	AA	1018	G	P-O5'	-9.28	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1200	A	O3'-P	-9.28	1.50	1.61
34	BA	1690	U	O3'-P	-9.28	1.50	1.61
35	BB	107	A	N9-C4	-9.28	1.32	1.37
35	BB	692	G	C3'-C2'	-9.28	1.42	1.52
39	BF	18	U	C2-N3	-9.28	1.31	1.37
40	BG	176	G	C3'-C2'	-9.28	1.42	1.52
85	AA	497	G	P-O5'	-9.28	1.50	1.59
34	BA	29	U	O3'-P	-9.27	1.50	1.61
34	BA	1240	G	N9-C4	-9.27	1.30	1.38
35	BB	441	G	C2'-C1'	-9.27	1.43	1.53
35	BB	786	A	C2'-C1'	-9.27	1.43	1.53
35	BB	1293	C	O3'-P	-9.27	1.50	1.61
36	BC	45	C	C2'-C1'	-9.27	1.43	1.53
85	AA	1196	C	C2-N3	-9.27	1.28	1.35
34	BA	1107	A	P-O5'	-9.27	1.50	1.59
41	BH	114	G	O3'-P	-9.27	1.50	1.61
85	AA	112	A	P-O5'	-9.27	1.50	1.59
85	AA	469	G	C1'-N9	-9.27	1.33	1.46
34	BA	1311	G	C6-N1	-9.27	1.33	1.39
85	AA	774	C	P-O5'	-9.27	1.50	1.59
34	BA	495	A	C3'-C2'	-9.26	1.42	1.52
41	BH	34	G	C6-N1	-9.26	1.33	1.39
34	BA	1628	A	O3'-P	-9.26	1.50	1.61
36	BC	43	A	O3'-P	-9.26	1.50	1.61
40	BG	79	U	C2-N3	-9.26	1.31	1.37
35	BB	1375	G	C6-N1	-9.26	1.33	1.39
35	BB	27	C	P-O5'	-9.26	1.50	1.59
85	AA	71	G	C6-N1	-9.26	1.33	1.39
35	BB	1341	U	P-O5'	-9.26	1.50	1.59
34	BA	114	U	P-O5'	-9.25	1.50	1.59
34	BA	1093	G	C6-N1	-9.25	1.33	1.39
36	BC	119	G	O3'-P	-9.25	1.50	1.61
85	AA	5	U	C2'-C1'	-9.25	1.43	1.53
85	AA	1507	G	N9-C4	-9.25	1.30	1.38
85	AA	1830	U	C2-N3	-9.25	1.31	1.37
34	BA	1217	A	O3'-P	-9.25	1.50	1.61
34	BA	574	U	O3'-P	-9.25	1.50	1.61
34	BA	1265	G	O3'-P	-9.25	1.50	1.61
35	BB	447	C	O3'-P	-9.25	1.50	1.61
85	AA	519	A	C2'-C1'	-9.25	1.43	1.53
85	AA	1147	A	C1'-N9	-9.25	1.33	1.46
34	BA	137	C	P-O5'	-9.25	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	380	G	C2-N2	-9.25	1.25	1.34
40	BG	37	G	C3'-C2'	-9.25	1.42	1.52
40	BG	128	U	C2-N3	-9.25	1.31	1.37
40	BG	133	C	O3'-P	-9.25	1.50	1.61
85	AA	1452	C	O3'-P	-9.25	1.50	1.61
85	AA	1106	A	C2'-C1'	-9.25	1.43	1.53
34	BA	314	A	P-O5'	-9.24	1.50	1.59
34	BA	813	C	P-O5'	-9.24	1.50	1.59
35	BB	1400	C	O3'-P	-9.24	1.50	1.61
36	BC	7	U	P-O5'	-9.24	1.50	1.59
39	BF	48	G	O3'-P	-9.24	1.50	1.61
40	BG	9	G	C3'-O3'	-9.24	1.29	1.42
40	BG	79	U	O3'-P	-9.24	1.50	1.61
34	BA	103	G	C2'-C1'	-9.24	1.43	1.53
34	BA	605	G	P-O5'	-9.24	1.50	1.59
34	BA	1664	C	P-O5'	-9.24	1.50	1.59
40	BG	132	U	P-O5'	-9.24	1.50	1.59
41	BH	72	G	C5'-C4'	9.24	1.62	1.51
85	AA	150	U	O3'-P	-9.24	1.50	1.61
34	BA	1467	U	O3'-P	-9.24	1.50	1.61
35	BB	608	A	P-O5'	-9.24	1.50	1.59
85	AA	1151	G	N9-C4	-9.24	1.30	1.38
34	BA	517	A	C1'-N9	-9.24	1.33	1.46
34	BA	631	G	P-O5'	-9.24	1.50	1.59
85	AA	2174	G	N7-C5	-9.24	1.33	1.39
34	BA	356	C	C2'-C1'	-9.24	1.43	1.53
34	BA	1685	C	O3'-P	-9.24	1.50	1.61
35	BB	674	C	C2'-C1'	-9.24	1.43	1.53
36	BC	69	U	P-O5'	-9.24	1.50	1.59
40	BG	28	A	N9-C4	-9.24	1.32	1.37
40	BG	49	A	N9-C4	-9.24	1.32	1.37
85	AA	161	A	N9-C4	-9.24	1.32	1.37
85	AA	1149	A	O3'-P	-9.24	1.50	1.61
34	BA	1595	G	O3'-P	-9.23	1.50	1.61
34	BA	1684	A	P-O5'	-9.23	1.50	1.59
35	BB	77	A	C1'-N9	-9.23	1.33	1.46
35	BB	404	A	C3'-C2'	-9.23	1.42	1.52
85	AA	1172	A	P-O5'	-9.23	1.50	1.59
85	AA	1515	A	P-O5'	-9.23	1.50	1.59
34	BA	776	U	O3'-P	-9.23	1.50	1.61
35	BB	634	A	O3'-P	-9.23	1.50	1.61
85	AA	903	G	C4'-C3'	-9.23	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	386	G	N9-C4	-9.23	1.30	1.38
35	BB	1106	G	C6-N1	-9.23	1.33	1.39
85	AA	1650	G	N7-C5	-9.23	1.33	1.39
85	AA	1839	G	P-O5'	-9.23	1.50	1.59
85	AA	2001	C	O3'-P	-9.23	1.50	1.61
35	BB	1147	G	C3'-C2'	-9.23	1.42	1.52
85	AA	1302	A	C5'-C4'	9.23	1.62	1.51
34	BA	994	G	N9-C4	-9.23	1.30	1.38
34	BA	1017	C	O3'-P	-9.23	1.50	1.61
34	BA	1734	U	P-O5'	-9.23	1.50	1.59
85	AA	1492	U	C3'-C2'	-9.23	1.42	1.52
41	BH	41	A	C5-C4	-9.23	1.32	1.38
35	BB	421	U	C2-N3	-9.22	1.31	1.37
34	BA	937	G	C3'-C2'	-9.22	1.42	1.52
35	BB	121	A	C5-C4	-9.22	1.32	1.38
36	BC	126	G	C2'-C1'	-9.22	1.43	1.53
85	AA	2174	G	N9-C8	-9.22	1.31	1.37
35	BB	1444	U	N3-C4	-9.22	1.30	1.38
41	BH	131	A	O3'-P	-9.22	1.50	1.61
85	AA	604	C	C2'-C1'	-9.22	1.43	1.53
85	AA	1000	U	O4'-C1'	-9.22	1.29	1.41
34	BA	1457	C	P-O5'	-9.22	1.50	1.59
35	BB	1323	U	C3'-C2'	-9.22	1.42	1.52
35	BB	665	A	N7-C5	-9.22	1.33	1.39
35	BB	1109	A	O3'-P	-9.22	1.50	1.61
34	BA	614	A	P-O5'	-9.21	1.50	1.59
35	BB	129	U	C2'-C1'	-9.21	1.43	1.53
34	BA	60	A	N9-C4	-9.21	1.32	1.37
38	BE	122	G	C2'-C1'	-9.21	1.43	1.53
40	BG	24	A	N9-C4	-9.21	1.32	1.37
85	AA	1721	A	P-O5'	-9.21	1.50	1.59
34	BA	741	A	N7-C5	-9.21	1.33	1.39
35	BB	374	A	C5-C4	-9.21	1.32	1.38
85	AA	928	U	O3'-P	-9.21	1.50	1.61
85	AA	2008	G	C2-N3	-9.21	1.25	1.32
34	BA	655	U	C2-N3	-9.21	1.31	1.37
34	BA	752	A	N9-C4	-9.21	1.32	1.37
34	BA	809	U	C2'-C1'	-9.21	1.43	1.53
40	BG	16	G	C3'-C2'	-9.21	1.42	1.52
85	AA	1240	A	C1'-N9	-9.21	1.33	1.46
34	BA	1069	U	P-O5'	-9.21	1.50	1.59
34	BA	1436	A	P-O5'	-9.21	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1696	G	N1-C2	-9.21	1.30	1.37
35	BB	1118	G	P-O5'	-9.20	1.50	1.59
85	AA	1221	G	C2'-C1'	-9.20	1.43	1.53
34	BA	5	C	C3'-C2'	-9.20	1.42	1.52
34	BA	121	A	C2'-C1'	-9.20	1.43	1.53
34	BA	1284	G	C1'-N9	-9.20	1.33	1.46
35	BB	60	A	C1'-N9	-9.20	1.33	1.46
35	BB	451	A	C5-C4	-9.20	1.32	1.38
35	BB	1087	A	C3'-C2'	-9.20	1.42	1.52
41	BH	105	U	C2-N3	-9.20	1.31	1.37
85	AA	1701	G	C2-N3	-9.20	1.25	1.32
34	BA	1686	G	C2'-C1'	-9.20	1.43	1.53
85	AA	533	C	C2'-C1'	-9.20	1.43	1.53
35	BB	84	G	P-O5'	-9.20	1.50	1.59
85	AA	696	G	C2-N3	-9.20	1.25	1.32
85	AA	982	G	C2'-C1'	-9.20	1.43	1.53
34	BA	1234	U	C3'-C2'	-9.20	1.42	1.52
34	BA	1255	G	N9-C4	-9.20	1.30	1.38
34	BA	1687	A	C2'-C1'	-9.20	1.43	1.53
36	BC	12	A	C5-C4	-9.20	1.32	1.38
37	BD	107	G	N7-C5	-9.20	1.33	1.39
38	BE	145	A	O3'-P	-9.20	1.50	1.61
85	AA	545	A	C2'-C1'	-9.20	1.43	1.53
34	BA	1098	G	O3'-P	-9.20	1.50	1.61
35	BB	627	G	P-O5'	-9.20	1.50	1.59
35	BB	1129	C	O3'-P	-9.20	1.50	1.61
35	BB	1146	C	O3'-P	-9.20	1.50	1.61
35	BB	1294	C	P-O5'	-9.20	1.50	1.59
40	BG	124	A	O3'-P	-9.20	1.50	1.61
40	BG	164	U	O3'-P	-9.20	1.50	1.61
85	AA	681	G	N9-C4	-9.20	1.30	1.38
85	AA	2193	A	O3'-P	-9.20	1.50	1.61
85	AA	2241	C	P-O5'	-9.20	1.50	1.59
35	BB	1361	A	P-O5'	-9.19	1.50	1.59
37	BD	65	G	C5-C4	-9.19	1.31	1.38
40	BG	39	A	C1'-N9	-9.20	1.33	1.46
85	AA	1190	G	N9-C4	-9.20	1.30	1.38
85	AA	2137	A	N3-C4	-9.20	1.29	1.34
34	BA	12	G	C2-N3	-9.19	1.25	1.32
34	BA	395	G	N3-C4	-9.19	1.29	1.35
34	BA	915	A	O3'-P	-9.19	1.50	1.61
35	BB	415	A	N3-C4	-9.19	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1464	G	C3'-C2'	-9.19	1.42	1.52
86	AB	68	C	C2-N3	-9.19	1.28	1.35
34	BA	76	U	C2-N3	-9.19	1.31	1.37
85	AA	2074	G	P-O5'	-9.19	1.50	1.59
41	BH	127	A	C1'-N9	-9.19	1.33	1.46
85	AA	854	A	C5'-C4'	9.19	1.62	1.51
34	BA	556	A	C3'-O3'	9.19	1.55	1.42
40	BG	20	U	C2-N3	-9.19	1.31	1.37
85	AA	925	G	O3'-P	-9.19	1.50	1.61
34	BA	736	G	O3'-P	-9.18	1.50	1.61
34	BA	232	U	C2'-C1'	-9.18	1.43	1.53
34	BA	1644	A	N9-C4	-9.18	1.32	1.37
35	BB	1032	U	O3'-P	-9.18	1.50	1.61
41	BH	133	U	C4'-C3'	-9.18	1.43	1.53
85	AA	1927	G	O3'-P	-9.18	1.50	1.61
85	AA	2106	C	P-O5'	-9.18	1.50	1.59
34	BA	1208	U	C2-N3	-9.18	1.31	1.37
36	BC	114	C	P-O5'	-9.18	1.50	1.59
85	AA	1542	A	O3'-P	-9.18	1.50	1.61
34	BA	1570	C	O3'-P	-9.18	1.50	1.61
35	BB	679	G	C6-N1	-9.18	1.33	1.39
34	BA	1808	A	N7-C5	-9.18	1.33	1.39
35	BB	390	G	C6-N1	-9.18	1.33	1.39
34	BA	757	G	N9-C4	-9.18	1.30	1.38
34	BA	917	C	C3'-C2'	-9.18	1.42	1.52
34	BA	1167	A	P-O5'	-9.18	1.50	1.59
34	BA	1707	C	C3'-C2'	-9.18	1.42	1.52
38	BE	48	G	C6-N1	-9.18	1.33	1.39
85	AA	887	A	C1'-N9	-9.18	1.34	1.46
85	AA	1565	G	O3'-P	-9.18	1.50	1.61
85	AA	2186	U	C2-N3	-9.18	1.31	1.37
34	BA	293	A	O3'-P	-9.17	1.50	1.61
34	BA	1019	C	C3'-C2'	-9.17	1.42	1.52
35	BB	1430	G	C4'-C3'	-9.17	1.43	1.53
34	BA	1164	C	O3'-P	-9.17	1.50	1.61
34	BA	1221	A	C5-C4	-9.17	1.32	1.38
35	BB	103	C	C2-N3	-9.17	1.28	1.35
35	BB	1408	G	N7-C5	-9.17	1.33	1.39
85	AA	1862	C	P-O5'	-9.17	1.50	1.59
34	BA	353	U	O3'-P	-9.17	1.50	1.61
35	BB	1070	G	C2'-C1'	-9.17	1.43	1.53
35	BB	1085	C	C2-N3	-9.17	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	198	A	O3'-P	-9.17	1.50	1.61
34	BA	1024	A	N9-C4	-9.17	1.32	1.37
34	BA	1409	A	C2'-C1'	-9.17	1.43	1.53
35	BB	1485	G	C2'-C1'	-9.17	1.43	1.53
35	BB	1198	C	O3'-P	-9.16	1.50	1.61
36	BC	81	U	O3'-P	-9.16	1.50	1.61
34	BA	73	G	C2-N2	-9.16	1.25	1.34
34	BA	800	G	C4'-O4'	-9.16	1.33	1.45
35	BB	570	A	O3'-P	-9.16	1.50	1.61
36	BC	134	G	C6-N1	-9.16	1.33	1.39
85	AA	1670	U	C2-N3	-9.16	1.31	1.37
34	BA	617	G	O4'-C1'	-9.16	1.29	1.41
37	BD	87	G	C2-N3	-9.16	1.25	1.32
35	BB	463	C	P-O5'	-9.16	1.50	1.59
35	BB	611	U	P-O5'	-9.16	1.50	1.59
38	BE	7	U	O3'-P	-9.16	1.50	1.61
85	AA	495	G	C3'-C2'	-9.16	1.42	1.52
85	AA	2238	C	N1-C6	-9.16	1.31	1.37
34	BA	672	G	N9-C4	-9.15	1.30	1.38
35	BB	429	C	C2'-C1'	-9.15	1.43	1.53
35	BB	578	G	N9-C4	-9.15	1.30	1.38
85	AA	917	A	C2'-C1'	-9.15	1.43	1.53
34	BA	18	G	P-O5'	-9.15	1.50	1.59
34	BA	1502	G	C5-C4	-9.15	1.31	1.38
41	BH	52	G	C2'-C1'	-9.15	1.43	1.53
85	AA	177	A	O3'-P	-9.15	1.50	1.61
85	AA	939	A	C5-C4	-9.15	1.32	1.38
85	AA	1896	G	N7-C5	-9.15	1.33	1.39
35	BB	131	A	O3'-P	-9.15	1.50	1.61
34	BA	1559	C	C2'-C1'	-9.15	1.43	1.53
34	BA	1707	C	P-O5'	-9.15	1.50	1.59
41	BH	112	U	C2-N3	-9.15	1.31	1.37
34	BA	126	G	N7-C5	-9.15	1.33	1.39
34	BA	341	U	O3'-P	-9.15	1.50	1.61
34	BA	391	U	P-O5'	-9.15	1.50	1.59
34	BA	1816	G	C1'-N9	-9.15	1.34	1.46
35	BB	1311	G	P-O5'	-9.15	1.50	1.59
85	AA	376	C	O3'-P	-9.15	1.50	1.61
85	AA	440	U	C2'-C1'	-9.15	1.43	1.53
85	AA	869	A	P-O5'	-9.15	1.50	1.59
34	BA	333	A	N7-C5	-9.14	1.33	1.39
34	BA	995	A	P-O5'	-9.14	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	401	U	P-O5'	-9.14	1.50	1.59
34	BA	515	U	C5'-C4'	9.14	1.62	1.51
34	BA	587	U	C4-C5	-9.14	1.35	1.43
34	BA	1511	C	O3'-P	-9.14	1.50	1.61
34	BA	1223	C	C3'-C2'	-9.14	1.42	1.52
40	BG	104	A	P-O5'	-9.14	1.50	1.59
85	AA	2203	C	C3'-C2'	-9.14	1.42	1.52
34	BA	1229	G	N9-C4	-9.14	1.30	1.38
35	BB	686	A	O3'-P	-9.14	1.50	1.61
85	AA	1518	A	P-O5'	-9.14	1.50	1.59
35	BB	959	C	P-O5'	-9.14	1.50	1.59
36	BC	14	G	N9-C8	-9.14	1.31	1.37
38	BE	147	G	O3'-P	-9.14	1.50	1.61
39	BF	62	U	C3'-C2'	-9.14	1.42	1.52
85	AA	740	A	C2'-C1'	-9.14	1.43	1.53
34	BA	291	C	O3'-P	-9.13	1.50	1.61
34	BA	426	A	P-O5'	-9.13	1.50	1.59
35	BB	1445	A	P-O5'	-9.14	1.50	1.59
34	BA	1503	U	C3'-C2'	-9.13	1.42	1.52
35	BB	553	U	P-O5'	-9.13	1.50	1.59
36	BC	65	G	O3'-P	-9.13	1.50	1.61
85	AA	1247	A	C2'-C1'	-9.13	1.43	1.53
34	BA	1563	G	C6-N1	-9.13	1.33	1.39
34	BA	1822	U	O3'-P	-9.13	1.50	1.61
35	BB	640	A	P-O5'	-9.13	1.50	1.59
35	BB	1342	C	C2-N3	-9.13	1.28	1.35
40	BG	5	G	O3'-P	-9.13	1.50	1.61
85	AA	177	A	C1'-N9	-9.13	1.34	1.46
85	AA	2206	A	P-O5'	-9.13	1.50	1.59
34	BA	694	G	N7-C5	-9.13	1.33	1.39
40	BG	76	C	O3'-P	-9.13	1.50	1.61
85	AA	857	G	P-O5'	-9.13	1.50	1.59
34	BA	669	U	C2'-C1'	-9.13	1.43	1.53
34	BA	1224	A	N9-C4	-9.13	1.32	1.37
34	BA	1424	G	N9-C4	-9.13	1.30	1.38
35	BB	1294	C	C4'-C3'	-9.13	1.43	1.53
57	BX	87	TYR	CB-CG	9.13	1.65	1.51
85	AA	1664	G	P-O5'	-9.13	1.50	1.59
35	BB	551	C	P-O5'	-9.13	1.50	1.59
40	BG	4	A	P-O5'	-9.13	1.50	1.59
85	AA	1187	G	O3'-P	-9.13	1.50	1.61
85	AA	1504	A	C1'-N9	-9.13	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1864	G	N9-C4	-9.13	1.30	1.38
34	BA	1067	G	P-O5'	-9.12	1.50	1.59
35	BB	1130	U	C2-N3	-9.12	1.31	1.37
35	BB	1505	U	C2'-C1'	-9.12	1.43	1.53
34	BA	330	A	C2'-C1'	-9.12	1.43	1.53
34	BA	399	G	C2-N3	-9.12	1.25	1.32
35	BB	1071	G	O3'-P	-9.12	1.50	1.61
36	BC	35	C	C3'-C2'	-9.12	1.42	1.52
35	BB	1161	G	O3'-P	-9.12	1.50	1.61
38	BE	205	G	P-O5'	-9.12	1.50	1.59
85	AA	31	C	O3'-P	-9.12	1.50	1.61
85	AA	509	C	C2'-C1'	-9.12	1.43	1.53
34	BA	338	U	O3'-P	-9.12	1.50	1.61
35	BB	612	A	O3'-P	-9.12	1.50	1.61
85	AA	1551	G	C6-N1	-9.12	1.33	1.39
85	AA	2138	G	N7-C5	-9.12	1.33	1.39
85	AA	511	A	O3'-P	-9.12	1.50	1.61
85	AA	2091	C	C2'-C1'	-9.12	1.43	1.53
34	BA	45	A	O3'-P	-9.12	1.50	1.61
34	BA	1109	G	C1'-N9	-9.12	1.34	1.46
35	BB	23	U	P-O5'	-9.12	1.50	1.59
35	BB	71	A	P-O5'	-9.12	1.50	1.59
35	BB	461	U	C2-N3	-9.12	1.31	1.37
35	BB	1252	G	O3'-P	-9.12	1.50	1.61
85	AA	96	C	C2-N3	-9.12	1.28	1.35
85	AA	831	C	C2'-C1'	-9.12	1.43	1.53
85	AA	960	G	C2'-C1'	-9.12	1.43	1.53
85	AA	997	U	P-O5'	-9.12	1.50	1.59
85	AA	1851	A	N9-C4	-9.12	1.32	1.37
40	BG	167	C	O3'-P	-9.11	1.50	1.61
34	BA	1475	G	N9-C4	-9.11	1.30	1.38
85	AA	440	U	O3'-P	-9.11	1.50	1.61
36	BC	49	G	O3'-P	-9.11	1.50	1.61
36	BC	124	A	C5'-C4'	9.11	1.62	1.51
85	AA	545	A	N9-C4	-9.11	1.32	1.37
85	AA	1140	G	O3'-P	-9.11	1.50	1.61
34	BA	28	C	P-O5'	-9.11	1.50	1.59
34	BA	1000	G	O3'-P	-9.11	1.50	1.61
34	BA	1066	A	P-O5'	-9.11	1.50	1.59
34	BA	1312	A	C2'-C1'	-9.11	1.43	1.53
34	BA	1612	C	P-O5'	-9.11	1.50	1.59
35	BB	1289	G	P-O5'	-9.11	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	512	U	P-O5'	-9.11	1.50	1.59
85	AA	1220	A	N7-C5	-9.11	1.33	1.39
34	BA	134	U	C3'-C2'	-9.10	1.42	1.52
34	BA	349	G	C1'-N9	-9.10	1.34	1.46
34	BA	721	A	N7-C5	-9.10	1.33	1.39
36	BC	91	G	C1'-N9	-9.10	1.34	1.46
40	BG	10	U	O4'-C1'	-9.10	1.29	1.41
34	BA	1603	A	N3-C4	-9.10	1.29	1.34
35	BB	42	A	N9-C4	-9.10	1.32	1.37
35	BB	1246	C	C3'-C2'	-9.10	1.42	1.52
34	BA	17	A	C3'-C2'	-9.10	1.42	1.52
34	BA	757	G	P-O5'	-9.10	1.50	1.59
34	BA	1234	U	O3'-P	-9.10	1.50	1.61
38	BE	129	G	P-O5'	-9.10	1.50	1.59
38	BE	203	C	P-O5'	-9.10	1.50	1.59
40	BG	35	G	C2'-C1'	-9.10	1.43	1.53
85	AA	969	U	O3'-P	-9.09	1.50	1.61
85	AA	1221	G	C1'-N9	-9.09	1.34	1.46
34	BA	128	C	C3'-C2'	-9.09	1.42	1.52
34	BA	460	G	C2'-C1'	-9.09	1.43	1.53
34	BA	481	A	O3'-P	-9.09	1.50	1.61
34	BA	1803	A	C1'-N9	-9.09	1.34	1.46
35	BB	632	U	C2'-C1'	-9.09	1.43	1.53
35	BB	410	A	N9-C4	-9.09	1.32	1.37
36	BC	46	G	P-O5'	-9.09	1.50	1.59
85	AA	1518	A	O3'-P	-9.09	1.50	1.61
40	BG	81	G	O3'-P	-9.09	1.50	1.61
85	AA	1458	G	N1-C2	-9.09	1.30	1.37
85	AA	2043	A	N9-C4	-9.09	1.32	1.37
34	BA	783	U	C2-N3	-9.09	1.31	1.37
85	AA	686	U	P-O5'	-9.09	1.50	1.59
34	BA	123	C	P-O5'	-9.09	1.50	1.59
34	BA	513	U	O3'-P	-9.09	1.50	1.61
34	BA	723	C	P-O5'	-9.09	1.50	1.59
85	AA	2146	G	C5-C4	-9.09	1.31	1.38
35	BB	460	C	C2'-C1'	-9.09	1.43	1.53
37	BD	23	A	N9-C4	-9.09	1.32	1.37
85	AA	2183	U	O3'-P	-9.09	1.50	1.61
36	BC	154	A	O3'-P	-9.09	1.50	1.61
38	BE	23	G	O3'-P	-9.09	1.50	1.61
40	BG	16	G	C1'-N9	-9.09	1.34	1.46
36	BC	129	C	P-O5'	-9.08	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	28	U	O3'-P	-9.08	1.50	1.61
41	BH	35	G	O3'-P	-9.08	1.50	1.61
34	BA	889	U	C3'-C2'	-9.08	1.42	1.52
34	BA	1510	C	C2-N3	-9.08	1.28	1.35
35	BB	425	G	C6-N1	-9.08	1.33	1.39
85	AA	1677	A	O3'-P	-9.08	1.50	1.61
37	BD	69	U	C2-N3	-9.08	1.31	1.37
34	BA	1685	C	C3'-C2'	-9.08	1.42	1.52
38	BE	68	U	C2-N3	-9.08	1.31	1.37
85	AA	1168	C	P-O5'	-9.08	1.50	1.59
34	BA	610	A	C4'-C3'	-9.07	1.43	1.53
34	BA	931	G	C1'-N9	-9.07	1.34	1.46
35	BB	775	U	C3'-C2'	-9.07	1.42	1.52
85	AA	817	G	C2'-C1'	-9.07	1.43	1.53
34	BA	478	G	C1'-N9	-9.07	1.34	1.46
85	AA	714	U	P-O5'	-9.07	1.50	1.59
35	BB	649	A	C4'-C3'	-9.07	1.43	1.53
35	BB	781	U	C2'-C1'	-9.07	1.43	1.53
34	BA	17	A	N9-C4	-9.07	1.32	1.37
34	BA	222	C	P-O5'	-9.07	1.50	1.59
35	BB	450	A	P-O5'	-9.07	1.50	1.59
34	BA	306	G	P-O5'	-9.07	1.50	1.59
34	BA	1103	G	P-O5'	-9.07	1.50	1.59
34	BA	1612	C	C3'-C2'	-9.07	1.42	1.52
35	BB	1359	G	P-O5'	-9.07	1.50	1.59
37	BD	43	U	O3'-P	-9.07	1.50	1.61
38	BE	64	A	P-O5'	-9.07	1.50	1.59
41	BH	67	G	P-O5'	-9.07	1.50	1.59
85	AA	620	U	C2-N3	-9.07	1.31	1.37
34	BA	1166	A	C2'-C1'	-9.06	1.43	1.53
85	AA	555	C	P-O5'	-9.06	1.50	1.59
34	BA	147	U	P-O5'	-9.06	1.50	1.59
85	AA	627	A	O3'-P	-9.06	1.50	1.61
34	BA	341	U	P-O5'	-9.06	1.50	1.59
34	BA	375	C	P-O5'	-9.06	1.50	1.59
34	BA	1639	U	C2-N3	-9.06	1.31	1.37
85	AA	1495	G	C1'-N9	-9.06	1.34	1.46
36	BC	160	C	O3'-P	-9.06	1.50	1.61
34	BA	1050	A	N7-C5	-9.06	1.33	1.39
34	BA	28	C	C2-N3	-9.06	1.28	1.35
36	BC	147	G	P-O5'	-9.06	1.50	1.59
37	BD	59	G	P-O5'	-9.06	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	111	U	C2-N3	-9.06	1.31	1.37
85	AA	1453	U	P-O5'	-9.06	1.50	1.59
34	BA	1276	G	C1'-N9	-9.05	1.34	1.46
35	BB	379	U	C3'-C2'	-9.05	1.42	1.52
38	BE	1	U	C2-N3	-9.06	1.31	1.37
39	BF	63	U	P-O5'	-9.06	1.50	1.59
40	BG	26	G	O3'-P	-9.05	1.50	1.61
40	BG	40	G	C1'-N9	-9.05	1.34	1.46
85	AA	1281	G	C1'-N9	-9.05	1.34	1.46
85	AA	2005	U	C4'-C3'	-9.05	1.43	1.53
34	BA	378	C	O3'-P	-9.05	1.50	1.61
34	BA	430	A	C2'-C1'	-9.05	1.43	1.53
34	BA	728	A	O3'-P	-9.05	1.50	1.61
36	BC	16	A	O3'-P	-9.05	1.50	1.61
38	BE	100	U	O3'-P	-9.05	1.50	1.61
38	BE	192	A	O3'-P	-9.05	1.50	1.61
34	BA	1262	A	C1'-N9	-9.05	1.34	1.46
40	BG	89	A	N9-C4	-9.05	1.32	1.37
40	BG	174	G	O3'-P	-9.05	1.50	1.61
34	BA	455	A	O3'-P	-9.05	1.50	1.61
85	AA	188	G	C2'-C1'	-9.05	1.43	1.53
85	AA	1580	A	O3'-P	-9.05	1.50	1.61
34	BA	413	A	N7-C5	-9.05	1.33	1.39
34	BA	890	G	C2'-C1'	-9.05	1.43	1.53
35	BB	547	A	O3'-P	-9.05	1.50	1.61
34	BA	258	C	O3'-P	-9.04	1.50	1.61
34	BA	1210	A	N7-C5	-9.05	1.33	1.39
35	BB	1371	G	C2'-C1'	-9.05	1.43	1.53
36	BC	163	A	O3'-P	-9.05	1.50	1.61
85	AA	1248	U	C4'-C3'	-9.04	1.43	1.53
34	BA	492	G	C1'-N9	-9.04	1.34	1.46
85	AA	1249	U	C2'-C1'	-9.04	1.43	1.53
85	AA	620	U	C2'-C1'	-9.04	1.43	1.53
34	BA	369	A	C3'-C2'	-9.04	1.42	1.52
34	BA	401	A	C4'-C3'	-9.04	1.43	1.53
35	BB	86	A	C4'-C3'	-9.04	1.43	1.53
35	BB	1163	U	P-O5'	-9.04	1.50	1.59
35	BB	1523	U	C2'-C1'	-9.04	1.43	1.53
85	AA	1473	U	C2'-C1'	-9.04	1.43	1.53
34	BA	714	G	C2'-C1'	-9.04	1.43	1.53
35	BB	1081	U	O3'-P	-9.04	1.50	1.61
35	BB	1161	G	C2'-C1'	-9.04	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	162	A	P-O5'	-9.04	1.50	1.59
85	AA	1248	U	C3'-C2'	-9.04	1.42	1.52
34	BA	27	G	C4'-C3'	-9.04	1.43	1.53
35	BB	805	G	C2'-C1'	-9.04	1.43	1.53
35	BB	597	C	C2'-C1'	-9.03	1.43	1.53
39	BF	42	G	C6-N1	-9.04	1.33	1.39
85	AA	868	A	O3'-P	-9.03	1.50	1.61
34	BA	275	C	O3'-P	-9.03	1.50	1.61
35	BB	1034	U	C2-N3	-9.03	1.31	1.37
85	AA	1935	G	P-O5'	-9.03	1.50	1.59
85	AA	2187	G	C2'-C1'	-9.03	1.43	1.53
34	BA	1830	A	C4'-C3'	-9.03	1.43	1.53
85	AA	1539	A	P-O5'	-9.03	1.50	1.59
34	BA	1482	A	C2'-C1'	-9.02	1.43	1.53
38	BE	115	U	P-O5'	-9.02	1.50	1.59
38	BE	23	G	N9-C8	-9.02	1.31	1.37
85	AA	592	C	O3'-P	-9.02	1.50	1.61
85	AA	838	G	C2'-C1'	-9.02	1.43	1.53
85	AA	1977	G	P-O5'	-9.02	1.50	1.59
34	BA	774	A	O3'-P	-9.02	1.50	1.61
35	BB	997	G	P-O5'	-9.02	1.50	1.59
36	BC	95	A	P-O5'	-9.02	1.50	1.59
41	BH	22	A	N9-C4	-9.02	1.32	1.37
34	BA	610	A	C2'-C1'	-9.02	1.43	1.53
34	BA	1826	C	O3'-P	-9.02	1.50	1.61
35	BB	559	U	P-O5'	-9.02	1.50	1.59
36	BC	55	U	C2-N3	-9.02	1.31	1.37
85	AA	766	G	N7-C5	-9.02	1.33	1.39
85	AA	1095	C	P-O5'	-9.02	1.50	1.59
85	AA	1829	C	C2'-C1'	-9.02	1.43	1.53
34	BA	1418	G	N9-C4	-9.01	1.30	1.38
35	BB	2	C	C1'-N1	-9.01	1.34	1.46
35	BB	679	G	N7-C5	-9.01	1.33	1.39
38	BE	106	C	O3'-P	-9.01	1.50	1.61
41	BH	106	G	O3'-P	-9.01	1.50	1.61
85	AA	527	A	C1'-N9	-9.01	1.34	1.46
85	AA	2022	A	C6-N6	-9.01	1.26	1.33
85	AA	2184	A	C3'-C2'	-9.01	1.42	1.52
34	BA	580	U	C2'-C1'	-9.01	1.43	1.53
34	BA	692	U	P-O5'	-9.01	1.50	1.59
34	BA	693	G	C2-N2	-9.01	1.25	1.34
35	BB	500	C	O3'-P	-9.01	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	601	U	O3'-P	-9.01	1.50	1.61
35	BB	1249	G	C5-C4	-9.01	1.32	1.38
35	BB	1428	C	O3'-P	-9.01	1.50	1.61
38	BE	40	C	P-O5'	-9.01	1.50	1.59
85	AA	1282	A	C3'-C2'	-9.01	1.42	1.52
86	AB	72	C	C2'-C1'	-9.01	1.43	1.53
34	BA	355	U	C2-N3	-9.01	1.31	1.37
37	BD	3	G	O3'-P	-9.01	1.50	1.61
38	BE	107	U	C4'-C3'	-9.01	1.43	1.53
85	AA	1535	C	O3'-P	-9.01	1.50	1.61
34	BA	1587	C	C2'-C1'	-9.01	1.43	1.53
40	BG	139	U	C3'-C2'	-9.01	1.42	1.52
34	BA	562	C	P-O5'	-9.00	1.50	1.59
34	BA	911	G	C1'-N9	-9.00	1.34	1.46
34	BA	1342	C	P-O5'	-9.00	1.50	1.59
34	BA	1433	U	C2'-C1'	-9.00	1.43	1.53
35	BB	32	C	N1-C6	-9.00	1.31	1.37
38	BE	25	U	O3'-P	-9.00	1.50	1.61
85	AA	396	U	P-O5'	-9.00	1.50	1.59
34	BA	8	G	C2'-C1'	-9.00	1.43	1.53
34	BA	1312	A	P-O5'	-9.00	1.50	1.59
34	BA	1443	U	O4'-C1'	-9.00	1.29	1.41
35	BB	77	A	C5-C4	-9.00	1.32	1.38
35	BB	1065	G	N9-C4	-9.00	1.30	1.38
37	BD	25	G	C2'-C1'	-9.00	1.43	1.53
37	BD	48	G	O3'-P	-9.00	1.50	1.61
85	AA	2002	A	N9-C4	9.00	1.43	1.37
85	AA	883	A	O3'-P	-9.00	1.50	1.61
85	AA	1183	C	O3'-P	-9.00	1.50	1.61
85	AA	1830	U	P-O5'	-9.00	1.50	1.59
85	AA	2172	A	P-O5'	-9.00	1.50	1.59
34	BA	747	G	C2'-C1'	-8.99	1.43	1.53
35	BB	763	U	P-O5'	-8.99	1.50	1.59
34	BA	272	A	N7-C5	-8.99	1.33	1.39
34	BA	346	A	N9-C4	-8.99	1.32	1.37
34	BA	784	C	C1'-N1	-8.99	1.34	1.46
34	BA	1576	C	O3'-P	-8.99	1.50	1.61
37	BD	75	G	C2-N2	-8.99	1.25	1.34
85	AA	485	A	N9-C4	-8.99	1.32	1.37
85	AA	2186	U	O3'-P	-8.99	1.50	1.61
34	BA	57	A	C2'-C1'	-8.99	1.43	1.53
34	BA	658	C	O3'-P	-8.99	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1704	G	C3'-C2'	-8.99	1.42	1.52
35	BB	452	A	N9-C4	-8.99	1.32	1.37
35	BB	1119	G	C3'-C2'	-8.99	1.42	1.52
38	BE	192	A	C1'-N9	-8.99	1.34	1.46
85	AA	686	U	O3'-P	-8.99	1.50	1.61
35	BB	1194	A	P-O5'	-8.99	1.50	1.59
34	BA	412	G	N9-C4	-8.99	1.30	1.38
41	BH	10	U	N3-C4	-8.99	1.30	1.38
85	AA	155	U	C2-N3	-8.99	1.31	1.37
34	BA	154	A	N9-C4	-8.98	1.32	1.37
34	BA	1281	U	C2-N3	-8.98	1.31	1.37
35	BB	1086	G	O3'-P	-8.98	1.50	1.61
35	BB	1149	A	N9-C4	-8.98	1.32	1.37
35	BB	1338	U	O3'-P	-8.98	1.50	1.61
35	BB	571	C	O3'-P	-8.98	1.50	1.61
38	BE	108	U	C2-N3	-8.98	1.31	1.37
34	BA	326	A	C2'-C1'	-8.98	1.43	1.53
35	BB	419	G	C1'-N9	-8.98	1.34	1.46
36	BC	101	U	C2-N3	-8.98	1.31	1.37
40	BG	142	A	N7-C5	-8.98	1.33	1.39
34	BA	78	U	O3'-P	-8.98	1.50	1.61
34	BA	290	G	C3'-C2'	-8.98	1.42	1.52
34	BA	1720	U	N3-C4	-8.98	1.30	1.38
34	BA	437	G	N7-C5	-8.98	1.33	1.39
34	BA	495	A	C2'-C1'	-8.98	1.43	1.53
34	BA	1180	A	P-O5'	-8.98	1.50	1.59
34	BA	1564	A	N7-C5	-8.98	1.33	1.39
35	BB	579	A	O3'-P	-8.98	1.50	1.61
85	AA	421	G	C6-N1	-8.98	1.33	1.39
35	BB	1094	A	P-O5'	-8.98	1.50	1.59
35	BB	1371	G	N9-C4	-8.98	1.30	1.38
85	AA	170	C	O3'-P	-8.98	1.50	1.61
85	AA	2151	U	C2-N3	-8.97	1.31	1.37
34	BA	441	A	C2'-C1'	-8.97	1.43	1.53
34	BA	1341	A	P-O5'	-8.97	1.50	1.59
34	BA	1579	G	C6-N1	-8.97	1.33	1.39
35	BB	433	C	P-O5'	-8.97	1.50	1.59
35	BB	1362	G	N7-C5	-8.97	1.33	1.39
41	BH	43	G	N9-C4	-8.97	1.30	1.38
34	BA	1808	A	C3'-C2'	-8.97	1.42	1.52
35	BB	423	G	C6-N1	-8.97	1.33	1.39
35	BB	615	A	C2'-C1'	-8.97	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	26	G	C1'-N9	-8.97	1.34	1.46
35	BB	1073	A	O3'-P	-8.97	1.50	1.61
36	BC	14	G	C2'-C1'	-8.97	1.43	1.53
37	BD	26	C	P-O5'	-8.97	1.50	1.59
85	AA	456	A	O3'-P	-8.97	1.50	1.61
34	BA	238	C	C4-C5	-8.97	1.35	1.43
36	BC	106	G	O3'-P	-8.97	1.50	1.61
36	BC	117	A	O3'-P	-8.97	1.50	1.61
41	BH	44	A	C2'-C1'	-8.97	1.43	1.53
85	AA	1963	G	O3'-P	-8.97	1.50	1.61
34	BA	341	U	C4'-C3'	-8.96	1.43	1.53
34	BA	1327	G	C2'-C1'	-8.97	1.43	1.53
85	AA	860	C	C2-N3	-8.97	1.28	1.35
34	BA	1496	G	N9-C4	-8.96	1.30	1.38
40	BG	137	G	C1'-N9	-8.96	1.34	1.46
85	AA	1651	C	C2'-C1'	-8.96	1.43	1.53
85	AA	2203	C	O3'-P	-8.96	1.50	1.61
85	AA	2251	U	C5'-C4'	8.96	1.62	1.51
34	BA	1405	A	C2'-C1'	-8.96	1.43	1.53
38	BE	167	U	C2-N3	-8.96	1.31	1.37
40	BG	5	G	P-O5'	-8.96	1.50	1.59
85	AA	128	U	O3'-P	-8.96	1.50	1.61
85	AA	268	A	P-O5'	-8.96	1.50	1.59
34	BA	11	U	C2'-C1'	-8.96	1.43	1.53
34	BA	742	C	N1-C2	-8.96	1.31	1.40
34	BA	1241	U	C2'-C1'	-8.96	1.43	1.53
35	BB	1047	C	O3'-P	-8.96	1.50	1.61
35	BB	1406	C	O3'-P	-8.96	1.50	1.61
41	BH	29	G	C5-C4	-8.96	1.32	1.38
41	BH	110	C	P-O5'	-8.96	1.50	1.59
85	AA	1756	C	P-O5'	-8.96	1.50	1.59
36	BC	96	A	C1'-N9	-8.96	1.34	1.46
85	AA	52	U	P-O5'	-8.96	1.50	1.59
34	BA	518	C	C2'-C1'	-8.96	1.43	1.53
35	BB	847	U	P-O5'	-8.96	1.50	1.59
35	BB	1542	C	C2'-C1'	-8.96	1.43	1.53
34	BA	1223	C	C2'-C1'	-8.95	1.43	1.53
40	BG	68	U	C4'-C3'	-8.96	1.43	1.53
85	AA	707	U	C2-N3	-8.96	1.31	1.37
85	AA	397	G	C5-C4	-8.95	1.32	1.38
35	BB	687	C	O3'-P	-8.95	1.50	1.61
35	BB	1387	C	C2-N3	-8.95	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	722	G	P-O5'	-8.95	1.50	1.59
34	BA	484	A	C5'-C4'	-8.95	1.40	1.51
34	BA	1211	G	C2-N2	-8.95	1.25	1.34
35	BB	551	C	O3'-P	-8.95	1.50	1.61
35	BB	490	G	C2'-C1'	-8.95	1.43	1.53
37	BD	74	A	C2'-C1'	-8.95	1.43	1.53
85	AA	402	G	N9-C4	-8.95	1.30	1.38
35	BB	117	A	O3'-P	-8.95	1.50	1.61
34	BA	102	G	C6-N1	-8.95	1.33	1.39
34	BA	205	G	P-O5'	-8.95	1.50	1.59
34	BA	322	U	N3-C4	-8.94	1.30	1.38
34	BA	1570	C	C4'-C3'	-8.95	1.43	1.53
34	BA	1657	A	N9-C4	-8.95	1.32	1.37
35	BB	787	A	C3'-C2'	-8.95	1.43	1.52
35	BB	977	G	N7-C5	-8.95	1.33	1.39
35	BB	1138	A	P-O5'	-8.95	1.50	1.59
38	BE	21	C	C4'-C3'	-8.95	1.43	1.53
85	AA	2224	U	P-O5'	-8.95	1.50	1.59
40	BG	82	U	O3'-P	-8.94	1.50	1.61
85	AA	299	A	O3'-P	-8.94	1.50	1.61
85	AA	757	A	O3'-P	-8.95	1.50	1.61
34	BA	59	A	N9-C4	-8.94	1.32	1.37
34	BA	994	G	P-O5'	-8.94	1.50	1.59
35	BB	130	G	C1'-N9	-8.94	1.34	1.46
37	BD	54	A	N7-C5	-8.94	1.33	1.39
40	BG	95	U	O4'-C1'	-8.94	1.30	1.41
34	BA	111	U	C2'-C1'	-8.94	1.43	1.53
34	BA	1107	A	C2'-C1'	-8.94	1.43	1.53
34	BA	1542	A	O3'-P	-8.94	1.50	1.61
38	BE	170	U	C4'-C3'	-8.94	1.43	1.53
85	AA	1471	G	N1-C2	-8.94	1.30	1.37
85	AA	1670	U	C2'-C1'	-8.94	1.43	1.53
35	BB	1314	G	C3'-C2'	-8.94	1.43	1.52
85	AA	1659	C	P-O5'	-8.94	1.50	1.59
86	AB	70	G	O3'-P	-8.94	1.50	1.61
34	BA	985	C	C3'-C2'	-8.94	1.43	1.52
34	BA	1597	G	C1'-N9	-8.94	1.34	1.46
36	BC	106	G	C2'-C1'	-8.94	1.43	1.53
40	BG	28	A	C5-C4	-8.94	1.32	1.38
34	BA	1641	G	N9-C4	-8.93	1.30	1.38
34	BA	1652	G	C2'-C1'	-8.93	1.43	1.53
40	BG	8	U	C1'-N1	-8.93	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	116	G	P-O5'	-8.93	1.50	1.59
35	BB	109	U	O3'-P	-8.93	1.50	1.61
34	BA	17	A	O3'-P	-8.93	1.50	1.61
34	BA	151	A	C1'-N9	8.93	1.62	1.48
34	BA	856	G	C4'-C3'	-8.93	1.43	1.53
34	BA	996	U	O3'-P	-8.93	1.50	1.61
34	BA	1176	C	C4'-C3'	-8.93	1.43	1.53
34	BA	1221	A	P-O5'	-8.93	1.50	1.59
34	BA	1250	C	O3'-P	-8.93	1.50	1.61
35	BB	569	G	C2'-C1'	-8.93	1.43	1.53
35	BB	669	A	N9-C4	-8.93	1.32	1.37
35	BB	1051	U	C3'-C2'	-8.93	1.43	1.52
35	BB	826	G	O3'-P	-8.93	1.50	1.61
38	BE	25	U	C2-N3	-8.93	1.31	1.37
34	BA	708	C	C2'-C1'	-8.92	1.43	1.53
34	BA	1590	G	O3'-P	-8.92	1.50	1.61
35	BB	662	G	C3'-C2'	-8.92	1.43	1.52
36	BC	6	G	O3'-P	-8.92	1.50	1.61
85	AA	860	C	O3'-P	-8.92	1.50	1.61
85	AA	1196	C	C2'-C1'	-8.92	1.43	1.53
34	BA	399	G	C5-C6	-8.92	1.33	1.42
35	BB	620	G	C3'-C2'	-8.92	1.43	1.52
37	BD	50	A	C1'-N9	-8.92	1.34	1.46
39	BF	4	A	P-O5'	-8.92	1.50	1.59
34	BA	875	G	O3'-P	-8.92	1.50	1.61
34	BA	844	U	P-O5'	-8.92	1.50	1.59
35	BB	373	C	O3'-P	-8.92	1.50	1.61
36	BC	18	G	O3'-P	-8.92	1.50	1.61
35	BB	566	A	P-O5'	-8.92	1.50	1.59
36	BC	65	G	P-O5'	-8.92	1.50	1.59
38	BE	6	A	C1'-N9	-8.92	1.34	1.46
40	BG	73	U	P-O5'	-8.92	1.50	1.59
85	AA	30	G	C2'-C1'	-8.92	1.43	1.53
85	AA	2008	G	C3'-C2'	-8.92	1.43	1.52
34	BA	134	U	P-O5'	-8.91	1.50	1.59
34	BA	1442	A	C1'-N9	-8.91	1.34	1.46
34	BA	1547	G	P-O5'	-8.91	1.50	1.59
35	BB	605	C	C4'-C3'	-8.91	1.43	1.53
35	BB	1103	A	C1'-N9	-8.91	1.34	1.46
85	AA	403	G	C2'-C1'	-8.91	1.43	1.53
35	BB	598	C	O3'-P	-8.91	1.50	1.61
36	BC	6	G	P-O5'	-8.91	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	182	G	P-O5'	-8.91	1.50	1.59
85	AA	999	A	C5'-C4'	8.91	1.62	1.51
34	BA	267	G	O3'-P	-8.91	1.50	1.61
36	BC	33	U	O3'-P	-8.91	1.50	1.61
40	BG	95	U	C2'-C1'	-8.91	1.43	1.53
85	AA	701	C	O3'-P	-8.91	1.50	1.61
85	AA	995	G	C1'-N9	-8.91	1.34	1.46
85	AA	1005	C	P-O5'	-8.91	1.50	1.59
85	AA	1483	A	P-O5'	-8.91	1.50	1.59
85	AA	1823	G	C3'-C2'	-8.91	1.43	1.52
34	BA	474	A	C2'-C1'	-8.91	1.43	1.53
35	BB	1321	G	C4'-C3'	-8.91	1.43	1.53
85	AA	448	G	C6-N1	-8.91	1.33	1.39
85	AA	1162	A	C2'-C1'	-8.91	1.43	1.53
85	AA	2041	G	C2-N2	-8.91	1.25	1.34
85	AA	2148	C	C3'-C2'	-8.91	1.43	1.52
34	BA	136	A	O3'-P	-8.90	1.50	1.61
34	BA	191	G	C2'-C1'	-8.90	1.43	1.53
34	BA	1292	A	N9-C4	-8.90	1.32	1.37
35	BB	994	A	C1'-N9	8.90	1.62	1.48
37	BD	112	U	P-O5'	-8.90	1.50	1.59
85	AA	454	G	N9-C8	-8.90	1.31	1.37
85	AA	1829	C	O3'-P	-8.90	1.50	1.61
85	AA	639	C	O3'-P	-8.90	1.50	1.61
85	AA	939	A	C8-N7	-8.90	1.25	1.31
34	BA	740	A	C1'-N9	-8.90	1.34	1.46
34	BA	149	G	P-O5'	-8.90	1.50	1.59
35	BB	799	A	C4'-C3'	-8.90	1.43	1.53
40	BG	111	C	P-O5'	-8.90	1.50	1.59
85	AA	589	A	N7-C5	-8.90	1.33	1.39
85	AA	1143	C	O3'-P	-8.90	1.50	1.61
34	BA	203	U	O3'-P	-8.90	1.50	1.61
34	BA	216	C	P-O5'	-8.90	1.50	1.59
34	BA	297	A	O4'-C1'	-8.90	1.30	1.41
34	BA	594	G	C2'-C1'	-8.90	1.43	1.53
85	AA	1524	A	N9-C4	-8.90	1.32	1.37
34	BA	451	A	O3'-P	-8.90	1.50	1.61
34	BA	1234	U	P-O5'	-8.90	1.50	1.59
35	BB	66	G	C4'-C3'	-8.90	1.43	1.53
35	BB	132	G	P-O5'	-8.90	1.50	1.59
35	BB	737	C	P-O5'	-8.90	1.50	1.59
41	BH	19	G	C1'-N9	-8.90	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	97	A	C1'-N9	-8.90	1.34	1.46
34	BA	688	G	P-O5'	-8.89	1.50	1.59
34	BA	856	G	C1'-N9	-8.89	1.34	1.46
34	BA	1538	G	N1-C2	-8.89	1.30	1.37
35	BB	1425	A	C2'-C1'	-8.89	1.43	1.53
35	BB	1440	A	C2'-C1'	-8.89	1.43	1.53
85	AA	2037	A	P-O5'	-8.89	1.50	1.59
85	AA	702	G	C8-N7	-8.89	1.25	1.30
85	AA	879	G	C1'-N9	-8.89	1.34	1.46
85	AA	1226	A	C2'-C1'	-8.89	1.43	1.53
34	BA	751	A	O3'-P	-8.89	1.50	1.61
34	BA	1293	A	C5-C4	-8.89	1.32	1.38
34	BA	1614	G	C1'-N9	-8.89	1.34	1.46
41	BH	14	C	O3'-P	-8.89	1.50	1.61
85	AA	1526	G	O3'-P	-8.89	1.50	1.61
37	BD	93	G	C6-N1	-8.89	1.33	1.39
85	AA	422	G	C5-C4	-8.89	1.32	1.38
34	BA	10	G	C2'-C1'	-8.89	1.43	1.53
34	BA	53	G	C5-C4	-8.89	1.32	1.38
35	BB	392	G	C6-N1	-8.89	1.33	1.39
35	BB	631	G	O3'-P	-8.89	1.50	1.61
35	BB	1220	A	C8-N7	-8.89	1.25	1.31
35	BB	1366	C	O3'-P	-8.89	1.50	1.61
37	BD	18	G	O3'-P	-8.89	1.50	1.61
85	AA	1107	A	C6-N6	-8.89	1.26	1.33
85	AA	887	A	C2'-C1'	-8.89	1.43	1.53
85	AA	2147	A	N9-C8	-8.89	1.30	1.37
34	BA	755	G	C2-N2	-8.88	1.25	1.34
35	BB	645	C	C3'-C2'	-8.89	1.43	1.52
85	AA	1502	A	O3'-P	-8.89	1.50	1.61
85	AA	1676	G	N3-C4	-8.89	1.29	1.35
35	BB	1282	G	O3'-P	-8.88	1.50	1.61
85	AA	437	G	C1'-N9	-8.88	1.34	1.46
85	AA	654	A	C6-N1	-8.88	1.29	1.35
34	BA	49	A	C3'-C2'	-8.88	1.43	1.52
34	BA	480	G	C4'-C3'	-8.88	1.43	1.53
34	BA	1289	C	C4'-C3'	-8.88	1.43	1.53
35	BB	1299	G	P-O5'	-8.88	1.50	1.59
40	BG	98	A	N9-C4	-8.88	1.32	1.37
85	AA	1966	C	P-O5'	-8.88	1.50	1.59
85	AA	2003	C	O3'-P	-8.88	1.50	1.61
85	AA	2044	A	C2'-C1'	-8.88	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	786	A	C3'-C2'	-8.88	1.43	1.52
34	BA	916	A	N3-C4	-8.88	1.29	1.34
35	BB	49	A	N9-C4	-8.88	1.32	1.37
40	BG	92	U	C2'-C1'	-8.88	1.43	1.53
85	AA	1217	U	O3'-P	-8.88	1.50	1.61
36	BC	25	C	O3'-P	-8.88	1.50	1.61
34	BA	1001	G	C1'-N9	-8.87	1.34	1.46
35	BB	1183	U	C3'-C2'	-8.87	1.43	1.52
35	BB	1225	A	O3'-P	-8.87	1.50	1.61
41	BH	38	G	O3'-P	-8.87	1.50	1.61
36	BC	17	U	O3'-P	-8.87	1.50	1.61
38	BE	139	U	C2-N3	-8.87	1.31	1.37
34	BA	954	U	O3'-P	-8.87	1.50	1.61
34	BA	1507	C	P-O5'	-8.87	1.50	1.59
35	BB	1388	A	C5-C4	-8.87	1.32	1.38
85	AA	173	A	C4'-C3'	-8.87	1.43	1.53
34	BA	1592	U	O3'-P	-8.87	1.50	1.61
85	AA	1281	G	C2'-C1'	-8.87	1.43	1.53
85	AA	2178	A	C2'-C1'	-8.87	1.43	1.53
34	BA	7	U	C3'-C2'	-8.87	1.43	1.52
34	BA	780	U	C1'-N1	8.87	1.62	1.48
34	BA	798	G	C6-N1	-8.87	1.33	1.39
34	BA	336	A	C2'-C1'	-8.86	1.43	1.53
35	BB	491	A	N7-C5	-8.86	1.33	1.39
34	BA	568	G	P-O5'	-8.86	1.50	1.59
35	BB	1422	G	O3'-P	-8.86	1.50	1.61
38	BE	105	A	N9-C4	-8.86	1.32	1.37
34	BA	483	A	P-O5'	-8.86	1.50	1.59
35	BB	430	A	C2'-C1'	-8.86	1.43	1.53
35	BB	446	U	C4'-O4'	-8.86	1.34	1.45
35	BB	634	A	C2'-C1'	-8.86	1.43	1.53
35	BB	1241	U	C3'-C2'	-8.86	1.43	1.52
37	BD	12	U	O3'-P	-8.86	1.50	1.61
38	BE	23	G	C4'-C3'	-8.86	1.43	1.53
85	AA	937	G	C2'-C1'	-8.86	1.43	1.53
85	AA	1204	A	O3'-P	-8.86	1.50	1.61
85	AA	1233	G	N9-C4	-8.86	1.30	1.38
85	AA	1801	U	P-O5'	-8.86	1.50	1.59
85	AA	2031	C	O3'-P	-8.86	1.50	1.61
35	BB	591	A	P-O5'	-8.86	1.50	1.59
85	AA	43	A	O3'-P	-8.86	1.50	1.61
85	AA	70	U	C4'-C3'	-8.86	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	162	A	C2'-C1'	-8.86	1.43	1.53
85	AA	415	G	P-O5'	-8.86	1.50	1.59
85	AA	897	A	N9-C4	-8.86	1.32	1.37
85	AA	1221	G	O3'-P	-8.86	1.50	1.61
34	BA	596	G	C5-C6	-8.86	1.33	1.42
35	BB	1114	A	C8-N7	-8.86	1.25	1.31
38	BE	176	G	C2'-C1'	-8.86	1.43	1.53
34	BA	557	U	P-OP1	8.85	1.64	1.49
37	BD	103	C	P-O5'	-8.85	1.50	1.59
85	AA	1955	U	C2-N3	-8.85	1.31	1.37
34	BA	620	C	C2'-C1'	-8.85	1.43	1.53
35	BB	622	G	C8-N7	-8.85	1.25	1.30
34	BA	923	C	C3'-C2'	-8.85	1.43	1.52
41	BH	31	A	O3'-P	-8.85	1.50	1.61
85	AA	336	C	O3'-P	-8.85	1.50	1.61
85	AA	1105	G	N9-C8	-8.85	1.31	1.37
85	AA	1822	G	O3'-P	-8.85	1.50	1.61
34	BA	1835	A	O3'-P	-8.85	1.50	1.61
35	BB	572	G	P-O5'	-8.85	1.50	1.59
85	AA	28	A	O3'-P	-8.85	1.50	1.61
85	AA	477	U	P-O5'	-8.85	1.50	1.59
34	BA	165	C	O3'-P	-8.85	1.50	1.61
34	BA	1007	G	O3'-P	-8.85	1.50	1.61
34	BA	1099	U	P-O5'	-8.85	1.50	1.59
35	BB	86	A	O3'-P	-8.85	1.50	1.61
35	BB	1083	C	O3'-P	-8.85	1.50	1.61
35	BB	775	U	P-O5'	-8.85	1.50	1.59
36	BC	31	A	C5-C4	-8.85	1.32	1.38
39	BF	72	A	P-O5'	-8.85	1.50	1.59
85	AA	662	U	O3'-P	-8.85	1.50	1.61
35	BB	1341	U	C2'-C1'	-8.84	1.43	1.53
34	BA	126	G	C2'-C1'	-8.84	1.43	1.53
34	BA	266	G	C1'-N9	-8.84	1.34	1.46
34	BA	371	U	C2-N3	-8.84	1.31	1.37
36	BC	96	A	N9-C4	-8.84	1.32	1.37
37	BD	81	C	O3'-P	-8.84	1.50	1.61
39	BF	21	C	C4'-C3'	-8.84	1.43	1.53
85	AA	366	A	C2'-C1'	-8.84	1.43	1.53
35	BB	1415	G	N3-C4	-8.84	1.29	1.35
36	BC	148	C	C2-N3	-8.84	1.28	1.35
34	BA	1741	G	C2'-C1'	-8.84	1.43	1.53
36	BC	74	U	O3'-P	-8.84	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	399	A	O3'-P	-8.84	1.50	1.61
85	AA	929	G	O3'-P	-8.84	1.50	1.61
34	BA	1555	G	C2-N2	-8.84	1.25	1.34
34	BA	1838	U	O3'-P	-8.84	1.50	1.61
35	BB	504	C	P-O5'	-8.84	1.50	1.59
35	BB	1382	U	O3'-P	-8.84	1.50	1.61
37	BD	57	C	O3'-P	-8.84	1.50	1.61
34	BA	1108	U	O3'-P	-8.84	1.50	1.61
34	BA	1652	G	N9-C8	-8.84	1.31	1.37
35	BB	613	C	O3'-P	-8.84	1.50	1.61
35	BB	981	A	P-O5'	-8.84	1.50	1.59
38	BE	144	A	P-O5'	-8.84	1.50	1.59
85	AA	1503	G	O3'-P	-8.84	1.50	1.61
34	BA	660	C	C3'-C2'	-8.83	1.43	1.52
85	AA	2218	G	P-O5'	-8.83	1.50	1.59
36	BC	68	A	N7-C5	-8.83	1.33	1.39
85	AA	305	A	N9-C4	-8.83	1.32	1.37
85	AA	887	A	P-O5'	-8.83	1.50	1.59
85	AA	1573	A	N9-C4	-8.83	1.32	1.37
85	AA	1637	C	P-O5'	-8.83	1.50	1.59
85	AA	2099	C	O3'-P	-8.83	1.50	1.61
35	BB	1383	C	C2'-C1'	-8.83	1.43	1.53
34	BA	933	U	C1'-N1	-8.83	1.34	1.46
85	AA	1483	A	C5-C4	-8.83	1.32	1.38
34	BA	493	G	C2'-C1'	-8.83	1.43	1.53
34	BA	1508	C	P-O5'	-8.83	1.50	1.59
34	BA	1797	A	P-O5'	-8.83	1.50	1.59
35	BB	483	C	N1-C6	-8.83	1.31	1.37
35	BB	1334	C	C4'-C3'	-8.83	1.43	1.53
36	BC	53	A	C2'-C1'	-8.83	1.43	1.53
36	BC	55	U	N1-C2	-8.83	1.30	1.38
85	AA	391	G	O3'-P	-8.83	1.50	1.61
85	AA	2148	C	C2'-C1'	-8.83	1.43	1.53
34	BA	409	A	C2'-C1'	-8.82	1.43	1.53
34	BA	672	G	C2'-C1'	-8.82	1.43	1.53
41	BH	24	U	C2'-C1'	-8.82	1.43	1.53
35	BB	1296	A	N9-C4	-8.82	1.32	1.37
38	BE	6	A	C5-C4	-8.82	1.32	1.38
85	AA	1144	G	C6-N1	-8.82	1.33	1.39
85	AA	1206	A	C3'-C2'	-8.82	1.43	1.52
34	BA	347	A	N9-C4	-8.82	1.32	1.37
34	BA	477	C	P-O5'	-8.82	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	613	A	N9-C4	-8.82	1.32	1.37
34	BA	1807	G	C2-N2	-8.82	1.25	1.34
35	BB	131	A	N9-C4	-8.82	1.32	1.37
35	BB	516	G	O3'-P	-8.82	1.50	1.61
35	BB	1062	G	N9-C4	-8.82	1.30	1.38
34	BA	516	U	C2'-C1'	-8.82	1.43	1.53
40	BG	142	A	C2'-C1'	-8.82	1.43	1.53
34	BA	849	G	P-O5'	-8.82	1.50	1.59
34	BA	1686	G	O3'-P	-8.82	1.50	1.61
85	AA	410	A	N9-C4	-8.82	1.32	1.37
85	AA	1534	A	O3'-P	-8.82	1.50	1.61
85	AA	2240	G	N9-C4	-8.82	1.30	1.38
35	BB	1425	A	O3'-P	-8.82	1.50	1.61
34	BA	433	G	C5'-C4'	8.81	1.61	1.51
34	BA	333	A	C1'-N9	-8.81	1.34	1.46
35	BB	565	U	O3'-P	-8.81	1.50	1.61
35	BB	1264	U	C2-N3	-8.81	1.31	1.37
40	BG	130	G	C5-C4	-8.81	1.32	1.38
41	BH	29	G	N7-C5	-8.81	1.33	1.39
85	AA	1928	A	N9-C4	-8.81	1.32	1.37
85	AA	622	G	C1'-N9	-8.81	1.34	1.46
85	AA	1702	G	P-O5'	-8.81	1.50	1.59
85	AA	2180	C	C2'-C1'	-8.81	1.43	1.53
34	BA	1039	G	C1'-N9	-8.81	1.34	1.46
34	BA	1437	G	C2'-C1'	-8.81	1.43	1.53
34	BA	1613	G	N9-C4	-8.81	1.30	1.38
35	BB	999	G	C1'-N9	-8.81	1.34	1.46
35	BB	1390	U	O3'-P	-8.81	1.50	1.61
85	AA	876	U	P-O5'	-8.81	1.50	1.59
35	BB	1053	G	C1'-N9	-8.81	1.34	1.46
38	BE	142	A	P-O5'	-8.81	1.50	1.59
85	AA	620	U	C3'-C2'	-8.81	1.43	1.52
85	AA	1460	G	C5-C4	-8.81	1.32	1.38
85	AA	242	G	C2-N2	-8.81	1.25	1.34
85	AA	1911	A	C2'-C1'	-8.81	1.43	1.53
34	BA	236	A	P-O5'	-8.81	1.50	1.59
34	BA	1269	C	C2-N3	-8.81	1.28	1.35
34	BA	1556	A	C5-C4	-8.81	1.32	1.38
35	BB	7	C	O3'-P	-8.81	1.50	1.61
40	BG	10	U	C4'-O4'	-8.81	1.34	1.45
37	BD	29	C	P-O5'	-8.81	1.50	1.59
34	BA	765	U	C1'-N1	8.80	1.61	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1575	U	P-O5'	-8.81	1.50	1.59
85	AA	7	G	N9-C4	-8.81	1.30	1.38
34	BA	465	A	O3'-P	-8.80	1.50	1.61
35	BB	778	A	C5-C4	-8.80	1.32	1.38
37	BD	98	G	N1-C2	-8.80	1.30	1.37
37	BD	108	G	C3'-C2'	-8.80	1.43	1.52
35	BB	513	G	P-O5'	-8.80	1.50	1.59
35	BB	1244	U	O3'-P	-8.80	1.50	1.61
35	BB	1305	A	N7-C5	-8.80	1.33	1.39
37	BD	80	G	O3'-P	-8.80	1.50	1.61
40	BG	89	A	C5-C4	-8.80	1.32	1.38
85	AA	447	C	C2-N3	-8.80	1.28	1.35
85	AA	1735	U	C2'-C1'	-8.80	1.43	1.53
85	AA	597	A	C1'-N9	-8.80	1.34	1.46
35	BB	1326	U	P-O5'	-8.80	1.50	1.59
85	AA	471	U	C2-N3	-8.80	1.31	1.37
85	AA	1234	G	O3'-P	-8.80	1.50	1.61
34	BA	388	A	O3'-P	-8.79	1.50	1.61
34	BA	1555	G	N9-C4	-8.79	1.30	1.38
35	BB	776	U	O3'-P	-8.80	1.50	1.61
34	BA	1653	G	C1'-N9	-8.79	1.34	1.46
35	BB	1303	A	O3'-P	-8.79	1.50	1.61
38	BE	127	G	C3'-C2'	-8.79	1.43	1.52
40	BG	37	G	O3'-P	-8.79	1.50	1.61
85	AA	165	C	O3'-P	-8.79	1.50	1.61
85	AA	1181	U	O3'-P	-8.79	1.50	1.61
85	AA	1793	A	C4'-C3'	-8.79	1.43	1.53
85	AA	2203	C	P-O5'	-8.79	1.50	1.59
35	BB	407	A	P-O5'	-8.79	1.50	1.59
35	BB	470	C	O3'-P	-8.79	1.50	1.61
35	BB	831	C	C2'-C1'	-8.79	1.43	1.53
40	BG	178	G	P-O5'	-8.79	1.50	1.59
35	BB	869	G	C2'-C1'	-8.79	1.43	1.53
34	BA	1355	G	N7-C5	-8.79	1.33	1.39
35	BB	135	C	P-O5'	-8.79	1.50	1.59
35	BB	1251	G	P-O5'	-8.79	1.50	1.59
35	BB	1539	C	O3'-P	-8.79	1.50	1.61
34	BA	480	G	C8-N7	-8.79	1.25	1.30
35	BB	971	A	O3'-P	-8.79	1.50	1.61
35	BB	1084	A	N9-C4	-8.79	1.32	1.37
38	BE	145	A	C1'-N9	-8.79	1.34	1.46
40	BG	52	A	N9-C4	-8.79	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	501	A	P-O5'	-8.79	1.50	1.59
34	BA	1590	G	C1'-N9	-8.79	1.34	1.46
37	BD	95	G	N7-C5	-8.79	1.33	1.39
34	BA	1249	G	N1-C2	-8.78	1.30	1.37
35	BB	482	A	C2'-C1'	-8.78	1.43	1.53
85	AA	1538	C	C2'-C1'	-8.78	1.43	1.53
34	BA	1418	G	N7-C5	-8.78	1.33	1.39
35	BB	1095	G	P-O5'	-8.78	1.50	1.59
85	AA	1490	A	C1'-N9	-8.78	1.34	1.46
34	BA	1095	G	O3'-P	-8.78	1.50	1.61
34	BA	500	C	C3'-C2'	-8.78	1.43	1.52
34	BA	794	G	O3'-P	-8.78	1.50	1.61
34	BA	1814	U	N3-C4	-8.78	1.30	1.38
35	BB	76	C	P-O5'	-8.78	1.50	1.59
34	BA	52	G	C1'-N9	-8.78	1.34	1.46
34	BA	901	C	C2'-C1'	-8.78	1.43	1.53
34	BA	429	G	N3-C4	-8.78	1.29	1.35
85	AA	454	G	P-O5'	-8.78	1.50	1.59
34	BA	1023	G	O3'-P	-8.77	1.50	1.61
35	BB	583	G	C2'-C1'	-8.77	1.43	1.53
35	BB	768	A	C2'-C1'	-8.77	1.43	1.53
35	BB	1110	G	O3'-P	-8.77	1.50	1.61
85	AA	456	A	N9-C4	-8.77	1.32	1.37
34	BA	760	G	C2'-C1'	-8.77	1.43	1.53
35	BB	7	C	C2'-C1'	-8.77	1.43	1.53
35	BB	487	A	C1'-N9	-8.77	1.34	1.46
36	BC	10	C	O3'-P	-8.77	1.50	1.61
37	BD	74	A	C4'-C3'	-8.77	1.43	1.53
85	AA	2147	A	C2'-C1'	-8.77	1.43	1.53
34	BA	1721	U	N3-C4	-8.77	1.30	1.38
35	BB	593	A	O3'-P	-8.77	1.50	1.61
34	BA	482	C	C4'-O4'	-8.77	1.34	1.45
34	BA	524	G	C2-N2	-8.77	1.25	1.34
35	BB	1178	A	C2'-C1'	-8.77	1.43	1.53
41	BH	42	U	P-O5'	-8.77	1.50	1.59
85	AA	2217	A	C2'-C1'	-8.77	1.43	1.53
36	BC	42	G	C1'-N9	-8.77	1.34	1.46
85	AA	627	A	P-O5'	-8.77	1.50	1.59
34	BA	981	A	N9-C4	-8.77	1.32	1.37
35	BB	115	A	P-O5'	-8.77	1.50	1.59
35	BB	786	A	P-O5'	-8.77	1.50	1.59
40	BG	56	G	O3'-P	-8.77	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	339	G	P-O5'	-8.76	1.50	1.59
34	BA	413	A	N9-C4	-8.76	1.32	1.37
34	BA	1278	A	C3'-C2'	-8.76	1.43	1.52
35	BB	1077	C	P-O5'	-8.76	1.50	1.59
85	AA	601	A	C2'-C1'	-8.76	1.43	1.53
85	AA	688	C	C3'-C2'	-8.76	1.43	1.52
35	BB	1444	U	O3'-P	-8.76	1.50	1.61
40	BG	10	U	C1'-N1	-8.76	1.34	1.46
85	AA	36	U	O3'-P	-8.76	1.50	1.61
85	AA	516	G	O3'-P	-8.76	1.50	1.61
85	AA	1801	U	O3'-P	-8.76	1.50	1.61
34	BA	557	U	O4'-C1'	8.76	1.53	1.41
34	BA	1803	A	O3'-P	-8.76	1.50	1.61
35	BB	1051	U	P-O5'	-8.76	1.50	1.59
35	BB	1053	G	P-O5'	-8.76	1.50	1.59
85	AA	374	C	C2'-C1'	-8.76	1.43	1.53
85	AA	927	A	P-O5'	-8.76	1.50	1.59
85	AA	1107	A	C4'-C3'	-8.76	1.43	1.53
35	BB	503	G	C2'-C1'	-8.76	1.43	1.53
35	BB	1189	C	O3'-P	-8.76	1.50	1.61
35	BB	1292	G	C4'-C3'	-8.76	1.43	1.53
40	BG	65	C	P-O5'	-8.76	1.50	1.59
85	AA	1496	U	P-O5'	-8.76	1.50	1.59
85	AA	2190	U	P-O5'	-8.76	1.50	1.59
34	BA	825	G	C5-C4	-8.76	1.32	1.38
37	BD	64	A	O3'-P	-8.76	1.50	1.61
34	BA	938	C	C2'-C1'	-8.76	1.43	1.53
35	BB	127	U	C2'-C1'	-8.76	1.43	1.53
35	BB	568	A	C5-C4	-8.76	1.32	1.38
35	BB	1103	A	N7-C5	-8.76	1.33	1.39
35	BB	1399	A	C8-N7	-8.76	1.25	1.31
36	BC	76	C	P-O5'	-8.76	1.50	1.59
34	BA	515	U	C3'-C2'	-8.75	1.43	1.52
35	BB	465	C	C4-N4	-8.75	1.26	1.33
35	BB	1448	U	P-O5'	-8.75	1.50	1.59
37	BD	67	C	C3'-C2'	-8.75	1.43	1.52
40	BG	3	G	C2-N2	-8.75	1.25	1.34
34	BA	701	G	P-O5'	-8.75	1.50	1.59
34	BA	1176	C	O3'-P	-8.75	1.50	1.61
85	AA	1656	C	O3'-P	-8.75	1.50	1.61
85	AA	2146	G	C4'-O4'	-8.75	1.34	1.45
34	BA	219	U	C2'-C1'	-8.75	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1142	C	O3'-P	-8.75	1.50	1.61
34	BA	504	A	C1'-N9	-8.75	1.34	1.46
34	BA	864	G	C8-N7	8.75	1.36	1.30
34	BA	1092	U	C3'-C2'	-8.75	1.43	1.52
34	BA	1208	U	C1'-N1	-8.75	1.34	1.46
37	BD	41	G	C4'-O4'	-8.75	1.34	1.45
38	BE	144	A	C3'-C2'	-8.75	1.43	1.52
85	AA	1244	A	P-O5'	-8.75	1.51	1.59
34	BA	20	A	C8-N7	-8.75	1.25	1.31
34	BA	240	C	C2'-C1'	-8.75	1.43	1.53
34	BA	579	U	C2-N3	-8.75	1.31	1.37
85	AA	877	G	C2'-C1'	-8.75	1.43	1.53
34	BA	500	C	P-O5'	-8.75	1.51	1.59
35	BB	451	A	P-O5'	-8.75	1.51	1.59
35	BB	646	U	P-O5'	-8.75	1.51	1.59
34	BA	43	U	O3'-P	-8.74	1.50	1.61
34	BA	269	G	C2'-C1'	-8.74	1.43	1.53
34	BA	503	C	C2-N3	-8.74	1.28	1.35
34	BA	700	G	C3'-C2'	-8.74	1.43	1.52
34	BA	1064	A	C5-C4	-8.74	1.32	1.38
34	BA	1671	A	O3'-P	-8.74	1.50	1.61
35	BB	670	G	O3'-P	-8.74	1.50	1.61
35	BB	825	U	O3'-P	-8.74	1.50	1.61
35	BB	1144	A	C2'-C1'	-8.74	1.43	1.53
36	BC	95	A	C1'-N9	-8.74	1.34	1.46
85	AA	364	C	C3'-C2'	-8.74	1.43	1.52
85	AA	1486	G	C6-N1	-8.74	1.33	1.39
36	BC	53	A	P-O5'	-8.74	1.51	1.59
85	AA	1858	G	C3'-C2'	-8.74	1.43	1.52
85	AA	2126	U	C2-N3	-8.74	1.31	1.37
40	BG	113	G	C6-N1	-8.74	1.33	1.39
34	BA	1009	G	O3'-P	-8.74	1.50	1.61
34	BA	1745	G	P-O5'	-8.74	1.51	1.59
34	BA	306	G	C3'-C2'	-8.74	1.43	1.52
34	BA	457	A	C3'-C2'	-8.74	1.43	1.52
34	BA	1222	C	C4'-C3'	-8.74	1.43	1.53
35	BB	609	G	P-O5'	-8.74	1.51	1.59
35	BB	467	G	P-O5'	-8.74	1.51	1.59
40	BG	8	U	C3'-C2'	-8.74	1.43	1.52
85	AA	1268	C	O3'-P	-8.74	1.50	1.61
85	AA	1717	G	C4'-C3'	8.74	1.62	1.53
85	AA	1984	A	O3'-P	-8.74	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	441	A	N9-C4	-8.73	1.32	1.37
34	BA	1483	U	C2-N3	-8.73	1.31	1.37
85	AA	397	G	N9-C8	-8.73	1.31	1.37
85	AA	2147	A	N3-C4	-8.73	1.29	1.34
35	BB	496	C	O3'-P	-8.73	1.50	1.61
35	BB	1376	G	O3'-P	-8.73	1.50	1.61
85	AA	730	G	N9-C4	8.73	1.45	1.38
38	BE	75	C	P-O5'	-8.73	1.51	1.59
85	AA	2081	A	P-O5'	-8.73	1.51	1.59
34	BA	664	C	P-O5'	-8.73	1.51	1.59
35	BB	783	U	P-O5'	-8.73	1.51	1.59
36	BC	89	U	P-O5'	-8.73	1.51	1.59
37	BD	75	G	O3'-P	-8.73	1.50	1.61
34	BA	94	G	N1-C2	-8.73	1.30	1.37
34	BA	542	A	P-O5'	-8.73	1.51	1.59
40	BG	105	A	C5-C4	-8.73	1.32	1.38
40	BG	137	G	P-O5'	-8.73	1.51	1.59
85	AA	47	A	N9-C4	8.73	1.43	1.37
85	AA	1178	A	N9-C4	-8.73	1.32	1.37
34	BA	1107	A	C3'-C2'	-8.73	1.43	1.52
34	BA	1800	G	C2'-C1'	-8.73	1.43	1.53
35	BB	469	G	O3'-P	-8.73	1.50	1.61
35	BB	1026	G	C5'-C4'	8.73	1.61	1.51
40	BG	108	G	C1'-N9	-8.73	1.34	1.46
85	AA	1283	C	O3'-P	-8.73	1.50	1.61
85	AA	474	C	C2'-C1'	-8.73	1.43	1.53
85	AA	1936	C	P-O5'	-8.73	1.51	1.59
85	AA	1678	U	C2-N3	-8.73	1.31	1.37
34	BA	517	A	N9-C4	-8.72	1.32	1.37
35	BB	1078	U	O3'-P	-8.72	1.50	1.61
35	BB	1359	G	N9-C4	-8.72	1.30	1.38
38	BE	97	G	P-O5'	-8.72	1.51	1.59
85	AA	2060	G	O3'-P	-8.72	1.50	1.61
34	BA	1841	A	O3'-P	-8.72	1.50	1.61
35	BB	1090	A	N9-C4	-8.72	1.32	1.37
38	BE	23	G	N7-C5	-8.72	1.34	1.39
34	BA	459	U	C3'-C2'	-8.72	1.43	1.52
85	AA	454	G	C1'-N9	-8.72	1.34	1.46
35	BB	363	A	N7-C5	-8.72	1.34	1.39
85	AA	57	G	C6-N1	-8.72	1.33	1.39
85	AA	1366	A	N9-C4	-8.72	1.32	1.37
85	AA	2185	U	C2-N3	-8.72	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	538	G	C6-N1	-8.71	1.33	1.39
34	BA	1034	U	O3'-P	-8.72	1.50	1.61
34	BA	1404	A	P-O5'	-8.72	1.51	1.59
41	BH	16	A	N3-C4	-8.71	1.29	1.34
85	AA	611	G	P-O5'	-8.71	1.51	1.59
85	AA	764	U	C2-N3	-8.71	1.31	1.37
85	AA	1464	G	N9-C8	-8.72	1.31	1.37
85	AA	1206	A	N9-C4	-8.71	1.32	1.37
85	AA	1476	C	O3'-P	-8.71	1.50	1.61
85	AA	1923	A	C2'-C1'	-8.71	1.43	1.53
34	BA	248	G	N7-C5	-8.71	1.34	1.39
39	BF	46	G	P-O5'	-8.71	1.51	1.59
34	BA	446	U	O3'-P	-8.71	1.50	1.61
34	BA	739	A	N3-C4	-8.71	1.29	1.34
34	BA	796	G	P-O5'	-8.71	1.51	1.59
38	BE	140	G	O3'-P	-8.71	1.50	1.61
40	BG	52	A	P-O5'	-8.71	1.51	1.59
85	AA	2146	G	N9-C4	-8.71	1.30	1.38
35	BB	1067	G	C2'-C1'	-8.71	1.43	1.53
36	BC	31	A	C2'-C1'	-8.71	1.43	1.53
85	AA	741	G	C6-N1	-8.71	1.33	1.39
85	AA	1682	U	C2'-C1'	-8.71	1.43	1.53
85	AA	1759	U	O3'-P	-8.71	1.50	1.61
34	BA	687	G	C6-N1	-8.71	1.33	1.39
35	BB	131	A	C5-C4	-8.71	1.32	1.38
35	BB	1194	A	O3'-P	-8.71	1.50	1.61
85	AA	1179	A	P-O5'	-8.71	1.51	1.59
35	BB	436	G	N9-C4	-8.71	1.30	1.38
34	BA	1431	G	C6-N1	-8.70	1.33	1.39
35	BB	106	A	P-O5'	-8.71	1.51	1.59
35	BB	441	G	C1'-N9	-8.71	1.34	1.46
35	BB	812	G	P-O5'	-8.70	1.51	1.59
35	BB	1057	G	O3'-P	-8.71	1.50	1.61
36	BC	54	G	N3-C4	-8.71	1.29	1.35
40	BG	47	G	P-O5'	-8.71	1.51	1.59
41	BH	41	A	C3'-C2'	-8.71	1.43	1.52
85	AA	1709	U	O3'-P	-8.70	1.50	1.61
34	BA	1696	G	C5-C4	-8.70	1.32	1.38
85	AA	514	U	O3'-P	-8.70	1.50	1.61
34	BA	694	G	C6-N1	-8.70	1.33	1.39
34	BA	1177	C	O3'-P	-8.70	1.50	1.61
34	BA	1285	G	C6-N1	-8.70	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1144	A	O3'-P	-8.70	1.50	1.61
36	BC	18	G	C6-N1	-8.70	1.33	1.39
34	BA	104	A	O3'-P	-8.70	1.50	1.61
34	BA	807	U	O3'-P	-8.70	1.50	1.61
34	BA	881	C	C3'-C2'	-8.70	1.43	1.52
34	BA	1037	C	C2'-C1'	-8.70	1.43	1.53
35	BB	567	G	C6-N1	-8.70	1.33	1.39
85	AA	1140	G	C4'-C3'	-8.70	1.43	1.53
34	BA	971	G	P-O5'	-8.69	1.51	1.59
34	BA	1344	G	P-O5'	-8.69	1.51	1.59
34	BA	1716	A	C5'-C4'	8.69	1.61	1.51
35	BB	126	C	C3'-C2'	-8.69	1.43	1.52
35	BB	546	A	N9-C4	-8.69	1.32	1.37
35	BB	622	G	C2'-C1'	-8.69	1.43	1.53
35	BB	1134	G	O3'-P	-8.69	1.50	1.61
35	BB	1427	A	C5-C4	-8.69	1.32	1.38
38	BE	27	A	O3'-P	-8.69	1.50	1.61
41	BH	47	G	C6-N1	-8.69	1.33	1.39
85	AA	642	G	P-O5'	-8.69	1.51	1.59
85	AA	704	A	C1'-N9	-8.69	1.34	1.46
85	AA	2081	A	N7-C5	-8.69	1.34	1.39
34	BA	961	C	C3'-C2'	-8.69	1.43	1.52
34	BA	1409	A	P-O5'	-8.69	1.51	1.59
35	BB	100	A	O3'-P	-8.69	1.50	1.61
85	AA	1477	A	O3'-P	-8.69	1.50	1.61
35	BB	1119	G	P-O5'	-8.69	1.51	1.59
41	BH	107	A	N7-C5	-8.69	1.34	1.39
85	AA	2141	G	C3'-C2'	-8.69	1.43	1.52
34	BA	574	U	N1-C2	8.69	1.46	1.38
34	BA	1252	G	C6-N1	-8.69	1.33	1.39
35	BB	1122	C	O3'-P	-8.69	1.50	1.61
34	BA	188	C	P-O5'	-8.68	1.51	1.59
34	BA	680	C	C4'-C3'	-8.68	1.43	1.53
85	AA	983	A	P-O5'	-8.68	1.51	1.59
35	BB	1210	U	P-O5'	-8.68	1.51	1.59
40	BG	16	G	O3'-P	-8.68	1.50	1.61
41	BH	58	C	P-O5'	-8.68	1.51	1.59
85	AA	2110	U	O3'-P	-8.68	1.50	1.61
34	BA	5	C	C2-N3	-8.68	1.28	1.35
34	BA	1105	A	N9-C4	-8.68	1.32	1.37
34	BA	1279	U	P-O5'	-8.68	1.51	1.59
34	BA	1535	G	C1'-N9	-8.68	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1149	A	C3'-C2'	-8.68	1.43	1.52
34	BA	1192	A	C2'-C1'	-8.68	1.43	1.53
34	BA	1332	U	P-O5'	-8.68	1.51	1.59
34	BA	422	C	O3'-P	-8.68	1.50	1.61
34	BA	1537	G	P-O5'	-8.68	1.51	1.59
35	BB	694	C	O3'-P	-8.68	1.50	1.61
35	BB	1385	C	C3'-C2'	-8.68	1.43	1.52
38	BE	64	A	O3'-P	-8.68	1.50	1.61
85	AA	1851	A	C1'-N9	-8.68	1.34	1.46
85	AA	1904	C	P-O5'	-8.68	1.51	1.59
34	BA	92	G	C2'-C1'	-8.67	1.43	1.53
34	BA	730	C	C2'-C1'	-8.67	1.43	1.53
34	BA	1657	A	C1'-N9	-8.67	1.34	1.46
35	BB	1062	G	O3'-P	-8.67	1.50	1.61
37	BD	101	A	P-O5'	-8.67	1.51	1.59
37	BD	111	U	C2-N3	-8.67	1.31	1.37
38	BE	182	U	C4'-C3'	-8.67	1.43	1.53
34	BA	296	G	C5'-C4'	8.67	1.61	1.51
40	BG	97	G	O3'-P	-8.67	1.50	1.61
40	BG	120	U	O3'-P	-8.67	1.50	1.61
35	BB	1221	G	N9-C4	-8.67	1.31	1.38
85	AA	352	G	C2'-C1'	-8.67	1.43	1.53
85	AA	1100	U	P-O5'	-8.67	1.51	1.59
35	BB	1286	G	N7-C5	-8.67	1.34	1.39
85	AA	372	U	N3-C4	-8.67	1.30	1.38
34	BA	792	A	C8-N7	-8.67	1.25	1.31
35	BB	33	A	C5-C4	-8.67	1.32	1.38
35	BB	648	G	N1-C2	-8.67	1.30	1.37
85	AA	2137	A	P-O5'	-8.67	1.51	1.59
34	BA	1289	C	P-O5'	-8.66	1.51	1.59
34	BA	1290	A	P-O5'	-8.66	1.51	1.59
35	BB	51	U	C2'-C1'	-8.66	1.43	1.53
37	BD	110	G	C5-C4	-8.66	1.32	1.38
85	AA	419	A	C1'-N9	-8.66	1.34	1.46
85	AA	2121	G	N7-C5	-8.66	1.34	1.39
34	BA	112	C	C3'-C2'	-8.66	1.43	1.52
34	BA	1163	G	C2'-C1'	-8.66	1.43	1.53
34	BA	1477	C	C4'-C3'	-8.66	1.43	1.53
34	BA	1823	A	N9-C4	-8.66	1.32	1.37
36	BC	26	U	C4'-O4'	-8.66	1.34	1.45
85	AA	832	U	P-O5'	-8.66	1.51	1.59
85	AA	1678	U	O3'-P	-8.66	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2145	G	O3'-P	-8.66	1.50	1.61
36	BC	30	U	O3'-P	-8.66	1.50	1.61
38	BE	170	U	C2-N3	-8.66	1.31	1.37
85	AA	705	G	O3'-P	-8.66	1.50	1.61
85	AA	1590	A	P-O5'	-8.66	1.51	1.59
34	BA	106	U	C3'-C2'	-8.66	1.43	1.52
34	BA	1045	C	P-O5'	-8.66	1.51	1.59
35	BB	1076	U	O3'-P	-8.66	1.50	1.61
40	BG	87	G	P-O5'	-8.66	1.51	1.59
85	AA	1877	G	O3'-P	-8.66	1.50	1.61
35	BB	478	G	P-O5'	-8.66	1.51	1.59
35	BB	1136	G	C6-N1	-8.66	1.33	1.39
85	AA	388	G	C2'-C1'	-8.66	1.43	1.53
85	AA	447	C	C3'-C2'	-8.66	1.43	1.52
85	AA	1466	U	C1'-N1	-8.66	1.34	1.46
34	BA	13	U	N1-C2	-8.65	1.30	1.38
34	BA	541	C	P-O5'	-8.65	1.51	1.59
34	BA	567	U	C2'-C1'	-8.65	1.43	1.53
35	BB	971	A	C1'-N9	-8.65	1.34	1.46
36	BC	156	A	C4'-C3'	-8.65	1.43	1.53
37	BD	3	G	C1'-N9	-8.65	1.34	1.46
40	BG	33	G	O3'-P	-8.65	1.50	1.61
85	AA	1250	A	N9-C4	-8.65	1.32	1.37
85	AA	1655	G	N9-C4	-8.65	1.31	1.38
35	BB	1344	U	C2-N3	-8.65	1.31	1.37
36	BC	147	G	O3'-P	-8.65	1.50	1.61
38	BE	3	G	N9-C4	-8.65	1.31	1.38
34	BA	882	G	O3'-P	-8.65	1.50	1.61
34	BA	1544	G	N9-C4	-8.65	1.31	1.38
35	BB	697	G	O3'-P	-8.65	1.50	1.61
85	AA	71	G	P-O5'	-8.65	1.51	1.59
85	AA	917	A	C1'-N9	-8.65	1.34	1.46
34	BA	1458	A	C5'-C4'	8.65	1.61	1.51
35	BB	586	U	C2-N3	-8.65	1.31	1.37
35	BB	4	C	P-O5'	-8.65	1.51	1.59
36	BC	52	A	C4'-C3'	-8.65	1.43	1.53
40	BG	16	G	N9-C4	8.65	1.44	1.38
85	AA	5	U	C2-N3	-8.65	1.31	1.37
85	AA	1228	A	C3'-C2'	-8.65	1.43	1.52
34	BA	370	U	C3'-C2'	-8.64	1.43	1.52
34	BA	939	C	O3'-P	-8.64	1.50	1.61
85	AA	2013	A	N9-C4	-8.64	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1430	C	C2'-C1'	-8.64	1.43	1.53
34	BA	917	C	C2-N3	-8.64	1.28	1.35
35	BB	1045	G	C5-C4	-8.64	1.32	1.38
38	BE	183	C	C5'-C4'	8.64	1.61	1.51
85	AA	629	A	C5-C4	-8.64	1.32	1.38
34	BA	818	G	C3'-C2'	-8.64	1.43	1.52
34	BA	896	U	P-O5'	-8.64	1.51	1.59
34	BA	942	G	O3'-P	-8.64	1.50	1.61
34	BA	1107	A	O3'-P	-8.64	1.50	1.61
35	BB	839	G	C4'-C3'	8.64	1.62	1.53
40	BG	85	C	O3'-P	-8.64	1.50	1.61
85	AA	248	U	C2-N3	-8.64	1.31	1.37
85	AA	321	C	C2'-C1'	-8.64	1.43	1.53
85	AA	1515	A	O3'-P	-8.64	1.50	1.61
85	AA	1171	C	C2'-C1'	-8.64	1.43	1.53
85	AA	1688	U	O3'-P	-8.64	1.50	1.61
34	BA	457	A	P-O5'	-8.64	1.51	1.59
34	BA	1028	A	C2'-C1'	-8.63	1.43	1.53
34	BA	1743	U	C2'-C1'	-8.63	1.43	1.53
35	BB	80	C	P-O5'	-8.64	1.51	1.59
35	BB	811	C	C2'-C1'	-8.63	1.43	1.53
35	BB	1259	A	C5'-C4'	8.64	1.61	1.51
37	BD	4	U	C1'-N1	-8.64	1.34	1.46
34	BA	103	G	C1'-N9	-8.63	1.34	1.46
34	BA	307	C	P-O5'	-8.63	1.51	1.59
35	BB	490	G	N3-C4	-8.63	1.29	1.35
35	BB	1057	G	N9-C4	-8.63	1.31	1.38
35	BB	1440	A	C4'-C3'	-8.63	1.43	1.53
85	AA	1024	G	P-O5'	-8.63	1.51	1.59
34	BA	757	G	N7-C5	-8.63	1.34	1.39
34	BA	903	C	C2'-C1'	-8.63	1.43	1.53
34	BA	970	U	P-O5'	-8.63	1.51	1.59
35	BB	596	C	C2'-C1'	-8.63	1.43	1.53
37	BD	89	G	N9-C4	-8.63	1.31	1.38
34	BA	260	A	C1'-N9	-8.63	1.34	1.46
34	BA	366	G	C1'-N9	-8.63	1.34	1.46
34	BA	1712	U	O3'-P	-8.63	1.50	1.61
35	BB	1191	G	O3'-P	-8.63	1.50	1.61
38	BE	89	G	C3'-C2'	-8.63	1.43	1.52
40	BG	34	A	C3'-C2'	-8.63	1.43	1.52
34	BA	1072	U	C3'-C2'	-8.63	1.43	1.52
34	BA	1197	U	O3'-P	-8.63	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	269	A	N9-C4	-8.63	1.32	1.37
36	BC	121	G	N9-C4	-8.63	1.31	1.38
38	BE	31	A	N7-C5	-8.63	1.34	1.39
85	AA	2117	U	P-O5'	-8.63	1.51	1.59
34	BA	503	C	O3'-P	-8.62	1.50	1.61
34	BA	1543	A	N7-C5	-8.62	1.34	1.39
35	BB	879	G	C2'-C1'	-8.63	1.43	1.53
85	AA	1550	C	P-O5'	-8.62	1.51	1.59
35	BB	1311	G	C3'-C2'	-8.62	1.43	1.52
34	BA	1256	A	C2'-C1'	-8.62	1.43	1.53
34	BA	1642	A	C5-C4	-8.62	1.32	1.38
85	AA	2196	G	N7-C5	-8.62	1.34	1.39
34	BA	1070	G	N1-C2	-8.62	1.30	1.37
34	BA	1295	U	C2-N3	-8.62	1.31	1.37
34	BA	1301	G	C5-C4	-8.62	1.32	1.38
35	BB	579	A	N9-C4	-8.62	1.32	1.37
36	BC	9	G	C6-N1	-8.62	1.33	1.39
38	BE	121	G	C1'-N9	-8.62	1.34	1.46
85	AA	368	C	C3'-C2'	-8.62	1.43	1.52
85	AA	459	C	C2'-C1'	-8.62	1.43	1.53
85	AA	913	U	C2'-C1'	-8.62	1.43	1.53
85	AA	1752	C	P-O5'	-8.62	1.51	1.59
34	BA	1590	G	P-O5'	-8.62	1.51	1.59
34	BA	1435	A	N7-C5	-8.61	1.34	1.39
40	BG	2	U	P-O5'	-8.62	1.51	1.59
40	BG	35	G	C1'-N9	-8.61	1.34	1.46
85	AA	542	G	P-O5'	-8.62	1.51	1.59
34	BA	1107	A	N3-C4	-8.61	1.29	1.34
34	BA	81	C	O3'-P	-8.61	1.50	1.61
34	BA	940	C	P-O5'	-8.61	1.51	1.59
34	BA	1000	G	C6-N1	-8.61	1.33	1.39
34	BA	1249	G	C6-N1	-8.61	1.33	1.39
35	BB	430	A	P-O5'	-8.61	1.51	1.59
35	BB	679	G	C2'-C1'	-8.61	1.43	1.53
35	BB	972	C	P-O5'	-8.61	1.51	1.59
35	BB	1190	U	C2-N3	-8.61	1.31	1.37
35	BB	1254	G	C4'-O4'	-8.61	1.34	1.45
35	BB	1430	G	C2'-C1'	-8.61	1.43	1.53
36	BC	14	G	N9-C4	-8.61	1.31	1.38
38	BE	124	G	O3'-P	-8.61	1.50	1.61
40	BG	35	G	N9-C8	-8.61	1.31	1.37
85	AA	1248	U	P-O5'	-8.61	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	839	U	C3'-C2'	-8.61	1.43	1.52
34	BA	1472	G	N1-C2	-8.61	1.30	1.37
34	BA	977	G	O3'-P	-8.61	1.50	1.61
35	BB	1021	C	C2'-C1'	-8.61	1.43	1.53
35	BB	1079	G	O3'-P	-8.61	1.50	1.61
37	BD	51	G	N9-C4	-8.61	1.31	1.38
39	BF	58	U	C2'-C1'	-8.61	1.43	1.53
34	BA	755	G	O3'-P	-8.61	1.50	1.61
35	BB	570	A	C3'-C2'	-8.61	1.43	1.52
39	BF	19	A	O3'-P	-8.61	1.50	1.61
34	BA	713	C	C3'-C2'	-8.61	1.43	1.52
34	BA	732	A	C2'-C1'	-8.61	1.43	1.53
36	BC	112	G	N7-C5	-8.61	1.34	1.39
41	BH	47	G	O3'-P	-8.61	1.50	1.61
85	AA	520	A	C5'-C4'	8.61	1.61	1.51
34	BA	689	C	C2-N3	-8.60	1.28	1.35
36	BC	43	A	C4'-C3'	-8.60	1.43	1.53
34	BA	1012	A	P-O5'	-8.60	1.51	1.59
34	BA	1836	A	O3'-P	-8.60	1.50	1.61
36	BC	2	A	C2'-C1'	-8.60	1.43	1.53
37	BD	73	U	O3'-P	-8.60	1.50	1.61
38	BE	189	A	N9-C4	-8.60	1.32	1.37
85	AA	621	U	O3'-P	-8.60	1.50	1.61
85	AA	1969	A	O3'-P	-8.60	1.50	1.61
38	BE	35	A	P-O5'	-8.60	1.51	1.59
40	BG	174	G	N9-C4	-8.60	1.31	1.38
85	AA	243	A	C5'-C4'	8.60	1.61	1.51
85	AA	276	C	C2'-C1'	-8.60	1.43	1.53
34	BA	99	G	C3'-C2'	-8.60	1.43	1.52
34	BA	395	G	C6-N1	-8.60	1.33	1.39
34	BA	930	A	O3'-P	-8.60	1.50	1.61
34	BA	1710	C	C2-N3	-8.60	1.28	1.35
35	BB	899	C	P-O5'	-8.60	1.51	1.59
34	BA	941	G	C1'-N9	-8.60	1.34	1.46
35	BB	1265	U	P-O5'	-8.60	1.51	1.59
85	AA	1466	U	C4'-O4'	-8.60	1.34	1.45
85	AA	1485	G	O3'-P	-8.60	1.50	1.61
85	AA	92	G	P-O5'	-8.60	1.51	1.59
37	BD	54	A	N9-C4	-8.60	1.32	1.37
34	BA	1099	U	C3'-C2'	-8.60	1.43	1.52
34	BA	1447	C	C2'-C1'	-8.60	1.43	1.53
38	BE	114	G	C1'-N9	-8.60	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	137	G	C5-C4	-8.60	1.32	1.38
85	AA	105	A	C3'-C2'	-8.60	1.43	1.52
85	AA	490	A	O3'-P	-8.60	1.50	1.61
85	AA	578	U	C5'-C4'	-8.60	1.41	1.51
85	AA	866	U	C3'-C2'	-8.60	1.43	1.52
85	AA	1199	C	C2'-C1'	-8.60	1.43	1.53
85	AA	1958	C	P-O5'	-8.60	1.51	1.59
34	BA	78	U	C4'-C3'	-8.59	1.43	1.53
34	BA	978	U	O3'-P	-8.59	1.50	1.61
85	AA	441	C	C2'-C1'	-8.59	1.43	1.53
34	BA	79	C	C2-N3	-8.59	1.28	1.35
34	BA	1070	G	P-O5'	-8.59	1.51	1.59
35	BB	1373	U	C2-N3	-8.59	1.31	1.37
34	BA	1519	G	C1'-N9	-8.59	1.34	1.46
35	BB	1087	A	O3'-P	-8.59	1.50	1.61
41	BH	21	G	P-O5'	-8.59	1.51	1.59
85	AA	690	G	C6-N1	-8.59	1.33	1.39
85	AA	1063	U	P-O5'	-8.59	1.51	1.59
34	BA	1040	G	C5-C4	-8.59	1.32	1.38
35	BB	399	A	O3'-P	-8.59	1.50	1.61
34	BA	63	A	O3'-P	-8.59	1.50	1.61
34	BA	307	C	C2'-C1'	-8.59	1.44	1.53
34	BA	593	G	C1'-N9	8.59	1.61	1.48
35	BB	1119	G	O3'-P	-8.59	1.50	1.61
85	AA	158	C	O3'-P	-8.59	1.50	1.61
85	AA	1516	A	C4'-C3'	-8.59	1.43	1.53
85	AA	2045	U	O3'-P	-8.59	1.50	1.61
34	BA	766	A	N1-C2	-8.59	1.26	1.34
34	BA	816	G	C2'-C1'	-8.59	1.44	1.53
34	BA	1651	C	O3'-P	-8.59	1.50	1.61
35	BB	1208	G	O3'-P	-8.59	1.50	1.61
85	AA	429	G	O3'-P	-8.59	1.50	1.61
34	BA	975	A	N9-C4	-8.59	1.32	1.37
35	BB	436	G	N7-C5	-8.59	1.34	1.39
39	BF	57	C	C3'-C2'	-8.59	1.43	1.52
85	AA	399	A	N9-C4	-8.59	1.32	1.37
85	AA	411	U	C2'-C1'	-8.59	1.44	1.53
85	AA	452	A	C2'-C1'	-8.59	1.44	1.53
85	AA	1167	G	N7-C5	-8.59	1.34	1.39
85	AA	322	A	N9-C4	-8.59	1.32	1.37
85	AA	493	A	C2'-C1'	-8.59	1.44	1.53
85	AA	527	A	C2'-C1'	-8.58	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	113	G	O3'-P	-8.58	1.50	1.61
34	BA	316	G	C1'-N9	-8.58	1.34	1.46
34	BA	1846	G	C3'-C2'	-8.58	1.43	1.52
34	BA	376	U	O3'-P	-8.58	1.50	1.61
34	BA	817	U	C2-N3	-8.58	1.31	1.37
34	BA	1262	A	C2'-C1'	-8.58	1.44	1.53
34	BA	1830	A	P-O5'	-8.58	1.51	1.59
35	BB	794	G	C6-N1	-8.58	1.33	1.39
41	BH	113	G	C2'-C1'	-8.58	1.44	1.53
35	BB	1145	G	C8-N7	-8.58	1.25	1.30
34	BA	1804	A	P-O5'	-8.58	1.51	1.59
35	BB	555	G	P-O5'	-8.58	1.51	1.59
35	BB	1294	C	O3'-P	-8.58	1.50	1.61
41	BH	123	G	P-O5'	-8.58	1.51	1.59
34	BA	805	A	C2'-C1'	-8.57	1.44	1.53
35	BB	484	G	C6-N1	-8.57	1.33	1.39
85	AA	2087	C	P-O5'	-8.57	1.51	1.59
34	BA	10	G	C1'-N9	-8.57	1.34	1.46
34	BA	260	A	N9-C4	-8.57	1.32	1.37
34	BA	1245	C	C2-N3	-8.57	1.28	1.35
85	AA	330	C	O3'-P	-8.57	1.50	1.61
85	AA	1540	A	N9-C4	-8.57	1.32	1.37
85	AA	441	C	P-O5'	-8.57	1.51	1.59
34	BA	189	G	N3-C4	-8.57	1.29	1.35
34	BA	1196	C	O3'-P	-8.57	1.50	1.61
34	BA	1671	A	N9-C4	-8.57	1.32	1.37
35	BB	1377	A	C1'-N9	-8.57	1.34	1.46
35	BB	1388	A	O3'-P	-8.57	1.50	1.61
35	BB	1459	U	N1-C2	-8.57	1.30	1.38
40	BG	96	C	C2-N3	-8.57	1.28	1.35
85	AA	187	C	P-O5'	-8.57	1.51	1.59
34	BA	1166	A	N9-C4	-8.57	1.32	1.37
34	BA	1523	U	C2-N3	-8.57	1.31	1.37
35	BB	854	G	P-O5'	-8.57	1.51	1.59
85	AA	485	A	C1'-N9	-8.57	1.34	1.46
85	AA	1216	A	C2'-C1'	-8.57	1.44	1.53
85	AA	1855	U	O3'-P	-8.57	1.50	1.61
34	BA	448	U	C2-N3	-8.57	1.31	1.37
34	BA	49	A	P-O5'	-8.57	1.51	1.59
34	BA	1632	G	P-O5'	-8.57	1.51	1.59
35	BB	392	G	C1'-N9	-8.57	1.34	1.46
35	BB	1049	G	O3'-P	-8.57	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	575	G	C1'-N9	-8.57	1.34	1.46
35	BB	603	U	O3'-P	-8.57	1.50	1.61
38	BE	193	A	O3'-P	-8.57	1.50	1.61
34	BA	699	G	P-O5'	-8.56	1.51	1.59
34	BA	1331	G	C2'-C1'	-8.56	1.44	1.53
35	BB	1511	U	C2-N3	-8.56	1.31	1.37
85	AA	360	C	P-O5'	-8.56	1.51	1.59
85	AA	804	A	N9-C4	-8.56	1.32	1.37
85	AA	878	U	C2'-C1'	-8.56	1.44	1.53
34	BA	95	C	C2-N3	-8.56	1.28	1.35
34	BA	973	U	C4'-C3'	-8.56	1.43	1.53
35	BB	1546	C	C3'-C2'	-8.56	1.43	1.52
34	BA	463	A	N3-C4	-8.56	1.29	1.34
85	AA	1812	C	P-O5'	-8.56	1.51	1.59
34	BA	325	A	C2'-C1'	-8.56	1.44	1.53
34	BA	1103	G	N9-C4	-8.56	1.31	1.38
34	BA	1318	G	C2'-C1'	-8.56	1.44	1.53
35	BB	104	G	C2'-C1'	-8.56	1.44	1.53
35	BB	1406	C	C3'-C2'	-8.56	1.43	1.52
40	BG	88	G	C6-N1	-8.56	1.33	1.39
85	AA	1586	C	C2'-C1'	-8.56	1.44	1.53
85	AA	2123	U	C3'-C2'	-8.56	1.43	1.52
34	BA	178	C	C2-N3	-8.55	1.28	1.35
34	BA	792	A	N7-C5	-8.55	1.34	1.39
34	BA	887	U	C3'-C2'	-8.56	1.43	1.52
34	BA	757	G	C4'-O4'	-8.55	1.34	1.45
34	BA	983	A	O3'-P	-8.55	1.50	1.61
34	BA	1838	U	P-O5'	-8.55	1.51	1.59
35	BB	614	U	O3'-P	-8.55	1.50	1.61
35	BB	1199	A	C3'-C2'	-8.55	1.43	1.52
35	BB	1326	U	O3'-P	-8.55	1.50	1.61
35	BB	1523	U	P-O5'	-8.55	1.51	1.59
36	BC	77	A	N9-C4	-8.55	1.32	1.37
40	BG	126	G	P-O5'	-8.55	1.51	1.59
34	BA	41	U	C2-N3	-8.55	1.31	1.37
34	BA	726	G	O3'-P	-8.55	1.50	1.61
34	BA	815	C	C2'-C1'	-8.55	1.44	1.53
34	BA	1579	G	O3'-P	-8.55	1.50	1.61
35	BB	1153	G	N7-C5	-8.55	1.34	1.39
36	BC	144	C	P-O5'	-8.55	1.51	1.59
38	BE	66	A	O3'-P	-8.55	1.50	1.61
34	BA	764	G	C5'-C4'	8.55	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1053	G	C2-N2	-8.55	1.26	1.34
34	BA	1262	A	C5-C4	-8.55	1.32	1.38
35	BB	39	C	C3'-C2'	-8.55	1.43	1.52
35	BB	393	A	P-O5'	-8.55	1.51	1.59
35	BB	844	G	P-O5'	-8.55	1.51	1.59
40	BG	105	A	C1'-N9	-8.55	1.34	1.46
85	AA	515	C	C2-N3	-8.55	1.28	1.35
85	AA	1707	G	N7-C5	-8.55	1.34	1.39
34	BA	114	U	C2'-C1'	-8.55	1.44	1.53
34	BA	218	G	C2'-C1'	-8.54	1.44	1.53
34	BA	474	A	C1'-N9	-8.54	1.34	1.46
34	BA	501	U	C1'-N1	8.55	1.61	1.48
34	BA	1163	G	O3'-P	-8.55	1.50	1.61
34	BA	1821	A	P-O5'	-8.55	1.51	1.59
37	BD	87	G	C5-C4	-8.55	1.32	1.38
34	BA	1670	A	O3'-P	-8.54	1.50	1.61
35	BB	67	A	P-O5'	-8.54	1.51	1.59
85	AA	989	U	O3'-P	-8.54	1.50	1.61
85	AA	1272	G	C2'-C1'	-8.55	1.44	1.53
85	AA	1509	A	C2'-C1'	-8.54	1.44	1.53
34	BA	400	A	N9-C4	-8.54	1.32	1.37
34	BA	681	G	O3'-P	-8.54	1.50	1.61
34	BA	804	G	P-O5'	-8.54	1.51	1.59
34	BA	1014	A	P-O5'	-8.54	1.51	1.59
34	BA	1550	G	C5-C4	-8.54	1.32	1.38
34	BA	1565	U	C2-N3	-8.54	1.31	1.37
34	BA	1706	A	C5'-C4'	8.54	1.61	1.51
35	BB	1183	U	C2'-C1'	-8.54	1.44	1.53
85	AA	1885	A	C1'-N9	-8.54	1.34	1.46
34	BA	1614	G	N9-C4	-8.54	1.31	1.38
35	BB	587	A	C1'-N9	-8.54	1.34	1.46
34	BA	20	A	C1'-N9	-8.54	1.34	1.46
34	BA	760	G	N9-C4	-8.54	1.31	1.38
34	BA	1845	G	P-O5'	-8.54	1.51	1.59
40	BG	152	G	P-O5'	-8.54	1.51	1.59
85	AA	119	G	N3-C4	-8.54	1.29	1.35
85	AA	912	C	P-O5'	-8.54	1.51	1.59
34	BA	161	U	N1-C2	-8.54	1.30	1.38
34	BA	1292	A	P-O5'	-8.54	1.51	1.59
34	BA	1295	U	C1'-N1	-8.54	1.34	1.46
34	BA	1513	G	C6-N1	-8.54	1.33	1.39
35	BB	64	U	C2'-C1'	-8.54	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1509	G	C2'-C1'	-8.54	1.44	1.53
41	BH	20	A	O3'-P	-8.54	1.50	1.61
85	AA	890	U	O3'-P	-8.54	1.50	1.61
34	BA	200	C	O3'-P	-8.54	1.50	1.61
35	BB	793	A	P-O5'	-8.54	1.51	1.59
35	BB	1404	A	N3-C4	-8.54	1.29	1.34
34	BA	819	G	C1'-N9	-8.53	1.34	1.46
34	BA	1474	G	C6-N1	-8.54	1.33	1.39
35	BB	1003	G	C2-N2	-8.53	1.26	1.34
34	BA	53	G	P-O5'	-8.53	1.51	1.59
35	BB	366	G	C2'-C1'	-8.53	1.44	1.53
35	BB	683	U	O3'-P	-8.53	1.50	1.61
35	BB	967	G	P-O5'	-8.53	1.51	1.59
85	AA	373	G	P-O5'	-8.53	1.51	1.59
34	BA	470	C	N1-C2	-8.53	1.31	1.40
34	BA	507	U	C5'-C4'	8.53	1.61	1.51
34	BA	1225	A	O3'-P	-8.53	1.50	1.61
34	BA	1243	A	N9-C4	-8.53	1.32	1.37
34	BA	1032	A	N9-C4	-8.53	1.32	1.37
35	BB	548	A	N7-C5	-8.53	1.34	1.39
35	BB	1067	G	N7-C5	-8.53	1.34	1.39
85	AA	181	A	N7-C5	-8.53	1.34	1.39
85	AA	1822	G	C2'-C1'	-8.53	1.44	1.53
34	BA	1549	U	C2-N3	-8.53	1.31	1.37
34	BA	276	C	C2-N3	-8.53	1.28	1.35
34	BA	398	G	C2-N3	-8.53	1.25	1.32
34	BA	617	G	C2'-C1'	-8.53	1.44	1.53
35	BB	546	A	C5-C4	-8.53	1.32	1.38
38	BE	39	U	C3'-C2'	-8.53	1.43	1.52
35	BB	778	A	C5'-C4'	-8.53	1.41	1.51
38	BE	90	G	O3'-P	-8.53	1.50	1.61
38	BE	117	A	N7-C5	-8.53	1.34	1.39
34	BA	484	A	O3'-P	-8.52	1.50	1.61
34	BA	915	A	N9-C4	-8.52	1.32	1.37
34	BA	1114	G	C6-N1	-8.52	1.33	1.39
34	BA	1417	C	C3'-C2'	-8.52	1.43	1.52
37	BD	35	C	C2'-C1'	-8.52	1.44	1.53
40	BG	38	A	C3'-C2'	-8.52	1.43	1.52
41	BH	69	C	O3'-P	-8.52	1.50	1.61
35	BB	133	G	C1'-N9	-8.52	1.34	1.46
35	BB	1148	U	O3'-P	-8.52	1.50	1.61
40	BG	31	G	C5-C4	-8.52	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	16	A	N7-C5	-8.52	1.34	1.39
41	BH	19	G	C3'-C2'	-8.52	1.43	1.52
85	AA	1557	U	O3'-P	-8.52	1.50	1.61
34	BA	74	A	O3'-P	-8.52	1.50	1.61
35	BB	637	G	N3-C4	-8.52	1.29	1.35
34	BA	1800	G	N3-C4	-8.52	1.29	1.35
35	BB	1074	U	O3'-P	-8.52	1.50	1.61
38	BE	37	C	O3'-P	-8.52	1.50	1.61
85	AA	269	G	P-O5'	-8.52	1.51	1.59
85	AA	1699	A	N7-C5	-8.52	1.34	1.39
85	AA	1865	C	O3'-P	-8.52	1.50	1.61
34	BA	52	G	C6-N1	-8.52	1.33	1.39
34	BA	763	U	C4'-C3'	-8.52	1.43	1.53
34	BA	1513	G	P-O5'	-8.52	1.51	1.59
35	BB	493	U	C2'-C1'	-8.52	1.44	1.53
35	BB	378	C	P-O5'	-8.52	1.51	1.59
35	BB	662	G	N9-C4	-8.52	1.31	1.38
35	BB	1052	G	C1'-N9	-8.52	1.34	1.46
36	BC	60	U	O3'-P	-8.52	1.50	1.61
34	BA	43	U	P-O5'	-8.51	1.51	1.59
34	BA	110	C	C2'-C1'	-8.51	1.44	1.53
34	BA	406	G	C2'-C1'	-8.51	1.44	1.53
34	BA	1287	G	C1'-N9	-8.51	1.34	1.46
38	BE	77	C	O3'-P	-8.51	1.50	1.61
85	AA	2082	C	P-O5'	-8.51	1.51	1.59
37	BD	82	G	C2'-C1'	-8.51	1.44	1.53
39	BF	58	U	O3'-P	-8.51	1.50	1.61
40	BG	75	C	O3'-P	-8.51	1.50	1.61
85	AA	1584	U	O3'-P	-8.51	1.50	1.61
40	BG	165	C	O3'-P	-8.51	1.50	1.61
34	BA	308	C	O3'-P	-8.51	1.50	1.61
35	BB	638	G	O3'-P	-8.51	1.50	1.61
35	BB	1185	G	C2'-C1'	-8.51	1.44	1.53
85	AA	429	G	N9-C4	-8.51	1.31	1.38
85	AA	1700	C	C2'-C1'	-8.51	1.44	1.53
40	BG	95	U	P-O5'	-8.51	1.51	1.59
85	AA	922	A	N9-C4	-8.51	1.32	1.37
85	AA	2127	G	C5-C6	-8.51	1.33	1.42
34	BA	260	A	C2'-C1'	-8.51	1.44	1.53
34	BA	1149	C	C2-N3	-8.51	1.28	1.35
34	BA	1189	A	O3'-P	-8.51	1.50	1.61
34	BA	1324	G	O3'-P	-8.51	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1840	C	C3'-C2'	-8.51	1.43	1.52
35	BB	422	U	C2-N3	-8.51	1.31	1.37
35	BB	810	G	C2'-C1'	-8.51	1.44	1.53
36	BC	66	G	C2'-C1'	-8.51	1.44	1.53
36	BC	136	G	C2'-C1'	-8.51	1.44	1.53
39	BF	3	A	O3'-P	-8.51	1.50	1.61
85	AA	286	C	P-O5'	-8.51	1.51	1.59
85	AA	1672	G	P-O5'	-8.51	1.51	1.59
85	AA	62	A	N9-C4	-8.51	1.32	1.37
85	AA	703	U	P-O5'	-8.51	1.51	1.59
34	BA	280	A	N7-C5	-8.50	1.34	1.39
34	BA	498	A	C3'-C2'	-8.50	1.43	1.52
35	BB	772	U	P-O5'	-8.50	1.51	1.59
35	BB	1378	U	O3'-P	-8.50	1.50	1.61
36	BC	115	G	O3'-P	-8.50	1.50	1.61
85	AA	702	G	P-O5'	-8.50	1.51	1.59
85	AA	856	G	C2'-C1'	-8.50	1.44	1.53
85	AA	917	A	P-O5'	-8.50	1.51	1.59
85	AA	1583	U	P-O5'	-8.50	1.51	1.59
34	BA	494	A	C2'-C1'	-8.50	1.44	1.53
34	BA	1722	U	O4'-C1'	-8.50	1.30	1.41
35	BB	66	G	N9-C4	-8.50	1.31	1.38
36	BC	127	C	C2'-C1'	-8.50	1.44	1.53
85	AA	97	A	C5-C4	-8.50	1.32	1.38
85	AA	1242	A	P-O5'	-8.50	1.51	1.59
85	AA	2072	G	P-O5'	-8.50	1.51	1.59
34	BA	410	G	C2'-C1'	-8.50	1.44	1.53
34	BA	706	C	C2'-C1'	-8.50	1.44	1.53
35	BB	1488	G	C6-N1	-8.50	1.33	1.39
85	AA	1717	G	C5'-C4'	8.50	1.61	1.51
34	BA	1721	U	C2-N3	-8.50	1.31	1.37
35	BB	435	A	C5-C4	-8.50	1.32	1.38
85	AA	372	U	O3'-P	-8.50	1.50	1.61
85	AA	1132	A	N9-C4	-8.50	1.32	1.37
85	AA	1860	A	P-O5'	-8.50	1.51	1.59
34	BA	324	C	O3'-P	-8.49	1.50	1.61
34	BA	341	U	O4'-C1'	-8.49	1.30	1.41
85	AA	1882	U	P-O5'	-8.49	1.51	1.59
34	BA	1275	G	C6-N1	-8.49	1.33	1.39
35	BB	614	U	C3'-C2'	-8.49	1.43	1.52
34	BA	1408	C	C2'-C1'	-8.49	1.44	1.53
41	BH	17	A	O3'-P	-8.49	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	88	G	C6-N1	-8.49	1.33	1.39
85	AA	1057	G	C2'-C1'	-8.49	1.44	1.53
85	AA	2090	C	P-O5'	-8.49	1.51	1.59
34	BA	185	A	C2'-C1'	-8.49	1.44	1.53
35	BB	52	G	C3'-C2'	-8.49	1.43	1.52
35	BB	505	G	C1'-N9	-8.49	1.34	1.46
35	BB	644	A	P-O5'	-8.49	1.51	1.59
35	BB	1047	C	C2-N3	-8.49	1.28	1.35
35	BB	1025	A	C4'-C3'	8.49	1.62	1.53
85	AA	442	G	O3'-P	-8.49	1.50	1.61
34	BA	576	C	O3'-P	-8.49	1.50	1.61
40	BG	28	A	C3'-C2'	-8.49	1.43	1.52
34	BA	1724	G	N9-C4	-8.49	1.31	1.38
38	BE	193	A	N7-C5	-8.49	1.34	1.39
85	AA	62	A	C1'-N9	-8.49	1.34	1.46
85	AA	1264	U	P-O5'	-8.49	1.51	1.59
34	BA	20	A	N3-C4	-8.48	1.29	1.34
34	BA	1168	C	O3'-P	-8.48	1.50	1.61
34	BA	1227	U	C3'-C2'	-8.48	1.43	1.52
34	BA	1240	G	N7-C5	-8.48	1.34	1.39
34	BA	1475	G	C5-C4	-8.48	1.32	1.38
35	BB	624	A	O3'-P	-8.48	1.50	1.61
85	AA	1214	C	C4'-C3'	-8.48	1.43	1.53
41	BH	32	U	P-O5'	-8.48	1.51	1.59
85	AA	442	G	N9-C8	-8.48	1.31	1.37
85	AA	851	G	O3'-P	-8.48	1.50	1.61
34	BA	1025	A	C1'-N9	-8.48	1.34	1.46
34	BA	1686	G	C1'-N9	-8.48	1.34	1.46
35	BB	108	G	N9-C4	-8.48	1.31	1.38
35	BB	1470	G	N7-C5	-8.48	1.34	1.39
41	BH	35	G	N7-C5	-8.48	1.34	1.39
85	AA	163	C	P-O5'	-8.48	1.51	1.59
85	AA	289	G	C2'-C1'	-8.48	1.44	1.53
85	AA	2213	A	N9-C4	-8.48	1.32	1.37
85	AA	1105	G	C6-N1	-8.48	1.33	1.39
35	BB	1051	U	O3'-P	-8.48	1.50	1.61
37	BD	9	C	C2-N3	-8.48	1.28	1.35
85	AA	595	A	C2'-C1'	-8.48	1.44	1.53
35	BB	540	G	N7-C5	-8.48	1.34	1.39
38	BE	106	C	C4'-C3'	-8.48	1.43	1.53
40	BG	131	U	C2-N3	-8.48	1.31	1.37
85	AA	1868	G	C2'-C1'	-8.48	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2228	G	O3'-P	-8.48	1.50	1.61
34	BA	38	G	C6-N1	-8.47	1.33	1.39
34	BA	987	C	C2'-C1'	-8.47	1.44	1.53
35	BB	662	G	N1-C2	-8.47	1.30	1.37
35	BB	1058	U	C2-N3	-8.47	1.31	1.37
36	BC	29	C	O3'-P	-8.47	1.50	1.61
36	BC	113	G	C6-N1	-8.47	1.33	1.39
37	BD	68	C	C2'-C1'	-8.47	1.44	1.53
40	BG	99	A	O3'-P	-8.47	1.50	1.61
85	AA	887	A	C4'-C3'	-8.47	1.43	1.53
85	AA	704	A	N9-C4	-8.47	1.32	1.37
85	AA	838	G	N9-C4	8.47	1.44	1.38
85	AA	930	G	C6-N1	8.47	1.45	1.39
85	AA	2022	A	N9-C4	-8.47	1.32	1.37
34	BA	180	G	C2'-C1'	-8.47	1.44	1.53
34	BA	446	U	C3'-C2'	-8.47	1.43	1.52
35	BB	509	A	N9-C4	-8.47	1.32	1.37
35	BB	1335	G	N9-C4	-8.47	1.31	1.38
34	BA	1181	G	O3'-P	-8.47	1.50	1.61
36	BC	75	G	P-O5'	-8.47	1.51	1.59
36	BC	134	G	P-O5'	-8.47	1.51	1.59
40	BG	66	C	C2'-C1'	-8.47	1.44	1.53
85	AA	1294	U	O4'-C1'	-8.47	1.30	1.41
85	AA	1928	A	P-O5'	-8.47	1.51	1.59
34	BA	111	U	O3'-P	-8.47	1.50	1.61
37	BD	42	A	N9-C4	-8.47	1.32	1.37
40	BG	92	U	C2-N3	-8.47	1.31	1.37
40	BG	169	A	P-O5'	-8.47	1.51	1.59
85	AA	677	U	O3'-P	-8.47	1.50	1.61
85	AA	1694	C	O3'-P	-8.47	1.50	1.61
85	AA	2234	C	P-O5'	-8.47	1.51	1.59
34	BA	174	A	P-O5'	-8.46	1.51	1.59
34	BA	474	A	O3'-P	-8.46	1.50	1.61
34	BA	888	G	C1'-N9	-8.47	1.34	1.46
34	BA	1807	G	O3'-P	-8.47	1.50	1.61
35	BB	59	U	P-O5'	-8.46	1.51	1.59
40	BG	78	C	C3'-C2'	-8.47	1.43	1.52
40	BG	123	C	O3'-P	-8.47	1.50	1.61
35	BB	1259	A	C1'-N9	-8.46	1.35	1.46
38	BE	44	C	P-O5'	-8.46	1.51	1.59
85	AA	450	A	C1'-N9	-8.46	1.35	1.46
85	AA	1149	A	C1'-N9	-8.46	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1240	A	O3'-P	-8.46	1.50	1.61
85	AA	1877	G	C2'-C1'	-8.46	1.44	1.53
34	BA	782	C	O3'-P	-8.46	1.50	1.61
34	BA	1549	U	C4'-C3'	-8.46	1.43	1.53
34	BA	1700	C	C3'-C2'	-8.46	1.43	1.52
35	BB	1250	A	P-O5'	-8.46	1.51	1.59
38	BE	186	C	P-O5'	-8.46	1.51	1.59
41	BH	124	C	C3'-C2'	-8.46	1.43	1.52
85	AA	963	U	P-O5'	-8.46	1.51	1.59
85	AA	1502	A	C1'-N9	-8.46	1.35	1.46
85	AA	1650	G	C2'-C1'	-8.46	1.44	1.53
34	BA	481	A	N7-C5	-8.46	1.34	1.39
34	BA	1301	G	O3'-P	-8.46	1.50	1.61
34	BA	1836	A	C1'-N9	-8.46	1.35	1.46
35	BB	407	A	O3'-P	-8.46	1.50	1.61
35	BB	450	A	O3'-P	-8.46	1.50	1.61
35	BB	799	A	N7-C5	-8.46	1.34	1.39
40	BG	117	C	C2'-C1'	-8.46	1.44	1.53
40	BG	155	A	P-O5'	-8.46	1.51	1.59
85	AA	415	G	N9-C4	-8.46	1.31	1.38
85	AA	719	C	P-O5'	-8.46	1.51	1.59
34	BA	594	G	C6-N1	-8.46	1.33	1.39
34	BA	1221	A	C1'-N9	-8.46	1.35	1.46
35	BB	1460	G	C2'-C1'	-8.46	1.44	1.53
35	BB	102	G	O3'-P	-8.46	1.51	1.61
35	BB	1053	G	C3'-C2'	-8.46	1.43	1.52
85	AA	504	U	C1'-N1	-8.46	1.35	1.46
35	BB	1097	U	O3'-P	-8.46	1.51	1.61
85	AA	288	G	N9-C4	-8.46	1.31	1.38
85	AA	326	C	O3'-P	-8.46	1.50	1.61
85	AA	395	G	O3'-P	-8.46	1.51	1.61
34	BA	1776	G	C1'-N9	-8.46	1.35	1.46
37	BD	5	A	O3'-P	-8.45	1.51	1.61
39	BF	70	A	P-O5'	-8.45	1.51	1.59
85	AA	463	G	C2-N2	-8.46	1.26	1.34
85	AA	1466	U	O4'-C1'	-8.46	1.30	1.41
34	BA	790	G	N7-C5	-8.45	1.34	1.39
34	BA	1000	G	C1'-N9	-8.45	1.35	1.46
34	BA	1153	C	P-O5'	-8.45	1.51	1.59
35	BB	550	G	C2-N3	-8.45	1.25	1.32
35	BB	1272	G	O3'-P	-8.45	1.51	1.61
38	BE	27	A	C4'-O4'	-8.45	1.34	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	151	C	P-O5'	-8.45	1.51	1.59
85	AA	1127	G	C5-C4	-8.45	1.32	1.38
85	AA	1976	G	O3'-P	-8.45	1.51	1.61
34	BA	604	G	P-O5'	-8.45	1.51	1.59
34	BA	1568	A	C2'-C1'	-8.45	1.44	1.53
35	BB	98	A	O3'-P	-8.45	1.51	1.61
35	BB	696	G	O3'-P	-8.45	1.51	1.61
35	BB	704	G	C6-N1	-8.45	1.33	1.39
40	BG	27	C	C3'-C2'	-8.45	1.43	1.52
85	AA	879	G	O3'-P	-8.45	1.51	1.61
85	AA	1195	U	O3'-P	-8.45	1.51	1.61
35	BB	1271	A	O3'-P	-8.45	1.51	1.61
85	AA	1562	U	O3'-P	-8.45	1.51	1.61
85	AA	2074	G	O3'-P	-8.45	1.51	1.61
85	AA	2077	G	N7-C5	-8.45	1.34	1.39
34	BA	472	G	N7-C5	-8.45	1.34	1.39
34	BA	269	G	N9-C4	-8.45	1.31	1.38
34	BA	1676	A	O3'-P	-8.45	1.51	1.61
34	BA	1695	G	P-O5'	-8.45	1.51	1.59
35	BB	684	U	P-O5'	-8.45	1.51	1.59
35	BB	1021	C	N1-C6	-8.45	1.32	1.37
35	BB	1278	A	C1'-N9	-8.45	1.35	1.46
37	BD	10	C	N1-C6	-8.45	1.32	1.37
85	AA	300	C	P-O5'	-8.45	1.51	1.59
34	BA	886	G	C2'-C1'	-8.44	1.44	1.53
34	BA	1119	A	N9-C4	-8.44	1.32	1.37
34	BA	1459	U	P-O5'	-8.45	1.51	1.59
35	BB	1202	G	P-O5'	-8.45	1.51	1.59
41	BH	104	U	C2-N3	-8.44	1.31	1.37
85	AA	605	A	C2'-C1'	-8.45	1.44	1.53
85	AA	1127	G	O3'-P	-8.45	1.51	1.61
85	AA	2075	C	C3'-C2'	-8.45	1.43	1.52
85	AA	2076	C	O3'-P	-8.44	1.51	1.61
34	BA	662	U	C2-N3	-8.44	1.31	1.37
34	BA	676	G	C6-N1	-8.44	1.33	1.39
34	BA	882	G	C3'-C2'	-8.44	1.43	1.52
85	AA	505	U	O3'-P	-8.44	1.51	1.61
36	BC	141	C	C3'-C2'	-8.44	1.43	1.52
85	AA	6	G	P-O5'	-8.44	1.51	1.59
85	AA	1290	G	C2-N2	-8.44	1.26	1.34
34	BA	237	A	N9-C8	-8.44	1.30	1.37
34	BA	1200	U	O3'-P	-8.44	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1328	U	O3'-P	-8.44	1.51	1.61
35	BB	1537	C	P-O5'	-8.44	1.51	1.59
36	BC	115	G	C6-N1	-8.44	1.33	1.39
85	AA	1004	G	C2'-C1'	-8.44	1.44	1.53
34	BA	1066	A	O3'-P	-8.44	1.51	1.61
34	BA	32	A	N9-C4	-8.44	1.32	1.37
34	BA	115	U	O4'-C1'	-8.44	1.30	1.41
34	BA	390	A	C5-C4	-8.44	1.32	1.38
34	BA	481	A	C8-N7	-8.44	1.25	1.31
34	BA	1270	G	C3'-C2'	-8.44	1.43	1.52
34	BA	1796	A	P-O5'	-8.44	1.51	1.59
36	BC	148	C	O3'-P	-8.44	1.51	1.61
40	BG	58	G	P-O5'	-8.44	1.51	1.59
40	BG	72	G	C5-C4	-8.44	1.32	1.38
40	BG	88	G	C2'-C1'	-8.44	1.44	1.53
35	BB	379	U	O3'-P	-8.43	1.51	1.61
38	BE	123	A	N7-C5	-8.43	1.34	1.39
35	BB	1494	G	P-O5'	-8.43	1.51	1.59
40	BG	178	G	N9-C4	-8.43	1.31	1.38
85	AA	13	U	P-O5'	-8.43	1.51	1.59
85	AA	2133	A	C3'-C2'	-8.43	1.43	1.52
34	BA	1467	U	C3'-C2'	-8.43	1.43	1.52
35	BB	569	G	O3'-P	-8.43	1.51	1.61
37	BD	61	C	O3'-P	-8.43	1.51	1.61
40	BG	99	A	C3'-C2'	-8.43	1.43	1.52
85	AA	30	G	P-O5'	-8.43	1.51	1.59
85	AA	742	U	P-O5'	-8.43	1.51	1.59
85	AA	1713	A	P-O5'	-8.43	1.51	1.59
85	AA	2142	A	C1'-N9	-8.43	1.35	1.46
85	AA	1796	C	C2'-C1'	-8.43	1.44	1.53
34	BA	525	A	N9-C4	-8.43	1.32	1.37
34	BA	1565	U	N3-C4	-8.43	1.30	1.38
35	BB	1094	A	C1'-N9	-8.43	1.35	1.46
37	BD	21	G	P-O5'	-8.43	1.51	1.59
85	AA	496	C	C3'-C2'	-8.43	1.43	1.52
85	AA	2081	A	O3'-P	-8.43	1.51	1.61
85	AA	1704	C	P-O5'	-8.43	1.51	1.59
34	BA	181	G	C2'-C1'	-8.42	1.44	1.53
38	BE	89	G	C1'-N9	-8.42	1.35	1.46
34	BA	103	G	C4'-C3'	-8.42	1.43	1.53
34	BA	1311	G	O3'-P	-8.42	1.51	1.61
36	BC	77	A	O3'-P	-8.42	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	105	A	O3'-P	-8.42	1.51	1.61
34	BA	776	U	C2'-C1'	-8.42	1.44	1.53
34	BA	1099	U	C2-N3	-8.42	1.31	1.37
34	BA	1418	G	O3'-P	-8.42	1.51	1.61
34	BA	1456	C	O3'-P	-8.42	1.51	1.61
35	BB	7	C	C2-N3	-8.42	1.29	1.35
35	BB	72	G	O3'-P	-8.42	1.51	1.61
35	BB	557	C	O3'-P	-8.42	1.51	1.61
35	BB	1272	G	P-O5'	-8.42	1.51	1.59
38	BE	181	U	O3'-P	-8.42	1.51	1.61
40	BG	71	C	C1'-N1	-8.42	1.35	1.46
41	BH	125	U	C2-N3	-8.42	1.31	1.37
85	AA	98	U	P-O5'	-8.42	1.51	1.59
85	AA	1486	G	N7-C5	-8.42	1.34	1.39
34	BA	956	G	N9-C4	-8.42	1.31	1.38
34	BA	959	G	P-O5'	-8.42	1.51	1.59
34	BA	1225	A	N7-C5	-8.42	1.34	1.39
85	AA	2176	U	C2-N3	-8.42	1.31	1.37
35	BB	372	U	C2'-C1'	-8.42	1.44	1.53
36	BC	154	A	C4'-C3'	-8.42	1.43	1.53
34	BA	66	C	P-O5'	-8.41	1.51	1.59
34	BA	520	G	N9-C4	-8.41	1.31	1.38
34	BA	1088	G	C1'-N9	-8.41	1.35	1.46
34	BA	1562	G	C6-N1	-8.41	1.33	1.39
34	BA	1696	G	P-O5'	-8.41	1.51	1.59
37	BD	96	C	P-O5'	-8.41	1.51	1.59
39	BF	48	G	P-O5'	-8.41	1.51	1.59
34	BA	761	U	P-O5'	-8.41	1.51	1.59
35	BB	434	A	C2'-C1'	-8.41	1.44	1.53
85	AA	419	A	O3'-P	-8.41	1.51	1.61
35	BB	1305	A	N9-C4	-8.41	1.32	1.37
37	BD	71	G	C2'-C1'	-8.41	1.44	1.53
85	AA	308	U	C2'-C1'	-8.41	1.44	1.53
85	AA	1260	G	C2'-C1'	-8.41	1.44	1.53
35	BB	3	C	O3'-P	-8.41	1.51	1.61
34	BA	1088	G	C5-C4	-8.41	1.32	1.38
35	BB	495	A	O3'-P	-8.41	1.51	1.61
35	BB	605	C	C3'-C2'	-8.41	1.43	1.52
35	BB	1450	G	O3'-P	-8.41	1.51	1.61
41	BH	38	G	C6-N1	-8.41	1.33	1.39
85	AA	640	C	O3'-P	-8.41	1.51	1.61
34	BA	88	C	O4'-C1'	-8.40	1.30	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1331	G	C1'-N9	-8.40	1.35	1.46
35	BB	645	C	O3'-P	-8.40	1.51	1.61
85	AA	1170	C	P-O5'	-8.40	1.51	1.59
34	BA	1580	U	O3'-P	-8.40	1.51	1.61
35	BB	828	G	C1'-N9	-8.40	1.35	1.46
40	BG	93	U	C2-N3	-8.40	1.31	1.37
85	AA	715	G	C2'-C1'	-8.40	1.44	1.53
85	AA	830	A	O3'-P	-8.40	1.51	1.61
34	BA	1239	G	P-O5'	-8.40	1.51	1.59
36	BC	154	A	C3'-C2'	-8.40	1.43	1.52
85	AA	861	G	O3'-P	-8.40	1.51	1.61
34	BA	996	U	C1'-N1	-8.40	1.35	1.46
34	BA	1052	G	C5-C4	-8.40	1.32	1.38
85	AA	1090	A	C2'-C1'	-8.40	1.44	1.53
40	BG	137	G	C4'-C3'	-8.40	1.44	1.53
85	AA	368	C	P-O5'	-8.40	1.51	1.59
85	AA	469	G	O3'-P	-8.40	1.51	1.61
85	AA	2021	A	P-O5'	-8.40	1.51	1.59
85	AA	2087	C	O3'-P	-8.40	1.51	1.61
34	BA	798	G	C2'-C1'	-8.40	1.44	1.53
40	BG	77	U	P-O5'	-8.40	1.51	1.59
34	BA	316	G	O3'-P	-8.40	1.51	1.61
34	BA	1541	G	C2'-C1'	-8.40	1.44	1.53
34	BA	946	A	N7-C5	-8.40	1.34	1.39
34	BA	1003	A	O3'-P	-8.40	1.51	1.61
34	BA	1806	A	C1'-N9	-8.40	1.35	1.46
36	BC	53	A	C3'-C2'	-8.40	1.43	1.52
85	AA	2130	G	C6-N1	-8.40	1.33	1.39
85	AA	2144	C	C2'-C1'	-8.40	1.44	1.53
34	BA	268	U	O3'-P	-8.39	1.51	1.61
34	BA	1531	G	O3'-P	-8.39	1.51	1.61
35	BB	1185	G	O3'-P	-8.39	1.51	1.61
39	BF	39	C	P-O5'	-8.39	1.51	1.59
85	AA	1952	C	P-O5'	-8.39	1.51	1.59
35	BB	1226	G	O3'-P	-8.39	1.51	1.61
85	AA	2019	G	P-O5'	-8.39	1.51	1.59
34	BA	523	A	C1'-N9	-8.39	1.35	1.46
34	BA	1203	G	O3'-P	-8.39	1.51	1.61
34	BA	1275	G	C2'-C1'	-8.39	1.44	1.53
40	BG	137	G	C2'-C1'	-8.39	1.44	1.53
35	BB	611	U	C2-N3	-8.39	1.31	1.37
37	BD	72	U	N1-C2	-8.39	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	16	C	C2'-C1'	-8.39	1.44	1.53
85	AA	2145	G	C3'-C2'	-8.39	1.43	1.52
38	BE	50	G	C1'-N9	-8.39	1.35	1.46
85	AA	962	U	C2'-C1'	-8.39	1.44	1.53
85	AA	1215	A	N9-C4	-8.39	1.32	1.37
35	BB	505	G	C3'-C2'	-8.39	1.43	1.52
35	BB	584	A	C5-C4	-8.39	1.32	1.38
37	BD	50	A	O3'-P	-8.39	1.51	1.61
34	BA	887	U	C2'-C1'	-8.39	1.44	1.53
35	BB	5	A	C5-C6	-8.39	1.33	1.41
41	BH	106	G	C6-N1	-8.39	1.33	1.39
85	AA	2066	C	C2'-C1'	-8.39	1.44	1.53
39	BF	11	C	C4'-C3'	8.39	1.62	1.53
85	AA	2153	G	N9-C4	-8.39	1.31	1.38
85	AA	2184	A	N9-C4	-8.39	1.32	1.37
34	BA	819	G	C2'-C1'	-8.39	1.44	1.53
34	BA	909	G	C1'-N9	-8.39	1.35	1.46
34	BA	461	A	P-O5'	-8.38	1.51	1.59
35	BB	619	A	C3'-C2'	-8.38	1.43	1.52
35	BB	1346	A	P-O5'	-8.38	1.51	1.59
35	BB	1445	A	N7-C5	-8.38	1.34	1.39
36	BC	152	C	O3'-P	-8.38	1.51	1.61
40	BG	80	G	O3'-P	-8.39	1.51	1.61
40	BG	124	A	C2'-C1'	-8.39	1.44	1.53
38	BE	22	A	O3'-P	-8.38	1.51	1.61
85	AA	449	G	O3'-P	-8.38	1.51	1.61
85	AA	960	G	N9-C4	-8.38	1.31	1.38
85	AA	1471	G	C5-C4	-8.38	1.32	1.38
85	AA	2188	C	C2'-C1'	-8.38	1.44	1.53
34	BA	526	C	C2'-C1'	-8.38	1.44	1.53
34	BA	696	A	C5-C4	-8.38	1.32	1.38
85	AA	1571	A	N9-C4	-8.38	1.32	1.37
34	BA	414	A	C2'-C1'	-8.38	1.44	1.53
34	BA	1441	C	C2-N3	-8.38	1.29	1.35
35	BB	462	G	P-O5'	-8.38	1.51	1.59
34	BA	1614	G	C5-C4	-8.38	1.32	1.38
36	BC	10	C	C4'-C3'	-8.38	1.44	1.53
38	BE	190	U	P-O5'	-8.38	1.51	1.59
85	AA	2127	G	C5-C4	-8.38	1.32	1.38
34	BA	1073	G	N9-C8	-8.38	1.31	1.37
34	BA	1100	A	N9-C4	-8.38	1.32	1.37
34	BA	1835	A	C2'-C1'	-8.38	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	780	U	O3'-P	-8.38	1.51	1.61
35	BB	1233	U	C2'-C1'	-8.38	1.44	1.53
36	BC	78	G	C2'-C1'	-8.38	1.44	1.53
41	BH	2	U	P-O5'	-8.38	1.51	1.59
35	BB	449	C	C2'-C1'	-8.38	1.44	1.53
85	AA	1588	A	P-O5'	-8.38	1.51	1.59
34	BA	152	C	C5'-C4'	8.38	1.61	1.51
34	BA	241	U	O3'-P	-8.38	1.51	1.61
34	BA	1244	G	C2'-C1'	-8.38	1.44	1.53
35	BB	804	U	O3'-P	-8.37	1.51	1.61
35	BB	816	U	P-O5'	-8.38	1.51	1.59
35	BB	1388	A	P-O5'	-8.38	1.51	1.59
41	BH	127	A	O3'-P	-8.38	1.51	1.61
36	BC	144	C	C2'-C1'	-8.37	1.44	1.53
40	BG	129	G	C1'-N9	-8.37	1.35	1.46
85	AA	79	G	O3'-P	-8.37	1.51	1.61
85	AA	257	U	C2-N3	-8.37	1.31	1.37
34	BA	1433	U	C1'-N1	-8.37	1.35	1.46
35	BB	1155	U	P-O5'	-8.37	1.51	1.59
35	BB	1160	U	P-O5'	-8.37	1.51	1.59
34	BA	516	U	C3'-C2'	-8.37	1.43	1.52
34	BA	1563	G	N7-C5	-8.37	1.34	1.39
34	BA	1637	G	O3'-P	-8.37	1.51	1.61
37	BD	94	C	C4-C5	-8.37	1.36	1.43
35	BB	486	G	C3'-C2'	-8.37	1.43	1.52
85	AA	105	A	O3'-P	-8.37	1.51	1.61
85	AA	629	A	N9-C4	-8.37	1.32	1.37
85	AA	1483	A	C1'-N9	-8.37	1.35	1.46
40	BG	108	G	C2'-C1'	-8.37	1.44	1.53
41	BH	4	U	C3'-C2'	-8.37	1.43	1.52
85	AA	687	G	C2'-C1'	-8.37	1.44	1.53
35	BB	815	G	C1'-N9	-8.37	1.35	1.46
38	BE	98	C	C2'-C1'	-8.37	1.44	1.53
34	BA	906	A	O3'-P	-8.36	1.51	1.61
34	BA	1470	G	P-O5'	-8.36	1.51	1.59
34	BA	1744	C	C3'-C2'	-8.37	1.43	1.52
35	BB	1076	U	P-O5'	-8.37	1.51	1.59
40	BG	98	A	P-O5'	-8.37	1.51	1.59
85	AA	437	G	C2'-C1'	-8.37	1.44	1.53
40	BG	87	G	N7-C5	-8.36	1.34	1.39
34	BA	100	A	O3'-P	-8.36	1.51	1.61
34	BA	425	G	N3-C4	-8.36	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	520	G	C5-C6	-8.36	1.33	1.42
34	BA	736	G	N7-C5	-8.36	1.34	1.39
34	BA	1251	A	C1'-N9	-8.36	1.35	1.46
35	BB	1142	C	C1'-N1	-8.36	1.35	1.46
39	BF	32	G	C1'-N9	-8.36	1.35	1.46
85	AA	932	A	O3'-P	-8.36	1.51	1.61
85	AA	1279	A	N9-C4	-8.36	1.32	1.37
34	BA	62	A	P-O5'	-8.36	1.51	1.59
34	BA	589	A	O3'-P	-8.36	1.51	1.61
34	BA	962	U	C2-N3	-8.36	1.31	1.37
34	BA	1522	G	C6-N1	-8.36	1.33	1.39
40	BG	146	C	C3'-C2'	-8.36	1.43	1.52
36	BC	125	A	N7-C5	-8.36	1.34	1.39
38	BE	93	U	C2'-C1'	-8.36	1.44	1.53
85	AA	1551	G	O3'-P	-8.36	1.51	1.61
34	BA	572	G	C5'-C4'	8.36	1.61	1.51
34	BA	1044	A	C2'-C1'	-8.36	1.44	1.53
34	BA	1226	G	C5-C4	-8.36	1.32	1.38
35	BB	75	A	O3'-P	-8.36	1.51	1.61
35	BB	1080	U	C2-N3	-8.36	1.31	1.37
35	BB	1520	C	C2'-C1'	-8.36	1.44	1.53
35	BB	1369	A	N9-C4	-8.36	1.32	1.37
85	AA	1163	G	P-O5'	-8.36	1.51	1.59
34	BA	1172	C	C2-N3	-8.35	1.29	1.35
34	BA	1195	G	C2'-C1'	-8.35	1.44	1.53
35	BB	464	C	P-O5'	-8.35	1.51	1.59
35	BB	495	A	N9-C4	-8.35	1.32	1.37
34	BA	263	G	P-O5'	-8.35	1.51	1.59
34	BA	782	C	C1'-N1	-8.35	1.35	1.46
34	BA	1305	A	O3'-P	-8.35	1.51	1.61
40	BG	55	A	P-O5'	-8.35	1.51	1.59
34	BA	650	C	C2'-C1'	-8.35	1.44	1.53
34	BA	1007	G	C1'-N9	-8.35	1.35	1.46
35	BB	662	G	O3'-P	-8.35	1.51	1.61
35	BB	1266	A	P-O5'	-8.35	1.51	1.59
36	BC	9	G	O3'-P	-8.35	1.51	1.61
34	BA	899	G	N7-C5	-8.35	1.34	1.39
34	BA	994	G	N7-C5	-8.35	1.34	1.39
35	BB	479	U	C3'-C2'	-8.35	1.43	1.52
35	BB	779	C	C2-N3	-8.35	1.29	1.35
36	BC	147	G	C6-N1	-8.35	1.33	1.39
85	AA	2227	A	C5-C4	-8.35	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1166	A	C1'-N9	-8.34	1.35	1.46
35	BB	798	A	O3'-P	-8.34	1.51	1.61
35	BB	1082	A	P-O5'	-8.34	1.51	1.59
35	BB	1372	G	O3'-P	-8.34	1.51	1.61
35	BB	1530	U	P-O5'	-8.34	1.51	1.59
37	BD	112	U	C2-N3	-8.34	1.31	1.37
38	BE	23	G	C1'-N9	-8.34	1.35	1.46
34	BA	1410	C	O3'-P	-8.34	1.51	1.61
34	BA	1575	U	O3'-P	-8.34	1.51	1.61
39	BF	71	G	N9-C4	-8.34	1.31	1.38
85	AA	1504	A	C2'-C1'	-8.34	1.44	1.53
35	BB	1194	A	N9-C4	-8.34	1.32	1.37
35	BB	1521	G	P-O5'	-8.34	1.51	1.59
36	BC	56	G	O3'-P	-8.34	1.51	1.61
38	BE	104	G	C4'-C3'	8.34	1.62	1.53
85	AA	995	G	C5-C4	-8.34	1.32	1.38
85	AA	1000	U	C4'-C3'	-8.34	1.44	1.53
85	AA	1912	U	P-O5'	-8.34	1.51	1.59
34	BA	1719	G	N1-C2	-8.34	1.31	1.37
34	BA	57	A	O3'-P	-8.34	1.51	1.61
34	BA	306	G	C6-N1	-8.34	1.33	1.39
35	BB	643	G	C6-N1	-8.34	1.33	1.39
85	AA	1484	G	C2'-C1'	-8.34	1.44	1.53
85	AA	2122	A	N9-C8	-8.34	1.31	1.37
34	BA	991	U	C3'-C2'	-8.34	1.43	1.52
35	BB	829	C	P-O5'	-8.34	1.51	1.59
36	BC	121	G	O3'-P	-8.34	1.51	1.61
40	BG	87	G	C6-N1	-8.34	1.33	1.39
74	Bo	74	PRO	CA-C	-8.34	1.36	1.52
85	AA	340	G	O3'-P	-8.34	1.51	1.61
85	AA	588	G	P-O5'	-8.34	1.51	1.59
85	AA	2127	G	C1'-N9	-8.34	1.35	1.46
34	BA	463	A	O3'-P	-8.33	1.51	1.61
35	BB	666	A	C2'-C1'	-8.33	1.44	1.53
38	BE	198	A	N9-C4	-8.33	1.32	1.37
40	BG	132	U	C2-N3	-8.33	1.31	1.37
37	BD	64	A	N9-C4	-8.33	1.32	1.37
40	BG	110	U	C2'-C1'	-8.33	1.44	1.53
85	AA	1516	A	C2'-C1'	-8.33	1.44	1.53
85	AA	2007	G	C3'-C2'	-8.33	1.43	1.52
34	BA	34	U	C2-N3	-8.33	1.31	1.37
34	BA	427	G	C6-N1	-8.33	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	729	C	C3'-C2'	-8.33	1.43	1.52
35	BB	33	A	N7-C5	-8.33	1.34	1.39
35	BB	658	G	C6-N1	-8.33	1.33	1.39
85	AA	2038	C	O3'-P	-8.33	1.51	1.61
85	AA	2130	G	N9-C4	-8.33	1.31	1.38
85	AA	703	U	C2-N3	-8.33	1.31	1.37
34	BA	706	C	C3'-C2'	-8.33	1.43	1.52
35	BB	599	U	P-O5'	-8.33	1.51	1.59
41	BH	130	G	C5'-C4'	-8.33	1.41	1.51
40	BG	11	G	N7-C5	-8.33	1.34	1.39
41	BH	119	U	C1'-N1	-8.33	1.35	1.46
85	AA	519	A	C1'-N9	-8.33	1.35	1.46
85	AA	1288	A	O3'-P	-8.33	1.51	1.61
34	BA	761	U	O3'-P	-8.32	1.51	1.61
34	BA	999	G	C2'-C1'	-8.32	1.44	1.53
35	BB	30	A	C2'-C1'	-8.32	1.44	1.53
35	BB	81	A	O3'-P	-8.32	1.51	1.61
35	BB	506	G	C2'-C1'	-8.32	1.44	1.53
35	BB	647	U	C3'-C2'	-8.32	1.43	1.52
35	BB	797	C	C2'-C1'	-8.32	1.44	1.53
35	BB	1136	G	N9-C4	-8.32	1.31	1.38
35	BB	1182	A	C1'-N9	-8.32	1.35	1.46
35	BB	1188	A	N9-C4	-8.32	1.32	1.37
85	AA	1290	G	O3'-P	-8.32	1.51	1.61
85	AA	1292	A	C4'-C3'	-8.32	1.44	1.53
85	AA	2133	A	C2'-C1'	-8.32	1.44	1.53
34	BA	1413	G	C5-C4	-8.32	1.32	1.38
35	BB	377	A	O3'-P	-8.32	1.51	1.61
35	BB	964	G	P-O5'	-8.32	1.51	1.59
36	BC	113	G	O3'-P	-8.32	1.51	1.61
40	BG	55	A	C1'-N9	-8.32	1.35	1.46
40	BG	144	G	P-O5'	-8.32	1.51	1.59
85	AA	1194	U	C2'-C1'	-8.32	1.44	1.53
34	BA	661	C	C2'-C1'	-8.32	1.44	1.53
37	BD	62	A	N9-C4	-8.32	1.32	1.37
85	AA	2200	A	O3'-P	-8.32	1.51	1.61
85	AA	841	U	P-O5'	-8.32	1.51	1.59
34	BA	566	G	C2'-C1'	-8.32	1.44	1.53
34	BA	613	A	P-O5'	-8.32	1.51	1.59
35	BB	1045	G	N9-C8	-8.32	1.32	1.37
85	AA	65	A	C2'-C1'	-8.32	1.44	1.53
85	AA	1106	A	N9-C4	-8.32	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1546	G	P-O5'	-8.32	1.51	1.59
34	BA	696	A	C1'-N9	-8.31	1.35	1.46
34	BA	747	G	N7-C5	-8.31	1.34	1.39
34	BA	794	G	P-O5'	-8.31	1.51	1.59
35	BB	888	U	P-O5'	-8.31	1.51	1.59
85	AA	37	U	C2'-C1'	-8.31	1.44	1.53
34	BA	1322	A	C3'-C2'	-8.31	1.43	1.52
35	BB	1473	U	P-O5'	-8.31	1.51	1.59
41	BH	38	G	C5-C4	-8.31	1.32	1.38
85	AA	1004	G	P-O5'	-8.31	1.51	1.59
85	AA	1136	A	O3'-P	-8.31	1.51	1.61
34	BA	123	C	O3'-P	-8.31	1.51	1.61
34	BA	140	C	N3-C4	8.31	1.39	1.33
34	BA	966	G	C1'-N9	-8.31	1.35	1.46
35	BB	440	U	C2'-C1'	-8.31	1.44	1.53
85	AA	717	G	P-O5'	-8.31	1.51	1.59
40	BG	174	G	N7-C5	-8.31	1.34	1.39
85	AA	800	A	O3'-P	-8.31	1.51	1.61
85	AA	933	U	O3'-P	-8.31	1.51	1.61
85	AA	1204	A	C3'-C2'	-8.31	1.43	1.52
34	BA	1226	G	O3'-P	-8.31	1.51	1.61
35	BB	562	A	N9-C4	-8.31	1.32	1.37
35	BB	810	G	C1'-N9	-8.31	1.35	1.46
35	BB	1206	G	C6-N1	-8.31	1.33	1.39
34	BA	237	A	C1'-N9	-8.31	1.35	1.46
34	BA	1799	G	O3'-P	-8.31	1.51	1.61
35	BB	401	U	C3'-C2'	-8.31	1.43	1.52
35	BB	694	C	N3-C4	-8.31	1.28	1.33
38	BE	8	G	N7-C5	-8.31	1.34	1.39
85	AA	772	C	P-O5'	-8.31	1.51	1.59
34	BA	1258	G	C2'-C1'	-8.30	1.44	1.53
85	AA	823	C	C2'-C1'	-8.30	1.44	1.53
85	AA	1190	G	O3'-P	-8.30	1.51	1.61
36	BC	70	C	C2'-C1'	-8.30	1.44	1.53
34	BA	45	A	C2'-C1'	-8.30	1.44	1.53
34	BA	471	U	O3'-P	-8.30	1.51	1.61
34	BA	490	A	C1'-N9	-8.30	1.35	1.46
34	BA	623	U	C4'-C3'	-8.30	1.44	1.53
34	BA	878	G	C2'-C1'	-8.30	1.44	1.53
34	BA	922	C	C2'-C1'	-8.30	1.44	1.53
34	BA	1288	U	C2'-C1'	-8.30	1.44	1.53
35	BB	816	U	O3'-P	-8.30	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	376	C	P-O5'	-8.30	1.51	1.59
40	BG	43	U	C2'-C1'	-8.30	1.44	1.53
85	AA	456	A	C4'-C3'	-8.30	1.44	1.53
34	BA	401	A	C5'-C4'	-8.30	1.41	1.51
34	BA	418	G	C2-N2	-8.30	1.26	1.34
34	BA	915	A	C2'-C1'	-8.30	1.44	1.53
34	BA	1011	G	C2-N2	-8.30	1.26	1.34
34	BA	1086	A	C2'-C1'	-8.30	1.44	1.53
34	BA	1580	U	C4'-C3'	-8.30	1.44	1.53
40	BG	45	G	C2'-C1'	-8.30	1.44	1.53
38	BE	148	C	C2'-C1'	-8.30	1.44	1.53
40	BG	95	U	C4'-O4'	-8.30	1.34	1.45
85	AA	438	G	C1'-N9	-8.30	1.35	1.46
85	AA	1522	U	C2'-C1'	-8.30	1.44	1.53
85	AA	2172	A	C3'-C2'	-8.30	1.43	1.52
37	BD	60	C	C2'-C1'	-8.30	1.44	1.53
41	BH	31	A	N7-C5	-8.30	1.34	1.39
34	BA	193	C	C2-N3	-8.29	1.29	1.35
34	BA	1332	U	C2-N3	-8.29	1.31	1.37
35	BB	687	C	C2'-C1'	-8.29	1.44	1.53
35	BB	1509	G	P-O5'	-8.29	1.51	1.59
37	BD	52	U	P-O5'	-8.30	1.51	1.59
38	BE	144	A	N9-C4	-8.29	1.32	1.37
85	AA	1091	C	P-O5'	-8.29	1.51	1.59
85	AA	1229	G	O3'-P	-8.30	1.51	1.61
34	BA	1194	G	P-O5'	-8.29	1.51	1.59
34	BA	1323	G	C3'-C2'	-8.29	1.43	1.52
34	BA	1431	G	C2'-C1'	-8.29	1.44	1.53
85	AA	1261	U	C3'-C2'	-8.29	1.43	1.52
34	BA	1225	A	N9-C4	-8.29	1.32	1.37
35	BB	779	C	P-O5'	-8.29	1.51	1.59
41	BH	123	G	O3'-P	-8.29	1.51	1.61
85	AA	2209	U	C3'-C2'	-8.29	1.43	1.52
35	BB	1025	A	C4'-O4'	8.29	1.56	1.45
37	BD	105	G	C3'-C2'	-8.29	1.43	1.52
40	BG	46	G	N9-C4	-8.29	1.31	1.38
41	BH	51	C	C2-N3	-8.29	1.29	1.35
85	AA	1967	A	N9-C4	-8.29	1.32	1.37
85	AA	2072	G	C1'-N9	-8.29	1.35	1.46
85	AA	2215	C	C2'-C1'	-8.29	1.44	1.53
85	AA	2172	A	N7-C5	-8.29	1.34	1.39
34	BA	1003	A	C5-C4	-8.29	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1259	C	C3'-C2'	-8.29	1.43	1.52
35	BB	16	G	O3'-P	-8.29	1.51	1.61
35	BB	799	A	C6-N6	-8.29	1.27	1.33
35	BB	808	U	C3'-C2'	-8.29	1.43	1.52
35	BB	967	G	C2'-C1'	-8.29	1.44	1.53
36	BC	37	U	C3'-C2'	-8.29	1.43	1.52
36	BC	132	U	P-O5'	-8.29	1.51	1.59
37	BD	1	G	C2'-C1'	-8.29	1.44	1.53
85	AA	366	A	N7-C5	-8.28	1.34	1.39
34	BA	333	A	C8-N7	-8.28	1.25	1.31
34	BA	726	G	N1-C2	-8.28	1.31	1.37
34	BA	801	U	C2'-C1'	-8.28	1.44	1.53
35	BB	400	C	O3'-P	-8.28	1.51	1.61
85	AA	166	C	C2'-C1'	-8.28	1.44	1.53
38	BE	207	G	O3'-P	-8.28	1.51	1.61
34	BA	763	U	C3'-C2'	8.28	1.62	1.52
34	BA	1838	U	C2-N3	-8.28	1.31	1.37
35	BB	525	U	P-O5'	-8.28	1.51	1.59
35	BB	535	U	C2-N3	-8.28	1.31	1.37
35	BB	1406	C	C2'-C1'	-8.28	1.44	1.53
38	BE	5	A	N3-C4	-8.28	1.29	1.34
85	AA	1681	G	P-O5'	-8.28	1.51	1.59
85	AA	1964	A	P-O5'	-8.28	1.51	1.59
34	BA	399	G	O3'-P	-8.28	1.51	1.61
34	BA	794	G	C1'-N9	-8.28	1.35	1.46
34	BA	1291	A	O3'-P	-8.28	1.51	1.61
35	BB	26	C	O3'-P	-8.28	1.51	1.61
35	BB	430	A	C1'-N9	-8.28	1.35	1.46
35	BB	574	G	C1'-N9	-8.28	1.35	1.46
35	BB	879	G	O3'-P	-8.28	1.51	1.61
34	BA	98	A	C3'-C2'	-8.27	1.43	1.52
34	BA	1203	G	C2'-C1'	-8.27	1.44	1.53
34	BA	1224	A	C4'-C3'	-8.27	1.44	1.53
34	BA	1442	A	P-O5'	-8.27	1.51	1.59
34	BA	1555	G	N3-C4	-8.27	1.29	1.35
34	BA	1611	A	N7-C5	-8.27	1.34	1.39
34	BA	1641	G	C5-C4	-8.27	1.32	1.38
85	AA	699	U	C3'-C2'	-8.27	1.43	1.52
35	BB	610	U	C2-N3	-8.27	1.31	1.37
35	BB	647	U	P-O5'	-8.27	1.51	1.59
38	BE	101	C	C1'-N1	-8.27	1.35	1.46
38	BE	117	A	C5'-C4'	-8.27	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	141	A	P-O5'	-8.27	1.51	1.59
34	BA	50	G	N1-C2	-8.27	1.31	1.37
35	BB	817	C	O3'-P	-8.27	1.51	1.61
35	BB	1370	G	O3'-P	-8.27	1.51	1.61
38	BE	116	U	C4'-C3'	-8.27	1.44	1.53
85	AA	2222	G	C2'-C1'	-8.27	1.44	1.53
34	BA	334	G	C3'-C2'	-8.27	1.43	1.52
34	BA	1496	G	C1'-N9	-8.27	1.35	1.46
35	BB	490	G	N7-C5	-8.27	1.34	1.39
85	AA	82	A	O3'-P	-8.27	1.51	1.61
85	AA	582	A	O3'-P	-8.27	1.51	1.61
35	BB	461	U	P-O5'	-8.27	1.51	1.59
36	BC	152	C	P-O5'	-8.27	1.51	1.59
85	AA	1124	G	C2'-C1'	-8.27	1.44	1.53
85	AA	1724	A	P-O5'	-8.27	1.51	1.59
34	BA	54	A	O3'-P	-8.26	1.51	1.61
34	BA	142	A	P-O5'	-8.26	1.51	1.59
40	BG	68	U	P-O5'	-8.26	1.51	1.59
34	BA	385	U	O3'-P	-8.26	1.51	1.61
34	BA	960	C	C3'-C2'	-8.26	1.43	1.52
34	BA	1275	G	C3'-C2'	-8.26	1.43	1.52
34	BA	1702	G	C2'-C1'	-8.26	1.44	1.53
41	BH	39	G	C1'-N9	-8.26	1.35	1.46
35	BB	628	A	O3'-P	-8.26	1.51	1.61
40	BG	164	U	P-O5'	-8.26	1.51	1.59
85	AA	2130	G	N7-C5	-8.26	1.34	1.39
34	BA	936	A	O3'-P	-8.26	1.51	1.61
34	BA	1109	G	O3'-P	-8.26	1.51	1.61
34	BA	1506	C	C2'-C1'	-8.26	1.44	1.53
35	BB	868	C	O3'-P	-8.26	1.51	1.61
35	BB	1388	A	C3'-C2'	-8.26	1.43	1.52
85	AA	432	A	N9-C4	-8.26	1.32	1.37
85	AA	465	A	N9-C4	-8.26	1.32	1.37
34	BA	566	G	N9-C4	-8.26	1.31	1.38
34	BA	1027	C	C3'-C2'	-8.26	1.43	1.52
35	BB	465	C	C2'-C1'	-8.26	1.44	1.53
34	BA	1011	G	C1'-N9	-8.26	1.35	1.46
34	BA	1821	A	N9-C4	-8.26	1.32	1.37
35	BB	555	G	C3'-C2'	-8.26	1.43	1.52
35	BB	814	A	C3'-C2'	-8.26	1.43	1.52
35	BB	1267	C	O3'-P	-8.26	1.51	1.61
85	AA	403	G	C1'-N9	-8.26	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	704	A	O3'-P	-8.26	1.51	1.61
85	AA	877	G	O3'-P	-8.26	1.51	1.61
85	AA	1501	A	O3'-P	-8.26	1.51	1.61
85	AA	1111	A	N9-C4	-8.26	1.32	1.37
34	BA	67	A	O3'-P	-8.25	1.51	1.61
34	BA	209	A	C3'-C2'	-8.25	1.43	1.52
34	BA	253	U	P-O5'	-8.25	1.51	1.59
34	BA	626	G	C2'-C1'	-8.25	1.44	1.53
36	BC	30	U	P-O5'	-8.25	1.51	1.59
34	BA	1730	A	C2'-C1'	-8.25	1.44	1.53
35	BB	387	G	C6-N1	-8.25	1.33	1.39
85	AA	373	G	C6-N1	-8.25	1.33	1.39
85	AA	461	G	N7-C5	-8.25	1.34	1.39
85	AA	640	C	C2'-C1'	-8.25	1.44	1.53
85	AA	867	G	N9-C4	-8.25	1.31	1.38
85	AA	1532	G	P-O5'	-8.25	1.51	1.59
34	BA	398	G	C3'-C2'	-8.25	1.43	1.52
34	BA	588	C	P-O5'	-8.25	1.51	1.59
34	BA	708	C	C3'-C2'	-8.25	1.43	1.52
34	BA	406	G	C5-C4	-8.25	1.32	1.38
34	BA	955	G	N9-C4	-8.25	1.31	1.38
34	BA	1213	A	C5-C4	-8.25	1.32	1.38
35	BB	58	G	C5-C4	-8.25	1.32	1.38
35	BB	1142	C	C3'-C2'	-8.25	1.43	1.52
35	BB	570	A	P-O5'	-8.25	1.51	1.59
35	BB	1315	C	O3'-P	-8.25	1.51	1.61
35	BB	1387	C	P-O5'	-8.25	1.51	1.59
85	AA	1237	A	O3'-P	-8.25	1.51	1.61
85	AA	1610	G	P-O5'	-8.25	1.51	1.59
34	BA	19	G	C6-N1	-8.25	1.33	1.39
37	BD	104	C	C2'-C1'	-8.25	1.44	1.53
85	AA	1205	U	P-O5'	-8.25	1.51	1.59
34	BA	974	G	C2'-C1'	-8.25	1.44	1.53
34	BA	1233	U	P-O5'	-8.25	1.51	1.59
34	BA	1261	G	C6-N1	-8.25	1.33	1.39
34	BA	1525	G	C6-N1	-8.25	1.33	1.39
34	BA	1846	G	C2'-C1'	-8.25	1.44	1.53
35	BB	1050	A	O3'-P	-8.25	1.51	1.61
36	BC	65	G	C1'-N9	-8.25	1.35	1.46
36	BC	114	C	C2-N3	-8.25	1.29	1.35
40	BG	50	G	C2-N2	-8.25	1.26	1.34
85	AA	2233	A	N9-C4	-8.25	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	13	U	C2-N3	-8.24	1.31	1.37
35	BB	979	G	O3'-P	-8.24	1.51	1.61
85	AA	156	G	P-O5'	-8.24	1.51	1.59
34	BA	444	A	N9-C4	-8.24	1.32	1.37
34	BA	1459	U	O3'-P	-8.24	1.51	1.61
35	BB	975	G	N9-C8	-8.24	1.32	1.37
36	BC	51	A	N7-C5	-8.24	1.34	1.39
85	AA	1916	A	N3-C4	-8.24	1.29	1.34
35	BB	700	C	O3'-P	-8.24	1.51	1.61
85	AA	1505	G	P-O5'	-8.24	1.51	1.59
85	AA	2143	U	C2-N3	-8.24	1.31	1.37
34	BA	194	G	C2'-C1'	-8.24	1.44	1.53
34	BA	417	A	C1'-N9	-8.24	1.35	1.46
34	BA	529	A	N7-C5	-8.24	1.34	1.39
34	BA	892	C	C3'-C2'	-8.24	1.43	1.52
85	AA	544	A	O3'-P	-8.24	1.51	1.61
34	BA	754	G	O3'-P	-8.24	1.51	1.61
34	BA	1235	C	C2-N3	-8.24	1.29	1.35
34	BA	1654	G	C1'-N9	-8.24	1.35	1.46
34	BA	1720	U	O3'-P	-8.24	1.51	1.61
35	BB	539	G	O3'-P	-8.24	1.51	1.61
38	BE	142	A	C2'-C1'	-8.24	1.44	1.53
41	BH	2	U	O3'-P	-8.24	1.51	1.61
34	BA	80	U	P-O5'	-8.24	1.51	1.59
34	BA	1587	C	P-O5'	-8.24	1.51	1.59
36	BC	82	C	O3'-P	-8.24	1.51	1.61
85	AA	996	A	N9-C4	-8.24	1.32	1.37
37	BD	30	A	N9-C4	-8.24	1.32	1.37
40	BG	70	C	C2'-C1'	-8.24	1.44	1.53
85	AA	664	C	O3'-P	-8.24	1.51	1.61
85	AA	1286	C	C2-N3	-8.24	1.29	1.35
34	BA	1640	G	C3'-C2'	-8.23	1.43	1.52
36	BC	151	G	O3'-P	-8.23	1.51	1.61
85	AA	39	A	N9-C4	-8.23	1.32	1.37
85	AA	601	A	N9-C4	-8.23	1.32	1.37
85	AA	2187	G	O3'-P	-8.23	1.51	1.61
34	BA	12	G	O3'-P	-8.23	1.51	1.61
34	BA	789	U	O3'-P	-8.23	1.51	1.61
34	BA	924	U	N3-C4	-8.23	1.31	1.38
34	BA	940	C	O3'-P	-8.23	1.51	1.61
35	BB	1252	G	N7-C5	-8.23	1.34	1.39
34	BA	1049	G	N7-C5	-8.23	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1195	A	N7-C5	-8.23	1.34	1.39
35	BB	1258	G	N7-C5	-8.23	1.34	1.39
36	BC	151	G	N3-C4	-8.23	1.29	1.35
34	BA	1231	C	P-O5'	-8.23	1.51	1.59
34	BA	1591	G	O3'-P	-8.23	1.51	1.61
34	BA	1726	U	P-O5'	-8.23	1.51	1.59
35	BB	1312	U	C1'-N1	-8.23	1.35	1.46
36	BC	121	G	C2'-C1'	-8.23	1.44	1.53
34	BA	29	U	C2'-C1'	-8.23	1.44	1.53
34	BA	139	U	O3'-P	-8.23	1.51	1.61
34	BA	290	G	C1'-N9	-8.23	1.35	1.46
34	BA	890	G	N1-C2	-8.23	1.31	1.37
35	BB	1127	A	N7-C5	-8.23	1.34	1.39
35	BB	1311	G	C6-N1	-8.23	1.33	1.39
85	AA	420	C	O3'-P	-8.23	1.51	1.61
85	AA	584	G	C8-N7	-8.23	1.26	1.30
85	AA	616	A	C2'-C1'	-8.23	1.44	1.53
34	BA	807	U	C4'-O4'	-8.22	1.34	1.45
34	BA	1333	G	O3'-P	-8.22	1.51	1.61
34	BA	1465	C	C2'-C1'	-8.22	1.44	1.53
34	BA	1708	A	C5-C4	-8.22	1.32	1.38
35	BB	650	A	N9-C4	-8.22	1.32	1.37
35	BB	1185	G	P-O5'	-8.22	1.51	1.59
34	BA	1802	C	O3'-P	-8.22	1.51	1.61
37	BD	81	C	C2'-C1'	-8.22	1.44	1.53
85	AA	1449	C	P-O5'	-8.22	1.51	1.59
85	AA	1517	G	P-O5'	-8.22	1.51	1.59
34	BA	447	U	C3'-C2'	-8.22	1.43	1.52
34	BA	826	C	C2-N3	-8.22	1.29	1.35
34	BA	1607	U	O3'-P	-8.22	1.51	1.61
35	BB	94	A	N7-C5	-8.22	1.34	1.39
85	AA	157	G	N9-C4	-8.22	1.31	1.38
34	BA	1119	A	C3'-C2'	-8.22	1.43	1.52
34	BA	1684	A	C3'-C2'	-8.22	1.43	1.52
35	BB	353	G	N9-C4	-8.22	1.31	1.38
35	BB	1228	A	C5'-C4'	8.22	1.61	1.51
37	BD	99	G	N7-C5	-8.22	1.34	1.39
41	BH	29	G	C3'-C2'	-8.22	1.43	1.52
34	BA	267	G	C1'-N9	-8.22	1.35	1.46
34	BA	956	G	P-O5'	-8.22	1.51	1.59
35	BB	1404	A	N7-C5	-8.22	1.34	1.39
34	BA	322	U	C3'-C2'	-8.22	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	432	A	O3'-P	-8.22	1.51	1.61
34	BA	1532	G	N1-C2	-8.22	1.31	1.37
34	BA	1839	G	O3'-P	-8.22	1.51	1.61
35	BB	616	U	O3'-P	-8.22	1.51	1.61
37	BD	41	G	C1'-N9	-8.22	1.35	1.46
85	AA	962	U	C3'-C2'	-8.22	1.43	1.52
34	BA	1023	G	C2'-C1'	-8.22	1.44	1.53
34	BA	1474	G	N7-C5	-8.21	1.34	1.39
35	BB	398	A	C1'-N9	-8.22	1.35	1.46
35	BB	1342	C	C1'-N1	-8.22	1.35	1.46
35	BB	672	C	P-O5'	-8.21	1.51	1.59
35	BB	1278	A	O3'-P	-8.21	1.51	1.61
85	AA	195	C	P-O5'	-8.21	1.51	1.59
85	AA	491	G	C2'-C1'	-8.21	1.44	1.53
85	AA	820	G	N9-C4	8.21	1.44	1.38
85	AA	962	U	C2-N3	-8.21	1.31	1.37
85	AA	674	U	C2'-C1'	-8.21	1.44	1.53
34	BA	8	G	C1'-N9	-8.21	1.35	1.46
35	BB	370	A	O3'-P	-8.21	1.51	1.61
35	BB	612	A	C1'-N9	-8.21	1.35	1.46
38	BE	8	G	N9-C8	-8.21	1.32	1.37
38	BE	124	G	C2'-C1'	-8.21	1.44	1.53
40	BG	2	U	C3'-C2'	-8.21	1.43	1.52
40	BG	51	U	C2'-C1'	-8.21	1.44	1.53
40	BG	86	U	O3'-P	-8.21	1.51	1.61
40	BG	154	C	C2'-C1'	-8.21	1.44	1.53
85	AA	267	U	C1'-N1	8.21	1.61	1.48
85	AA	336	C	C3'-C2'	-8.21	1.43	1.52
85	AA	672	U	O3'-P	-8.21	1.51	1.61
85	AA	765	U	P-O5'	-8.21	1.51	1.59
34	BA	117	C	N1-C6	-8.21	1.32	1.37
34	BA	239	C	C3'-C2'	-8.21	1.43	1.52
34	BA	347	A	P-O5'	-8.21	1.51	1.59
34	BA	1465	C	C3'-C2'	-8.21	1.43	1.52
34	BA	1689	U	P-O5'	-8.21	1.51	1.59
35	BB	1046	C	O3'-P	-8.21	1.51	1.61
35	BB	1525	G	C2'-C1'	-8.21	1.44	1.53
36	BC	100	U	C2-N3	-8.21	1.32	1.37
85	AA	7	G	O3'-P	-8.21	1.51	1.61
85	AA	352	G	C6-N1	-8.21	1.33	1.39
85	AA	383	C	C2-N3	-8.21	1.29	1.35
85	AA	1729	C	O3'-P	-8.21	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2213	A	C3'-C2'	-8.21	1.43	1.52
34	BA	175	G	P-O5'	-8.20	1.51	1.59
34	BA	948	C	O3'-P	-8.21	1.51	1.61
35	BB	1431	G	C5-C4	-8.21	1.32	1.38
35	BB	1522	G	C3'-C2'	-8.21	1.43	1.52
36	BC	140	U	P-O5'	-8.21	1.51	1.59
85	AA	1992	A	N7-C5	-8.21	1.34	1.39
34	BA	1316	G	P-O5'	-8.20	1.51	1.59
35	BB	127	U	C3'-C2'	-8.20	1.43	1.52
35	BB	1176	G	O3'-P	-8.20	1.51	1.61
35	BB	1259	A	C2'-C1'	-8.20	1.44	1.53
34	BA	726	G	P-O5'	-8.20	1.51	1.59
34	BA	1223	C	C4'-C3'	-8.20	1.44	1.53
85	AA	978	U	P-O5'	-8.20	1.51	1.59
85	AA	1891	U	C2-N3	-8.20	1.32	1.37
34	BA	72	U	O3'-P	-8.20	1.51	1.61
34	BA	323	C	P-O5'	-8.20	1.51	1.59
35	BB	1260	A	C1'-N9	-8.20	1.35	1.46
34	BA	300	C	C2-N3	-8.20	1.29	1.35
34	BA	412	G	C2'-C1'	-8.20	1.44	1.53
34	BA	1597	G	N9-C8	-8.20	1.32	1.37
34	BA	1792	U	C3'-C2'	-8.20	1.43	1.52
38	BE	125	C	C3'-C2'	-8.20	1.43	1.52
40	BG	31	G	O3'-P	-8.20	1.51	1.61
85	AA	397	G	C3'-C2'	-8.20	1.43	1.52
34	BA	367	G	N7-C5	-8.20	1.34	1.39
85	AA	2004	U	O3'-P	-8.20	1.51	1.61
38	BE	111	C	C4'-C3'	-8.19	1.44	1.53
39	BF	61	A	C2'-C1'	-8.20	1.44	1.53
85	AA	2219	G	O3'-P	-8.19	1.51	1.61
34	BA	4	A	C1'-N9	-8.19	1.35	1.46
34	BA	68	A	C2'-C1'	-8.19	1.44	1.53
34	BA	1068	C	N3-C4	-8.19	1.28	1.33
34	BA	1663	U	P-O5'	-8.19	1.51	1.59
38	BE	139	U	C5'-C4'	-8.19	1.41	1.51
85	AA	478	U	O3'-P	-8.19	1.51	1.61
34	BA	282	A	N3-C4	-8.19	1.29	1.34
34	BA	1702	G	C3'-C2'	-8.19	1.43	1.52
35	BB	662	G	C5-C4	-8.19	1.32	1.38
35	BB	619	A	N9-C4	-8.19	1.32	1.37
34	BA	506	U	O3'-P	-8.19	1.51	1.61
34	BA	812	A	O3'-P	-8.19	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1492	G	C2-N2	-8.19	1.26	1.34
35	BB	53	C	C2'-C1'	-8.19	1.44	1.53
35	BB	392	G	O3'-P	-8.19	1.51	1.61
35	BB	423	G	O3'-P	-8.19	1.51	1.61
85	AA	996	A	O3'-P	-8.19	1.51	1.61
85	AA	1500	C	C2'-C1'	-8.19	1.44	1.53
34	BA	727	G	C6-N1	-8.19	1.33	1.39
35	BB	578	G	O3'-P	-8.19	1.51	1.61
36	BC	38	U	C2'-C1'	-8.19	1.44	1.53
85	AA	413	G	C6-N1	-8.19	1.33	1.39
85	AA	1889	U	P-O5'	-8.19	1.51	1.59
34	BA	701	G	O3'-P	-8.19	1.51	1.61
34	BA	1687	A	C1'-N9	-8.19	1.35	1.46
35	BB	687	C	C1'-N1	-8.19	1.35	1.46
35	BB	1082	A	C2'-C1'	-8.19	1.44	1.53
34	BA	395	G	C2-N2	-8.18	1.26	1.34
34	BA	1823	A	P-O5'	-8.18	1.51	1.59
37	BD	73	U	N1-C2	-8.18	1.31	1.38
35	BB	1143	A	O3'-P	-8.18	1.51	1.61
39	BF	52	A	P-O5'	-8.18	1.51	1.59
40	BG	173	C	C2'-C1'	-8.18	1.44	1.53
85	AA	424	A	N7-C5	-8.18	1.34	1.39
85	AA	199	U	O3'-P	-8.18	1.51	1.61
85	AA	373	G	N9-C4	-8.18	1.31	1.38
85	AA	629	A	C2'-C1'	-8.18	1.44	1.53
85	AA	910	G	C2-N2	-8.18	1.26	1.34
85	AA	1835	U	C2-N3	-8.18	1.32	1.37
34	BA	1022	C	C2'-C1'	-8.18	1.44	1.53
34	BA	1640	G	C1'-N9	-8.18	1.35	1.46
35	BB	459	U	C3'-C2'	-8.18	1.43	1.52
85	AA	887	A	C5-C4	-8.18	1.33	1.38
85	AA	1491	G	P-O5'	-8.18	1.51	1.59
34	BA	420	A	C3'-C2'	-8.18	1.43	1.52
34	BA	696	A	C3'-C2'	-8.18	1.43	1.52
34	BA	1017	C	C2-N3	-8.18	1.29	1.35
34	BA	1495	A	C4'-C3'	-8.18	1.44	1.53
34	BA	1732	A	C8-N7	-8.18	1.25	1.31
35	BB	28	G	N7-C5	-8.18	1.34	1.39
35	BB	501	G	C1'-N9	-8.18	1.35	1.46
38	BE	96	G	C3'-C2'	-8.18	1.43	1.52
85	AA	376	C	C3'-C2'	-8.18	1.43	1.52
85	AA	386	G	N7-C5	-8.18	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	680	U	O3'-P	-8.18	1.51	1.61
34	BA	732	A	C5-C4	-8.18	1.33	1.38
35	BB	428	G	C2-N2	-8.18	1.26	1.34
38	BE	140	G	C6-N1	-8.18	1.33	1.39
85	AA	1484	G	P-O5'	-8.18	1.51	1.59
35	BB	1238	A	O3'-P	-8.18	1.51	1.61
40	BG	17	A	O3'-P	-8.18	1.51	1.61
40	BG	103	C	C2-N3	-8.18	1.29	1.35
35	BB	125	G	N7-C5	-8.17	1.34	1.39
34	BA	439	A	N9-C4	-8.17	1.32	1.37
35	BB	1128	U	O3'-P	-8.17	1.51	1.61
37	BD	80	G	C3'-C2'	-8.17	1.43	1.52
39	BF	72	A	O3'-P	-8.17	1.51	1.61
41	BH	15	A	N9-C4	-8.17	1.32	1.37
85	AA	1098	C	C4'-C3'	-8.17	1.44	1.53
34	BA	1427	U	O3'-P	-8.17	1.51	1.61
34	BA	1637	G	N7-C5	-8.17	1.34	1.39
85	AA	419	A	N7-C5	-8.17	1.34	1.39
85	AA	2183	U	C3'-C2'	-8.17	1.43	1.52
40	BG	172	C	O3'-P	-8.17	1.51	1.61
34	BA	810	A	C1'-N9	-8.17	1.35	1.46
34	BA	956	G	N7-C5	-8.17	1.34	1.39
35	BB	1096	G	C2'-C1'	-8.17	1.44	1.53
35	BB	1243	A	C1'-N9	-8.17	1.35	1.46
85	AA	313	A	C5-C4	-8.17	1.33	1.38
85	AA	1114	A	N3-C4	-8.17	1.29	1.34
85	AA	1120	G	C2'-C1'	-8.17	1.44	1.53
34	BA	195	G	O3'-P	-8.16	1.51	1.61
34	BA	1110	A	C1'-N9	-8.16	1.35	1.46
85	AA	1199	C	P-O5'	-8.16	1.51	1.59
85	AA	2196	G	C6-N1	-8.16	1.33	1.39
34	BA	215	C	C2'-C1'	-8.16	1.44	1.53
34	BA	920	U	C2-N3	-8.16	1.32	1.37
35	BB	1467	A	C5'-C4'	8.16	1.61	1.51
36	BC	123	G	N3-C4	-8.16	1.29	1.35
85	AA	138	C	C2'-C1'	-8.16	1.44	1.53
85	AA	2072	G	C2-N2	-8.16	1.26	1.34
34	BA	99	G	O3'-P	-8.16	1.51	1.61
34	BA	362	G	C1'-N9	-8.16	1.35	1.46
34	BA	575	U	C2'-C1'	-8.16	1.44	1.53
34	BA	575	U	P-O5'	-8.16	1.51	1.59
35	BB	813	C	C2'-C1'	-8.16	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1361	A	C2'-C1'	-8.16	1.44	1.53
40	BG	31	G	P-O5'	-8.16	1.51	1.59
35	BB	1391	G	O3'-P	-8.16	1.51	1.61
37	BD	41	G	O3'-P	-8.16	1.51	1.61
85	AA	340	G	C3'-C2'	-8.16	1.43	1.52
85	AA	476	C	C3'-C2'	-8.16	1.43	1.52
34	BA	281	C	O3'-P	-8.16	1.51	1.61
34	BA	711	C	C2-N3	-8.16	1.29	1.35
34	BA	1040	G	O3'-P	-8.16	1.51	1.61
35	BB	17	U	O3'-P	-8.16	1.51	1.61
34	BA	1603	A	C2'-C1'	-8.16	1.44	1.53
35	BB	1258	G	C2'-C1'	-8.16	1.44	1.53
38	BE	179	A	O3'-P	-8.16	1.51	1.61
85	AA	457	G	C1'-N9	-8.16	1.35	1.46
34	BA	1002	U	O3'-P	-8.15	1.51	1.61
35	BB	102	G	C2'-C1'	-8.15	1.44	1.53
35	BB	506	G	C1'-N9	-8.15	1.35	1.46
35	BB	563	A	C2'-C1'	-8.15	1.44	1.53
41	BH	16	A	C3'-C2'	-8.15	1.43	1.52
85	AA	1153	G	C8-N7	-8.15	1.26	1.30
34	BA	115	U	C2-N3	-8.15	1.32	1.37
34	BA	1563	G	C2-N2	-8.15	1.26	1.34
35	BB	792	G	N9-C4	-8.15	1.31	1.38
85	AA	1655	G	O3'-P	-8.15	1.51	1.61
34	BA	746	C	P-O5'	-8.15	1.51	1.59
34	BA	1694	C	C3'-C2'	-8.15	1.43	1.52
38	BE	52	U	P-O5'	-8.15	1.51	1.59
41	BH	6	U	C3'-C2'	-8.15	1.43	1.52
34	BA	112	C	O3'-P	-8.15	1.51	1.61
34	BA	944	G	C3'-C2'	-8.15	1.43	1.52
35	BB	502	C	C2-N3	-8.15	1.29	1.35
35	BB	648	G	N7-C5	-8.15	1.34	1.39
35	BB	976	U	P-O5'	-8.15	1.51	1.59
36	BC	11	G	O3'-P	-8.15	1.51	1.61
36	BC	44	A	C1'-N9	-8.15	1.35	1.46
36	BC	141	C	C2'-C1'	-8.15	1.44	1.53
38	BE	50	G	O3'-P	-8.15	1.51	1.61
85	AA	190	A	C1'-N9	-8.15	1.35	1.46
85	AA	207	G	P-O5'	-8.15	1.51	1.59
85	AA	591	A	P-O5'	-8.15	1.51	1.59
85	AA	2219	G	P-O5'	-8.15	1.51	1.59
34	BA	697	A	N7-C5	-8.15	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1034	U	C3'-C2'	-8.15	1.43	1.52
35	BB	33	A	C1'-N9	-8.15	1.35	1.46
35	BB	1049	G	C6-N1	-8.15	1.33	1.39
35	BB	1398	A	C1'-N9	-8.15	1.35	1.46
40	BG	155	A	N9-C4	-8.15	1.32	1.37
85	AA	367	A	N3-C4	-8.15	1.29	1.34
41	BH	46	C	C3'-C2'	-8.15	1.43	1.52
85	AA	474	C	C2-N3	-8.15	1.29	1.35
85	AA	1130	G	C6-N1	-8.15	1.33	1.39
85	AA	1272	G	N7-C5	-8.15	1.34	1.39
85	AA	1421	U	O3'-P	-8.15	1.51	1.61
34	BA	1194	G	C2-N3	-8.14	1.26	1.32
35	BB	123	U	P-O5'	-8.14	1.51	1.59
85	AA	86	G	N9-C4	-8.14	1.31	1.38
85	AA	107	A	O3'-P	-8.14	1.51	1.61
85	AA	2171	A	C2'-C1'	-8.14	1.44	1.53
34	BA	1026	C	C3'-C2'	-8.14	1.43	1.52
35	BB	25	A	N9-C4	-8.14	1.32	1.37
34	BA	1693	U	P-O5'	-8.14	1.51	1.59
35	BB	54	U	C4'-C3'	-8.14	1.44	1.53
38	BE	8	G	C2'-C1'	-8.14	1.44	1.53
40	BG	24	A	C3'-O3'	-8.14	1.30	1.42
40	BG	59	G	O3'-P	-8.14	1.51	1.61
85	AA	152	A	C8-N7	-8.14	1.25	1.31
85	AA	469	G	N7-C5	8.14	1.44	1.39
34	BA	327	G	P-O5'	-8.14	1.51	1.59
35	BB	652	G	C2'-C1'	-8.14	1.44	1.53
34	BA	1101	A	C2'-C1'	-8.14	1.44	1.53
34	BA	1298	U	P-O5'	-8.14	1.51	1.59
38	BE	38	C	O3'-P	-8.14	1.51	1.61
85	AA	172	A	C1'-N9	-8.14	1.35	1.46
85	AA	457	G	P-O5'	-8.14	1.51	1.59
34	BA	79	C	C3'-C2'	-8.13	1.43	1.52
34	BA	273	G	C1'-N9	-8.13	1.35	1.46
34	BA	1240	G	O3'-P	-8.13	1.51	1.61
35	BB	677	U	C2-N3	-8.13	1.32	1.37
35	BB	1306	G	N1-C2	-8.13	1.31	1.37
35	BB	1313	C	O3'-P	-8.13	1.51	1.61
37	BD	74	A	C5-C4	-8.13	1.33	1.38
38	BE	93	U	O3'-P	-8.14	1.51	1.61
85	AA	16	G	C3'-C2'	-8.13	1.43	1.52
85	AA	101	C	P-O5'	-8.13	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	794	A	O3'-P	-8.13	1.51	1.61
85	AA	1631	C	P-O5'	-8.13	1.51	1.59
34	BA	259	C	O3'-P	-8.13	1.51	1.61
34	BA	1072	U	C2-N3	-8.13	1.32	1.37
34	BA	1490	U	C4'-C3'	8.13	1.62	1.53
35	BB	375	G	C4'-C3'	-8.13	1.44	1.53
34	BA	203	U	C2-N3	-8.13	1.32	1.37
34	BA	395	G	C4'-C3'	-8.13	1.44	1.53
34	BA	910	U	C3'-C2'	-8.13	1.43	1.52
34	BA	1543	A	O3'-P	-8.13	1.51	1.61
35	BB	416	U	P-O5'	-8.13	1.51	1.59
35	BB	633	C	C2-N3	-8.13	1.29	1.35
35	BB	1098	G	O3'-P	-8.13	1.51	1.61
35	BB	1170	U	C2-N3	-8.13	1.32	1.37
36	BC	40	A	C2'-C1'	-8.13	1.44	1.53
35	BB	1042	U	C5'-C4'	8.13	1.61	1.51
35	BB	1141	A	O3'-P	-8.13	1.51	1.61
37	BD	11	A	N9-C4	-8.13	1.32	1.37
85	AA	1235	G	N3-C4	-8.13	1.29	1.35
85	AA	1275	A	C1'-N9	-8.13	1.35	1.46
34	BA	97	A	N9-C4	-8.13	1.32	1.37
34	BA	291	C	C3'-C2'	-8.13	1.43	1.52
35	BB	96	A	P-O5'	-8.13	1.51	1.59
36	BC	76	C	C2'-C1'	-8.13	1.44	1.53
35	BB	1387	C	C3'-C2'	-8.13	1.43	1.52
85	AA	975	G	N9-C4	8.13	1.44	1.38
34	BA	786	U	P-O5'	-8.13	1.51	1.59
34	BA	1154	U	C2-N3	-8.13	1.32	1.37
35	BB	786	A	O3'-P	-8.13	1.51	1.61
35	BB	95	A	N9-C4	-8.12	1.32	1.37
35	BB	126	C	P-O5'	-8.12	1.51	1.59
35	BB	1185	G	C5-C4	-8.12	1.32	1.38
37	BD	47	U	C2-N3	-8.12	1.32	1.37
37	BD	79	G	O3'-P	-8.12	1.51	1.61
85	AA	100	A	O4'-C1'	-8.12	1.31	1.41
85	AA	543	A	C2'-C1'	-8.12	1.44	1.53
85	AA	1195	U	P-O5'	-8.12	1.51	1.59
34	BA	95	C	C2'-C1'	-8.12	1.44	1.53
34	BA	928	C	P-O5'	-8.12	1.51	1.59
34	BA	1837	U	C2-N3	-8.12	1.32	1.37
35	BB	1519	U	P-O5'	-8.12	1.51	1.59
36	BC	50	C	P-O5'	-8.12	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	147	G	C5-C4	-8.12	1.32	1.38
85	AA	36	U	P-O5'	-8.12	1.51	1.59
85	AA	399	A	P-O5'	-8.12	1.51	1.59
85	AA	461	G	P-O5'	-8.12	1.51	1.59
85	AA	556	C	C2'-C1'	-8.12	1.44	1.53
85	AA	689	U	O3'-P	-8.12	1.51	1.61
34	BA	1165	A	C5-C4	-8.12	1.33	1.38
35	BB	375	G	C2'-C1'	-8.12	1.44	1.53
35	BB	420	U	P-O5'	-8.12	1.51	1.59
35	BB	1288	G	C2'-C1'	-8.12	1.44	1.53
40	BG	130	G	O3'-P	-8.12	1.51	1.61
85	AA	473	C	C3'-C2'	-8.12	1.43	1.52
85	AA	1799	C	P-O5'	-8.12	1.51	1.59
34	BA	292	C	O3'-P	-8.12	1.51	1.61
34	BA	870	C	N3-C4	8.12	1.39	1.33
34	BA	1618	A	C2'-C1'	-8.12	1.44	1.53
35	BB	1079	G	C1'-N9	-8.12	1.35	1.46
35	BB	1443	C	O3'-P	-8.12	1.51	1.61
37	BD	32	A	C1'-N9	-8.12	1.35	1.46
38	BE	41	C	C2'-C1'	-8.12	1.44	1.53
39	BF	5	U	C2-N3	-8.12	1.32	1.37
85	AA	993	G	O3'-P	-8.12	1.51	1.61
86	AB	73	A	N9-C4	-8.12	1.32	1.37
85	AA	1660	U	C3'-C2'	-8.12	1.43	1.52
85	AA	1681	G	O3'-P	-8.12	1.51	1.61
34	BA	1647	G	C2'-C1'	-8.12	1.44	1.53
34	BA	344	G	C2'-C1'	-8.11	1.44	1.53
34	BA	855	C	O3'-P	-8.11	1.51	1.61
34	BA	897	U	C4'-C3'	-8.11	1.44	1.53
38	BE	21	C	C2'-C1'	-8.11	1.44	1.53
38	BE	180	G	C2-N3	-8.12	1.26	1.32
85	AA	1109	G	O3'-P	-8.12	1.51	1.61
85	AA	1861	A	O3'-P	-8.12	1.51	1.61
34	BA	101	G	C6-N1	-8.11	1.33	1.39
34	BA	1125	G	P-O5'	-8.11	1.51	1.59
36	BC	66	G	N9-C4	-8.11	1.31	1.38
85	AA	889	G	C2-N3	-8.11	1.26	1.32
85	AA	2146	G	O3'-P	-8.11	1.51	1.61
35	BB	1139	A	C2'-C1'	-8.11	1.44	1.53
34	BA	262	A	N7-C5	-8.11	1.34	1.39
34	BA	293	A	C2'-C1'	-8.11	1.44	1.53
34	BA	467	A	N9-C4	-8.11	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	506	U	C3'-C2'	-8.11	1.43	1.52
34	BA	1103	G	C1'-N9	-8.11	1.35	1.46
85	AA	489	C	C2'-C1'	-8.11	1.44	1.53
34	BA	1594	G	O3'-P	-8.11	1.51	1.61
34	BA	1814	U	C2'-C1'	-8.11	1.44	1.53
35	BB	1291	G	C6-N1	-8.11	1.33	1.39
85	AA	1970	A	C2'-C1'	-8.11	1.44	1.53
34	BA	19	G	C2'-C1'	-8.11	1.44	1.53
34	BA	313	C	C2'-C1'	-8.11	1.44	1.53
34	BA	1030	C	C2-N3	-8.11	1.29	1.35
34	BA	1437	G	O3'-P	-8.11	1.51	1.61
35	BB	114	A	N9-C4	-8.11	1.32	1.37
34	BA	1743	U	P-O5'	-8.11	1.51	1.59
35	BB	563	A	N9-C4	-8.11	1.32	1.37
35	BB	1149	A	O3'-P	-8.11	1.51	1.61
36	BC	151	G	C2-N2	-8.11	1.26	1.34
85	AA	2221	A	N9-C4	-8.11	1.32	1.37
35	BB	598	C	C3'-C2'	-8.11	1.43	1.52
85	AA	1259	U	C4'-C3'	-8.11	1.44	1.53
85	AA	2174	G	C8-N7	-8.11	1.26	1.30
34	BA	239	C	C2'-C1'	-8.10	1.44	1.53
34	BA	1235	C	O3'-P	-8.10	1.51	1.61
34	BA	1502	G	C1'-N9	-8.10	1.35	1.46
35	BB	1003	G	C2'-C1'	-8.10	1.44	1.53
35	BB	1166	A	C1'-N9	-8.10	1.35	1.46
34	BA	431	A	C3'-C2'	-8.10	1.43	1.52
34	BA	454	G	O3'-P	-8.10	1.51	1.61
34	BA	1708	A	C2'-C1'	-8.10	1.44	1.53
35	BB	1045	G	N7-C5	-8.10	1.34	1.39
35	BB	1063	C	O4'-C1'	-8.10	1.31	1.41
85	AA	7	G	C3'-C2'	-8.10	1.43	1.52
85	AA	1470	A	C5-C4	-8.10	1.33	1.38
85	AA	53	G	O3'-P	-8.10	1.51	1.61
85	AA	693	A	N7-C5	-8.10	1.34	1.39
85	AA	1211	C	C4'-C3'	-8.10	1.44	1.53
85	AA	1478	G	O3'-P	-8.10	1.51	1.61
85	AA	1539	A	C1'-N9	-8.10	1.35	1.46
34	BA	320	G	O3'-P	-8.10	1.51	1.61
34	BA	608	G	C4'-O4'	-8.10	1.35	1.45
34	BA	734	G	C5-C4	-8.10	1.32	1.38
39	BF	12	U	O3'-P	-8.10	1.51	1.61
34	BA	1024	A	P-O5'	-8.10	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1102	A	O3'-P	-8.10	1.51	1.61
34	BA	1466	U	C2'-C1'	-8.10	1.44	1.53
85	AA	1450	U	C2-N3	-8.10	1.32	1.37
35	BB	120	C	C2-N3	-8.10	1.29	1.35
35	BB	590	G	N1-C2	-8.10	1.31	1.37
35	BB	669	A	O3'-P	-8.10	1.51	1.61
85	AA	2122	A	O3'-P	-8.10	1.51	1.61
34	BA	313	C	O3'-P	-8.10	1.51	1.61
34	BA	772	G	N7-C5	-8.10	1.34	1.39
34	BA	909	G	C3'-C2'	-8.10	1.43	1.52
34	BA	1143	U	C3'-C2'	-8.10	1.43	1.52
35	BB	1325	C	P-O5'	-8.10	1.51	1.59
85	AA	1475	A	N9-C4	-8.10	1.32	1.37
34	BA	286	C	C2'-C1'	-8.09	1.44	1.53
34	BA	296	G	N7-C5	-8.09	1.34	1.39
34	BA	967	C	C3'-C2'	-8.09	1.43	1.52
34	BA	1840	C	P-O5'	-8.09	1.51	1.59
34	BA	1845	G	C2-N2	-8.09	1.26	1.34
35	BB	459	U	C2'-C1'	-8.09	1.44	1.53
41	BH	129	G	C2-N3	-8.09	1.26	1.32
85	AA	1486	G	N3-C4	-8.09	1.29	1.35
85	AA	35	U	P-O5'	-8.09	1.51	1.59
35	BB	692	G	C6-N1	-8.09	1.33	1.39
35	BB	986	C	N1-C6	-8.09	1.32	1.37
34	BA	38	G	O3'-P	-8.09	1.51	1.61
34	BA	617	G	O3'-P	-8.09	1.51	1.61
34	BA	1559	C	P-O5'	-8.09	1.51	1.59
35	BB	125	G	O3'-P	-8.09	1.51	1.61
36	BC	41	A	C1'-N9	-8.09	1.35	1.46
37	BD	46	G	O3'-P	-8.09	1.51	1.61
38	BE	141	A	N9-C4	-8.09	1.32	1.37
35	BB	556	U	O3'-P	-8.09	1.51	1.61
85	AA	392	G	O3'-P	-8.09	1.51	1.61
85	AA	2175	U	C2-N3	-8.09	1.32	1.37
34	BA	899	G	N9-C4	-8.09	1.31	1.38
34	BA	1303	U	P-O5'	-8.09	1.51	1.59
35	BB	1168	G	O3'-P	-8.09	1.51	1.61
35	BB	1284	U	O3'-P	-8.09	1.51	1.61
37	BD	79	G	C5-C4	-8.09	1.32	1.38
34	BA	424	U	C2'-C1'	-8.09	1.44	1.53
34	BA	861	C	N1-C6	-8.09	1.32	1.37
34	BA	905	A	C2'-C1'	-8.09	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1249	G	O3'-P	-8.09	1.51	1.61
35	BB	472	C	P-O5'	-8.09	1.51	1.59
35	BB	127	U	C1'-N1	-8.09	1.35	1.46
35	BB	365	U	O3'-P	-8.09	1.51	1.61
37	BD	25	G	N9-C4	-8.09	1.31	1.38
85	AA	1288	A	C2'-C1'	-8.09	1.44	1.53
41	BH	41	A	N9-C8	-8.09	1.31	1.37
35	BB	456	A	C1'-N9	-8.08	1.35	1.46
85	AA	254	G	P-O5'	-8.08	1.51	1.59
85	AA	869	A	N7-C5	-8.08	1.34	1.39
34	BA	449	G	C5-C4	-8.08	1.32	1.38
34	BA	875	G	C2'-C1'	-8.08	1.44	1.53
34	BA	944	G	N9-C4	-8.08	1.31	1.38
34	BA	1294	C	C2-N3	-8.08	1.29	1.35
34	BA	1563	G	N1-C2	-8.08	1.31	1.37
35	BB	136	A	N7-C5	-8.08	1.34	1.39
35	BB	1458	U	N1-C2	-8.08	1.31	1.38
37	BD	110	G	C2'-C1'	-8.08	1.44	1.53
38	BE	201	A	C2'-C1'	-8.08	1.44	1.53
41	BH	45	G	C1'-N9	-8.08	1.35	1.46
85	AA	354	C	C2'-C1'	-8.08	1.44	1.53
85	AA	473	C	C2'-C1'	-8.08	1.44	1.53
85	AA	650	G	P-O5'	-8.08	1.51	1.59
34	BA	301	U	C2-N3	-8.08	1.32	1.37
34	BA	1250	C	C1'-N1	-8.08	1.35	1.46
35	BB	457	U	O3'-P	-8.08	1.51	1.61
34	BA	538	G	N1-C2	-8.08	1.31	1.37
34	BA	1022	C	C3'-C2'	-8.08	1.43	1.52
34	BA	1165	A	C1'-N9	-8.08	1.35	1.46
35	BB	702	G	C1'-N9	-8.08	1.35	1.46
35	BB	1489	A	P-O5'	-8.08	1.51	1.59
34	BA	122	U	O3'-P	-8.07	1.51	1.61
85	AA	644	A	C1'-N9	-8.07	1.35	1.46
34	BA	493	G	O3'-P	-8.07	1.51	1.61
34	BA	1613	G	C8-N7	-8.07	1.26	1.30
35	BB	1150	A	O3'-P	-8.07	1.51	1.61
38	BE	32	U	O4'-C1'	-8.07	1.31	1.41
85	AA	119	G	C5-C4	-8.07	1.32	1.38
34	BA	104	A	C5-C4	-8.07	1.33	1.38
34	BA	1527	G	C6-N1	-8.07	1.33	1.39
34	BA	1638	U	C2-N3	-8.07	1.32	1.37
35	BB	651	G	C8-N7	-8.07	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1120	A	P-O5'	-8.07	1.51	1.59
36	BC	12	A	O3'-P	-8.07	1.51	1.61
36	BC	19	A	N3-C4	-8.07	1.30	1.34
85	AA	902	A	C4'-C3'	-8.07	1.44	1.53
34	BA	926	A	O3'-P	-8.07	1.51	1.61
85	AA	190	A	O3'-P	-8.07	1.51	1.61
85	AA	390	U	P-O5'	-8.07	1.51	1.59
85	AA	1532	G	O3'-P	-8.07	1.51	1.61
85	AA	450	A	O3'-P	-8.07	1.51	1.61
35	BB	1103	A	C4'-O4'	-8.07	1.35	1.45
34	BA	353	U	C2-N3	-8.07	1.32	1.37
35	BB	794	G	N9-C4	-8.07	1.31	1.38
85	AA	106	G	C6-N1	-8.07	1.33	1.39
85	AA	925	G	N1-C2	-8.07	1.31	1.37
85	AA	1242	A	N7-C5	-8.07	1.34	1.39
34	BA	195	G	C2'-C1'	-8.06	1.44	1.53
35	BB	1094	A	C5-C4	-8.06	1.33	1.38
85	AA	462	A	N9-C4	-8.06	1.33	1.37
85	AA	535	G	C2-N2	-8.06	1.26	1.34
34	BA	52	G	C5-C4	-8.06	1.32	1.38
34	BA	494	A	C3'-C2'	-8.06	1.43	1.52
34	BA	710	A	C2'-C1'	-8.06	1.44	1.53
34	BA	1288	U	C1'-N1	-8.06	1.35	1.46
34	BA	1695	G	C6-N1	-8.06	1.33	1.39
37	BD	20	C	P-O5'	-8.06	1.51	1.59
85	AA	113	U	C3'-C2'	-8.06	1.43	1.52
85	AA	553	G	P-O5'	-8.06	1.51	1.59
85	AA	718	C	C2'-C1'	-8.06	1.44	1.53
85	AA	1894	G	C5-C4	-8.06	1.32	1.38
34	BA	387	A	N7-C5	-8.06	1.34	1.39
34	BA	498	A	C1'-N9	-8.06	1.35	1.46
34	BA	911	G	N1-C2	-8.06	1.31	1.37
34	BA	929	A	N7-C5	-8.06	1.34	1.39
35	BB	1183	U	C2-N3	-8.06	1.32	1.37
85	AA	125	A	O3'-P	-8.06	1.51	1.61
34	BA	871	G	N3-C4	8.06	1.41	1.35
34	BA	1482	A	C1'-N9	-8.06	1.35	1.46
35	BB	93	A	N7-C5	-8.06	1.34	1.39
35	BB	1049	G	N1-C2	-8.06	1.31	1.37
85	AA	1554	C	C2'-C1'	-8.06	1.44	1.53
85	AA	2072	G	C6-N1	-8.06	1.33	1.39
34	BA	53	G	C3'-C2'	-8.05	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	401	A	C6-N1	-8.05	1.29	1.35
34	BA	875	G	C5-C4	-8.05	1.32	1.38
36	BC	47	C	P-O5'	-8.06	1.51	1.59
34	BA	670	U	C4'-C3'	-8.05	1.44	1.53
34	BA	1108	U	C2-N3	-8.05	1.32	1.37
34	BA	1294	C	C2'-C1'	-8.05	1.44	1.53
34	BA	1337	A	O3'-P	-8.05	1.51	1.61
35	BB	1386	C	O3'-P	-8.05	1.51	1.61
85	AA	290	G	C2'-C1'	-8.05	1.44	1.53
34	BA	1001	G	C5-C4	-8.05	1.32	1.38
34	BA	1070	G	N7-C5	-8.05	1.34	1.39
34	BA	1026	C	O3'-P	-8.05	1.51	1.61
34	BA	1508	C	C2-N3	-8.05	1.29	1.35
35	BB	418	G	C1'-N9	-8.05	1.35	1.46
85	AA	925	G	C3'-C2'	-8.05	1.43	1.52
35	BB	823	G	N9-C4	8.05	1.44	1.38
35	BB	990	G	P-O5'	-8.05	1.51	1.59
39	BF	37	C	P-O5'	-8.05	1.51	1.59
85	AA	177	A	N9-C4	-8.05	1.33	1.37
40	BG	34	A	P-O5'	-8.05	1.51	1.59
85	AA	194	U	C2-N3	-8.05	1.32	1.37
85	AA	400	G	P-O5'	-8.05	1.51	1.59
85	AA	1105	G	P-O5'	-8.05	1.51	1.59
34	BA	876	C	C3'-C2'	-8.05	1.43	1.52
34	BA	888	G	C2'-C1'	-8.05	1.44	1.53
34	BA	1411	C	C2'-C1'	-8.05	1.44	1.53
34	BA	1522	G	C2'-C1'	-8.05	1.44	1.53
34	BA	1703	A	N9-C4	-8.05	1.33	1.37
34	BA	1717	C	O3'-P	-8.05	1.51	1.61
35	BB	560	C	C2'-C1'	-8.05	1.44	1.53
85	AA	1732	G	P-O5'	-8.05	1.51	1.59
85	AA	1974	C	C4-C5	-8.05	1.36	1.43
34	BA	196	A	C1'-N9	-8.05	1.35	1.46
34	BA	214	A	C2'-C1'	-8.04	1.44	1.53
34	BA	531	C	P-O5'	-8.04	1.51	1.59
35	BB	1098	G	C1'-N9	-8.05	1.35	1.46
36	BC	87	C	O3'-P	-8.05	1.51	1.61
85	AA	1233	G	N7-C5	-8.05	1.34	1.39
35	BB	1149	A	P-O5'	-8.04	1.51	1.59
36	BC	48	A	O3'-P	-8.04	1.51	1.61
37	BD	68	C	O3'-P	-8.04	1.51	1.61
85	AA	1244	A	O3'-P	-8.04	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	418	G	P-O5'	-8.04	1.51	1.59
34	BA	420	A	C1'-N9	-8.04	1.35	1.46
34	BA	459	U	O3'-P	-8.04	1.51	1.61
34	BA	1673	G	O3'-P	-8.04	1.51	1.61
35	BB	1138	A	C1'-N9	-8.04	1.35	1.46
40	BG	174	G	C2-N2	-8.04	1.26	1.34
85	AA	394	C	P-O5'	-8.04	1.51	1.59
85	AA	1119	A	N9-C4	-8.04	1.33	1.37
35	BB	1545	U	C2'-C1'	-8.04	1.44	1.53
37	BD	3	G	C4'-C3'	-8.04	1.44	1.53
38	BE	97	G	O3'-P	-8.04	1.51	1.61
40	BG	25	G	C3'-C2'	-8.04	1.44	1.52
85	AA	92	G	O3'-P	-8.04	1.51	1.61
35	BB	522	A	C2'-C1'	-8.04	1.44	1.53
36	BC	11	G	C6-N1	-8.04	1.33	1.39
37	BD	69	U	C3'-C2'	-8.04	1.44	1.52
39	BF	70	A	N9-C4	-8.04	1.33	1.37
85	AA	794	A	N7-C5	-8.04	1.34	1.39
85	AA	2177	C	P-O5'	-8.04	1.51	1.59
34	BA	413	A	C3'-C2'	-8.04	1.44	1.52
35	BB	1296	A	O3'-P	-8.04	1.51	1.61
41	BH	39	G	O3'-P	-8.04	1.51	1.61
85	AA	1134	G	C1'-N9	-8.04	1.35	1.46
35	BB	1070	G	N7-C5	-8.04	1.34	1.39
34	BA	702	G	C2'-C1'	-8.03	1.44	1.53
34	BA	1158	A	C3'-C2'	-8.04	1.44	1.52
35	BB	1268	C	C2'-C1'	-8.04	1.44	1.53
85	AA	178	U	C2-N3	-8.04	1.32	1.37
85	AA	612	A	O3'-P	-8.03	1.51	1.61
85	AA	1196	C	O3'-P	-8.04	1.51	1.61
34	BA	2	A	N9-C4	-8.03	1.33	1.37
34	BA	146	G	N9-C4	-8.03	1.31	1.38
35	BB	1076	U	C3'-C2'	-8.03	1.44	1.52
34	BA	1281	U	C2'-C1'	-8.03	1.44	1.53
34	BA	1528	U	C2-N3	-8.03	1.32	1.37
35	BB	1310	C	C2'-C1'	-8.03	1.44	1.53
36	BC	168	C	C2-N3	-8.03	1.29	1.35
38	BE	61	A	O3'-P	-8.03	1.51	1.61
38	BE	177	U	N3-C4	-8.03	1.31	1.38
38	BE	204	U	C3'-C2'	-8.03	1.44	1.52
85	AA	470	C	C1'-N1	-8.03	1.35	1.46
85	AA	469	G	C6-N1	-8.03	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	291	C	C2'-C1'	-8.03	1.44	1.53
34	BA	1511	C	P-O5'	-8.03	1.51	1.59
35	BB	557	C	C2-N3	-8.03	1.29	1.35
35	BB	1102	U	C2-N3	-8.03	1.32	1.37
34	BA	1016	A	C3'-C2'	-8.03	1.44	1.52
35	BB	434	A	C1'-N9	-8.03	1.35	1.46
35	BB	563	A	P-O5'	-8.03	1.51	1.59
35	BB	1298	C	O3'-P	-8.03	1.51	1.61
38	BE	96	G	N9-C4	-8.03	1.31	1.38
38	BE	189	A	C2'-C1'	-8.03	1.44	1.53
41	BH	34	G	N7-C5	-8.03	1.34	1.39
34	BA	15	G	C3'-C2'	-8.03	1.44	1.52
34	BA	44	U	O3'-P	-8.03	1.51	1.61
34	BA	233	U	C2-N3	-8.03	1.32	1.37
35	BB	69	A	O3'-P	-8.03	1.51	1.61
85	AA	167	A	O3'-P	-8.03	1.51	1.61
34	BA	531	C	C3'-O3'	-8.03	1.30	1.42
34	BA	799	A	N7-C5	-8.03	1.34	1.39
34	BA	1047	U	O3'-P	-8.03	1.51	1.61
35	BB	115	A	N9-C4	-8.03	1.33	1.37
40	BG	74	G	C2-N2	-8.03	1.26	1.34
85	AA	2188	C	C3'-C2'	-8.03	1.44	1.52
34	BA	933	U	C2-N3	-8.02	1.32	1.37
34	BA	1614	G	P-O5'	-8.02	1.51	1.59
35	BB	438	G	P-O5'	-8.02	1.51	1.59
35	BB	607	G	N9-C4	-8.02	1.31	1.38
36	BC	27	U	O3'-P	-8.02	1.51	1.61
85	AA	1185	G	C5'-C4'	8.02	1.60	1.51
85	AA	2095	U	O3'-P	-8.02	1.51	1.61
34	BA	454	G	P-O5'	-8.02	1.51	1.59
35	BB	425	G	N9-C4	-8.02	1.31	1.38
34	BA	1653	G	O3'-P	-8.02	1.51	1.61
35	BB	572	G	C1'-N9	-8.02	1.35	1.46
38	BE	39	U	C2'-C1'	-8.02	1.44	1.53
38	BE	158	U	C2'-C1'	-8.02	1.44	1.53
39	BF	57	C	P-O5'	-8.02	1.51	1.59
41	BH	24	U	C2-N3	-8.02	1.32	1.37
85	AA	1284	A	C4'-C3'	-8.02	1.44	1.53
34	BA	690	G	C1'-N9	-8.02	1.35	1.46
34	BA	1091	U	O3'-P	-8.02	1.51	1.61
35	BB	620	G	C1'-N9	-8.02	1.35	1.46
85	AA	120	C	C3'-C2'	-8.02	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1817	U	O3'-P	-8.02	1.51	1.61
34	BA	1491	U	C5'-C4'	8.02	1.60	1.51
35	BB	515	C	O3'-P	-8.02	1.51	1.61
36	BC	160	C	P-O5'	-8.02	1.51	1.59
85	AA	543	A	P-O5'	-8.02	1.51	1.59
85	AA	1925	A	N9-C4	-8.02	1.33	1.37
34	BA	325	A	N9-C4	-8.01	1.33	1.37
35	BB	1052	G	C3'-C2'	-8.01	1.44	1.52
34	BA	753	G	C2'-C1'	-8.01	1.44	1.53
34	BA	1103	G	C5-C4	-8.01	1.32	1.38
34	BA	1165	A	O3'-P	-8.01	1.51	1.61
35	BB	131	A	C3'-C2'	-8.01	1.44	1.52
35	BB	425	G	O3'-P	-8.01	1.51	1.61
35	BB	1115	G	N1-C2	-8.01	1.31	1.37
85	AA	34	G	C2'-C1'	-8.01	1.44	1.53
34	BA	611	A	P-O5'	-8.01	1.51	1.59
34	BA	1167	A	C2'-C1'	-8.01	1.44	1.53
34	BA	1406	U	C2'-C1'	-8.01	1.44	1.53
35	BB	85	A	C1'-N9	-8.01	1.35	1.46
36	BC	24	G	C3'-C2'	-8.01	1.44	1.52
35	BB	787	A	O3'-P	-8.01	1.51	1.61
85	AA	2181	G	N9-C4	-8.01	1.31	1.38
36	BC	53	A	N9-C4	-8.01	1.33	1.37
34	BA	895	U	C2'-C1'	-8.01	1.44	1.53
34	BA	1057	C	P-O5'	-8.01	1.51	1.59
34	BA	1426	A	N9-C4	-8.01	1.33	1.37
34	BA	1691	G	N9-C4	-8.01	1.31	1.38
34	BA	1809	G	C4'-C3'	8.01	1.61	1.53
34	BA	1815	G	C6-N1	-8.01	1.33	1.39
35	BB	1041	A	N7-C5	-8.01	1.34	1.39
39	BF	49	C	C3'-C2'	-8.01	1.44	1.52
85	AA	820	G	P-O5'	-8.01	1.51	1.59
85	AA	2138	G	C6-N1	-8.01	1.33	1.39
34	BA	625	U	O3'-P	-8.00	1.51	1.61
85	AA	1847	U	P-O5'	-8.00	1.51	1.59
34	BA	893	U	C2-N3	-8.00	1.32	1.37
34	BA	1313	U	O3'-P	-8.00	1.51	1.61
40	BG	26	G	C3'-C2'	-8.00	1.44	1.52
85	AA	418	G	C5-C4	-8.00	1.32	1.38
85	AA	1167	G	P-O5'	-8.00	1.51	1.59
85	AA	2238	C	C3'-C2'	-8.00	1.44	1.52
34	BA	1845	G	N7-C5	-8.00	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	BF	10	A	C3'-O3'	8.00	1.53	1.42
40	BG	31	G	C2-N2	-8.00	1.26	1.34
34	BA	423	G	C2'-C1'	-8.00	1.44	1.53
34	BA	690	G	O3'-P	-8.00	1.51	1.61
34	BA	919	A	C5-C4	-8.00	1.33	1.38
34	BA	1070	G	C2'-C1'	-8.00	1.44	1.53
34	BA	1172	C	C3'-C2'	-8.00	1.44	1.52
35	BB	1416	A	C5'-C4'	8.00	1.60	1.51
85	AA	52	U	C2'-C1'	-8.00	1.44	1.53
85	AA	1731	G	N3-C4	-8.00	1.29	1.35
85	AA	1810	C	O3'-P	-8.00	1.51	1.61
34	BA	20	A	O3'-P	-8.00	1.51	1.61
34	BA	58	A	O3'-P	-8.00	1.51	1.61
34	BA	1518	A	C8-N7	-8.00	1.25	1.31
34	BA	1661	U	P-O5'	-8.00	1.51	1.59
35	BB	129	U	C2-N3	-8.00	1.32	1.37
37	BD	95	G	C2-N2	-8.00	1.26	1.34
85	AA	1860	A	N9-C4	-8.00	1.33	1.37
40	BG	50	G	O3'-P	-8.00	1.51	1.61
85	AA	396	U	C3'-C2'	-8.00	1.44	1.52
85	AA	431	G	O3'-P	-8.00	1.51	1.61
34	BA	599	U	C2-N3	-7.99	1.32	1.37
34	BA	1226	G	P-O5'	-7.99	1.51	1.59
35	BB	575	C	P-O5'	-7.99	1.51	1.59
35	BB	617	C	C2'-C1'	-7.99	1.44	1.53
35	BB	628	A	C2'-C1'	-7.99	1.44	1.53
35	BB	1457	A	C4'-C3'	-7.99	1.44	1.53
36	BC	42	G	N9-C8	-7.99	1.32	1.37
85	AA	597	A	P-O5'	-7.99	1.51	1.59
85	AA	1916	A	N7-C5	-7.99	1.34	1.39
85	AA	1928	A	C4'-O4'	-7.99	1.35	1.45
36	BC	106	G	N7-C5	-7.99	1.34	1.39
85	AA	54	C	C2-N3	-7.99	1.29	1.35
34	BA	788	C	C4'-C3'	-7.99	1.44	1.53
34	BA	889	U	C2-N3	-7.99	1.32	1.37
34	BA	1080	U	C4'-C3'	7.99	1.61	1.53
34	BA	1814	U	C3'-C2'	-7.99	1.44	1.52
35	BB	89	C	P-O5'	-7.99	1.51	1.59
35	BB	828	G	P-O5'	-7.99	1.51	1.59
36	BC	78	G	P-O5'	-7.99	1.51	1.59
85	AA	48	G	N1-C2	-7.99	1.31	1.37
85	AA	373	G	C1'-N9	-7.99	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1962	U	P-O5'	-7.99	1.51	1.59
86	AB	68	C	O3'-P	-7.99	1.51	1.61
34	BA	1170	A	C2'-C1'	-7.99	1.44	1.53
34	BA	1720	U	C2'-C1'	-7.99	1.44	1.53
35	BB	597	C	C2-N3	-7.99	1.29	1.35
35	BB	1046	C	C2'-C1'	-7.99	1.44	1.53
35	BB	1262	A	C5-C4	-7.99	1.33	1.38
40	BG	109	C	C3'-C2'	-7.99	1.44	1.52
40	BG	139	U	C2'-C1'	-7.99	1.44	1.53
40	BG	163	G	C5-C6	-7.99	1.34	1.42
86	AB	67	C	O3'-P	-7.99	1.51	1.61
34	BA	1666	U	C2-N3	-7.99	1.32	1.37
40	BG	26	G	N9-C4	-7.99	1.31	1.38
41	BH	13	C	O3'-P	-7.99	1.51	1.61
85	AA	895	C	O3'-P	-7.99	1.51	1.61
34	BA	961	C	C4-C5	-7.99	1.36	1.43
34	BA	1065	U	P-O5'	-7.99	1.51	1.59
34	BA	1300	G	C2-N2	-7.99	1.26	1.34
35	BB	72	G	N1-C2	-7.99	1.31	1.37
35	BB	129	U	C3'-C2'	-7.99	1.44	1.52
85	AA	378	A	C2'-C1'	-7.99	1.44	1.53
85	AA	1144	G	P-O5'	-7.99	1.51	1.59
85	AA	1484	G	C4'-C3'	-7.99	1.44	1.53
85	AA	1711	C	C2'-C1'	-7.99	1.44	1.53
34	BA	251	U	O3'-P	-7.98	1.51	1.61
34	BA	258	C	P-O5'	-7.98	1.51	1.59
35	BB	1543	C	C2'-C1'	-7.98	1.44	1.53
85	AA	531	G	C6-N1	-7.98	1.33	1.39
34	BA	566	G	N7-C5	-7.98	1.34	1.39
34	BA	582	U	N3-C4	-7.98	1.31	1.38
34	BA	744	G	N7-C5	-7.98	1.34	1.39
35	BB	679	G	O3'-P	-7.98	1.51	1.61
35	BB	689	C	C3'-C2'	-7.98	1.44	1.52
85	AA	790	A	N9-C4	-7.98	1.33	1.37
85	AA	1197	U	O3'-P	-7.98	1.51	1.61
34	BA	1115	A	C3'-C2'	-7.98	1.44	1.52
35	BB	1037	A	C2'-C1'	-7.98	1.44	1.53
35	BB	1078	U	P-O5'	-7.98	1.51	1.59
35	BB	1163	U	C2-N3	-7.98	1.32	1.37
36	BC	117	A	N7-C5	-7.98	1.34	1.39
37	BD	27	A	O3'-P	-7.98	1.51	1.61
37	BD	71	G	P-O5'	-7.98	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2201	A	C2'-C1'	-7.98	1.44	1.53
35	BB	1254	G	P-O5'	-7.98	1.51	1.59
35	BB	1482	A	C2'-C1'	-7.98	1.44	1.53
35	BB	1484	A	C8-N7	-7.98	1.25	1.31
37	BD	8	A	N9-C4	-7.98	1.33	1.37
85	AA	455	G	C4'-C3'	-7.98	1.44	1.53
85	AA	483	G	O3'-P	-7.98	1.51	1.61
85	AA	547	A	O3'-P	-7.98	1.51	1.61
34	BA	690	G	O4'-C1'	-7.98	1.31	1.41
34	BA	1137	U	P-O5'	-7.98	1.51	1.59
35	BB	667	G	N9-C4	-7.98	1.31	1.38
35	BB	1200	A	C2'-C1'	-7.98	1.44	1.53
35	BB	1441	C	C1'-N1	-7.98	1.35	1.46
37	BD	10	C	P-O5'	-7.98	1.51	1.59
85	AA	628	C	O3'-P	-7.98	1.51	1.61
34	BA	1718	C	C2'-C1'	-7.97	1.44	1.53
35	BB	427	U	O3'-P	-7.97	1.51	1.61
35	BB	509	A	O3'-P	-7.97	1.51	1.61
35	BB	544	C	N1-C6	-7.97	1.32	1.37
35	BB	659	C	P-O5'	-7.97	1.51	1.59
35	BB	1290	C	C2-N3	-7.97	1.29	1.35
35	BB	1314	G	C5'-C4'	-7.97	1.41	1.51
36	BC	31	A	N9-C8	-7.97	1.31	1.37
36	BC	49	G	C2-N2	-7.97	1.26	1.34
85	AA	491	G	O3'-P	-7.97	1.51	1.61
85	AA	767	A	C1'-N9	-7.97	1.35	1.46
85	AA	1947	A	P-O5'	-7.97	1.51	1.59
85	AA	2060	G	N9-C4	-7.97	1.31	1.38
34	BA	513	U	C3'-C2'	-7.97	1.44	1.52
34	BA	1171	C	O3'-P	-7.97	1.51	1.61
34	BA	1450	G	O3'-P	-7.97	1.51	1.61
34	BA	1594	G	C3'-C2'	-7.97	1.44	1.52
35	BB	22	A	C6-N1	-7.97	1.29	1.35
38	BE	148	C	C4'-C3'	-7.97	1.44	1.53
85	AA	1525	C	C2-N3	-7.97	1.29	1.35
85	AA	1890	C	P-O5'	-7.97	1.51	1.59
85	AA	2029	G	O3'-P	-7.97	1.51	1.61
34	BA	71	G	P-O5'	-7.97	1.51	1.59
34	BA	1469	G	C5-C6	-7.97	1.34	1.42
36	BC	36	G	C2'-C1'	-7.97	1.44	1.53
34	BA	224	G	C2-N2	-7.97	1.26	1.34
35	BB	1398	A	N7-C5	-7.97	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1445	A	C1'-N9	-7.97	1.35	1.46
36	BC	113	G	C5-C6	-7.97	1.34	1.42
85	AA	16	G	N9-C8	-7.97	1.32	1.37
85	AA	382	G	O4'-C1'	-7.97	1.31	1.41
35	BB	1235	A	C2'-C1'	-7.97	1.44	1.53
85	AA	619	A	O3'-P	-7.97	1.51	1.61
34	BA	676	G	N7-C5	-7.97	1.34	1.39
34	BA	1300	G	N9-C4	-7.97	1.31	1.38
35	BB	1325	C	O3'-P	-7.97	1.51	1.61
40	BG	33	G	N7-C5	-7.97	1.34	1.39
40	BG	122	G	C5-C4	-7.97	1.32	1.38
85	AA	186	U	O3'-P	-7.97	1.51	1.61
85	AA	1148	G	P-O5'	-7.97	1.51	1.59
86	AB	66	U	C2'-C1'	-7.97	1.44	1.53
34	BA	713	C	C4'-C3'	-7.96	1.44	1.53
41	BH	36	C	C2'-C1'	-7.96	1.44	1.53
85	AA	361	U	C2'-C1'	-7.96	1.44	1.53
85	AA	2115	G	P-O5'	-7.96	1.51	1.59
34	BA	1252	G	C2-N2	-7.96	1.26	1.34
35	BB	1001	G	N9-C4	7.96	1.44	1.38
37	BD	48	G	C5-C4	-7.96	1.32	1.38
40	BG	154	C	O3'-P	-7.96	1.51	1.61
36	BC	145	G	N7-C5	-7.96	1.34	1.39
85	AA	2057	G	P-O5'	-7.96	1.51	1.59
85	AA	2170	G	O3'-P	-7.96	1.51	1.61
34	BA	320	G	N9-C8	-7.96	1.32	1.37
34	BA	1441	C	C2'-C1'	-7.96	1.44	1.53
34	BA	727	G	O3'-P	-7.96	1.51	1.61
35	BB	452	A	O4'-C1'	-7.96	1.31	1.41
38	BE	9	C	C2-N3	-7.96	1.29	1.35
85	AA	24	U	O3'-P	-7.96	1.51	1.61
85	AA	2100	A	C1'-N9	-7.96	1.35	1.46
34	BA	293	A	C4'-C3'	-7.96	1.44	1.53
34	BA	429	G	N7-C5	-7.96	1.34	1.39
34	BA	656	U	O3'-P	-7.96	1.51	1.61
34	BA	841	G	N7-C5	-7.96	1.34	1.39
34	BA	1290	A	N3-C4	-7.96	1.30	1.34
34	BA	1613	G	C6-N1	-7.96	1.33	1.39
35	BB	387	G	N9-C4	-7.96	1.31	1.38
35	BB	1291	G	N1-C2	-7.96	1.31	1.37
35	BB	1401	G	N3-C4	-7.96	1.29	1.35
34	BA	177	G	C1'-N9	-7.96	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1744	C	C2'-C1'	-7.96	1.44	1.53
35	BB	1019	C	C1'-N1	-7.96	1.35	1.46
35	BB	1143	A	C4'-C3'	-7.96	1.44	1.53
36	BC	62	A	N3-C4	-7.96	1.30	1.34
34	BA	1008	A	P-O5'	-7.95	1.51	1.59
35	BB	85	A	C2'-C1'	-7.95	1.44	1.53
35	BB	1035	C	P-O5'	-7.95	1.51	1.59
35	BB	1097	U	C3'-C2'	-7.95	1.44	1.52
35	BB	1254	G	C4'-C3'	-7.95	1.44	1.53
35	BB	1428	C	P-O5'	-7.95	1.51	1.59
36	BC	51	A	O3'-P	-7.95	1.51	1.61
39	BF	26	U	O3'-P	-7.95	1.51	1.61
40	BG	80	G	C3'-C2'	-7.95	1.44	1.52
85	AA	129	U	P-O5'	-7.95	1.51	1.59
85	AA	513	G	O3'-P	-7.95	1.51	1.61
34	BA	236	A	C1'-N9	-7.95	1.35	1.46
34	BA	1240	G	C5-C6	-7.95	1.34	1.42
34	BA	1640	G	C2'-C1'	-7.95	1.44	1.53
35	BB	543	G	P-O5'	-7.95	1.51	1.59
35	BB	1088	C	O3'-P	-7.95	1.51	1.61
35	BB	1144	A	N9-C4	-7.95	1.33	1.37
36	BC	106	G	P-O5'	-7.95	1.51	1.59
39	BF	32	G	C2'-C1'	-7.95	1.44	1.53
41	BH	43	G	C2'-C1'	-7.95	1.44	1.53
85	AA	679	A	O3'-P	-7.95	1.51	1.61
85	AA	741	G	C2'-C1'	-7.95	1.44	1.53
34	BA	147	U	C2'-C1'	-7.95	1.44	1.53
34	BA	269	G	N7-C5	-7.95	1.34	1.39
34	BA	533	U	C2'-C1'	-7.95	1.44	1.53
35	BB	1395	G	O3'-P	-7.95	1.51	1.61
36	BC	102	G	C2'-C1'	-7.95	1.44	1.53
85	AA	1558	U	C2-N3	-7.95	1.32	1.37
34	BA	465	A	C2'-C1'	-7.95	1.44	1.53
34	BA	845	U	O3'-P	-7.95	1.51	1.61
35	BB	57	G	C1'-N9	-7.95	1.35	1.46
35	BB	1222	A	C3'-C2'	-7.95	1.44	1.52
37	BD	36	C	C1'-N1	-7.95	1.35	1.46
85	AA	119	G	C3'-C2'	-7.95	1.44	1.52
85	AA	1723	U	P-O5'	-7.95	1.51	1.59
35	BB	806	U	O3'-P	-7.95	1.51	1.61
40	BG	123	C	C3'-C2'	-7.95	1.44	1.52
85	AA	372	U	P-O5'	-7.95	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	445	U	O3'-P	-7.95	1.51	1.61
85	AA	1125	G	N9-C4	-7.95	1.31	1.38
85	AA	1487	G	C2-N2	-7.95	1.26	1.34
34	BA	894	G	N7-C5	-7.94	1.34	1.39
38	BE	89	G	C6-N1	-7.94	1.33	1.39
34	BA	1071	G	C2'-C1'	-7.94	1.44	1.53
34	BA	1192	A	C3'-C2'	-7.94	1.44	1.52
40	BG	70	C	C1'-N1	-7.94	1.35	1.46
34	BA	30	A	C5-C4	-7.94	1.33	1.38
34	BA	123	C	N1-C2	-7.94	1.32	1.40
35	BB	1196	A	C3'-C2'	-7.94	1.44	1.52
36	BC	99	U	O3'-P	-7.94	1.51	1.61
40	BG	39	A	C3'-C2'	-7.94	1.44	1.52
41	BH	2	U	C2'-C1'	-7.94	1.44	1.53
85	AA	389	A	C1'-N9	-7.94	1.35	1.46
85	AA	410	A	N7-C5	-7.94	1.34	1.39
34	BA	580	U	C4'-C3'	-7.94	1.44	1.53
34	BA	1214	U	C4'-C3'	-7.94	1.44	1.53
85	AA	930	G	P-O5'	-7.94	1.51	1.59
85	AA	1528	A	N9-C4	-7.94	1.33	1.37
85	AA	2124	G	C2'-C1'	-7.94	1.44	1.53
35	BB	1258	G	P-O5'	-7.94	1.51	1.59
35	BB	497	C	O3'-P	-7.94	1.51	1.61
38	BE	132	U	C2-N3	-7.94	1.32	1.37
85	AA	1471	G	C3'-C2'	-7.94	1.44	1.52
34	BA	610	A	O3'-P	-7.93	1.51	1.61
34	BA	1405	A	O3'-P	-7.93	1.51	1.61
34	BA	1711	G	N1-C2	-7.93	1.31	1.37
35	BB	133	G	O3'-P	-7.93	1.51	1.61
35	BB	584	A	O3'-P	-7.93	1.51	1.61
38	BE	180	G	N3-C4	-7.93	1.29	1.35
85	AA	532	G	P-O5'	-7.93	1.51	1.59
34	BA	386	A	N3-C4	-7.93	1.30	1.34
34	BA	1214	U	O3'-P	-7.93	1.51	1.61
34	BA	1543	A	C1'-N9	-7.93	1.35	1.46
34	BA	1567	G	N9-C8	-7.93	1.32	1.37
34	BA	1719	G	C2'-C1'	-7.93	1.44	1.53
36	BC	135	A	O3'-P	-7.93	1.51	1.61
39	BF	15	U	P-O5'	-7.93	1.51	1.59
40	BG	19	C	C2'-C1'	-7.93	1.44	1.53
85	AA	245	A	C2'-C1'	-7.93	1.44	1.53
85	AA	494	G	P-O5'	-7.93	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1622	G	P-O5'	-7.93	1.51	1.59
85	AA	2240	G	C2'-C1'	-7.93	1.44	1.53
34	BA	1795	A	C2'-C1'	-7.93	1.44	1.53
85	AA	683	U	C2'-C1'	-7.93	1.44	1.53
35	BB	1259	A	C5-C4	-7.93	1.33	1.38
85	AA	409	C	O3'-P	-7.93	1.51	1.61
85	AA	462	A	C2'-C1'	-7.93	1.44	1.53
85	AA	1259	U	O3'-P	-7.93	1.51	1.61
35	BB	631	G	P-O5'	-7.93	1.51	1.59
40	BG	72	G	N1-C2	-7.93	1.31	1.37
85	AA	534	A	C3'-C2'	-7.93	1.44	1.52
85	AA	965	G	P-O5'	-7.93	1.51	1.59
34	BA	50	G	C1'-N9	-7.93	1.35	1.46
34	BA	386	A	C5'-C4'	7.93	1.60	1.51
34	BA	395	G	P-O5'	-7.93	1.51	1.59
34	BA	909	G	C2'-C1'	-7.93	1.44	1.53
34	BA	1178	U	C2-N3	-7.93	1.32	1.37
34	BA	1595	G	P-O5'	-7.93	1.51	1.59
35	BB	119	G	C5-C4	-7.93	1.32	1.38
35	BB	505	G	C2-N2	-7.93	1.26	1.34
35	BB	1086	G	N9-C8	-7.93	1.32	1.37
39	BF	34	C	C1'-N1	-7.93	1.35	1.46
34	BA	364	C	O3'-P	-7.92	1.51	1.61
34	BA	1057	C	O3'-P	-7.92	1.51	1.61
34	BA	1196	C	C2-N3	-7.92	1.29	1.35
34	BA	1417	C	C2'-C1'	-7.92	1.44	1.53
35	BB	51	U	N1-C2	-7.92	1.31	1.38
35	BB	131	A	C1'-N9	-7.92	1.35	1.46
35	BB	406	A	O3'-P	-7.92	1.51	1.61
35	BB	1299	G	O3'-P	-7.92	1.51	1.61
36	BC	54	G	C1'-N9	-7.92	1.35	1.46
85	AA	172	A	C2'-C1'	-7.92	1.44	1.53
34	BA	761	U	O4'-C1'	-7.92	1.31	1.41
34	BA	1498	A	N7-C5	-7.92	1.34	1.39
35	BB	438	G	C3'-C2'	-7.92	1.44	1.52
35	BB	570	A	C5-C4	-7.92	1.33	1.38
35	BB	787	A	C1'-N9	-7.92	1.35	1.46
35	BB	1068	G	N9-C4	-7.92	1.31	1.38
36	BC	81	U	P-O5'	-7.92	1.51	1.59
34	BA	446	U	C2'-C1'	-7.92	1.44	1.53
35	BB	87	G	P-O5'	-7.92	1.51	1.59
85	AA	539	A	O3'-P	-7.92	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1181	A	O3'-P	-7.92	1.51	1.61
36	BC	42	G	N9-C4	-7.92	1.31	1.38
38	BE	176	G	N7-C5	-7.92	1.34	1.39
40	BG	152	G	C5'-C4'	-7.92	1.41	1.51
85	AA	655	U	C4'-C3'	-7.92	1.44	1.53
85	AA	1482	C	O3'-P	-7.92	1.51	1.61
85	AA	1647	G	N9-C4	7.92	1.44	1.38
34	BA	1747	C	P-O5'	-7.92	1.51	1.59
35	BB	435	A	N3-C4	-7.92	1.30	1.34
35	BB	615	A	N9-C8	-7.92	1.31	1.37
85	AA	185	A	C2'-C1'	-7.92	1.44	1.53
34	BA	1472	G	P-O5'	-7.92	1.51	1.59
35	BB	837	A	C1'-N9	-7.92	1.35	1.46
35	BB	1275	A	N9-C4	-7.92	1.33	1.37
85	AA	1220	A	P-O5'	-7.92	1.51	1.59
85	AA	1444	U	C2-N3	-7.92	1.32	1.37
85	AA	2052	U	P-O5'	-7.92	1.51	1.59
34	BA	521	C	C2-N3	-7.91	1.29	1.35
34	BA	999	G	N3-C4	-7.91	1.29	1.35
35	BB	6	A	C3'-C2'	-7.91	1.44	1.52
85	AA	1864	G	C3'-C2'	-7.91	1.44	1.52
34	BA	356	C	C3'-C2'	-7.91	1.44	1.52
85	AA	118	C	C3'-C2'	-7.91	1.44	1.52
34	BA	519	G	C4'-C3'	-7.91	1.44	1.53
34	BA	542	A	N9-C4	-7.91	1.33	1.37
34	BA	1528	U	C3'-C2'	-7.91	1.44	1.52
37	BD	77	A	C5-C4	-7.91	1.33	1.38
40	BG	170	G	C2'-C1'	-7.91	1.44	1.53
85	AA	784	C	P-O5'	-7.91	1.51	1.59
34	BA	57	A	C5-C4	-7.91	1.33	1.38
34	BA	1363	A	P-O5'	-7.91	1.51	1.59
34	BA	1603	A	N7-C5	-7.91	1.34	1.39
34	BA	1496	G	N9-C8	-7.91	1.32	1.37
35	BB	1476	C	C2'-C1'	-7.91	1.44	1.53
34	BA	1557	G	O3'-P	-7.91	1.51	1.61
35	BB	1329	G	P-O5'	-7.91	1.51	1.59
36	BC	68	A	O3'-P	-7.91	1.51	1.61
37	BD	99	G	O3'-P	-7.91	1.51	1.61
41	BH	113	G	O3'-P	-7.91	1.51	1.61
85	AA	423	G	C1'-N9	-7.91	1.35	1.46
85	AA	932	A	C1'-N9	-7.91	1.35	1.46
85	AA	1617	G	C2'-C1'	-7.91	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	793	A	N9-C4	-7.90	1.33	1.37
34	BA	1442	A	O3'-P	-7.90	1.51	1.61
35	BB	116	G	N7-C5	-7.90	1.34	1.39
35	BB	526	A	N7-C5	-7.90	1.34	1.39
37	BD	108	G	O3'-P	-7.90	1.51	1.61
85	AA	539	A	N9-C4	-7.90	1.33	1.37
34	BA	1030	C	C2'-C1'	-7.90	1.44	1.53
35	BB	134	G	N1-C2	-7.90	1.31	1.37
37	BD	13	A	C5'-C4'	-7.90	1.41	1.51
85	AA	182	C	P-O5'	-7.90	1.51	1.59
34	BA	399	G	C3'-C2'	-7.90	1.44	1.52
34	BA	494	A	N9-C4	-7.90	1.33	1.37
34	BA	819	G	C6-N1	-7.90	1.34	1.39
34	BA	1202	G	C1'-N9	-7.90	1.35	1.46
34	BA	1533	G	O3'-P	-7.90	1.51	1.61
35	BB	1117	G	C1'-N9	-7.90	1.35	1.46
36	BC	138	C	C3'-C2'	-7.90	1.44	1.52
39	BF	32	G	C3'-C2'	-7.90	1.44	1.52
35	BB	102	G	N9-C4	-7.90	1.31	1.38
34	BA	1071	G	C2-N2	-7.90	1.26	1.34
34	BA	1614	G	C5-C6	-7.90	1.34	1.42
35	BB	1477	C	P-O5'	-7.90	1.51	1.59
85	AA	504	U	C2'-C1'	-7.90	1.44	1.53
85	AA	1584	U	P-O5'	-7.90	1.51	1.59
34	BA	157	U	O3'-P	-7.90	1.51	1.61
34	BA	934	G	P-O5'	-7.90	1.51	1.59
85	AA	441	C	C3'-C2'	-7.90	1.44	1.52
85	AA	1660	U	C2-N3	-7.90	1.32	1.37
34	BA	268	U	P-O5'	-7.89	1.51	1.59
34	BA	274	C	C2'-C1'	-7.89	1.44	1.53
34	BA	937	G	C2-N2	-7.89	1.26	1.34
34	BA	953	G	N1-C2	-7.89	1.31	1.37
35	BB	534	C	C2'-C1'	-7.89	1.44	1.53
40	BG	17	A	N9-C4	-7.89	1.33	1.37
85	AA	1116	G	C3'-C2'	-7.89	1.44	1.52
85	AA	1174	G	P-O5'	-7.89	1.51	1.59
85	AA	2128	G	O3'-P	-7.89	1.51	1.61
34	BA	845	U	C2'-C1'	-7.89	1.44	1.53
34	BA	1602	A	O3'-P	-7.89	1.51	1.61
36	BC	142	C	C2'-C1'	-7.89	1.44	1.53
37	BD	33	U	C3'-C2'	-7.89	1.44	1.52
40	BG	72	G	O3'-P	-7.89	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1617	G	O3'-P	-7.89	1.51	1.61
34	BA	1287	G	C3'-C2'	-7.89	1.44	1.52
34	BA	1313	U	P-O5'	-7.89	1.51	1.59
34	BA	1438	C	O3'-P	-7.89	1.51	1.61
40	BG	157	A	O3'-P	-7.89	1.51	1.61
85	AA	9	U	N1-C2	-7.89	1.31	1.38
85	AA	608	A	C1'-N9	-7.89	1.35	1.46
34	BA	388	A	P-O5'	-7.89	1.51	1.59
34	BA	1650	G	C6-N1	-7.89	1.34	1.39
34	BA	1789	A	N3-C4	-7.89	1.30	1.34
36	BC	101	U	N3-C4	-7.89	1.31	1.38
36	BC	146	U	C2-N3	-7.89	1.32	1.37
85	AA	1031	G	P-O5'	-7.89	1.51	1.59
85	AA	1496	U	C1'-N1	-7.89	1.35	1.46
34	BA	22	C	N1-C6	-7.89	1.32	1.37
34	BA	1801	G	N9-C8	-7.89	1.32	1.37
34	BA	965	A	C2'-C1'	-7.89	1.44	1.53
35	BB	597	C	O3'-P	-7.89	1.51	1.61
85	AA	817	G	C1'-N9	-7.89	1.35	1.46
85	AA	1290	G	N3-C4	-7.89	1.29	1.35
34	BA	344	G	N9-C4	-7.88	1.31	1.38
34	BA	481	A	C2-N3	-7.88	1.26	1.33
34	BA	587	U	N1-C2	-7.88	1.31	1.38
34	BA	1013	A	O3'-P	-7.88	1.51	1.61
85	AA	1511	C	C3'-C2'	-7.88	1.44	1.52
85	AA	1885	A	P-O5'	-7.88	1.51	1.59
85	AA	2099	C	P-O5'	-7.88	1.51	1.59
85	AA	2240	G	C1'-N9	-7.88	1.35	1.46
34	BA	578	C	C2'-C1'	-7.88	1.44	1.53
34	BA	1246	G	O3'-P	-7.88	1.51	1.61
35	BB	1297	G	O3'-P	-7.88	1.51	1.61
85	AA	1589	G	P-O5'	-7.88	1.51	1.59
34	BA	334	G	C6-N1	-7.88	1.34	1.39
34	BA	798	G	C8-N7	-7.88	1.26	1.30
34	BA	912	G	C5-C4	-7.88	1.32	1.38
34	BA	1158	A	P-O5'	-7.88	1.51	1.59
35	BB	615	A	C1'-N9	-7.88	1.35	1.46
35	BB	1049	G	N9-C4	-7.88	1.31	1.38
35	BB	1432	U	O3'-P	-7.88	1.51	1.61
85	AA	160	A	C4'-C3'	-7.88	1.44	1.53
85	AA	464	A	N3-C4	-7.88	1.30	1.34
85	AA	881	C	C2-N3	-7.88	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1824	G	N9-C8	-7.88	1.32	1.37
85	AA	2128	G	N9-C4	-7.88	1.31	1.38
34	BA	1019	C	O3'-P	-7.88	1.51	1.61
34	BA	1036	G	N9-C4	-7.88	1.31	1.38
35	BB	1015	U	C2-N3	-7.88	1.32	1.37
85	AA	150	U	P-O5'	-7.88	1.51	1.59
34	BA	758	G	C4'-C3'	-7.88	1.44	1.53
35	BB	589	U	C3'-C2'	-7.88	1.44	1.52
36	BC	146	U	C3'-C2'	-7.88	1.44	1.52
85	AA	976	G	C2'-C1'	-7.88	1.44	1.53
85	AA	1810	C	C2'-C1'	-7.88	1.44	1.53
34	BA	1557	G	C1'-N9	-7.88	1.35	1.46
41	BH	6	U	C2-N3	-7.88	1.32	1.37
85	AA	428	G	O3'-P	-7.88	1.51	1.61
85	AA	859	G	C3'-C2'	-7.88	1.44	1.52
85	AA	1155	A	C1'-N9	-7.88	1.35	1.46
34	BA	1531	G	C1'-N9	-7.88	1.35	1.46
35	BB	426	A	N9-C4	-7.88	1.33	1.37
85	AA	1509	A	C6-N6	-7.88	1.27	1.33
34	BA	1396	A	C1'-N9	-7.87	1.35	1.46
34	BA	1744	C	P-O5'	-7.87	1.51	1.59
35	BB	661	G	C2-N3	-7.87	1.26	1.32
35	BB	1169	A	C3'-C2'	-7.87	1.44	1.52
34	BA	843	G	C6-N1	-7.87	1.34	1.39
34	BA	1642	A	O3'-P	-7.87	1.51	1.61
35	BB	7	C	C3'-C2'	-7.87	1.44	1.52
35	BB	806	U	N1-C6	-7.87	1.30	1.38
85	AA	247	G	C1'-N9	-7.87	1.35	1.46
85	AA	748	C	P-O5'	-7.87	1.51	1.59
85	AA	865	G	C2'-C1'	-7.87	1.44	1.53
85	AA	1166	C	P-O5'	-7.87	1.51	1.59
85	AA	1269	A	C1'-N9	-7.87	1.35	1.46
85	AA	2141	G	C1'-N9	-7.87	1.35	1.46
34	BA	946	A	N9-C8	-7.87	1.31	1.37
41	BH	128	G	N9-C4	-7.87	1.31	1.38
34	BA	473	A	N9-C4	-7.87	1.33	1.37
34	BA	495	A	O3'-P	-7.87	1.51	1.61
34	BA	583	G	C1'-N9	-7.87	1.35	1.46
35	BB	1083	C	P-O5'	-7.87	1.51	1.59
35	BB	1298	C	C2-N3	-7.87	1.29	1.35
35	BB	1377	A	C2'-C1'	-7.87	1.44	1.53
85	AA	2041	G	O3'-P	-7.87	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
86	AB	15	G	N7-C5	-7.87	1.34	1.39
34	BA	1036	G	N7-C5	-7.87	1.34	1.39
35	BB	507	G	C1'-N9	-7.87	1.35	1.46
35	BB	1448	U	C3'-C2'	-7.87	1.44	1.52
38	BE	132	U	O4'-C1'	-7.87	1.31	1.41
39	BF	50	C	P-O5'	-7.87	1.51	1.59
85	AA	252	G	P-O5'	-7.87	1.51	1.59
34	BA	975	A	C5-C4	-7.87	1.33	1.38
34	BA	1577	U	C2-N3	-7.87	1.32	1.37
34	BA	1847	G	P-O5'	-7.87	1.51	1.59
35	BB	125	G	C6-N1	-7.87	1.34	1.39
35	BB	482	A	C3'-C2'	-7.87	1.44	1.52
85	AA	633	C	O3'-P	-7.87	1.51	1.61
85	AA	1263	G	C2'-C1'	-7.87	1.44	1.53
34	BA	88	C	C2-N3	-7.86	1.29	1.35
36	BC	139	A	N7-C5	-7.86	1.34	1.39
41	BH	25	A	O3'-P	-7.86	1.51	1.61
41	BH	56	C	P-O5'	-7.86	1.51	1.59
85	AA	2194	U	O3'-P	-7.86	1.51	1.61
34	BA	448	U	P-O5'	-7.86	1.51	1.59
40	BG	20	U	N3-C4	-7.86	1.31	1.38
85	AA	522	A	P-O5'	-7.86	1.51	1.59
85	AA	1975	G	P-O5'	-7.86	1.51	1.59
34	BA	90	G	P-O5'	-7.86	1.51	1.59
34	BA	530	A	N3-C4	-7.86	1.30	1.34
34	BA	589	A	C3'-C2'	-7.86	1.44	1.52
34	BA	1510	C	C2'-C1'	-7.86	1.44	1.53
34	BA	1547	G	C6-N1	-7.86	1.34	1.39
35	BB	419	G	O3'-P	-7.86	1.51	1.61
35	BB	635	A	O3'-P	-7.86	1.51	1.61
40	BG	14	G	C1'-N9	-7.86	1.35	1.46
85	AA	756	G	C4'-C3'	-7.86	1.44	1.53
34	BA	1581	G	C2-N2	-7.86	1.26	1.34
35	BB	1016	C	C3'-C2'	-7.86	1.44	1.52
36	BC	2	A	C1'-N9	-7.86	1.35	1.46
85	AA	2026	U	P-O5'	-7.86	1.51	1.59
85	AA	2143	U	C3'-C2'	-7.86	1.44	1.52
35	BB	424	U	C2-N3	-7.86	1.32	1.37
35	BB	456	A	N7-C5	-7.86	1.34	1.39
35	BB	787	A	N9-C4	-7.86	1.33	1.37
35	BB	1308	G	C5-C4	-7.86	1.32	1.38
36	BC	9	G	C4'-C3'	-7.86	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	19	A	N7-C5	-7.86	1.34	1.39
85	AA	464	A	P-O5'	-7.86	1.51	1.59
34	BA	289	A	N9-C4	-7.86	1.33	1.37
34	BA	372	U	O3'-P	-7.86	1.51	1.61
34	BA	1028	A	C5-C4	-7.86	1.33	1.38
36	BC	23	G	C6-N1	-7.86	1.34	1.39
85	AA	44	C	P-O5'	-7.86	1.51	1.59
85	AA	1696	U	P-O5'	-7.86	1.51	1.59
37	BD	78	C	O3'-P	-7.85	1.51	1.61
85	AA	2123	U	O4'-C1'	-7.85	1.31	1.41
85	AA	2232	A	N9-C4	-7.85	1.33	1.37
35	BB	802	G	N1-C2	-7.85	1.31	1.37
35	BB	1233	U	C2-N3	-7.85	1.32	1.37
37	BD	95	G	P-O5'	-7.85	1.51	1.59
41	BH	66	G	P-O5'	-7.85	1.51	1.59
85	AA	995	G	O3'-P	-7.85	1.51	1.61
85	AA	1863	A	N9-C4	-7.85	1.33	1.37
35	BB	584	A	C2'-C1'	-7.85	1.44	1.53
40	BG	5	G	N1-C2	-7.85	1.31	1.37
40	BG	151	A	P-O5'	-7.85	1.51	1.59
34	BA	1019	C	C1'-N1	-7.85	1.35	1.46
34	BA	1814	U	C2-N3	-7.85	1.32	1.37
35	BB	1104	A	P-O5'	-7.85	1.51	1.59
35	BB	1396	G	C3'-C2'	-7.85	1.44	1.52
85	AA	35	U	O3'-P	-7.85	1.51	1.61
85	AA	210	G	O3'-P	-7.85	1.51	1.61
85	AA	1150	G	P-O5'	-7.85	1.51	1.59
34	BA	1030	C	C3'-C2'	-7.85	1.44	1.52
35	BB	389	G	C2'-C1'	-7.85	1.44	1.53
35	BB	557	C	C3'-C2'	-7.85	1.44	1.52
38	BE	66	A	C2'-C1'	-7.85	1.44	1.53
39	BF	36	G	P-O5'	-7.85	1.51	1.59
40	BG	153	C	O3'-P	-7.85	1.51	1.61
85	AA	938	A	C2'-C1'	-7.85	1.44	1.53
35	BB	44	C	C1'-N1	-7.85	1.35	1.46
35	BB	1371	G	C1'-N9	-7.85	1.35	1.46
38	BE	139	U	C3'-C2'	-7.85	1.44	1.52
85	AA	55	A	N9-C4	-7.85	1.33	1.37
85	AA	1488	G	P-O5'	-7.85	1.51	1.59
85	AA	1503	G	P-O5'	-7.85	1.51	1.59
85	AA	1518	A	C5-C4	-7.85	1.33	1.38
85	AA	2147	A	C3'-C2'	-7.85	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	929	A	O3'-P	-7.84	1.51	1.61
35	BB	807	U	P-O5'	-7.84	1.51	1.59
85	AA	487	G	O3'-P	-7.84	1.51	1.61
85	AA	877	G	P-O5'	-7.84	1.51	1.59
34	BA	858	C	C3'-C2'	-7.84	1.44	1.52
85	AA	1445	C	O3'-P	-7.84	1.51	1.61
85	AA	1700	C	O3'-P	-7.84	1.51	1.61
85	AA	2084	U	C4'-C3'	-7.84	1.44	1.53
34	BA	546	U	P-O5'	-7.84	1.51	1.59
34	BA	1640	G	O3'-P	-7.84	1.51	1.61
35	BB	680	A	C2'-C1'	-7.84	1.44	1.53
35	BB	730	G	P-O5'	-7.84	1.51	1.59
34	BA	90	G	O3'-P	-7.84	1.51	1.61
34	BA	1088	G	C2'-C1'	-7.84	1.44	1.53
35	BB	1052	G	C8-N7	-7.84	1.26	1.30
35	BB	1126	A	N9-C4	-7.84	1.33	1.37
35	BB	1401	G	N9-C8	-7.84	1.32	1.37
36	BC	7	U	C4'-C3'	-7.84	1.44	1.53
37	BD	97	U	P-O5'	-7.84	1.51	1.59
34	BA	405	C	N1-C6	-7.84	1.32	1.37
34	BA	736	G	P-O5'	-7.84	1.51	1.59
40	BG	81	G	C3'-C2'	-7.84	1.44	1.52
34	BA	1210	A	N9-C8	-7.84	1.31	1.37
35	BB	126	C	N1-C6	-7.84	1.32	1.37
35	BB	1418	C	C3'-C2'	-7.84	1.44	1.52
34	BA	195	G	C1'-N9	-7.83	1.35	1.46
34	BA	483	A	N9-C4	-7.83	1.33	1.37
34	BA	1068	C	C2-N3	-7.83	1.29	1.35
34	BA	1686	G	P-O5'	-7.83	1.51	1.59
35	BB	83	G	O3'-P	-7.83	1.51	1.61
35	BB	631	G	N9-C4	-7.83	1.31	1.38
38	BE	59	U	O3'-P	-7.83	1.51	1.61
34	BA	330	A	C1'-N9	-7.83	1.35	1.46
34	BA	431	A	C5-C4	-7.83	1.33	1.38
34	BA	984	U	C1'-N1	-7.83	1.35	1.46
34	BA	1435	A	C2'-C1'	-7.83	1.44	1.53
35	BB	6	A	C1'-N9	-7.83	1.35	1.46
35	BB	124	G	P-O5'	-7.83	1.51	1.59
35	BB	130	G	C3'-C2'	-7.83	1.44	1.52
35	BB	489	A	N7-C5	-7.83	1.34	1.39
35	BB	569	G	N1-C2	-7.83	1.31	1.37
35	BB	632	U	C2-N3	-7.83	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	53	U	O3'-P	-7.83	1.51	1.61
39	BF	28	C	C4'-C3'	-7.83	1.44	1.53
85	AA	1090	A	O3'-P	-7.83	1.51	1.61
85	AA	2235	C	O3'-P	-7.83	1.51	1.61
86	AB	69	G	C2'-C1'	-7.83	1.44	1.53
34	BA	487	A	C2'-C1'	-7.83	1.44	1.53
34	BA	901	C	C1'-N1	-7.83	1.35	1.46
34	BA	923	C	C2'-C1'	-7.83	1.44	1.53
35	BB	1026	G	N9-C4	-7.83	1.31	1.38
35	BB	1418	C	O3'-P	-7.83	1.51	1.61
85	AA	2182	A	C4'-C3'	-7.83	1.44	1.53
35	BB	1044	U	P-O5'	-7.83	1.51	1.59
41	BH	111	U	N3-C4	-7.83	1.31	1.38
85	AA	716	G	C2'-C1'	-7.83	1.44	1.53
85	AA	2189	U	P-O5'	-7.83	1.51	1.59
34	BA	108	A	C1'-N9	-7.83	1.35	1.46
35	BB	71	A	O3'-P	-7.83	1.51	1.61
35	BB	1396	G	N1-C2	-7.83	1.31	1.37
37	BD	105	G	O3'-P	-7.83	1.51	1.61
38	BE	6	A	C4'-C3'	-7.83	1.44	1.53
40	BG	67	A	P-O5'	-7.83	1.51	1.59
85	AA	1286	C	C2'-C1'	-7.83	1.44	1.53
85	AA	1541	G	C2'-C1'	-7.83	1.44	1.53
85	AA	2186	U	P-O5'	-7.83	1.51	1.59
35	BB	30	A	O3'-P	-7.83	1.51	1.61
35	BB	451	A	C1'-N9	-7.83	1.35	1.46
35	BB	526	A	N9-C4	-7.83	1.33	1.37
35	BB	1242	C	C2-N3	-7.83	1.29	1.35
35	BB	1393	C	O3'-P	-7.83	1.51	1.61
34	BA	1097	G	P-O5'	-7.83	1.51	1.59
35	BB	1058	U	C2'-C1'	-7.83	1.44	1.53
36	BC	166	G	C2-N2	-7.83	1.26	1.34
85	AA	289	G	N9-C4	-7.83	1.31	1.38
85	AA	2039	G	P-O5'	-7.83	1.51	1.59
34	BA	334	G	O3'-P	-7.82	1.51	1.61
34	BA	1119	A	C5'-C4'	-7.82	1.42	1.51
34	BA	1501	U	C3'-C2'	-7.82	1.44	1.52
35	BB	547	A	C1'-N9	-7.82	1.35	1.46
35	BB	1060	U	C2-N3	-7.82	1.32	1.37
35	BB	1103	A	C3'-C2'	-7.82	1.44	1.52
40	BG	164	U	C3'-C2'	-7.82	1.44	1.52
41	BH	129	G	N9-C4	-7.82	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	354	C	C2-N3	-7.82	1.29	1.35
85	AA	1002	G	C2'-C1'	-7.82	1.44	1.53
85	AA	1575	G	C2-N2	-7.82	1.26	1.34
85	AA	2141	G	N9-C4	-7.82	1.31	1.38
85	AA	2187	G	P-O5'	-7.82	1.51	1.59
34	BA	136	A	C3'-C2'	-7.82	1.44	1.52
34	BA	776	U	C4'-C3'	-7.82	1.44	1.53
36	BC	15	G	C2'-C1'	-7.82	1.44	1.53
40	BG	46	G	C2'-C1'	-7.82	1.44	1.53
34	BA	679	U	O3'-P	-7.82	1.51	1.61
35	BB	43	G	C1'-N9	-7.82	1.35	1.46
85	AA	434	U	P-O5'	-7.82	1.51	1.59
85	AA	663	C	C3'-C2'	-7.82	1.44	1.52
85	AA	976	G	C3'-C2'	-7.82	1.44	1.52
85	AA	1211	C	C3'-C2'	-7.82	1.44	1.52
34	BA	499	C	C2-N3	-7.82	1.29	1.35
34	BA	1573	C	C1'-N1	-7.82	1.35	1.46
85	AA	835	C	O3'-P	-7.82	1.51	1.61
85	AA	2236	U	O3'-P	-7.82	1.51	1.61
34	BA	92	G	N9-C4	-7.82	1.31	1.38
34	BA	98	A	C5-C4	-7.82	1.33	1.38
34	BA	695	A	O3'-P	-7.82	1.51	1.61
34	BA	1664	C	O3'-P	-7.82	1.51	1.61
35	BB	414	C	C2'-C1'	-7.82	1.44	1.53
85	AA	763	U	C3'-C2'	-7.82	1.44	1.52
34	BA	103	G	C5-C4	-7.82	1.32	1.38
34	BA	766	A	N9-C4	-7.82	1.33	1.37
34	BA	1525	G	N7-C5	-7.82	1.34	1.39
35	BB	534	C	P-O5'	-7.82	1.51	1.59
35	BB	661	G	N7-C5	-7.82	1.34	1.39
35	BB	1038	G	C4'-C3'	-7.82	1.44	1.53
35	BB	1341	U	C2-N3	-7.82	1.32	1.37
38	BE	94	U	C2-N3	-7.82	1.32	1.37
40	BG	87	G	C1'-N9	-7.82	1.35	1.46
85	AA	977	U	C2'-C1'	-7.82	1.44	1.53
85	AA	1181	U	P-O5'	-7.82	1.51	1.59
85	AA	1690	A	O3'-P	-7.82	1.51	1.61
34	BA	449	G	C2-N3	-7.81	1.26	1.32
34	BA	461	A	N3-C4	-7.81	1.30	1.34
34	BA	1092	U	C2'-C1'	-7.81	1.44	1.53
34	BA	1472	G	C6-N1	-7.81	1.34	1.39
34	BA	1557	G	N9-C4	-7.81	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	27	C	C4'-C3'	-7.81	1.44	1.53
37	BD	62	A	O3'-P	-7.81	1.51	1.61
36	BC	2	A	N7-C5	-7.81	1.34	1.39
36	BC	125	A	O3'-P	-7.81	1.51	1.61
40	BG	68	U	O3'-P	-7.81	1.51	1.61
85	AA	914	U	C2-N3	-7.81	1.32	1.37
34	BA	1255	G	N3-C4	-7.81	1.29	1.35
35	BB	400	C	P-O5'	-7.81	1.51	1.59
36	BC	92	C	C2-N3	-7.81	1.29	1.35
39	BF	12	U	C4'-C3'	-7.81	1.44	1.53
35	BB	40	C	C2-N3	-7.81	1.29	1.35
35	BB	690	C	O3'-P	-7.81	1.51	1.61
40	BG	152	G	C6-N1	-7.81	1.34	1.39
85	AA	407	G	C6-N1	-7.81	1.34	1.39
85	AA	816	A	C1'-N9	7.81	1.60	1.48
86	AB	70	G	C4'-C3'	-7.81	1.44	1.53
34	BA	408	U	N1-C2	-7.81	1.31	1.38
34	BA	1284	G	C2'-C1'	-7.81	1.44	1.53
34	BA	1782	C	C2-N3	-7.81	1.29	1.35
35	BB	1261	U	O3'-P	-7.81	1.51	1.61
35	BB	1313	C	C2'-C1'	-7.81	1.44	1.53
39	BF	7	G	O3'-P	-7.81	1.51	1.61
41	BH	111	U	C2'-C1'	-7.81	1.44	1.53
85	AA	448	G	N1-C2	-7.81	1.31	1.37
85	AA	457	G	C3'-C2'	-7.81	1.44	1.52
34	BA	211	C	P-O5'	-7.80	1.51	1.59
34	BA	713	C	O3'-P	-7.80	1.51	1.61
34	BA	1425	G	O3'-P	-7.80	1.51	1.61
35	BB	78	C	C3'-C2'	-7.80	1.44	1.52
35	BB	1175	A	N9-C4	-7.80	1.33	1.37
85	AA	661	C	O3'-P	-7.80	1.51	1.61
85	AA	867	G	C8-N7	-7.80	1.26	1.30
34	BA	167	U	C2'-C1'	-7.80	1.44	1.53
34	BA	931	G	P-O5'	-7.80	1.51	1.59
34	BA	991	U	C2-N3	-7.80	1.32	1.37
34	BA	1657	A	C2'-C1'	-7.80	1.44	1.53
35	BB	379	U	C2'-C1'	-7.80	1.44	1.53
37	BD	7	G	O3'-P	-7.80	1.51	1.61
85	AA	98	U	O3'-P	-7.80	1.51	1.61
85	AA	161	A	P-O5'	-7.80	1.51	1.59
34	BA	248	G	C5'-C4'	7.80	1.60	1.51
34	BA	1522	G	C5-C4	-7.80	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1150	A	C4'-C3'	-7.80	1.44	1.53
85	AA	112	A	N9-C4	-7.80	1.33	1.37
85	AA	1127	G	N9-C8	-7.80	1.32	1.37
34	BA	267	G	C2-N2	-7.80	1.26	1.34
34	BA	839	U	O3'-P	-7.80	1.51	1.61
34	BA	1681	U	P-O5'	-7.80	1.51	1.59
35	BB	130	G	C2'-C1'	-7.80	1.44	1.53
38	BE	195	G	P-O5'	-7.80	1.51	1.59
41	BH	38	G	C1'-N9	-7.80	1.35	1.46
41	BH	57	A	P-O5'	-7.80	1.51	1.59
85	AA	1112	G	P-O5'	-7.80	1.51	1.59
85	AA	2145	G	C5-C4	-7.80	1.32	1.38
35	BB	1072	C	C1'-N1	-7.80	1.35	1.46
35	BB	1483	A	N7-C5	-7.80	1.34	1.39
85	AA	430	G	P-O5'	-7.80	1.51	1.59
34	BA	34	U	N3-C4	-7.80	1.31	1.38
34	BA	842	U	C2'-C1'	-7.80	1.44	1.53
34	BA	857	C	C2-N3	-7.80	1.29	1.35
34	BA	1704	G	C5-C4	-7.80	1.32	1.38
34	BA	1726	U	C5'-C4'	-7.80	1.42	1.51
35	BB	402	G	O3'-P	-7.80	1.51	1.61
35	BB	1118	G	C2'-C1'	-7.80	1.44	1.53
36	BC	18	G	C2-N3	-7.80	1.26	1.32
37	BD	21	G	O3'-P	-7.80	1.51	1.61
41	BH	131	A	P-O5'	-7.80	1.51	1.59
85	AA	166	C	O3'-P	-7.80	1.51	1.61
85	AA	370	A	C2'-C1'	-7.80	1.44	1.53
34	BA	351	A	P-O5'	-7.79	1.51	1.59
34	BA	933	U	O4'-C1'	-7.79	1.31	1.41
34	BA	399	G	C2-N2	-7.79	1.26	1.34
34	BA	425	G	C2-N2	-7.79	1.26	1.34
35	BB	1121	A	N7-C5	-7.79	1.34	1.39
85	AA	167	A	N9-C4	-7.79	1.33	1.37
85	AA	355	G	O3'-P	-7.79	1.51	1.61
85	AA	2072	G	N7-C5	-7.79	1.34	1.39
34	BA	527	C	P-O5'	-7.79	1.51	1.59
35	BB	104	G	C3'-C2'	-7.79	1.44	1.52
35	BB	474	G	C1'-N9	-7.79	1.35	1.46
35	BB	647	U	N3-C4	-7.79	1.31	1.38
35	BB	1274	G	N9-C4	-7.79	1.31	1.38
85	AA	42	G	O3'-P	-7.79	1.51	1.61
34	BA	24	C	C3'-C2'	-7.79	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	38	G	N7-C5	-7.79	1.34	1.39
34	BA	196	A	C3'-C2'	-7.79	1.44	1.52
34	BA	1425	G	N7-C5	-7.79	1.34	1.39
34	BA	1611	A	O3'-P	-7.79	1.51	1.61
37	BD	79	G	C2'-C1'	-7.79	1.44	1.53
85	AA	679	A	C1'-N9	-7.79	1.35	1.46
34	BA	737	U	C2'-C1'	-7.79	1.44	1.53
34	BA	796	G	N9-C8	-7.79	1.32	1.37
34	BA	1230	G	N9-C4	-7.79	1.31	1.38
34	BA	1820	G	N3-C4	-7.79	1.29	1.35
35	BB	14	C	C4'-C3'	-7.79	1.44	1.53
35	BB	665	A	C6-N1	-7.79	1.30	1.35
35	BB	1189	C	P-O5'	-7.79	1.51	1.59
37	BD	116	C	O3'-P	-7.79	1.51	1.61
34	BA	290	G	N1-C2	-7.79	1.31	1.37
34	BA	746	C	O3'-P	-7.79	1.51	1.61
34	BA	1608	C	C2-N3	-7.79	1.29	1.35
35	BB	28	G	N9-C4	-7.79	1.31	1.38
35	BB	1047	C	C2'-C1'	-7.79	1.44	1.53
34	BA	1539	A	N9-C4	-7.79	1.33	1.37
35	BB	392	G	C5-C4	-7.79	1.32	1.38
35	BB	1363	A	N9-C4	-7.79	1.33	1.37
85	AA	19	A	O3'-P	-7.79	1.51	1.61
85	AA	197	C	C4'-C3'	7.79	1.61	1.53
34	BA	524	G	N1-C2	-7.78	1.31	1.37
35	BB	615	A	P-O5'	-7.78	1.51	1.59
35	BB	674	C	O3'-P	-7.78	1.51	1.61
85	AA	248	U	P-O5'	-7.78	1.51	1.59
34	BA	1810	A	O3'-P	-7.78	1.51	1.61
35	BB	1029	U	C2-N3	-7.78	1.32	1.37
85	AA	452	A	C1'-N9	-7.78	1.35	1.46
85	AA	800	A	C2'-C1'	-7.78	1.44	1.53
34	BA	141	G	O3'-P	-7.78	1.51	1.61
35	BB	144	G	P-O5'	-7.78	1.51	1.59
35	BB	1263	A	P-O5'	-7.78	1.51	1.59
40	BG	94	G	C1'-N9	-7.78	1.35	1.46
85	AA	679	A	C3'-C2'	-7.78	1.44	1.52
85	AA	760	U	C2'-C1'	-7.78	1.44	1.53
85	AA	1147	A	C2'-C1'	-7.78	1.44	1.53
85	AA	1486	G	O3'-P	-7.78	1.51	1.61
34	BA	700	G	O3'-P	-7.78	1.51	1.61
35	BB	607	G	C2-N2	-7.78	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	7	G	N7-C5	-7.78	1.34	1.39
37	BD	110	G	C3'-C2'	-7.78	1.44	1.52
85	AA	866	U	O3'-P	-7.78	1.51	1.61
85	AA	1165	C	C3'-C2'	-7.78	1.44	1.52
34	BA	522	C	P-O5'	-7.78	1.51	1.59
35	BB	100	A	C2'-C1'	-7.78	1.44	1.53
35	BB	1128	U	C2'-C1'	-7.78	1.44	1.53
36	BC	54	G	C8-N7	-7.78	1.26	1.30
40	BG	157	A	C6-N1	-7.78	1.30	1.35
85	AA	773	G	C3'-C2'	-7.78	1.44	1.52
34	BA	727	G	P-O5'	-7.77	1.51	1.59
34	BA	1495	A	O3'-P	-7.77	1.51	1.61
35	BB	65	A	C1'-N9	-7.77	1.35	1.46
35	BB	1269	A	O3'-P	-7.77	1.51	1.61
37	BD	97	U	O3'-P	-7.77	1.51	1.61
34	BA	49	A	C4'-O4'	-7.77	1.35	1.45
34	BA	323	C	C2-N3	-7.77	1.29	1.35
35	BB	826	G	C2'-C1'	-7.77	1.44	1.53
35	BB	977	G	P-O5'	-7.77	1.51	1.59
35	BB	1110	G	C6-N1	-7.77	1.34	1.39
36	BC	44	A	C5-C4	-7.77	1.33	1.38
41	BH	123	G	C1'-N9	-7.77	1.35	1.46
85	AA	970	U	C1'-N1	7.77	1.60	1.48
38	BE	107	U	C2'-C1'	-7.77	1.44	1.53
85	AA	1491	G	C2-N2	-7.77	1.26	1.34
34	BA	176	G	C2'-C1'	-7.77	1.44	1.53
34	BA	494	A	O3'-P	-7.77	1.51	1.61
34	BA	548	G	N7-C5	-7.77	1.34	1.39
34	BA	902	C	C1'-N1	-7.77	1.35	1.46
38	BE	136	G	O4'-C1'	-7.77	1.31	1.41
39	BF	51	C	O3'-P	-7.77	1.51	1.61
40	BG	92	U	C3'-C2'	-7.77	1.44	1.52
85	AA	2164	G	C2'-C1'	-7.77	1.44	1.53
34	BA	482	C	N1-C2	-7.77	1.32	1.40
34	BA	1736	A	P-O5'	-7.77	1.51	1.59
35	BB	1293	C	C2'-C1'	-7.77	1.44	1.53
40	BG	102	G	N1-C2	-7.77	1.31	1.37
85	AA	92	G	N9-C4	-7.77	1.31	1.38
85	AA	1224	C	C3'-C2'	-7.77	1.44	1.52
85	AA	1490	A	N7-C5	-7.77	1.34	1.39
34	BA	504	A	C5-C4	-7.77	1.33	1.38
34	BA	1011	G	C5-C4	-7.77	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1040	G	C2'-C1'	-7.77	1.44	1.53
85	AA	422	G	C3'-C2'	-7.77	1.44	1.52
85	AA	2006	G	N7-C5	-7.77	1.34	1.39
34	BA	245	U	O3'-P	-7.76	1.51	1.61
35	BB	1178	A	C1'-N9	-7.76	1.35	1.46
35	BB	1232	A	C3'-C2'	-7.76	1.44	1.52
35	BB	1455	A	C2'-C1'	-7.76	1.44	1.53
35	BB	1505	U	O3'-P	-7.76	1.51	1.61
37	BD	11	A	C4'-C3'	-7.76	1.44	1.53
41	BH	38	G	C5-C6	-7.76	1.34	1.42
41	BH	109	G	O3'-P	-7.76	1.51	1.61
85	AA	1597	C	C2'-C1'	-7.76	1.44	1.53
85	AA	1662	U	P-O5'	-7.76	1.51	1.59
34	BA	397	A	C2'-C1'	-7.76	1.44	1.53
34	BA	1823	A	N7-C5	-7.76	1.34	1.39
35	BB	798	A	C8-N7	-7.76	1.26	1.31
38	BE	92	C	C3'-C2'	-7.76	1.44	1.52
85	AA	1473	U	C1'-N1	-7.76	1.35	1.46
34	BA	53	G	C1'-N9	-7.76	1.35	1.46
34	BA	189	G	N9-C8	-7.76	1.32	1.37
34	BA	246	G	P-O5'	-7.76	1.51	1.59
34	BA	761	U	C3'-C2'	-7.76	1.44	1.52
34	BA	1674	G	C2'-C1'	-7.76	1.44	1.53
34	BA	1731	A	P-O5'	-7.76	1.51	1.59
35	BB	547	A	P-O5'	-7.76	1.51	1.59
35	BB	1105	G	O3'-P	-7.76	1.51	1.61
35	BB	1423	U	C3'-C2'	-7.76	1.44	1.52
35	BB	1478	G	O3'-P	-7.76	1.51	1.61
36	BC	75	G	C3'-C2'	-7.76	1.44	1.52
85	AA	702	G	N7-C5	-7.76	1.34	1.39
85	AA	708	G	N9-C4	-7.76	1.31	1.38
85	AA	713	G	O3'-P	-7.76	1.51	1.61
34	BA	167	U	C2-N3	-7.76	1.32	1.37
34	BA	500	C	C2'-C1'	-7.76	1.44	1.53
34	BA	997	U	C3'-C2'	-7.76	1.44	1.52
34	BA	1493	U	C4'-C3'	7.76	1.61	1.53
35	BB	666	A	P-O5'	-7.76	1.51	1.59
40	BG	65	C	C4'-C3'	-7.76	1.44	1.53
35	BB	773	G	O3'-P	-7.76	1.51	1.61
38	BE	113	C	O3'-P	-7.76	1.51	1.61
34	BA	131	A	P-O5'	-7.76	1.51	1.59
34	BA	669	U	C2-N3	-7.76	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	683	C	C2-N3	7.76	1.42	1.35
34	BA	747	G	O3'-P	-7.76	1.51	1.61
34	BA	782	C	C3'-C2'	-7.76	1.44	1.52
34	BA	1029	C	P-O5'	-7.76	1.51	1.59
34	BA	1260	G	C1'-N9	-7.76	1.35	1.46
34	BA	1521	C	C3'-C2'	-7.76	1.44	1.52
35	BB	829	C	O3'-P	-7.76	1.51	1.61
35	BB	1027	U	P-O5'	-7.76	1.51	1.59
34	BA	142	A	C1'-N9	-7.75	1.35	1.46
34	BA	937	G	N9-C4	-7.75	1.31	1.38
34	BA	1127	U	P-O5'	-7.75	1.51	1.59
85	AA	247	G	O3'-P	-7.75	1.51	1.61
85	AA	501	A	O3'-P	-7.75	1.51	1.61
34	BA	300	C	P-O5'	-7.75	1.51	1.59
34	BA	973	U	P-O5'	-7.75	1.51	1.59
34	BA	1025	A	C8-N7	-7.75	1.26	1.31
34	BA	1059	U	O3'-P	-7.75	1.51	1.61
34	BA	1682	A	P-O5'	-7.75	1.51	1.59
35	BB	1199	A	C1'-N9	-7.75	1.35	1.46
35	BB	1517	G	N9-C4	-7.75	1.31	1.38
38	BE	96	G	C2-N3	-7.75	1.26	1.32
64	Be	131	GLY	CA-C	-7.75	1.39	1.51
85	AA	313	A	O3'-P	-7.75	1.51	1.61
85	AA	419	A	C5-C4	-7.75	1.33	1.38
85	AA	1520	A	N3-C4	-7.75	1.30	1.34
85	AA	2167	A	O3'-P	-7.75	1.51	1.61
34	BA	76	U	P-O5'	-7.75	1.51	1.59
34	BA	1790	U	C1'-N1	-7.75	1.35	1.46
35	BB	1399	A	N9-C8	-7.75	1.31	1.37
39	BF	23	G	C5'-C4'	7.75	1.60	1.51
85	AA	15	U	P-O5'	-7.75	1.51	1.59
34	BA	780	U	C4'-O4'	7.75	1.55	1.45
34	BA	1194	G	C2'-C1'	-7.75	1.44	1.53
35	BB	114	A	P-O5'	-7.75	1.51	1.59
85	AA	882	C	C2-N3	-7.75	1.29	1.35
85	AA	1235	G	N9-C4	-7.75	1.31	1.38
34	BA	381	A	C5-C4	-7.75	1.33	1.38
34	BA	727	G	N9-C8	-7.75	1.32	1.37
34	BA	776	U	C3'-C2'	-7.75	1.44	1.52
34	BA	904	G	N9-C8	-7.75	1.32	1.37
34	BA	925	G	O3'-P	-7.75	1.51	1.61
34	BA	1073	G	C6-N1	-7.75	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1716	A	P-O5'	7.75	1.67	1.59
35	BB	661	G	P-O5'	-7.75	1.52	1.59
38	BE	122	G	C1'-N9	-7.75	1.36	1.46
39	BF	60	C	C2'-C1'	-7.75	1.44	1.53
40	BG	38	A	C5-C4	-7.75	1.33	1.38
41	BH	38	G	P-O5'	-7.75	1.52	1.59
85	AA	507	C	C2'-C1'	-7.75	1.44	1.53
85	AA	652	U	P-O5'	-7.75	1.52	1.59
85	AA	2200	A	C1'-N9	-7.75	1.36	1.46
34	BA	407	A	N7-C5	-7.75	1.34	1.39
34	BA	1154	U	N3-C4	-7.75	1.31	1.38
34	BA	1423	U	O3'-P	-7.75	1.51	1.61
36	BC	16	A	C5-C4	-7.75	1.33	1.38
37	BD	36	C	O3'-P	-7.75	1.51	1.61
85	AA	683	U	O3'-P	-7.75	1.51	1.61
85	AA	2088	U	P-O5'	-7.75	1.52	1.59
85	AA	2208	G	N7-C5	-7.75	1.34	1.39
34	BA	611	A	N7-C5	-7.75	1.34	1.39
34	BA	1551	G	C2'-C1'	-7.75	1.44	1.53
35	BB	377	A	P-O5'	-7.75	1.52	1.59
35	BB	1216	G	C3'-C2'	-7.75	1.44	1.52
38	BE	121	G	O3'-P	-7.75	1.51	1.61
85	AA	25	C	O3'-P	-7.75	1.51	1.61
34	BA	89	G	C5-C4	-7.74	1.32	1.38
34	BA	1220	C	C1'-N1	-7.74	1.36	1.46
34	BA	1254	C	O3'-P	-7.74	1.51	1.61
34	BA	1505	G	C1'-N9	-7.74	1.36	1.46
34	BA	1544	G	C2'-C1'	-7.74	1.44	1.53
35	BB	41	A	O3'-P	-7.74	1.51	1.61
35	BB	433	C	C2-N3	-7.74	1.29	1.35
35	BB	1045	G	O3'-P	-7.74	1.51	1.61
36	BC	68	A	N9-C4	-7.74	1.33	1.37
38	BE	148	C	C2-N3	-7.74	1.29	1.35
39	BF	50	C	C3'-C2'	-7.74	1.44	1.52
39	BF	62	U	C2'-C1'	-7.74	1.44	1.53
85	AA	402	G	C6-N1	-7.74	1.34	1.39
85	AA	1119	A	C3'-C2'	-7.74	1.44	1.52
40	BG	90	G	C6-N1	-7.74	1.34	1.39
34	BA	545	U	C2-N3	-7.74	1.32	1.37
34	BA	614	A	C2'-C1'	-7.74	1.44	1.53
34	BA	813	C	C2-N3	-7.74	1.29	1.35
34	BA	907	A	N7-C5	-7.74	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	30	A	P-O5'	-7.74	1.52	1.59
35	BB	442	U	C1'-N1	-7.74	1.36	1.46
85	AA	1469	G	C4'-C3'	-7.74	1.44	1.53
85	AA	1544	G	O3'-P	-7.74	1.51	1.61
86	AB	22	G	N9-C4	-7.74	1.31	1.38
34	BA	69	C	N3-C4	-7.74	1.28	1.33
34	BA	1062	G	N7-C5	-7.74	1.34	1.39
35	BB	633	C	C3'-C2'	-7.74	1.44	1.52
34	BA	962	U	P-O5'	-7.74	1.52	1.59
40	BG	53	C	P-O5'	-7.74	1.52	1.59
34	BA	112	C	C2-N3	-7.74	1.29	1.35
34	BA	1224	A	C2'-C1'	-7.74	1.44	1.53
35	BB	1081	U	C2'-C1'	-7.74	1.44	1.53
35	BB	1400	C	P-O5'	-7.74	1.52	1.59
65	Bf	324	GLY	CA-C	-7.74	1.39	1.51
85	AA	1681	G	C4'-C3'	-7.74	1.44	1.53
85	AA	1831	U	C2'-C1'	-7.74	1.44	1.53
35	BB	611	U	C3'-C2'	-7.73	1.44	1.52
34	BA	257	G	C6-N1	-7.73	1.34	1.39
34	BA	380	A	O3'-P	-7.73	1.51	1.61
34	BA	1673	G	N1-C2	-7.73	1.31	1.37
35	BB	1210	U	C2'-C1'	-7.73	1.44	1.53
39	BF	46	G	C3'-C2'	-7.73	1.44	1.52
40	BG	127	G	C2-N2	-7.73	1.26	1.34
85	AA	452	A	P-O5'	-7.73	1.52	1.59
34	BA	482	C	C2-N3	-7.73	1.29	1.35
35	BB	697	G	C2'-C1'	-7.73	1.44	1.53
40	BG	176	G	C5-C4	-7.73	1.32	1.38
41	BH	23	G	N7-C5	-7.73	1.34	1.39
85	AA	274	A	C3'-C2'	-7.73	1.44	1.52
85	AA	685	U	C4'-C3'	-7.73	1.44	1.53
85	AA	1257	A	C5-C4	-7.73	1.33	1.38
85	AA	1560	A	C8-N7	-7.73	1.26	1.31
35	BB	1148	U	O4'-C1'	-7.73	1.31	1.41
35	BB	1368	A	O3'-P	-7.73	1.51	1.61
35	BB	1437	U	P-O5'	-7.73	1.52	1.59
85	AA	804	A	O3'-P	-7.73	1.51	1.61
85	AA	1464	G	C5-C4	-7.73	1.32	1.38
34	BA	993	C	O3'-P	-7.73	1.51	1.61
34	BA	1102	A	P-O5'	-7.73	1.52	1.59
34	BA	1260	G	C2'-C1'	-7.73	1.44	1.53
34	BA	1451	A	O3'-P	-7.73	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1658	G	C3'-C2'	-7.73	1.44	1.52
35	BB	132	G	C1'-N9	-7.73	1.36	1.46
35	BB	136	A	N9-C4	-7.73	1.33	1.37
35	BB	1232	A	N9-C4	-7.73	1.33	1.37
35	BB	1464	G	N9-C4	-7.73	1.31	1.38
38	BE	26	G	O4'-C1'	-7.73	1.31	1.41
85	AA	1707	G	N9-C4	-7.73	1.31	1.38
35	BB	678	U	O3'-P	-7.73	1.51	1.61
40	BG	15	G	C6-N1	-7.73	1.34	1.39
40	BG	116	G	C2'-C1'	-7.73	1.44	1.53
85	AA	2128	G	C5-C4	-7.73	1.32	1.38
35	BB	582	G	P-O5'	-7.72	1.52	1.59
35	BB	1005	A	C1'-N9	-7.72	1.36	1.46
36	BC	62	A	P-O5'	-7.72	1.52	1.59
85	AA	1229	G	C3'-C2'	-7.72	1.44	1.52
34	BA	102	G	C2'-C1'	-7.72	1.44	1.53
34	BA	914	G	O3'-P	-7.72	1.51	1.61
34	BA	1179	U	P-O5'	-7.72	1.52	1.59
34	BA	1234	U	C2-N3	-7.72	1.32	1.37
34	BA	1803	A	C5-C4	-7.72	1.33	1.38
35	BB	393	A	C5-C4	-7.72	1.33	1.38
36	BC	44	A	C2'-C1'	-7.72	1.44	1.53
85	AA	1481	U	O3'-P	-7.72	1.51	1.61
34	BA	338	U	C2-N3	-7.72	1.32	1.37
34	BA	702	G	C6-N1	-7.72	1.34	1.39
34	BA	739	A	N7-C5	-7.72	1.34	1.39
35	BB	975	G	O3'-P	-7.72	1.51	1.61
37	BD	3	G	C5-C4	-7.72	1.32	1.38
41	BH	108	U	P-O5'	-7.72	1.52	1.59
34	BA	1325	G	C3'-C2'	-7.72	1.44	1.52
34	BA	1431	G	C1'-N9	-7.72	1.36	1.46
34	BA	1649	A	P-O5'	-7.72	1.52	1.59
35	BB	680	A	C1'-N9	-7.72	1.36	1.46
85	AA	705	G	C1'-N9	-7.72	1.36	1.46
34	BA	968	G	P-O5'	-7.72	1.52	1.59
34	BA	1195	G	C1'-N9	-7.72	1.36	1.46
35	BB	403	U	C2-N3	-7.72	1.32	1.37
35	BB	1051	U	N3-C4	-7.72	1.31	1.38
34	BA	23	A	C5-C4	-7.72	1.33	1.38
34	BA	47	U	P-O5'	-7.72	1.52	1.59
34	BA	369	A	P-O5'	-7.72	1.52	1.59
34	BA	920	U	C2'-C1'	-7.72	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	944	G	P-O5'	-7.72	1.52	1.59
34	BA	1243	A	P-O5'	-7.72	1.52	1.59
34	BA	1302	C	P-O5'	-7.72	1.52	1.59
35	BB	65	A	P-O5'	-7.72	1.52	1.59
35	BB	380	G	O3'-P	-7.72	1.51	1.61
35	BB	624	A	C2'-C1'	-7.72	1.44	1.53
85	AA	160	A	N7-C5	-7.72	1.34	1.39
85	AA	427	G	N1-C2	-7.72	1.31	1.37
85	AA	660	G	P-O5'	-7.72	1.52	1.59
85	AA	891	G	O3'-P	-7.72	1.51	1.61
85	AA	944	C	C4-N4	-7.72	1.27	1.33
85	AA	1103	A	C5'-C4'	7.72	1.60	1.51
85	AA	1575	G	O3'-P	-7.72	1.51	1.61
85	AA	2151	U	C2'-C1'	-7.72	1.44	1.53
34	BA	6	C	C2'-C1'	-7.71	1.44	1.53
34	BA	1113	A	O3'-P	-7.71	1.51	1.61
35	BB	879	G	C6-N1	-7.71	1.34	1.39
36	BC	63	G	P-O5'	-7.71	1.52	1.59
85	AA	1932	C	C5'-C4'	7.71	1.60	1.51
34	BA	434	U	C5'-C4'	7.71	1.60	1.51
35	BB	41	A	O4'-C1'	-7.71	1.31	1.41
35	BB	93	A	N9-C8	-7.71	1.31	1.37
35	BB	1053	G	O3'-P	-7.71	1.51	1.61
36	BC	45	C	O3'-P	-7.71	1.51	1.61
38	BE	50	G	C5-C4	-7.71	1.32	1.38
40	BG	142	A	O3'-P	-7.71	1.51	1.61
85	AA	2195	A	C2'-C1'	-7.71	1.44	1.53
34	BA	1551	G	C1'-N9	-7.71	1.36	1.46
34	BA	1641	G	C4'-O4'	-7.71	1.35	1.45
35	BB	387	G	C2'-C1'	-7.71	1.44	1.53
35	BB	496	C	C2'-C1'	-7.71	1.44	1.53
35	BB	1058	U	O3'-P	-7.71	1.51	1.61
85	AA	960	G	O3'-P	-7.71	1.51	1.61
85	AA	2234	C	C2'-C1'	-7.71	1.44	1.53
34	BA	27	G	N1-C2	-7.71	1.31	1.37
34	BA	322	U	P-O5'	-7.71	1.52	1.59
34	BA	611	A	C2'-C1'	-7.71	1.44	1.53
35	BB	1314	G	N1-C2	-7.71	1.31	1.37
85	AA	803	C	C2'-C1'	-7.71	1.44	1.53
85	AA	2202	G	C2'-C1'	-7.71	1.44	1.53
34	BA	36	A	N9-C4	-7.71	1.33	1.37
34	BA	734	G	N9-C4	-7.71	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	492	U	O3'-P	-7.71	1.51	1.61
35	BB	596	C	P-O5'	-7.71	1.52	1.59
35	BB	986	C	P-O5'	-7.71	1.52	1.59
85	AA	289	G	C3'-C2'	-7.71	1.44	1.52
34	BA	63	A	C3'-C2'	-7.71	1.44	1.52
34	BA	135	G	O3'-P	-7.71	1.51	1.61
34	BA	1511	C	C2'-C1'	-7.71	1.44	1.53
35	BB	1249	G	O3'-P	-7.71	1.51	1.61
35	BB	1425	A	C5-C4	-7.71	1.33	1.38
40	BG	175	G	C6-N1	-7.71	1.34	1.39
85	AA	538	A	N7-C5	-7.71	1.34	1.39
85	AA	852	C	P-O5'	-7.71	1.52	1.59
85	AA	2117	U	O3'-P	-7.71	1.51	1.61
34	BA	476	U	O3'-P	-7.71	1.51	1.61
34	BA	1023	G	N7-C5	-7.71	1.34	1.39
38	BE	130	G	N9-C4	7.71	1.44	1.38
40	BG	151	A	N9-C4	-7.71	1.33	1.37
85	AA	432	A	C5-C4	-7.71	1.33	1.38
34	BA	1458	A	N9-C4	-7.70	1.33	1.37
35	BB	1025	A	P-O5'	7.70	1.67	1.59
35	BB	1258	G	O3'-P	-7.70	1.51	1.61
35	BB	1400	C	C2'-C1'	-7.70	1.44	1.53
35	BB	1537	C	C2'-C1'	-7.70	1.44	1.53
85	AA	366	A	N3-C4	-7.70	1.30	1.34
85	AA	489	C	O3'-P	-7.70	1.51	1.61
85	AA	2237	G	N1-C2	-7.70	1.31	1.37
34	BA	475	A	P-O5'	-7.70	1.52	1.59
85	AA	85	U	O3'-P	-7.70	1.51	1.61
34	BA	495	A	N9-C4	-7.70	1.33	1.37
34	BA	1091	U	N3-C4	-7.70	1.31	1.38
34	BA	1097	G	N7-C5	-7.70	1.34	1.39
34	BA	1428	G	C6-N1	-7.70	1.34	1.39
34	BA	1683	C	C2-N3	-7.70	1.29	1.35
35	BB	89	C	O3'-P	-7.70	1.51	1.61
35	BB	988	G	C2'-C1'	-7.70	1.44	1.53
35	BB	1021	C	O3'-P	-7.70	1.51	1.61
35	BB	1283	C	C3'-C2'	-7.70	1.44	1.52
36	BC	120	G	C8-N7	-7.70	1.26	1.30
85	AA	1814	U	C2-N3	-7.70	1.32	1.37
34	BA	1435	A	N9-C8	-7.70	1.31	1.37
34	BA	1632	G	N7-C5	-7.70	1.34	1.39
35	BB	1161	G	C1'-N9	-7.70	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	186	U	C2-N3	-7.70	1.32	1.37
85	AA	1016	G	O3'-P	-7.70	1.51	1.61
34	BA	1110	A	C5-C4	-7.70	1.33	1.38
34	BA	1518	A	C5-C6	-7.70	1.34	1.41
35	BB	434	A	C5-C4	-7.70	1.33	1.38
34	BA	234	A	O3'-P	-7.70	1.51	1.61
34	BA	893	U	C3'-C2'	-7.70	1.44	1.52
34	BA	912	G	C4'-C3'	-7.70	1.44	1.53
35	BB	467	G	O3'-P	-7.70	1.51	1.61
36	BC	4	G	C4'-C3'	-7.70	1.44	1.53
38	BE	120	C	O3'-P	-7.70	1.51	1.61
85	AA	96	C	O3'-P	-7.70	1.51	1.61
85	AA	977	U	O3'-P	-7.70	1.51	1.61
85	AA	1109	G	C2'-C1'	-7.70	1.44	1.53
34	BA	1193	A	C2'-C1'	-7.69	1.44	1.53
34	BA	1830	A	O3'-P	-7.69	1.51	1.61
35	BB	829	C	C2'-C1'	-7.69	1.44	1.53
35	BB	1014	U	C2-N3	-7.69	1.32	1.37
35	BB	1470	G	N9-C4	-7.69	1.31	1.38
40	BG	179	C	C3'-C2'	-7.69	1.44	1.52
85	AA	177	A	C2'-C1'	-7.69	1.44	1.53
85	AA	2064	A	N9-C4	-7.69	1.33	1.37
34	BA	189	G	C2'-C1'	-7.69	1.44	1.53
34	BA	399	G	C2'-C1'	-7.69	1.44	1.53
34	BA	707	C	C2'-C1'	-7.69	1.44	1.53
34	BA	1115	A	P-O5'	-7.69	1.52	1.59
34	BA	1696	G	N7-C5	-7.69	1.34	1.39
34	BA	1703	A	P-O5'	-7.69	1.52	1.59
35	BB	1419	G	O3'-P	-7.69	1.51	1.61
40	BG	130	G	N9-C8	-7.69	1.32	1.37
85	AA	491	G	C6-N1	-7.69	1.34	1.39
85	AA	1460	G	N7-C5	-7.69	1.34	1.39
85	AA	1641	A	O3'-P	-7.69	1.51	1.61
34	BA	382	G	N1-C2	-7.69	1.31	1.37
34	BA	426	A	N7-C5	-7.69	1.34	1.39
35	BB	41	A	C5-C4	-7.69	1.33	1.38
35	BB	375	G	C5-C4	-7.69	1.32	1.38
35	BB	1030	U	P-O5'	-7.69	1.52	1.59
35	BB	1046	C	P-O5'	-7.69	1.52	1.59
37	BD	71	G	C6-N1	-7.69	1.34	1.39
85	AA	450	A	C3'-C2'	-7.69	1.44	1.52
85	AA	1959	G	C2'-C1'	-7.69	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2141	G	O3'-P	-7.69	1.51	1.61
34	BA	1139	G	O3'-P	-7.69	1.51	1.61
35	BB	14	C	C3'-C2'	-7.69	1.44	1.52
35	BB	1086	G	N9-C4	-7.69	1.31	1.38
35	BB	1177	U	C2'-C1'	-7.69	1.44	1.53
41	BH	16	A	N9-C8	-7.69	1.31	1.37
85	AA	56	U	C5'-C4'	7.69	1.60	1.51
85	AA	246	C	P-O5'	-7.69	1.52	1.59
34	BA	93	A	N7-C5	-7.69	1.34	1.39
34	BA	752	A	C4'-O4'	-7.69	1.35	1.45
35	BB	642	G	P-O5'	-7.69	1.52	1.59
85	AA	2193	A	C5-C6	-7.69	1.34	1.41
34	BA	934	G	N9-C8	-7.69	1.32	1.37
35	BB	490	G	N9-C8	-7.69	1.32	1.37
35	BB	543	G	O3'-P	-7.69	1.51	1.61
85	AA	498	C	P-O5'	-7.69	1.52	1.59
34	BA	934	G	C5-C4	-7.68	1.32	1.38
35	BB	584	A	P-O5'	-7.68	1.52	1.59
35	BB	661	G	C6-N1	-7.68	1.34	1.39
35	BB	795	A	C3'-C2'	-7.68	1.44	1.52
36	BC	9	G	N7-C5	-7.68	1.34	1.39
41	BH	29	G	C2-N2	-7.68	1.26	1.34
41	BH	128	G	C1'-N9	-7.68	1.36	1.46
85	AA	363	A	N3-C4	-7.68	1.30	1.34
85	AA	1479	U	C3'-C2'	-7.68	1.44	1.52
34	BA	791	A	N9-C4	-7.68	1.33	1.37
34	BA	965	A	N7-C5	-7.68	1.34	1.39
34	BA	1021	U	P-O5'	-7.68	1.52	1.59
34	BA	1474	G	N1-C2	-7.68	1.31	1.37
35	BB	622	G	N9-C4	-7.68	1.31	1.38
35	BB	661	G	C2'-C1'	-7.68	1.44	1.53
37	BD	110	G	O3'-P	-7.68	1.51	1.61
85	AA	349	C	P-O5'	-7.68	1.52	1.59
85	AA	648	G	O3'-P	-7.68	1.51	1.61
86	AB	50	U	P-O5'	-7.68	1.52	1.59
34	BA	381	A	P-O5'	-7.68	1.52	1.59
35	BB	496	C	C3'-C2'	-7.68	1.44	1.52
85	AA	51	A	N7-C5	-7.68	1.34	1.39
85	AA	1357	U	C4'-C3'	-7.68	1.44	1.53
34	BA	674	G	C1'-N9	-7.68	1.36	1.46
34	BA	1008	A	N9-C4	-7.68	1.33	1.37
34	BA	1075	U	C3'-C2'	-7.68	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1232	C	C3'-C2'	-7.68	1.44	1.52
34	BA	1330	G	P-O5'	-7.68	1.52	1.59
35	BB	275	A	N9-C4	-7.68	1.33	1.37
36	BC	135	A	C2'-C1'	-7.68	1.45	1.53
38	BE	23	G	C2'-C1'	-7.68	1.45	1.53
85	AA	896	C	C2'-C1'	-7.68	1.45	1.53
85	AA	1618	G	P-O5'	-7.68	1.52	1.59
34	BA	412	G	N7-C5	-7.68	1.34	1.39
35	BB	506	G	O3'-P	-7.68	1.51	1.61
35	BB	1469	A	C1'-N9	-7.68	1.36	1.46
37	BD	7	G	C2-N2	-7.68	1.26	1.34
34	BA	425	G	P-O5'	-7.68	1.52	1.59
34	BA	763	U	O4'-C1'	-7.68	1.31	1.41
34	BA	1203	G	N9-C8	-7.68	1.32	1.37
34	BA	1390	C	O3'-P	-7.68	1.51	1.61
35	BB	19	C	C2'-C1'	-7.68	1.45	1.53
35	BB	442	U	O4'-C1'	-7.68	1.31	1.41
35	BB	1141	A	C2'-C1'	-7.68	1.45	1.53
35	BB	1210	U	C3'-C2'	-7.68	1.44	1.52
35	BB	1252	G	C6-N1	-7.68	1.34	1.39
37	BD	96	C	C2'-C1'	-7.68	1.45	1.53
40	BG	113	G	N9-C4	-7.68	1.31	1.38
41	BH	128	G	C2-N2	-7.68	1.26	1.34
85	AA	892	C	O3'-P	-7.68	1.51	1.61
85	AA	1242	A	C2'-C1'	-7.68	1.45	1.53
34	BA	15	G	C1'-N9	-7.67	1.36	1.46
34	BA	615	A	C2'-C1'	-7.67	1.45	1.53
35	BB	709	G	C3'-C2'	-7.67	1.44	1.52
35	BB	1292	G	O3'-P	-7.67	1.51	1.61
35	BB	1351	G	C3'-C2'	-7.67	1.44	1.52
38	BE	28	C	C1'-N1	-7.67	1.36	1.46
40	BG	182	G	N9-C4	-7.67	1.31	1.38
85	AA	159	G	C1'-N9	-7.67	1.36	1.46
85	AA	161	A	C3'-C2'	-7.67	1.44	1.52
34	BA	1104	C	O3'-P	-7.67	1.51	1.61
35	BB	1054	G	N1-C2	-7.67	1.31	1.37
41	BH	38	G	C2-N2	-7.67	1.26	1.34
34	BA	491	U	C2-N3	-7.67	1.32	1.37
34	BA	547	C	P-O5'	7.67	1.67	1.59
35	BB	28	G	O3'-P	-7.67	1.51	1.61
35	BB	666	A	O3'-P	-7.67	1.51	1.61
35	BB	1430	G	C3'-C2'	-7.67	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	897	A	C3'-C2'	-7.67	1.44	1.52
85	AA	939	A	C2'-C1'	-7.67	1.45	1.53
85	AA	1165	C	C2'-C1'	-7.67	1.45	1.53
85	AA	1262	A	O3'-P	-7.67	1.51	1.61
34	BA	177	G	P-O5'	-7.67	1.52	1.59
34	BA	907	A	C1'-N9	-7.67	1.36	1.46
36	BC	116	C	O3'-P	-7.67	1.51	1.61
85	AA	2019	G	N9-C4	-7.67	1.31	1.38
34	BA	735	A	O3'-P	-7.67	1.51	1.61
34	BA	900	A	O3'-P	-7.67	1.51	1.61
34	BA	965	A	P-O5'	-7.67	1.52	1.59
34	BA	1435	A	O3'-P	-7.67	1.51	1.61
35	BB	782	A	C2'-C1'	-7.67	1.45	1.53
35	BB	1270	C	O3'-P	-7.67	1.51	1.61
40	BG	153	C	P-O5'	-7.67	1.52	1.59
85	AA	813	G	C2'-C1'	-7.67	1.45	1.53
85	AA	1261	U	P-O5'	-7.67	1.52	1.59
85	AA	2191	C	C2-N3	-7.67	1.29	1.35
34	BA	567	U	P-O5'	-7.67	1.52	1.59
34	BA	816	G	C5-C6	-7.67	1.34	1.42
34	BA	1641	G	O4'-C1'	-7.67	1.31	1.41
35	BB	391	G	C5-C4	-7.67	1.32	1.38
35	BB	426	A	C2'-C1'	-7.67	1.45	1.53
35	BB	441	G	C3'-C2'	-7.67	1.44	1.52
35	BB	449	C	C2-N3	-7.67	1.29	1.35
35	BB	1462	G	C3'-O3'	7.67	1.52	1.42
37	BD	24	U	N1-C2	-7.67	1.31	1.38
38	BE	112	G	O3'-P	-7.67	1.51	1.61
85	AA	190	A	P-O5'	-7.67	1.52	1.59
85	AA	502	A	P-O5'	-7.67	1.52	1.59
85	AA	538	A	C6-N6	-7.67	1.27	1.33
85	AA	638	G	C4'-C3'	-7.67	1.44	1.53
85	AA	2028	G	N9-C4	-7.67	1.31	1.38
35	BB	693	U	O3'-P	-7.66	1.51	1.61
35	BB	1360	A	C8-N7	-7.66	1.26	1.31
40	BG	97	G	C2'-C1'	-7.66	1.45	1.53
34	BA	937	G	C2'-C1'	-7.66	1.45	1.53
38	BE	123	A	C1'-N9	-7.66	1.36	1.46
85	AA	1217	U	C4'-C3'	-7.66	1.44	1.53
34	BA	465	A	C4'-C3'	-7.66	1.44	1.53
34	BA	846	U	O3'-P	-7.66	1.51	1.61
34	BA	1073	G	C5-C4	-7.66	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1667	G	C2'-C1'	-7.66	1.45	1.53
34	BA	1673	G	C2'-C1'	-7.66	1.45	1.53
35	BB	780	U	C2'-C1'	-7.66	1.45	1.53
35	BB	1316	U	P-O5'	-7.66	1.52	1.59
35	BB	1476	C	O3'-P	-7.66	1.51	1.61
38	BE	94	U	C2'-C1'	-7.66	1.45	1.53
39	BF	39	C	C4'-C3'	-7.66	1.44	1.53
40	BG	59	G	N9-C8	-7.66	1.32	1.37
40	BG	105	A	O3'-P	-7.66	1.51	1.61
85	AA	1155	A	P-O5'	-7.66	1.52	1.59
85	AA	1562	U	C2'-C1'	-7.66	1.45	1.53
85	AA	1690	A	N9-C4	-7.66	1.33	1.37
85	AA	2037	A	N3-C4	-7.66	1.30	1.34
34	BA	56	G	C2'-C1'	-7.66	1.45	1.53
34	BA	99	G	C2'-C1'	-7.66	1.45	1.53
34	BA	503	C	C3'-C2'	-7.66	1.44	1.52
34	BA	800	G	C4'-C3'	-7.66	1.44	1.53
34	BA	1327	G	C6-N1	-7.66	1.34	1.39
35	BB	653	G	N7-C5	-7.66	1.34	1.39
35	BB	776	U	C4'-C3'	-7.66	1.44	1.53
37	BD	93	G	C2'-C1'	-7.66	1.45	1.53
85	AA	1800	U	P-O5'	-7.66	1.52	1.59
35	BB	1106	G	P-O5'	-7.66	1.52	1.59
34	BA	374	U	C3'-C2'	-7.66	1.44	1.52
34	BA	1047	U	P-O5'	-7.66	1.52	1.59
34	BA	1527	G	C1'-N9	-7.66	1.36	1.46
34	BA	1589	U	N3-C4	-7.66	1.31	1.38
34	BA	1804	A	C5-C4	-7.66	1.33	1.38
35	BB	1433	U	C2-N3	-7.66	1.32	1.37
34	BA	759	A	O4'-C1'	-7.65	1.31	1.41
34	BA	999	G	C3'-C2'	-7.65	1.44	1.52
35	BB	1022	C	C2-N3	-7.65	1.29	1.35
35	BB	1366	C	C4'-C3'	-7.65	1.44	1.53
40	BG	67	A	C2'-C1'	-7.65	1.45	1.53
34	BA	108	A	N7-C5	-7.65	1.34	1.39
34	BA	317	U	P-O5'	-7.65	1.52	1.59
34	BA	1219	G	P-O5'	-7.65	1.52	1.59
34	BA	1402	C	P-O5'	-7.65	1.52	1.59
35	BB	371	C	O3'-P	-7.65	1.51	1.61
35	BB	985	A	P-O5'	-7.65	1.52	1.59
35	BB	1206	G	N1-C2	-7.65	1.31	1.37
35	BB	1471	A	P-O5'	-7.65	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	96	C	C2-N3	-7.65	1.29	1.35
85	AA	159	G	C3'-C2'	-7.65	1.44	1.52
85	AA	1128	G	P-O5'	-7.65	1.52	1.59
85	AA	1431	U	P-O5'	-7.65	1.52	1.59
85	AA	2204	A	C1'-N9	-7.65	1.36	1.46
6	A5	200	GLY	CA-C	-7.65	1.39	1.51
34	BA	165	C	C4'-C3'	-7.65	1.44	1.53
34	BA	1068	C	O3'-P	-7.65	1.51	1.61
35	BB	373	C	C2-N3	-7.65	1.29	1.35
35	BB	458	U	C2'-C1'	-7.65	1.45	1.53
35	BB	843	G	C1'-N9	-7.65	1.36	1.46
38	BE	114	G	C2'-C1'	-7.65	1.45	1.53
85	AA	460	U	C2-N3	-7.65	1.32	1.37
35	BB	1281	G	C5-C4	-7.65	1.32	1.38
36	BC	136	G	O3'-P	-7.65	1.51	1.61
36	BC	146	U	O3'-P	-7.65	1.51	1.61
36	BC	155	C	C2'-C1'	-7.65	1.45	1.53
85	AA	1493	A	N3-C4	-7.65	1.30	1.34
85	AA	1795	C	O3'-P	-7.65	1.51	1.61
85	AA	2222	G	P-O5'	-7.65	1.52	1.59
34	BA	64	A	N7-C5	-7.65	1.34	1.39
34	BA	661	C	C3'-C2'	-7.65	1.44	1.52
34	BA	745	A	P-O5'	-7.65	1.52	1.59
34	BA	1526	C	C2'-C1'	-7.65	1.45	1.53
34	BA	1800	G	N9-C8	-7.65	1.32	1.37
35	BB	12	G	O3'-P	-7.65	1.51	1.61
85	AA	790	A	N3-C4	-7.65	1.30	1.34
35	BB	1079	G	C2'-C1'	-7.65	1.45	1.53
41	BH	44	A	C8-N7	-7.65	1.26	1.31
34	BA	592	G	C6-N1	-7.64	1.34	1.39
34	BA	1454	G	P-O5'	-7.64	1.52	1.59
35	BB	1180	G	N3-C4	-7.64	1.30	1.35
38	BE	131	C	O3'-P	-7.64	1.51	1.61
40	BG	102	G	N9-C4	7.64	1.44	1.38
85	AA	2113	U	C2-N3	-7.64	1.32	1.37
34	BA	445	C	C3'-C2'	-7.64	1.44	1.52
34	BA	1029	C	O3'-P	-7.64	1.51	1.61
34	BA	1239	G	C3'-C2'	-7.64	1.44	1.52
34	BA	1617	U	P-O5'	-7.64	1.52	1.59
35	BB	548	A	N9-C4	-7.64	1.33	1.37
39	BF	36	G	C6-N1	-7.64	1.34	1.39
40	BG	40	G	N9-C4	-7.64	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	109	G	O3'-P	-7.64	1.51	1.61
85	AA	207	G	N7-C5	-7.64	1.34	1.39
85	AA	423	G	O3'-P	-7.64	1.51	1.61
85	AA	646	C	C2'-C1'	-7.64	1.45	1.53
85	AA	938	A	N9-C8	-7.64	1.31	1.37
85	AA	1886	U	O3'-P	-7.64	1.51	1.61
34	BA	201	A	N3-C4	-7.64	1.30	1.34
34	BA	1599	A	N7-C5	-7.64	1.34	1.39
34	BA	1802	C	N1-C6	-7.64	1.32	1.37
35	BB	649	A	N9-C4	-7.64	1.33	1.37
40	BG	79	U	C1'-N1	-7.64	1.36	1.46
85	AA	687	G	C8-N7	-7.64	1.26	1.30
85	AA	880	A	C3'-C2'	-7.64	1.44	1.52
85	AA	1161	U	O3'-P	-7.64	1.51	1.61
34	BA	724	A	N7-C5	-7.64	1.34	1.39
34	BA	776	U	P-O5'	-7.64	1.52	1.59
34	BA	1523	U	O3'-P	-7.64	1.51	1.61
35	BB	435	A	N7-C5	-7.64	1.34	1.39
35	BB	562	A	C2'-C1'	-7.64	1.45	1.53
36	BC	123	G	P-O5'	-7.64	1.52	1.59
38	BE	15	A	P-O5'	-7.64	1.52	1.59
85	AA	870	U	O3'-P	-7.64	1.51	1.61
34	BA	69	C	C3'-C2'	-7.64	1.44	1.52
34	BA	365	A	O3'-P	-7.64	1.51	1.61
34	BA	414	A	N7-C5	-7.64	1.34	1.39
34	BA	924	U	O3'-P	-7.64	1.51	1.61
34	BA	1518	A	O3'-P	-7.64	1.51	1.61
34	BA	1601	C	C3'-C2'	-7.64	1.44	1.52
35	BB	412	A	N7-C5	-7.64	1.34	1.39
35	BB	442	U	C3'-C2'	-7.64	1.44	1.52
35	BB	1165	A	C1'-N9	-7.64	1.36	1.46
35	BB	1414	A	N9-C4	-7.64	1.33	1.37
35	BB	1423	U	O3'-P	-7.64	1.51	1.61
37	BD	96	C	O3'-P	-7.64	1.51	1.61
38	BE	27	A	C3'-C2'	-7.64	1.44	1.52
38	BE	186	C	O3'-P	-7.64	1.51	1.61
40	BG	152	G	C3'-C2'	-7.64	1.44	1.52
85	AA	1259	U	C2'-C1'	-7.64	1.45	1.53
85	AA	1989	A	P-O5'	-7.64	1.52	1.59
34	BA	68	A	P-O5'	-7.63	1.52	1.59
34	BA	971	G	O3'-P	-7.63	1.51	1.61
35	BB	587	A	N9-C4	-7.63	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1029	U	C1'-N1	-7.63	1.36	1.46
35	BB	1349	U	O3'-P	-7.63	1.51	1.61
39	BF	39	C	C3'-C2'	-7.63	1.44	1.52
85	AA	1839	G	O3'-P	-7.63	1.51	1.61
34	BA	566	G	C8-N7	-7.63	1.26	1.30
34	BA	889	U	O3'-P	-7.63	1.51	1.61
34	BA	935	A	N9-C4	-7.63	1.33	1.37
34	BA	1013	A	C5-C4	-7.63	1.33	1.38
34	BA	1585	A	C4'-O4'	-7.63	1.35	1.45
35	BB	1396	G	O3'-P	-7.63	1.51	1.61
37	BD	102	C	O3'-P	-7.63	1.51	1.61
34	BA	1215	U	O3'-P	-7.63	1.51	1.61
34	BA	1454	G	C8-N7	-7.63	1.26	1.30
34	BA	1461	A	O3'-P	-7.63	1.51	1.61
34	BA	1545	C	C3'-C2'	-7.63	1.44	1.52
38	BE	191	U	C3'-C2'	-7.63	1.44	1.52
85	AA	679	A	C2'-C1'	-7.63	1.45	1.53
85	AA	973	U	C3'-O3'	7.63	1.52	1.42
85	AA	1921	G	C5-C6	7.63	1.50	1.42
35	BB	1039	A	N3-C4	-7.63	1.30	1.34
85	AA	20	G	C2'-C1'	-7.63	1.45	1.53
35	BB	1326	U	C3'-C2'	-7.63	1.44	1.52
37	BD	110	G	C1'-N9	-7.63	1.36	1.46
85	AA	419	A	C2'-C1'	-7.63	1.45	1.53
34	BA	23	A	N7-C5	-7.63	1.34	1.39
35	BB	1278	A	N9-C4	-7.63	1.33	1.37
40	BG	164	U	C2'-C1'	-7.63	1.45	1.53
85	AA	436	G	O3'-P	-7.63	1.51	1.61
85	AA	1526	G	N7-C5	-7.63	1.34	1.39
34	BA	413	A	C8-N7	-7.62	1.26	1.31
34	BA	755	G	C2'-C1'	-7.62	1.45	1.53
34	BA	1258	G	N7-C5	-7.62	1.34	1.39
34	BA	1300	G	O3'-P	-7.62	1.51	1.61
34	BA	1594	G	N7-C5	-7.62	1.34	1.39
36	BC	91	G	N9-C8	-7.62	1.32	1.37
34	BA	1454	G	C1'-N9	-7.62	1.36	1.46
35	BB	8	U	C4'-C3'	-7.62	1.44	1.53
35	BB	546	A	C6-N1	7.62	1.40	1.35
85	AA	118	C	O3'-P	-7.62	1.52	1.61
85	AA	162	A	N9-C4	-7.62	1.33	1.37
85	AA	1855	U	C2-N3	-7.62	1.32	1.37
85	AA	2065	U	P-O5'	-7.62	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1473	A	O3'-P	-7.62	1.52	1.61
34	BA	1709	A	C4'-O4'	-7.62	1.35	1.45
35	BB	615	A	O3'-P	-7.62	1.52	1.61
35	BB	830	G	C3'-C2'	-7.62	1.44	1.52
35	BB	1514	G	N7-C5	-7.62	1.34	1.39
41	BH	134	U	C2'-C1'	-7.62	1.45	1.53
85	AA	365	G	C5-C4	-7.62	1.33	1.38
85	AA	448	G	P-O5'	-7.62	1.52	1.59
85	AA	1276	A	O3'-P	-7.62	1.52	1.61
85	AA	2182	A	C5-C6	-7.62	1.34	1.41
34	BA	446	U	C2-N3	-7.62	1.32	1.37
34	BA	1606	A	C2'-C1'	-7.62	1.45	1.53
34	BA	1661	U	C5'-C4'	-7.62	1.42	1.51
85	AA	672	U	N1-C2	-7.62	1.31	1.38
85	AA	1538	C	C4'-C3'	-7.62	1.44	1.53
34	BA	222	C	O3'-P	-7.62	1.52	1.61
35	BB	617	C	C2-N3	-7.62	1.29	1.35
85	AA	758	C	O3'-P	-7.62	1.52	1.61
34	BA	1202	G	C6-N1	-7.62	1.34	1.39
35	BB	425	G	C1'-N9	-7.62	1.36	1.46
35	BB	1440	A	P-O5'	-7.62	1.52	1.59
40	BG	142	A	C8-N7	-7.62	1.26	1.31
85	AA	2098	A	C1'-N9	-7.62	1.36	1.46
34	BA	1067	G	C3'-C2'	-7.62	1.44	1.52
34	BA	1255	G	P-O5'	-7.62	1.52	1.59
35	BB	1398	A	N9-C8	-7.62	1.31	1.37
38	BE	69	C	O3'-P	-7.62	1.52	1.61
40	BG	66	C	O3'-P	-7.62	1.52	1.61
85	AA	436	G	C3'-C2'	-7.62	1.44	1.52
85	AA	1216	A	O3'-P	-7.62	1.52	1.61
35	BB	1268	C	P-O5'	-7.61	1.52	1.59
36	BC	101	U	O3'-P	-7.61	1.52	1.61
85	AA	107	A	C1'-N9	-7.61	1.36	1.46
85	AA	184	A	N9-C4	-7.61	1.33	1.37
34	BA	1555	G	C3'-C2'	-7.61	1.44	1.52
34	BA	1574	C	O3'-P	-7.61	1.52	1.61
35	BB	127	U	C2-N3	-7.61	1.32	1.37
35	BB	1368	A	C1'-N9	-7.61	1.36	1.46
37	BD	108	G	N9-C4	-7.61	1.31	1.38
34	BA	487	A	C5-C4	-7.61	1.33	1.38
85	AA	75	U	P-O5'	-7.61	1.52	1.59
85	AA	1221	G	N9-C8	-7.61	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	33	C	C2'-C1'	-7.61	1.45	1.53
34	BA	75	U	O3'-P	-7.61	1.52	1.61
34	BA	419	U	C1'-N1	-7.61	1.36	1.46
34	BA	427	G	N1-C2	-7.61	1.31	1.37
35	BB	399	A	N3-C4	-7.61	1.30	1.34
35	BB	450	A	C5-C4	-7.61	1.33	1.38
35	BB	543	G	N3-C4	-7.61	1.30	1.35
85	AA	274	A	C2'-C1'	-7.61	1.45	1.53
85	AA	713	G	C2'-C1'	-7.61	1.45	1.53
35	BB	435	A	C1'-N9	-7.61	1.36	1.46
35	BB	1251	G	C6-N1	-7.61	1.34	1.39
35	BB	1386	C	C3'-C2'	-7.61	1.44	1.52
37	BD	105	G	C2'-C1'	-7.61	1.45	1.53
85	AA	263	A	O3'-P	-7.61	1.52	1.61
85	AA	442	G	C3'-C2'	-7.61	1.44	1.52
85	AA	1451	U	O3'-P	-7.61	1.52	1.61
35	BB	401	U	C2'-C1'	-7.60	1.45	1.53
35	BB	90	G	P-O5'	-7.60	1.52	1.59
35	BB	112	G	C4'-C3'	-7.60	1.44	1.53
35	BB	528	G	P-O5'	-7.60	1.52	1.59
35	BB	562	A	O3'-P	-7.60	1.52	1.61
38	BE	176	G	C1'-N9	-7.60	1.36	1.46
41	BH	20	A	C5-C4	-7.60	1.33	1.38
41	BH	37	U	C4'-C3'	-7.60	1.44	1.53
85	AA	1573	A	P-O5'	-7.60	1.52	1.59
35	BB	43	G	O3'-P	-7.60	1.52	1.61
34	BA	799	A	C4'-C3'	7.60	1.61	1.53
34	BA	843	G	N1-C2	-7.60	1.31	1.37
34	BA	1532	G	P-O5'	-7.60	1.52	1.59
35	BB	376	A	N9-C4	-7.60	1.33	1.37
35	BB	972	C	C2'-C1'	-7.60	1.45	1.53
35	BB	1433	U	P-O5'	-7.60	1.52	1.59
35	BB	1453	G	C4'-C3'	-7.60	1.44	1.53
37	BD	55	A	C2'-C1'	-7.60	1.45	1.53
85	AA	178	U	N3-C4	-7.60	1.31	1.38
34	BA	15	G	C8-N7	-7.60	1.26	1.30
34	BA	710	A	N9-C4	-7.60	1.33	1.37
34	BA	927	A	C2'-C1'	-7.60	1.45	1.53
34	BA	1064	A	O3'-P	-7.60	1.52	1.61
34	BA	1425	G	P-O5'	-7.60	1.52	1.59
34	BA	1701	U	C4'-C3'	-7.60	1.44	1.53
34	BA	1793	G	C2-N2	-7.60	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	90	G	O3'-P	-7.60	1.52	1.61
85	AA	106	G	C2'-C1'	-7.60	1.45	1.53
85	AA	1155	A	C2'-C1'	-7.60	1.45	1.53
85	AA	1462	A	C4'-C3'	-7.60	1.44	1.53
85	AA	2052	U	O3'-P	-7.60	1.52	1.61
34	BA	303	C	O4'-C1'	-7.60	1.31	1.41
34	BA	856	G	C5-C4	-7.60	1.33	1.38
34	BA	290	G	C5-C4	-7.59	1.33	1.38
34	BA	807	U	P-O5'	-7.59	1.52	1.59
35	BB	1178	A	C4'-C3'	-7.59	1.44	1.53
85	AA	696	G	C2'-C1'	-7.59	1.45	1.53
34	BA	919	A	O3'-P	-7.59	1.52	1.61
35	BB	501	G	N7-C5	-7.59	1.34	1.39
34	BA	210	G	C3'-C2'	-7.59	1.44	1.52
34	BA	1150	A	N7-C5	-7.59	1.34	1.39
34	BA	1210	A	C1'-N9	-7.59	1.36	1.46
34	BA	1474	G	P-O5'	-7.59	1.52	1.59
40	BG	30	C	C2-N3	-7.59	1.29	1.35
85	AA	1198	U	C3'-C2'	-7.59	1.44	1.52
85	AA	2073	U	C2'-C1'	-7.59	1.45	1.53
34	BA	583	G	P-O5'	-7.59	1.52	1.59
34	BA	1834	A	O3'-P	-7.59	1.52	1.61
35	BB	1441	C	C3'-C2'	-7.59	1.44	1.52
85	AA	699	U	C2-N3	-7.59	1.32	1.37
85	AA	790	A	O3'-P	-7.59	1.52	1.61
85	AA	1135	U	C3'-C2'	-7.59	1.44	1.52
85	AA	2214	A	O3'-P	-7.59	1.52	1.61
34	BA	761	U	C2'-C1'	-7.59	1.45	1.53
34	BA	1588	U	C2-N3	-7.59	1.32	1.37
35	BB	771	U	O3'-P	-7.59	1.52	1.61
35	BB	1086	G	P-O5'	-7.59	1.52	1.59
85	AA	1196	C	C1'-N1	-7.59	1.36	1.46
35	BB	389	G	N7-C5	-7.59	1.34	1.39
35	BB	692	G	C2'-C1'	-7.59	1.45	1.53
35	BB	810	G	C5-C4	-7.59	1.33	1.38
36	BC	9	G	C5-C4	-7.59	1.33	1.38
85	AA	99	U	C4'-C3'	-7.59	1.44	1.53
85	AA	1130	G	P-O5'	-7.59	1.52	1.59
85	AA	2121	G	P-O5'	-7.59	1.52	1.59
34	BA	734	G	N9-C8	-7.58	1.32	1.37
36	BC	3	C	C3'-C2'	-7.58	1.44	1.52
38	BE	43	A	N9-C4	-7.58	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	272	C	C2'-C1'	-7.58	1.45	1.53
34	BA	418	G	O3'-P	-7.58	1.52	1.61
34	BA	480	G	N3-C4	-7.58	1.30	1.35
34	BA	947	A	C1'-N9	-7.58	1.36	1.46
34	BA	1440	C	O3'-P	-7.58	1.52	1.61
34	BA	1511	C	C1'-N1	-7.58	1.36	1.46
34	BA	1695	G	N1-C2	-7.58	1.31	1.37
35	BB	131	A	C2'-C1'	-7.58	1.45	1.53
35	BB	799	A	C8-N7	-7.58	1.26	1.31
35	BB	1096	G	C1'-N9	-7.58	1.36	1.46
40	BG	93	U	O3'-P	-7.58	1.52	1.61
34	BA	412	G	O3'-P	-7.58	1.52	1.61
34	BA	452	A	C8-N7	-7.58	1.26	1.31
34	BA	785	G	C2-N2	-7.58	1.26	1.34
35	BB	1045	G	C6-N1	-7.58	1.34	1.39
35	BB	1359	G	C5-C4	-7.58	1.33	1.38
40	BG	61	A	N9-C4	-7.58	1.33	1.37
40	BG	169	A	O3'-P	-7.58	1.52	1.61
85	AA	63	G	C3'-C2'	-7.58	1.44	1.52
85	AA	117	C	P-O5'	-7.58	1.52	1.59
85	AA	513	G	P-O5'	-7.58	1.52	1.59
85	AA	2181	G	O3'-P	-7.58	1.52	1.61
86	AB	8	U	C2'-C1'	-7.58	1.45	1.53
34	BA	498	A	C2'-C1'	-7.58	1.45	1.53
34	BA	943	G	O3'-P	-7.58	1.52	1.61
34	BA	1310	C	O3'-P	-7.58	1.52	1.61
35	BB	589	U	C2'-C1'	-7.58	1.45	1.53
35	BB	1290	C	C3'-C2'	-7.58	1.44	1.52
85	AA	623	G	O3'-P	-7.58	1.52	1.61
34	BA	289	A	C8-N7	-7.58	1.26	1.31
34	BA	706	C	P-O5'	-7.58	1.52	1.59
34	BA	1323	G	N9-C4	-7.58	1.31	1.38
34	BA	1552	C	P-O5'	-7.58	1.52	1.59
35	BB	1431	G	O3'-P	-7.58	1.52	1.61
40	BG	174	G	C4'-O4'	-7.58	1.35	1.45
85	AA	867	G	P-O5'	-7.58	1.52	1.59
85	AA	1567	C	P-O5'	-7.58	1.52	1.59
34	BA	422	C	C3'-C2'	-7.58	1.44	1.52
34	BA	1685	C	C2'-C1'	-7.58	1.45	1.53
35	BB	752	A	N9-C4	-7.58	1.33	1.37
34	BA	1119	A	C1'-N9	-7.58	1.36	1.46
35	BB	880	G	N7-C5	-7.58	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1193	G	N9-C4	-7.58	1.31	1.38
35	BB	1460	G	O3'-P	-7.58	1.52	1.61
36	BC	23	G	C3'-C2'	-7.58	1.44	1.52
38	BE	59	U	C2'-C1'	-7.58	1.45	1.53
85	AA	12	U	O3'-P	-7.58	1.52	1.61
85	AA	557	G	C2'-C1'	-7.58	1.45	1.53
85	AA	1291	A	N7-C5	-7.58	1.34	1.39
85	AA	1503	G	C2'-C1'	-7.58	1.45	1.53
34	BA	839	U	C2'-C1'	-7.57	1.45	1.53
35	BB	374	A	O3'-P	-7.57	1.52	1.61
35	BB	645	C	C2'-C1'	-7.57	1.45	1.53
37	BD	82	G	N1-C2	-7.57	1.31	1.37
85	AA	2182	A	C8-N7	-7.57	1.26	1.31
34	BA	922	C	C4'-C3'	-7.57	1.44	1.53
85	AA	1281	G	C3'-C2'	-7.57	1.44	1.52
85	AA	1440	C	O3'-P	-7.57	1.52	1.61
34	BA	827	A	N9-C4	-7.57	1.33	1.37
34	BA	1095	G	C4'-C3'	-7.57	1.44	1.53
34	BA	1840	C	C2'-C1'	-7.57	1.45	1.53
85	AA	528	U	O3'-P	-7.57	1.52	1.61
85	AA	1869	U	O3'-P	-7.57	1.52	1.61
34	BA	325	A	O3'-P	-7.57	1.52	1.61
35	BB	779	C	C1'-N1	-7.57	1.36	1.46
35	BB	1245	A	P-O5'	-7.57	1.52	1.59
85	AA	711	C	O3'-P	-7.57	1.52	1.61
34	BA	1160	U	C2'-C1'	-7.57	1.45	1.53
35	BB	134	G	C2'-C1'	-7.57	1.45	1.53
36	BC	9	G	O4'-C1'	-7.57	1.31	1.41
37	BD	45	U	O3'-P	-7.57	1.52	1.61
85	AA	1252	A	N9-C4	-7.57	1.33	1.37
85	AA	1520	A	N7-C5	-7.57	1.34	1.39
85	AA	1637	C	O3'-P	-7.57	1.52	1.61
85	AA	1907	U	O3'-P	-7.57	1.52	1.61
85	AA	2237	G	C3'-C2'	-7.57	1.44	1.52
34	BA	709	C	P-O5'	-7.57	1.52	1.59
34	BA	1331	G	N7-C5	-7.57	1.34	1.39
34	BA	1450	G	N9-C4	-7.57	1.31	1.38
34	BA	1621	U	O3'-P	-7.57	1.52	1.61
35	BB	101	U	C2'-C1'	-7.57	1.45	1.53
35	BB	375	G	C6-N1	-7.57	1.34	1.39
35	BB	1360	A	N9-C8	-7.57	1.31	1.37
41	BH	44	A	N3-C4	-7.57	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	470	C	C2-N3	-7.56	1.29	1.35
85	AA	1695	G	C2'-C1'	-7.56	1.45	1.53
34	BA	1332	U	O3'-P	-7.56	1.52	1.61
35	BB	460	C	C2-N3	-7.56	1.29	1.35
35	BB	590	G	C6-N1	-7.56	1.34	1.39
85	AA	392	G	C1'-N9	-7.56	1.36	1.46
85	AA	497	G	C3'-C2'	-7.56	1.44	1.52
85	AA	705	G	P-O5'	-7.56	1.52	1.59
34	BA	50	G	C3'-C2'	-7.56	1.44	1.52
34	BA	995	A	C2'-C1'	-7.56	1.45	1.53
38	BE	121	G	N9-C4	-7.56	1.31	1.38
40	BG	136	G	O3'-P	-7.56	1.52	1.61
85	AA	836	A	O3'-P	-7.56	1.52	1.61
85	AA	1166	C	O3'-P	-7.56	1.52	1.61
34	BA	465	A	C1'-N9	-7.56	1.36	1.46
34	BA	1657	A	N3-C4	-7.56	1.30	1.34
34	BA	1684	A	C1'-N9	-7.56	1.36	1.46
35	BB	399	A	C1'-N9	-7.56	1.36	1.46
35	BB	788	U	N3-C4	-7.56	1.31	1.38
38	BE	19	G	O3'-P	-7.56	1.52	1.61
41	BH	46	C	O3'-P	-7.56	1.52	1.61
85	AA	542	G	O3'-P	-7.56	1.52	1.61
34	BA	1297	G	O3'-P	-7.56	1.52	1.61
35	BB	1054	G	C3'-C2'	-7.56	1.44	1.52
36	BC	35	C	C2'-C1'	-7.56	1.45	1.53
38	BE	128	G	C6-N1	-7.56	1.34	1.39
85	AA	1144	G	C3'-C2'	-7.56	1.44	1.52
85	AA	1206	A	N7-C5	-7.56	1.34	1.39
34	BA	1275	G	N1-C2	-7.56	1.31	1.37
34	BA	1294	C	O4'-C1'	-7.56	1.31	1.41
85	AA	1296	G	P-O5'	-7.56	1.52	1.59
35	BB	35	G	N3-C4	-7.55	1.30	1.35
35	BB	1408	G	C2'-C1'	-7.55	1.45	1.53
36	BC	115	G	C3'-C2'	-7.55	1.44	1.52
37	BD	102	C	C3'-C2'	-7.55	1.44	1.52
40	BG	110	U	C4'-O4'	-7.55	1.35	1.45
85	AA	620	U	O3'-P	-7.55	1.52	1.61
34	BA	1843	G	O3'-P	-7.55	1.52	1.61
35	BB	462	G	N9-C4	-7.55	1.31	1.38
35	BB	495	A	C2'-C1'	-7.55	1.45	1.53
35	BB	1254	G	N3-C4	-7.55	1.30	1.35
85	AA	478	U	P-O5'	-7.55	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1149	A	C2'-C1'	-7.55	1.45	1.53
34	BA	716	C	O3'-P	-7.55	1.52	1.61
35	BB	962	U	C2'-C1'	-7.55	1.45	1.53
36	BC	6	G	C8-N7	-7.55	1.26	1.30
57	BX	82	PHE	CB-CG	7.55	1.64	1.51
85	AA	1897	A	O3'-P	-7.55	1.52	1.61
85	AA	2020	C	P-O5'	-7.55	1.52	1.59
34	BA	606	G	N9-C4	7.55	1.44	1.38
34	BA	937	G	C1'-N9	-7.55	1.36	1.46
34	BA	990	G	O3'-P	-7.55	1.52	1.61
34	BA	1398	C	O3'-P	-7.55	1.52	1.61
34	BA	1547	G	N1-C2	-7.55	1.31	1.37
35	BB	708	C	O3'-P	-7.55	1.52	1.61
35	BB	810	G	P-O5'	-7.55	1.52	1.59
35	BB	1341	U	O3'-P	-7.55	1.52	1.61
35	BB	1348	C	C3'-C2'	-7.55	1.44	1.52
85	AA	590	U	O3'-P	-7.55	1.52	1.61
85	AA	1997	G	C5'-C4'	7.55	1.60	1.51
85	AA	2124	G	P-O5'	-7.55	1.52	1.59
34	BA	47	U	C3'-C2'	-7.55	1.44	1.52
34	BA	507	U	C4'-C3'	7.55	1.61	1.53
34	BA	1034	U	N3-C4	-7.55	1.31	1.38
34	BA	1119	A	P-O5'	-7.55	1.52	1.59
35	BB	38	C	O3'-P	-7.55	1.52	1.61
39	BF	40	U	P-O5'	-7.55	1.52	1.59
40	BG	131	U	P-O5'	-7.55	1.52	1.59
85	AA	425	G	C1'-N9	-7.55	1.36	1.46
85	AA	681	G	C4'-O4'	-7.55	1.35	1.45
34	BA	333	A	O3'-P	-7.54	1.52	1.61
85	AA	437	G	N9-C4	-7.54	1.31	1.38
85	AA	475	A	C3'-C2'	-7.54	1.44	1.52
34	BA	465	A	N7-C5	-7.54	1.34	1.39
34	BA	577	U	P-O5'	-7.54	1.52	1.59
34	BA	906	A	C4'-C3'	-7.54	1.44	1.53
34	BA	1107	A	C4'-C3'	-7.54	1.44	1.53
34	BA	1111	U	P-O5'	-7.54	1.52	1.59
34	BA	1273	U	C2'-C1'	-7.54	1.45	1.53
35	BB	1133	C	C2-N3	-7.54	1.29	1.35
35	BB	1398	A	P-O5'	-7.54	1.52	1.59
40	BG	159	A	C1'-N9	-7.54	1.36	1.46
85	AA	605	A	P-O5'	-7.54	1.52	1.59
34	BA	418	G	N9-C8	-7.54	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	651	U	C2-N3	-7.54	1.32	1.37
34	BA	1354	G	O3'-P	-7.54	1.52	1.61
34	BA	1733	G	C2'-C1'	-7.54	1.45	1.53
35	BB	37	C	C3'-C2'	-7.54	1.44	1.52
35	BB	509	A	C1'-N9	-7.54	1.36	1.46
35	BB	625	A	C3'-C2'	-7.54	1.44	1.52
35	BB	1006	C	C2'-C1'	-7.54	1.45	1.53
40	BG	150	A	O3'-P	-7.54	1.52	1.61
41	BH	14	C	P-O5'	-7.54	1.52	1.59
85	AA	103	U	O3'-P	-7.54	1.52	1.61
85	AA	1921	G	C8-N7	7.54	1.35	1.30
34	BA	236	A	N9-C4	-7.54	1.33	1.37
34	BA	824	C	C2'-C1'	-7.54	1.45	1.53
35	BB	1527	A	N9-C4	-7.54	1.33	1.37
35	BB	387	G	N3-C4	-7.54	1.30	1.35
35	BB	399	A	P-O5'	-7.54	1.52	1.59
85	AA	407	G	C2'-C1'	-7.54	1.45	1.53
85	AA	651	G	P-O5'	-7.54	1.52	1.59
35	BB	1453	G	O3'-P	-7.54	1.52	1.61
85	AA	31	C	C2-N3	-7.54	1.29	1.35
85	AA	802	A	N7-C5	-7.54	1.34	1.39
34	BA	93	A	C1'-N9	-7.54	1.36	1.46
34	BA	95	C	C1'-N1	-7.54	1.36	1.46
34	BA	357	A	C3'-C2'	-7.54	1.44	1.52
34	BA	501	U	P-O5'	-7.54	1.52	1.59
34	BA	727	G	C5-C4	-7.54	1.33	1.38
34	BA	765	U	C3'-C2'	7.54	1.61	1.52
34	BA	796	G	N9-C4	-7.54	1.31	1.38
34	BA	1613	G	N7-C5	-7.54	1.34	1.39
35	BB	88	U	C2'-C1'	-7.54	1.45	1.53
35	BB	401	U	N1-C2	-7.54	1.31	1.38
35	BB	448	G	C2'-C1'	-7.54	1.45	1.53
35	BB	794	G	N7-C5	-7.54	1.34	1.39
35	BB	1302	C	C2-N3	-7.54	1.29	1.35
85	AA	1282	A	C5-C4	-7.54	1.33	1.38
34	BA	10	G	C4'-O4'	-7.53	1.35	1.45
34	BA	101	G	O3'-P	-7.53	1.52	1.61
35	BB	501	G	O3'-P	-7.53	1.52	1.61
35	BB	815	G	C2'-C1'	-7.53	1.45	1.53
35	BB	839	G	C2'-C1'	-7.53	1.45	1.53
35	BB	1014	U	C2'-C1'	-7.53	1.45	1.53
35	BB	1522	G	C2'-C1'	-7.53	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	46	G	C3'-C2'	-7.53	1.44	1.52
85	AA	260	A	P-O5'	-7.53	1.52	1.59
85	AA	428	G	N3-C4	-7.53	1.30	1.35
34	BA	736	G	C5-C6	-7.53	1.34	1.42
35	BB	1001	G	C2'-C1'	-7.53	1.45	1.53
85	AA	1485	G	C2-N3	-7.53	1.26	1.32
34	BA	125	G	C2-N2	-7.53	1.27	1.34
34	BA	629	G	P-O5'	-7.53	1.52	1.59
34	BA	788	C	C1'-N1	-7.53	1.36	1.46
34	BA	857	C	P-O5'	-7.53	1.52	1.59
34	BA	917	C	O3'-P	-7.53	1.52	1.61
35	BB	84	G	O3'-P	-7.53	1.52	1.61
35	BB	622	G	C5-C6	-7.53	1.34	1.42
35	BB	672	C	C2'-C1'	-7.53	1.45	1.53
36	BC	126	G	C6-N1	-7.53	1.34	1.39
40	BG	142	A	O4'-C1'	-7.53	1.31	1.41
85	AA	1537	A	N7-C5	-7.53	1.34	1.39
34	BA	505	U	C2'-C1'	-7.53	1.45	1.53
34	BA	1723	U	C5'-C4'	7.53	1.60	1.51
38	BE	68	U	C3'-C2'	-7.53	1.44	1.52
85	AA	491	G	C4'-C3'	-7.53	1.44	1.53
85	AA	1251	G	P-O5'	-7.53	1.52	1.59
34	BA	23	A	P-O5'	-7.53	1.52	1.59
34	BA	295	G	P-O5'	-7.53	1.52	1.59
34	BA	1092	U	O3'-P	-7.53	1.52	1.61
35	BB	45	A	O3'-P	-7.53	1.52	1.61
35	BB	425	G	N9-C8	-7.53	1.32	1.37
85	AA	486	G	C5-C4	-7.53	1.33	1.38
85	AA	835	C	C3'-C2'	-7.53	1.44	1.52
86	AB	5	G	P-O5'	-7.53	1.52	1.59
34	BA	52	G	O3'-P	-7.53	1.52	1.61
34	BA	117	C	C4'-C3'	-7.53	1.44	1.53
34	BA	1095	G	C2-N2	-7.53	1.27	1.34
34	BA	1435	A	N9-C4	-7.53	1.33	1.37
35	BB	776	U	C2'-C1'	-7.53	1.45	1.53
35	BB	1199	A	C5-C4	-7.53	1.33	1.38
35	BB	1471	A	O3'-P	-7.53	1.52	1.61
37	BD	65	G	O3'-P	-7.53	1.52	1.61
38	BE	197	A	C2'-C1'	-7.53	1.45	1.53
85	AA	36	U	C2-N3	-7.53	1.32	1.37
85	AA	597	A	O3'-P	-7.53	1.52	1.61
85	AA	678	A	C2'-C1'	-7.53	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2107	C	O3'-P	-7.53	1.52	1.61
34	BA	849	G	N9-C4	-7.52	1.31	1.38
35	BB	619	A	O3'-P	-7.52	1.52	1.61
40	BG	111	C	C2'-C1'	-7.52	1.45	1.53
34	BA	1666	U	C2'-C1'	-7.52	1.45	1.53
35	BB	96	A	C5-C4	-7.52	1.33	1.38
52	BS	127	GLY	CA-C	-7.52	1.39	1.51
85	AA	157	G	C2'-C1'	-7.52	1.45	1.53
85	AA	2032	G	C2'-C1'	-7.52	1.45	1.53
34	BA	958	G	C1'-N9	-7.52	1.36	1.46
34	BA	1299	G	C5-C4	-7.52	1.33	1.38
35	BB	1395	G	C6-N1	-7.52	1.34	1.39
85	AA	1151	G	N7-C5	-7.52	1.34	1.39
34	BA	508	C	O3'-P	-7.52	1.52	1.61
34	BA	1284	G	O3'-P	-7.52	1.52	1.61
35	BB	136	A	C3'-C2'	-7.52	1.44	1.52
35	BB	415	A	N7-C5	-7.52	1.34	1.39
35	BB	584	A	N9-C8	-7.52	1.31	1.37
35	BB	1246	C	C2'-C1'	-7.52	1.45	1.53
85	AA	414	C	C2-N3	-7.52	1.29	1.35
85	AA	801	U	P-O5'	-7.52	1.52	1.59
34	BA	1162	U	C3'-C2'	-7.52	1.44	1.52
35	BB	1208	G	C6-N1	-7.52	1.34	1.39
35	BB	1221	G	P-O5'	-7.52	1.52	1.59
85	AA	739	C	C2'-C1'	-7.52	1.45	1.53
85	AA	1229	G	N9-C4	7.52	1.44	1.38
34	BA	202	A	P-O5'	-7.51	1.52	1.59
34	BA	257	G	O3'-P	-7.51	1.52	1.61
34	BA	398	G	C2'-C1'	-7.51	1.45	1.53
35	BB	608	A	C1'-N9	-7.51	1.36	1.46
35	BB	653	G	C2'-C1'	-7.51	1.45	1.53
35	BB	1165	A	C5-C4	-7.51	1.33	1.38
85	AA	584	G	C6-N1	-7.51	1.34	1.39
35	BB	1262	A	C1'-N9	-7.51	1.36	1.46
35	BB	1290	C	C2'-C1'	-7.51	1.45	1.53
35	BB	1521	G	O3'-P	-7.51	1.52	1.61
85	AA	978	U	C2'-C1'	-7.51	1.45	1.53
34	BA	222	C	C3'-C2'	-7.51	1.44	1.52
34	BA	354	G	C2'-C1'	-7.51	1.45	1.53
34	BA	607	C	O3'-P	-7.51	1.52	1.61
34	BA	719	G	C2'-C1'	-7.51	1.45	1.53
34	BA	1421	A	C2'-C1'	-7.51	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1721	U	O3'-P	-7.51	1.52	1.61
40	BG	128	U	O3'-P	-7.51	1.52	1.61
41	BH	105	U	O3'-P	-7.51	1.52	1.61
85	AA	259	A	C5-C4	-7.51	1.33	1.38
34	BA	888	G	C2-N2	-7.51	1.27	1.34
34	BA	1249	G	C5-C4	-7.51	1.33	1.38
35	BB	96	A	N9-C8	-7.51	1.31	1.37
35	BB	696	G	P-O5'	-7.51	1.52	1.59
35	BB	1019	C	C2-N3	-7.51	1.29	1.35
40	BG	90	G	P-O5'	-7.51	1.52	1.59
85	AA	381	A	C6-N1	-7.51	1.30	1.35
85	AA	514	U	C2-N3	-7.51	1.32	1.37
85	AA	976	G	C6-N1	-7.51	1.34	1.39
85	AA	1491	G	C2'-C1'	-7.51	1.45	1.53
85	AA	1657	C	C2'-C1'	-7.51	1.45	1.53
34	BA	1505	G	C3'-C2'	-7.51	1.44	1.52
38	BE	192	A	C4'-C3'	-7.51	1.44	1.53
85	AA	1287	C	C4'-C3'	-7.51	1.44	1.53
85	AA	1904	C	C2-N3	-7.51	1.29	1.35
34	BA	754	G	C1'-N9	-7.51	1.36	1.46
34	BA	932	G	P-O5'	-7.51	1.52	1.59
35	BB	386	G	C2-N3	-7.51	1.26	1.32
35	BB	1426	G	P-O5'	-7.51	1.52	1.59
85	AA	2215	C	C3'-C2'	-7.51	1.44	1.52
34	BA	878	G	C1'-N9	-7.50	1.36	1.46
34	BA	1003	A	C2'-C1'	-7.50	1.45	1.53
34	BA	1380	G	P-O5'	-7.50	1.52	1.59
35	BB	585	U	C2-N3	-7.50	1.32	1.37
35	BB	1363	A	P-O5'	-7.50	1.52	1.59
37	BD	98	G	C6-N1	-7.50	1.34	1.39
38	BE	12	A	C1'-N9	-7.50	1.36	1.46
85	AA	504	U	P-O5'	-7.50	1.52	1.59
34	BA	212	A	C1'-N9	-7.50	1.36	1.46
34	BA	421	G	O3'-P	-7.50	1.52	1.61
34	BA	1039	G	O3'-P	-7.50	1.52	1.61
34	BA	1818	A	N9-C4	-7.50	1.33	1.37
35	BB	1205	A	N9-C4	-7.50	1.33	1.37
40	BG	57	A	P-O5'	-7.50	1.52	1.59
41	BH	113	G	C3'-C2'	-7.50	1.44	1.52
85	AA	130	G	C2'-C1'	-7.50	1.45	1.53
85	AA	2173	A	N9-C4	-7.50	1.33	1.37
34	BA	742	C	C4'-C3'	-7.50	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1441	C	C3'-C2'	-7.50	1.44	1.52
35	BB	1415	G	C2-N2	-7.50	1.27	1.34
39	BF	41	U	C2-N3	-7.50	1.32	1.37
40	BG	15	G	C1'-N9	-7.50	1.36	1.46
85	AA	41	G	O3'-P	-7.50	1.52	1.61
85	AA	73	A	O3'-P	-7.50	1.52	1.61
85	AA	521	A	N9-C8	-7.50	1.31	1.37
85	AA	2074	G	C1'-N9	-7.50	1.36	1.46
34	BA	75	U	C2'-C1'	-7.50	1.45	1.53
35	BB	1424	G	P-O5'	-7.50	1.52	1.59
85	AA	1701	G	N3-C4	-7.50	1.30	1.35
34	BA	229	C	P-O5'	-7.50	1.52	1.59
34	BA	932	G	N9-C4	-7.50	1.31	1.38
36	BC	66	G	O3'-P	-7.50	1.52	1.61
40	BG	31	G	N9-C4	-7.50	1.31	1.38
34	BA	395	G	N9-C8	-7.50	1.32	1.37
34	BA	564	C	N3-C4	-7.50	1.28	1.33
34	BA	993	C	C2'-C1'	-7.50	1.45	1.53
35	BB	57	G	P-O5'	-7.50	1.52	1.59
35	BB	381	C	C2'-C1'	-7.50	1.45	1.53
35	BB	387	G	P-O5'	-7.50	1.52	1.59
35	BB	678	U	P-O5'	-7.50	1.52	1.59
35	BB	1530	U	C2-N3	-7.50	1.32	1.37
37	BD	98	G	P-O5'	-7.50	1.52	1.59
41	BH	69	C	C2'-C1'	-7.50	1.45	1.53
85	AA	1701	G	C2-N2	-7.50	1.27	1.34
85	AA	1818	C	C2'-C1'	-7.50	1.45	1.53
34	BA	703	U	C2-N3	-7.50	1.32	1.37
34	BA	150	C	C2'-C1'	-7.49	1.45	1.53
34	BA	492	G	C6-N1	-7.49	1.34	1.39
34	BA	1574	C	C2'-C1'	-7.49	1.45	1.53
35	BB	618	U	P-O5'	-7.49	1.52	1.59
35	BB	736	G	O3'-P	-7.49	1.52	1.61
35	BB	1294	C	N1-C6	-7.49	1.32	1.37
37	BD	70	C	P-O5'	-7.49	1.52	1.59
85	AA	481	A	C2'-C1'	-7.49	1.45	1.53
85	AA	902	A	O3'-P	-7.49	1.52	1.61
34	BA	1732	A	O3'-P	-7.49	1.52	1.61
35	BB	654	C	C3'-C2'	-7.49	1.44	1.52
35	BB	1404	A	C2'-C1'	-7.49	1.45	1.53
34	BA	51	C	O3'-P	-7.49	1.52	1.61
34	BA	207	A	C1'-N9	-7.49	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	574	G	C2'-C1'	-7.49	1.45	1.53
36	BC	102	G	C3'-C2'	-7.49	1.44	1.52
38	BE	2	G	C3'-C2'	-7.49	1.44	1.52
38	BE	28	C	C2'-C1'	-7.49	1.45	1.53
85	AA	649	C	C5'-C4'	-7.49	1.42	1.51
34	BA	348	U	C3'-C2'	-7.49	1.44	1.52
34	BA	949	C	C3'-C2'	-7.49	1.44	1.52
34	BA	998	U	C2-N3	-7.49	1.32	1.37
35	BB	713	U	P-O5'	-7.49	1.52	1.59
35	BB	1135	U	C2'-C1'	-7.49	1.45	1.53
36	BC	150	U	P-O5'	-7.49	1.52	1.59
85	AA	1201	A	C1'-N9	-7.49	1.36	1.46
85	AA	1213	U	P-O5'	-7.49	1.52	1.59
34	BA	147	U	C2-N3	-7.49	1.32	1.37
35	BB	96	A	C8-N7	-7.49	1.26	1.31
35	BB	818	U	C3'-C2'	-7.49	1.44	1.52
35	BB	1521	G	C2'-C1'	-7.49	1.45	1.53
85	AA	1925	A	C1'-N9	-7.49	1.36	1.46
34	BA	193	C	C2'-C1'	-7.49	1.45	1.53
34	BA	581	U	P-O5'	-7.49	1.52	1.59
34	BA	887	U	C2-N3	-7.49	1.32	1.37
34	BA	1553	G	P-O5'	-7.49	1.52	1.59
34	BA	1730	A	C4'-C3'	7.49	1.61	1.53
34	BA	1829	A	C2'-C1'	-7.49	1.45	1.53
35	BB	817	C	C2'-C1'	-7.49	1.45	1.53
35	BB	1359	G	N7-C5	-7.49	1.34	1.39
85	AA	178	U	C2'-C1'	-7.49	1.45	1.53
85	AA	1127	G	C4'-C3'	-7.49	1.45	1.53
85	AA	1312	G	P-O5'	-7.49	1.52	1.59
34	BA	450	G	O3'-P	-7.48	1.52	1.61
34	BA	1184	A	O3'-P	-7.48	1.52	1.61
34	BA	1258	G	N9-C4	-7.48	1.31	1.38
35	BB	1417	C	C3'-C2'	-7.48	1.44	1.52
85	AA	692	U	O3'-P	-7.48	1.52	1.61
85	AA	716	G	O3'-P	-7.48	1.52	1.61
85	AA	1519	A	N7-C5	-7.48	1.34	1.39
34	BA	56	G	P-O5'	-7.48	1.52	1.59
34	BA	812	A	C3'-C2'	-7.48	1.44	1.52
34	BA	929	A	C2'-C1'	-7.48	1.45	1.53
34	BA	1085	G	N9-C4	7.48	1.44	1.38
34	BA	1194	G	C5-C4	-7.48	1.33	1.38
34	BA	1496	G	C2'-C1'	-7.48	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1383	C	C3'-C2'	-7.48	1.44	1.52
37	BD	80	G	C5-C4	-7.48	1.33	1.38
38	BE	132	U	N3-C4	-7.48	1.31	1.38
38	BE	207	G	C6-N1	7.48	1.44	1.39
40	BG	57	A	C1'-N9	-7.48	1.36	1.46
40	BG	116	G	C1'-N9	-7.48	1.36	1.46
85	AA	475	A	O3'-P	-7.48	1.52	1.61
85	AA	1286	C	C4-N4	-7.48	1.27	1.33
85	AA	1882	U	O3'-P	-7.48	1.52	1.61
86	AB	71	G	O3'-P	-7.48	1.52	1.61
34	BA	431	A	C2'-C1'	-7.48	1.45	1.53
34	BA	1532	G	C2'-C1'	-7.48	1.45	1.53
35	BB	692	G	C1'-N9	-7.48	1.36	1.46
35	BB	792	G	P-O5'	-7.48	1.52	1.59
35	BB	1226	G	C2'-C1'	-7.48	1.45	1.53
85	AA	1656	C	C2'-C1'	-7.48	1.45	1.53
85	AA	1668	G	P-O5'	-7.48	1.52	1.59
34	BA	1553	G	N9-C4	-7.48	1.31	1.38
35	BB	1376	G	C4'-C3'	-7.48	1.45	1.53
35	BB	1397	G	C6-N1	-7.48	1.34	1.39
85	AA	2113	U	C2'-C1'	-7.48	1.45	1.53
34	BA	72	U	P-O5'	-7.48	1.52	1.59
34	BA	729	C	P-O5'	-7.48	1.52	1.59
34	BA	1505	G	O3'-P	-7.48	1.52	1.61
34	BA	1702	G	C4'-C3'	-7.48	1.45	1.53
35	BB	1193	G	O3'-P	-7.48	1.52	1.61
85	AA	1470	A	N7-C5	-7.48	1.34	1.39
34	BA	971	G	N9-C8	-7.48	1.32	1.37
34	BA	1648	G	P-O5'	-7.48	1.52	1.59
39	BF	44	C	C2-N3	-7.48	1.29	1.35
85	AA	397	G	C4'-O4'	-7.48	1.35	1.45
34	BA	54	A	C3'-C2'	-7.47	1.44	1.52
34	BA	755	G	C3'-C2'	-7.47	1.44	1.52
35	BB	77	A	O3'-P	-7.47	1.52	1.61
35	BB	386	G	N3-C4	-7.47	1.30	1.35
35	BB	505	G	O3'-P	-7.47	1.52	1.61
35	BB	1488	G	N1-C2	-7.47	1.31	1.37
36	BC	68	A	C1'-N9	-7.47	1.36	1.46
85	AA	245	A	O3'-P	-7.47	1.52	1.61
34	BA	821	G	N3-C4	-7.47	1.30	1.35
34	BA	992	A	C8-N7	-7.47	1.26	1.31
34	BA	1487	U	C2-N3	-7.47	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	148	C	O3'-P	-7.47	1.52	1.61
85	AA	1845	G	C2'-C1'	-7.47	1.45	1.53
85	AA	1904	C	O3'-P	-7.47	1.52	1.61
34	BA	1045	C	O3'-P	-7.47	1.52	1.61
36	BC	43	A	N9-C4	-7.47	1.33	1.37
38	BE	182	U	O3'-P	-7.47	1.52	1.61
40	BG	14	G	N9-C8	-7.47	1.32	1.37
85	AA	480	U	C4'-C3'	-7.47	1.45	1.53
85	AA	1257	A	C2'-C1'	-7.47	1.45	1.53
85	AA	2192	A	C2'-C1'	-7.47	1.45	1.53
35	BB	552	C	C1'-N1	-7.47	1.36	1.46
35	BB	638	G	C1'-N9	-7.47	1.36	1.46
35	BB	1137	G	P-O5'	-7.47	1.52	1.59
40	BG	97	G	N7-C5	-7.47	1.34	1.39
34	BA	780	U	O4'-C1'	7.47	1.51	1.41
35	BB	429	C	N1-C6	-7.47	1.32	1.37
35	BB	1470	G	N3-C4	-7.47	1.30	1.35
35	BB	1531	G	O3'-P	-7.47	1.52	1.61
36	BC	147	G	C8-N7	-7.47	1.26	1.30
37	BD	45	U	N3-C4	-7.47	1.31	1.38
40	BG	128	U	C3'-C2'	-7.47	1.44	1.52
85	AA	396	U	N3-C4	-7.47	1.31	1.38
85	AA	1275	A	N9-C4	-7.47	1.33	1.37
34	BA	198	U	C2'-C1'	-7.46	1.45	1.53
34	BA	583	G	N1-C2	-7.46	1.31	1.37
34	BA	1070	G	C8-N7	-7.46	1.26	1.30
34	BA	1634	A	N7-C5	-7.46	1.34	1.39
34	BA	1684	A	N9-C4	-7.46	1.33	1.37
35	BB	1044	U	O3'-P	-7.46	1.52	1.61
35	BB	1365	G	P-O5'	-7.46	1.52	1.59
35	BB	1530	U	O3'-P	-7.46	1.52	1.61
85	AA	887	A	N3-C4	-7.46	1.30	1.34
38	BE	21	C	C1'-N1	-7.46	1.36	1.46
39	BF	36	G	N1-C2	-7.46	1.31	1.37
85	AA	1162	A	N9-C4	-7.46	1.33	1.37
85	AA	2130	G	C3'-C2'	-7.46	1.44	1.52
34	BA	1091	U	P-O5'	-7.46	1.52	1.59
35	BB	679	G	N9-C8	-7.46	1.32	1.37
35	BB	1203	C	C4'-C3'	-7.46	1.45	1.53
35	BB	1252	G	C5-C6	-7.46	1.34	1.42
35	BB	1448	U	O3'-P	-7.46	1.52	1.61
40	BG	40	G	P-O5'	-7.46	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1348	C	P-O5'	-7.46	1.52	1.59
85	AA	1489	G	C3'-C2'	-7.46	1.44	1.52
85	AA	2177	C	C3'-C2'	-7.46	1.44	1.52
34	BA	1656	A	C6-N6	-7.46	1.27	1.33
35	BB	1093	C	P-O5'	-7.46	1.52	1.59
36	BC	87	C	P-O5'	-7.46	1.52	1.59
38	BE	129	G	C2-N2	-7.46	1.27	1.34
85	AA	547	A	C3'-C2'	-7.46	1.44	1.52
34	BA	117	C	C2-N3	-7.46	1.29	1.35
34	BA	606	G	N1-C2	-7.46	1.31	1.37
34	BA	1327	G	N7-C5	-7.46	1.34	1.39
34	BA	1828	A	N9-C4	-7.46	1.33	1.37
35	BB	24	C	C2'-C1'	-7.46	1.45	1.53
35	BB	68	G	O3'-P	-7.46	1.52	1.61
85	AA	1299	A	C2'-C1'	-7.46	1.45	1.53
34	BA	1178	U	O3'-P	-7.46	1.52	1.61
34	BA	1303	U	O3'-P	-7.46	1.52	1.61
35	BB	432	C	C2-N3	-7.46	1.29	1.35
35	BB	1327	U	C4'-C3'	-7.46	1.45	1.53
36	BC	148	C	C1'-N1	-7.46	1.36	1.46
85	AA	54	C	C3'-C2'	-7.46	1.44	1.52
85	AA	144	A	O3'-P	-7.46	1.52	1.61
85	AA	414	C	N3-C4	-7.46	1.28	1.33
85	AA	709	A	C2'-C1'	-7.46	1.45	1.53
34	BA	1000	G	C2'-C1'	-7.46	1.45	1.53
34	BA	1177	C	C1'-N1	-7.46	1.36	1.46
85	AA	407	G	N7-C5	-7.46	1.34	1.39
85	AA	898	A	C2'-C1'	-7.46	1.45	1.53
85	AA	1721	A	N7-C5	-7.46	1.34	1.39
34	BA	433	G	C1'-N9	-7.45	1.36	1.46
34	BA	749	G	C1'-N9	-7.45	1.36	1.46
34	BA	912	G	N7-C5	-7.45	1.34	1.39
35	BB	68	G	O4'-C1'	-7.45	1.31	1.41
35	BB	422	U	C2'-C1'	-7.45	1.45	1.53
35	BB	800	U	C5'-C4'	7.45	1.60	1.51
40	BG	139	U	C1'-N1	-7.45	1.36	1.46
85	AA	1358	A	O3'-P	-7.45	1.52	1.61
34	BA	1329	U	C2'-C1'	-7.45	1.45	1.53
85	AA	1355	U	C5'-C4'	7.45	1.60	1.51
85	AA	1517	G	O3'-P	-7.45	1.52	1.61
34	BA	119	G	C5'-C4'	7.45	1.60	1.51
34	BA	148	G	C2-N2	-7.45	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1109	G	C2'-C1'	-7.45	1.45	1.53
35	BB	1245	A	O3'-P	-7.45	1.52	1.61
35	BB	1360	A	N7-C5	-7.45	1.34	1.39
41	BH	47	G	P-O5'	-7.45	1.52	1.59
85	AA	612	A	N9-C4	-7.45	1.33	1.37
85	AA	1171	C	O3'-P	-7.45	1.52	1.61
85	AA	1444	U	P-O5'	-7.45	1.52	1.59
85	AA	2229	G	P-O5'	-7.45	1.52	1.59
34	BA	113	G	N7-C5	-7.45	1.34	1.39
34	BA	655	U	C2'-C1'	-7.45	1.45	1.53
34	BA	969	A	N7-C5	-7.45	1.34	1.39
34	BA	1172	C	C2'-C1'	-7.45	1.45	1.53
35	BB	14	C	C2'-C1'	-7.45	1.45	1.53
35	BB	768	A	C4'-O4'	7.45	1.55	1.45
35	BB	1093	C	C3'-C2'	-7.45	1.44	1.52
35	BB	1311	G	C1'-N9	-7.45	1.36	1.46
35	BB	1409	G	O3'-P	-7.45	1.52	1.61
36	BC	140	U	C3'-C2'	-7.45	1.44	1.52
41	BH	39	G	C6-N1	-7.45	1.34	1.39
85	AA	365	G	N9-C8	-7.45	1.32	1.37
85	AA	2098	A	O3'-P	-7.45	1.52	1.61
34	BA	698	U	C2-N3	-7.45	1.32	1.37
35	BB	713	U	O3'-P	-7.45	1.52	1.61
38	BE	147	G	P-O5'	-7.45	1.52	1.59
34	BA	413	A	O3'-P	-7.45	1.52	1.61
34	BA	569	C	O3'-P	-7.45	1.52	1.61
34	BA	888	G	C6-N1	-7.45	1.34	1.39
34	BA	1272	U	P-O5'	-7.45	1.52	1.59
34	BA	1311	G	C1'-N9	-7.45	1.36	1.46
34	BA	1544	G	C3'-C2'	-7.45	1.44	1.52
34	BA	1713	U	C2'-C1'	-7.45	1.45	1.53
36	BC	115	G	P-O5'	-7.45	1.52	1.59
38	BE	150	G	C1'-N9	-7.45	1.36	1.46
39	BF	47	C	C2'-C1'	-7.45	1.45	1.53
85	AA	475	A	P-O5'	-7.45	1.52	1.59
85	AA	635	G	C3'-C2'	-7.45	1.44	1.52
85	AA	1973	G	C3'-C2'	-7.45	1.44	1.52
86	AB	57	G	N9-C4	-7.45	1.31	1.38
34	BA	92	G	C3'-C2'	-7.44	1.44	1.52
40	BG	16	G	N9-C8	-7.44	1.32	1.37
85	AA	1244	A	C2'-C1'	-7.44	1.45	1.53
85	AA	2216	A	O3'-P	-7.44	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	434	A	C4'-C3'	-7.44	1.45	1.53
35	BB	816	U	C3'-C2'	-7.44	1.44	1.52
35	BB	827	U	C2'-C1'	-7.44	1.45	1.53
35	BB	1036	G	C4'-C3'	-7.44	1.45	1.53
37	BD	22	A	C2'-C1'	-7.44	1.45	1.53
85	AA	1215	A	O3'-P	-7.44	1.52	1.61
85	AA	1465	C	C2'-C1'	-7.44	1.45	1.53
85	AA	2243	G	C5'-C4'	7.44	1.60	1.51
34	BA	289	A	C5-C4	-7.44	1.33	1.38
34	BA	979	G	C2'-C1'	-7.44	1.45	1.53
34	BA	1009	G	C3'-C2'	-7.44	1.44	1.52
35	BB	503	G	C1'-N9	-7.44	1.36	1.46
35	BB	669	A	N3-C4	-7.44	1.30	1.34
35	BB	845	C	O3'-P	-7.44	1.52	1.61
85	AA	1114	A	C2'-C1'	-7.44	1.45	1.53
85	AA	1141	U	O3'-P	-7.44	1.52	1.61
85	AA	1928	A	C1'-N9	-7.44	1.36	1.46
85	AA	2204	A	O3'-P	-7.44	1.52	1.61
34	BA	19	G	N9-C8	-7.44	1.32	1.37
34	BA	73	G	C2-N3	-7.44	1.26	1.32
34	BA	377	G	C6-N1	-7.44	1.34	1.39
34	BA	1575	U	C2-N3	-7.44	1.32	1.37
34	BA	688	G	O3'-P	-7.44	1.52	1.61
34	BA	939	C	N1-C6	-7.44	1.32	1.37
34	BA	1809	G	N9-C8	-7.44	1.32	1.37
35	BB	843	G	P-O5'	-7.44	1.52	1.59
40	BG	167	C	C3'-C2'	-7.44	1.44	1.52
85	AA	1249	U	P-O5'	-7.44	1.52	1.59
85	AA	2201	A	C1'-N9	-7.44	1.36	1.46
34	BA	61	G	N9-C4	-7.44	1.32	1.38
34	BA	744	G	C3'-C2'	-7.44	1.44	1.52
85	AA	811	A	O3'-P	-7.44	1.52	1.61
85	AA	2143	U	C2'-C1'	-7.44	1.45	1.53
34	BA	337	C	O3'-P	-7.43	1.52	1.61
35	BB	130	G	P-O5'	-7.43	1.52	1.59
35	BB	1222	A	P-O5'	-7.43	1.52	1.59
85	AA	461	G	C5-C6	-7.43	1.34	1.42
85	AA	688	C	C2'-C1'	-7.43	1.45	1.53
85	AA	1200	A	N9-C4	-7.43	1.33	1.37
34	BA	52	G	C3'-C2'	-7.43	1.44	1.52
34	BA	99	G	C2-N2	-7.43	1.27	1.34
34	BA	860	G	C1'-N9	-7.43	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1395	G	C1'-N9	-7.43	1.36	1.46
35	BB	1432	U	P-O5'	-7.43	1.52	1.59
38	BE	170	U	P-O5'	-7.43	1.52	1.59
38	BE	191	U	O3'-P	-7.43	1.52	1.61
34	BA	450	G	N9-C4	-7.43	1.32	1.38
35	BB	1048	A	C2'-C1'	-7.43	1.45	1.53
41	BH	114	G	C1'-N9	-7.43	1.36	1.46
85	AA	298	C	C2'-C1'	-7.43	1.45	1.53
85	AA	792	A	N9-C4	-7.43	1.33	1.37
85	AA	1260	G	P-O5'	-7.43	1.52	1.59
34	BA	200	C	P-O5'	-7.43	1.52	1.59
34	BA	823	G	O3'-P	-7.43	1.52	1.61
34	BA	841	G	P-O5'	-7.43	1.52	1.59
35	BB	654	C	C4'-C3'	-7.43	1.45	1.53
35	BB	825	U	C4'-C3'	-7.43	1.45	1.53
38	BE	96	G	N3-C4	-7.43	1.30	1.35
40	BG	95	U	C3'-C2'	-7.43	1.44	1.52
85	AA	139	G	C2'-C1'	-7.43	1.45	1.53
34	BA	1233	U	C3'-C2'	-7.43	1.44	1.52
35	BB	1137	G	C6-N1	-7.43	1.34	1.39
35	BB	1187	G	C2-N2	-7.43	1.27	1.34
85	AA	131	C	C2'-C1'	-7.43	1.45	1.53
85	AA	1258	U	C2-N3	-7.43	1.32	1.37
34	BA	1710	C	C3'-C2'	-7.43	1.44	1.52
36	BC	110	A	C2'-C1'	-7.43	1.45	1.53
38	BE	52	U	O3'-P	-7.43	1.52	1.61
40	BG	41	U	C3'-C2'	-7.43	1.44	1.52
85	AA	1112	G	N9-C4	-7.43	1.32	1.38
85	AA	1487	G	O3'-P	-7.43	1.52	1.61
85	AA	1505	G	C2-N2	-7.43	1.27	1.34
85	AA	2046	G	P-O5'	-7.43	1.52	1.59
34	BA	1648	G	C8-N7	-7.42	1.26	1.30
36	BC	66	G	C3'-C2'	-7.42	1.44	1.52
40	BG	36	G	O3'-P	-7.42	1.52	1.61
85	AA	1497	U	C2-N3	-7.42	1.32	1.37
85	AA	1636	C	P-O5'	-7.42	1.52	1.59
35	BB	381	C	O3'-P	-7.42	1.52	1.61
35	BB	778	A	C2'-C1'	-7.42	1.45	1.53
34	BA	921	G	O3'-P	-7.42	1.52	1.61
34	BA	969	A	C2'-C1'	-7.42	1.45	1.53
34	BA	1264	U	C4-C5	-7.42	1.36	1.43
35	BB	659	C	C1'-N1	-7.42	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1241	U	O3'-P	-7.42	1.52	1.61
41	BH	38	G	C3'-C2'	-7.42	1.44	1.52
85	AA	129	U	C2'-C1'	-7.42	1.45	1.53
85	AA	2130	G	C5-C4	-7.42	1.33	1.38
35	BB	1336	G	N9-C4	-7.42	1.32	1.38
35	BB	1431	G	N9-C4	-7.42	1.32	1.38
35	BB	1445	A	C5-C4	-7.42	1.33	1.38
85	AA	386	G	C6-N1	-7.42	1.34	1.39
85	AA	1657	C	C3'-C2'	-7.42	1.44	1.52
34	BA	97	A	O3'-P	-7.42	1.52	1.61
35	BB	1288	G	O3'-P	-7.42	1.52	1.61
40	BG	71	C	C2-N3	-7.42	1.29	1.35
85	AA	1003	G	P-O5'	-7.42	1.52	1.59
34	BA	49	A	O4'-C1'	-7.42	1.32	1.41
34	BA	892	C	C2-N3	-7.42	1.29	1.35
34	BA	1520	A	C2'-C1'	-7.42	1.45	1.53
85	AA	381	A	C4'-O4'	-7.42	1.35	1.45
85	AA	879	G	C6-N1	-7.42	1.34	1.39
85	AA	1162	A	P-O5'	-7.42	1.52	1.59
34	BA	142	A	C2'-C1'	-7.42	1.45	1.53
35	BB	1307	C	C2'-C1'	-7.42	1.45	1.53
85	AA	460	U	O3'-P	-7.42	1.52	1.61
85	AA	498	C	C2-N3	-7.42	1.29	1.35
85	AA	1483	A	C3'-C2'	-7.42	1.44	1.52
34	BA	733	G	C5-C4	-7.41	1.33	1.38
34	BA	1269	C	C3'-C2'	-7.41	1.44	1.52
34	BA	1311	G	C2'-C1'	-7.41	1.45	1.53
34	BA	1406	U	C2-N3	-7.41	1.32	1.37
34	BA	1673	G	C4'-C3'	-7.41	1.45	1.53
35	BB	69	A	P-O5'	-7.41	1.52	1.59
35	BB	522	A	O3'-P	-7.41	1.52	1.61
35	BB	610	U	N3-C4	-7.41	1.31	1.38
35	BB	992	C	C4-C5	-7.41	1.37	1.43
36	BC	166	G	N9-C4	-7.41	1.32	1.38
85	AA	82	A	C4'-C3'	-7.41	1.45	1.53
85	AA	296	A	P-O5'	-7.41	1.52	1.59
85	AA	1480	C	C4'-C3'	-7.41	1.45	1.53
35	BB	618	U	C2-N3	-7.41	1.32	1.37
85	AA	99	U	P-O5'	-7.41	1.52	1.59
85	AA	661	C	C2-N3	-7.41	1.29	1.35
85	AA	1214	C	C4'-O4'	-7.41	1.35	1.45
34	BA	911	G	P-O5'	-7.41	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1121	A	C4'-C3'	-7.41	1.45	1.53
35	BB	1124	G	P-O5'	-7.41	1.52	1.59
35	BB	1422	G	N3-C4	-7.41	1.30	1.35
40	BG	176	G	C1'-N9	-7.41	1.36	1.46
85	AA	761	G	C2-N2	-7.41	1.27	1.34
85	AA	787	U	P-O5'	-7.41	1.52	1.59
35	BB	22	A	N7-C5	-7.41	1.34	1.39
35	BB	1541	G	C6-N1	-7.41	1.34	1.39
36	BC	64	U	O3'-P	-7.41	1.52	1.61
85	AA	755	G	N1-C2	-7.41	1.31	1.37
35	BB	43	G	P-O5'	-7.41	1.52	1.59
35	BB	1176	G	N9-C4	-7.41	1.32	1.38
34	BA	240	C	P-O5'	-7.41	1.52	1.59
34	BA	544	U	C2'-C1'	-7.41	1.45	1.53
34	BA	554	A	N7-C5	-7.41	1.34	1.39
34	BA	885	A	O3'-P	-7.41	1.52	1.61
35	BB	91	G	N7-C5	-7.41	1.34	1.39
35	BB	404	A	C2'-C1'	-7.41	1.45	1.53
85	AA	412	G	O3'-P	-7.41	1.52	1.61
85	AA	517	A	C2'-C1'	-7.41	1.45	1.53
85	AA	579	U	C2-N3	-7.41	1.32	1.37
85	AA	674	U	O3'-P	-7.41	1.52	1.61
85	AA	1701	G	O3'-P	-7.41	1.52	1.61
34	BA	433	G	N7-C5	-7.40	1.34	1.39
34	BA	888	G	C5-C4	-7.40	1.33	1.38
34	BA	1521	C	O3'-P	-7.40	1.52	1.61
36	BC	114	C	C2'-C1'	-7.40	1.45	1.53
41	BH	107	A	C5-C6	-7.40	1.34	1.41
85	AA	771	A	N3-C4	-7.40	1.30	1.34
85	AA	1855	U	P-O5'	-7.40	1.52	1.59
34	BA	3	G	P-O5'	-7.40	1.52	1.59
34	BA	195	G	C3'-C2'	-7.40	1.44	1.52
34	BA	343	G	O3'-P	-7.40	1.52	1.61
34	BA	1324	G	C5-C4	-7.40	1.33	1.38
35	BB	574	G	O4'-C1'	-7.40	1.32	1.41
38	BE	119	U	O3'-P	-7.40	1.52	1.61
85	AA	70	U	P-O5'	-7.40	1.52	1.59
85	AA	858	G	C2'-C1'	-7.40	1.45	1.53
85	AA	1524	A	O3'-P	-7.40	1.52	1.61
34	BA	171	U	C3'-C2'	-7.40	1.44	1.52
34	BA	238	C	C3'-C2'	-7.40	1.44	1.52
34	BA	700	G	P-O5'	-7.40	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	110	U	O3'-P	-7.40	1.52	1.61
39	BF	71	G	N7-C5	-7.40	1.34	1.39
85	AA	268	A	C4'-C3'	-7.40	1.45	1.53
85	AA	765	U	C4'-C3'	-7.40	1.45	1.53
34	BA	1255	G	O3'-P	-7.40	1.52	1.61
85	AA	9	U	C2-N3	-7.40	1.32	1.37
34	BA	425	G	N9-C4	-7.40	1.32	1.38
34	BA	697	A	C5-C4	-7.40	1.33	1.38
34	BA	1149	C	N3-C4	-7.40	1.28	1.33
40	BG	94	G	C6-N1	-7.40	1.34	1.39
85	AA	1664	G	O3'-P	-7.40	1.52	1.61
34	BA	132	U	N1-C2	-7.40	1.31	1.38
34	BA	257	G	C5-C4	-7.40	1.33	1.38
34	BA	895	U	C3'-C2'	-7.40	1.44	1.52
34	BA	1260	G	N9-C4	-7.40	1.32	1.38
34	BA	1603	A	C5-C4	-7.40	1.33	1.38
34	BA	6	C	C2-N3	-7.39	1.29	1.35
34	BA	237	A	C5-C4	-7.39	1.33	1.38
34	BA	1323	G	O3'-P	-7.39	1.52	1.61
34	BA	1522	G	C3'-C2'	-7.39	1.44	1.52
34	BA	1609	U	O4'-C1'	-7.39	1.32	1.41
35	BB	393	A	O3'-P	-7.39	1.52	1.61
35	BB	1286	G	C4'-C3'	-7.39	1.45	1.53
36	BC	144	C	O3'-P	-7.39	1.52	1.61
40	BG	118	U	C4'-C3'	-7.39	1.45	1.53
85	AA	291	G	C2'-C1'	-7.39	1.45	1.53
85	AA	934	A	P-O5'	-7.39	1.52	1.59
34	BA	142	A	N9-C4	-7.39	1.33	1.37
35	BB	403	U	O3'-P	-7.39	1.52	1.61
40	BG	110	U	C3'-C2'	-7.39	1.44	1.52
85	AA	38	C	C2'-C1'	-7.39	1.45	1.53
85	AA	1150	G	N9-C4	-7.39	1.32	1.38
85	AA	1260	G	C3'-C2'	-7.39	1.44	1.52
85	AA	1860	A	O3'-P	-7.39	1.52	1.61
85	AA	1872	G	N9-C4	-7.39	1.32	1.38
34	BA	663	U	C2'-C1'	-7.39	1.45	1.53
34	BA	852	C	O3'-P	-7.39	1.52	1.61
34	BA	969	A	C5-C4	-7.39	1.33	1.38
34	BA	1036	G	C2'-C1'	-7.39	1.45	1.53
34	BA	1507	C	C2'-C1'	-7.39	1.45	1.53
35	BB	59	U	O3'-P	-7.39	1.52	1.61
85	AA	984	A	P-O5'	-7.39	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	938	C	P-O5'	-7.39	1.52	1.59
35	BB	28	G	C5-C4	-7.39	1.33	1.38
35	BB	1384	A	C3'-C2'	-7.39	1.44	1.52
35	BB	1490	G	O4'-C1'	7.39	1.51	1.41
40	BG	66	C	C1'-N1	-7.39	1.36	1.46
85	AA	172	A	N9-C4	-7.39	1.33	1.37
86	AB	15	G	C2-N2	-7.39	1.27	1.34
34	BA	50	G	C5-C4	-7.39	1.33	1.38
34	BA	453	A	O3'-P	-7.39	1.52	1.61
35	BB	561	C	C4-C5	-7.39	1.37	1.43
35	BB	1038	G	P-O5'	-7.39	1.52	1.59
35	BB	1211	C	N1-C6	-7.39	1.32	1.37
35	BB	1543	C	P-O5'	-7.39	1.52	1.59
85	AA	1907	U	C2'-C1'	-7.39	1.45	1.53
34	BA	39	C	P-O5'	-7.39	1.52	1.59
34	BA	260	A	P-O5'	-7.39	1.52	1.59
34	BA	1042	U	O3'-P	-7.39	1.52	1.61
34	BA	1349	A	N9-C4	-7.39	1.33	1.37
35	BB	540	G	N9-C4	-7.39	1.32	1.38
35	BB	1406	C	N1-C6	-7.39	1.32	1.37
38	BE	63	C	C2'-C1'	-7.39	1.45	1.53
40	BG	20	U	O3'-P	-7.39	1.52	1.61
34	BA	346	A	C1'-N9	-7.38	1.36	1.46
34	BA	710	A	C4'-C3'	-7.38	1.45	1.53
35	BB	664	A	C1'-N9	-7.38	1.36	1.46
35	BB	1282	G	C3'-C2'	-7.38	1.44	1.52
85	AA	271	A	P-O5'	-7.38	1.52	1.59
85	AA	559	G	P-O5'	-7.38	1.52	1.59
85	AA	587	G	C2-N2	-7.38	1.27	1.34
85	AA	1057	G	O3'-P	-7.38	1.52	1.61
85	AA	1177	G	N7-C5	-7.38	1.34	1.39
85	AA	1199	C	O3'-P	-7.38	1.52	1.61
85	AA	1357	U	O3'-P	-7.38	1.52	1.61
34	BA	892	C	C1'-N1	-7.38	1.36	1.46
85	AA	1145	U	C4'-C3'	-7.38	1.45	1.53
85	AA	2017	U	P-O5'	-7.38	1.52	1.59
34	BA	1016	A	C2'-C1'	-7.38	1.45	1.53
34	BA	1530	G	O3'-P	-7.38	1.52	1.61
35	BB	362	A	C2'-C1'	-7.38	1.45	1.53
35	BB	513	G	O4'-C1'	-7.38	1.32	1.41
35	BB	1018	U	C2'-C1'	-7.38	1.45	1.53
35	BB	1308	G	N9-C4	-7.38	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	98	G	C4'-C3'	-7.38	1.45	1.53
38	BE	127	G	P-O5'	-7.38	1.52	1.59
41	BH	38	G	N3-C4	-7.38	1.30	1.35
85	AA	1135	U	C2-N3	-7.38	1.32	1.37
85	AA	2149	C	C3'-C2'	-7.38	1.44	1.52
34	BA	236	A	C3'-C2'	-7.38	1.44	1.52
34	BA	758	G	O4'-C1'	-7.38	1.32	1.41
85	AA	1135	U	P-O5'	-7.38	1.52	1.59
85	AA	1284	A	O3'-P	-7.38	1.52	1.61
34	BA	610	A	C5-C4	-7.38	1.33	1.38
35	BB	124	G	O3'-P	-7.38	1.52	1.61
35	BB	431	U	C4'-C3'	-7.38	1.45	1.53
36	BC	131	C	O3'-P	-7.38	1.52	1.61
85	AA	419	A	N3-C4	-7.38	1.30	1.34
85	AA	591	A	C1'-N9	-7.38	1.36	1.46
85	AA	678	A	C1'-N9	-7.38	1.36	1.46
85	AA	716	G	P-O5'	-7.38	1.52	1.59
85	AA	2199	G	O3'-P	-7.38	1.52	1.61
34	BA	905	A	P-O5'	-7.38	1.52	1.59
34	BA	1073	G	C1'-N9	-7.38	1.36	1.46
34	BA	1221	A	O4'-C1'	-7.38	1.32	1.41
35	BB	78	C	O3'-P	-7.38	1.52	1.61
35	BB	1456	G	C4'-C3'	-7.38	1.45	1.53
38	BE	141	A	C5-C6	-7.38	1.34	1.41
85	AA	1346	C	P-O5'	-7.38	1.52	1.59
85	AA	1512	U	O3'-P	-7.38	1.52	1.61
34	BA	217	C	P-O5'	-7.38	1.52	1.59
34	BA	293	A	P-O5'	-7.38	1.52	1.59
34	BA	399	G	C8-N7	-7.37	1.26	1.30
34	BA	809	U	O3'-P	-7.37	1.52	1.61
85	AA	1678	U	P-O5'	-7.37	1.52	1.59
85	AA	1877	G	N7-C5	-7.37	1.34	1.39
85	AA	2105	G	O3'-P	-7.37	1.52	1.61
34	BA	1293	A	N7-C5	-7.37	1.34	1.39
34	BA	1645	C	C2'-C1'	-7.37	1.45	1.53
35	BB	1182	A	C2'-C1'	-7.37	1.45	1.53
35	BB	1523	U	C2-N3	-7.37	1.32	1.37
40	BG	6	A	C2'-C1'	-7.37	1.45	1.53
41	BH	53	C	C2'-C1'	-7.37	1.45	1.53
85	AA	759	G	C6-N1	-7.37	1.34	1.39
85	AA	1900	C	O3'-P	-7.37	1.52	1.61
34	BA	1014	A	O3'-P	-7.37	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1338	G	O3'-P	-7.37	1.52	1.61
35	BB	1112	U	P-O5'	-7.37	1.52	1.59
38	BE	64	A	C2'-C1'	-7.37	1.45	1.53
85	AA	857	G	C3'-C2'	-7.37	1.44	1.52
35	BB	1423	U	C2-N3	-7.37	1.32	1.37
40	BG	71	C	C4'-C3'	-7.37	1.45	1.53
34	BA	396	U	C2'-C1'	-7.37	1.45	1.53
34	BA	728	A	N3-C4	-7.37	1.30	1.34
35	BB	1369	A	C3'-C2'	-7.37	1.44	1.52
85	AA	406	U	P-O5'	-7.37	1.52	1.59
85	AA	810	C	C2-N3	-7.37	1.29	1.35
34	BA	260	A	C6-N1	-7.37	1.30	1.35
34	BA	1292	A	N7-C5	-7.37	1.34	1.39
35	BB	584	A	N7-C5	-7.37	1.34	1.39
35	BB	1108	G	C6-N1	-7.37	1.34	1.39
36	BC	157	U	O3'-P	-7.37	1.52	1.61
38	BE	63	C	C1'-N1	-7.37	1.36	1.46
38	BE	110	U	C2'-C1'	-7.37	1.45	1.53
40	BG	182	G	N9-C8	-7.37	1.32	1.37
34	BA	101	G	N1-C2	-7.36	1.31	1.37
34	BA	498	A	C5-C4	-7.36	1.33	1.38
34	BA	1083	A	P-O5'	-7.36	1.52	1.59
34	BA	1479	G	O3'-P	-7.36	1.52	1.61
34	BA	1568	A	C6-N1	7.36	1.40	1.35
35	BB	73	G	C2-N2	-7.36	1.27	1.34
35	BB	112	G	C2-N3	-7.36	1.26	1.32
35	BB	410	A	P-O5'	-7.36	1.52	1.59
35	BB	1182	A	N9-C4	-7.36	1.33	1.37
35	BB	1438	U	C2'-C1'	-7.36	1.45	1.53
38	BE	86	C	C2'-C1'	-7.36	1.45	1.53
85	AA	931	G	N9-C4	-7.36	1.32	1.38
34	BA	1256	A	O3'-P	-7.36	1.52	1.61
34	BA	1629	A	O3'-P	-7.36	1.52	1.61
85	AA	1793	A	O4'-C1'	-7.36	1.32	1.41
85	AA	2217	A	C4'-C3'	-7.36	1.45	1.53
34	BA	900	A	C8-N7	-7.36	1.26	1.31
34	BA	1437	G	C6-N1	-7.36	1.34	1.39
35	BB	1087	A	N7-C5	-7.36	1.34	1.39
35	BB	1547	U	P-O5'	-7.36	1.52	1.59
85	AA	318	A	O3'-P	-7.36	1.52	1.61
34	BA	1000	G	P-O5'	-7.36	1.52	1.59
35	BB	13	A	C2'-C1'	-7.36	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1195	A	C2'-C1'	-7.36	1.45	1.53
85	AA	2	A	N9-C4	-7.36	1.33	1.37
85	AA	779	G	P-O5'	-7.36	1.52	1.59
85	AA	1238	U	C2'-C1'	-7.36	1.45	1.53
34	BA	970	U	C2'-C1'	-7.36	1.45	1.53
34	BA	1256	A	N7-C5	-7.36	1.34	1.39
35	BB	557	C	N3-C4	-7.36	1.28	1.33
36	BC	14	G	C3'-C2'	-7.36	1.44	1.52
85	AA	1176	C	O3'-P	-7.36	1.52	1.61
34	BA	974	G	C2-N2	-7.36	1.27	1.34
34	BA	1379	G	O3'-P	-7.36	1.52	1.61
34	BA	1422	A	C1'-N9	-7.36	1.36	1.46
35	BB	95	A	C2'-C1'	-7.36	1.45	1.53
35	BB	784	C	C3'-C2'	-7.36	1.44	1.52
38	BE	11	A	O3'-P	-7.36	1.52	1.61
85	AA	589	A	C5'-C4'	7.36	1.60	1.51
34	BA	563	A	P-O5'	-7.35	1.52	1.59
35	BB	804	U	C4'-C3'	-7.35	1.45	1.53
36	BC	106	G	N1-C2	-7.35	1.31	1.37
85	AA	1175	A	O3'-P	-7.35	1.52	1.61
85	AA	1524	A	N3-C4	-7.35	1.30	1.34
34	BA	11	U	P-O5'	-7.35	1.52	1.59
34	BA	1153	C	O3'-P	-7.35	1.52	1.61
34	BA	1230	G	N3-C4	-7.35	1.30	1.35
34	BA	1685	C	C2-N3	-7.35	1.29	1.35
34	BA	1829	A	P-O5'	-7.35	1.52	1.59
35	BB	29	C	C2'-C1'	-7.35	1.45	1.53
35	BB	534	C	C3'-C2'	-7.35	1.44	1.52
35	BB	877	A	C2'-C1'	-7.35	1.45	1.53
37	BD	90	A	N7-C5	-7.35	1.34	1.39
85	AA	298	C	O3'-P	-7.35	1.52	1.61
85	AA	329	G	C1'-N9	-7.35	1.36	1.46
85	AA	925	G	P-O5'	-7.35	1.52	1.59
35	BB	111	C	O3'-P	-7.35	1.52	1.61
35	BB	1125	A	N9-C4	-7.35	1.33	1.37
85	AA	1613	A	P-O5'	-7.35	1.52	1.59
34	BA	1422	A	N7-C5	-7.35	1.34	1.39
35	BB	51	U	C3'-C2'	-7.35	1.44	1.52
35	BB	677	U	P-O5'	-7.35	1.52	1.59
35	BB	1487	G	C6-N1	-7.35	1.34	1.39
85	AA	134	U	P-O5'	-7.35	1.52	1.59
85	AA	722	G	N7-C5	-7.35	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	883	A	N9-C4	-7.35	1.33	1.37
85	AA	2134	U	P-O5'	-7.35	1.52	1.59
85	AA	2239	A	P-O5'	-7.35	1.52	1.59
34	BA	1312	A	C4'-C3'	-7.35	1.45	1.53
35	BB	989	C	P-O5'	-7.35	1.52	1.59
37	BD	15	U	C2'-C1'	-7.35	1.45	1.53
85	AA	457	G	C5-C4	-7.35	1.33	1.38
34	BA	1123	G	N7-C5	-7.35	1.34	1.39
34	BA	1534	U	N3-C4	-7.35	1.31	1.38
35	BB	71	A	N9-C4	-7.35	1.33	1.37
35	BB	1198	C	C3'-C2'	-7.35	1.44	1.52
34	BA	108	A	C2'-C1'	-7.34	1.45	1.53
34	BA	340	U	O3'-P	-7.34	1.52	1.61
34	BA	494	A	C1'-N9	-7.34	1.36	1.46
34	BA	544	U	P-O5'	-7.34	1.52	1.59
35	BB	896	C	O3'-P	-7.34	1.52	1.61
36	BC	23	G	O3'-P	-7.34	1.52	1.61
38	BE	89	G	N1-C2	-7.34	1.31	1.37
40	BG	149	U	O4'-C1'	-7.34	1.32	1.41
41	BH	115	A	P-O5'	-7.34	1.52	1.59
85	AA	1000	U	C2-N3	-7.34	1.32	1.37
34	BA	1605	G	O3'-P	-7.34	1.52	1.61
40	BG	156	G	N3-C4	-7.34	1.30	1.35
34	BA	960	C	C2-N3	-7.34	1.29	1.35
34	BA	1202	G	N9-C8	-7.34	1.32	1.37
34	BA	1483	U	C1'-N1	-7.34	1.36	1.46
34	BA	1599	A	C4'-C3'	-7.34	1.45	1.53
34	BA	1843	G	C1'-N9	-7.34	1.36	1.46
35	BB	1418	C	C2-N3	-7.34	1.29	1.35
40	BG	54	G	O3'-P	-7.34	1.52	1.61
40	BG	78	C	P-O5'	-7.34	1.52	1.59
85	AA	923	A	C4'-C3'	-7.34	1.45	1.53
85	AA	1247	A	C4'-C3'	-7.34	1.45	1.53
85	AA	1549	G	P-O5'	-7.34	1.52	1.59
85	AA	1730	C	P-O5'	-7.34	1.52	1.59
34	BA	385	U	P-O5'	-7.34	1.52	1.59
34	BA	1075	U	O3'-P	-7.34	1.52	1.61
34	BA	1833	G	C6-N1	-7.34	1.34	1.39
35	BB	111	C	C2'-C1'	-7.34	1.45	1.53
35	BB	648	G	C2-N2	-7.34	1.27	1.34
35	BB	793	A	C3'-C2'	-7.34	1.44	1.52
36	BC	73	U	C2'-C1'	-7.34	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	97	U	C4'-O4'	-7.34	1.36	1.45
85	AA	162	A	O3'-P	-7.34	1.52	1.61
85	AA	164	G	N9-C8	-7.34	1.32	1.37
85	AA	720	A	P-O5'	-7.34	1.52	1.59
85	AA	1221	G	N7-C5	-7.34	1.34	1.39
85	AA	2236	U	C3'-C2'	-7.34	1.44	1.52
34	BA	257	G	C3'-C2'	-7.34	1.44	1.52
34	BA	1816	G	N9-C8	-7.34	1.32	1.37
35	BB	1306	G	C1'-N9	-7.34	1.36	1.46
35	BB	1336	G	P-O5'	-7.34	1.52	1.59
36	BC	43	A	P-O5'	-7.34	1.52	1.59
85	AA	939	A	N9-C8	-7.34	1.31	1.37
34	BA	246	G	C6-N1	-7.34	1.34	1.39
34	BA	854	A	O3'-P	-7.34	1.52	1.61
34	BA	1226	G	C1'-N9	-7.34	1.36	1.46
34	BA	1443	U	N1-C2	-7.34	1.31	1.38
34	BA	1720	U	C4'-C3'	-7.34	1.45	1.53
35	BB	1071	G	P-O5'	-7.34	1.52	1.59
35	BB	1096	G	C3'-C2'	-7.34	1.44	1.52
35	BB	1356	G	P-O5'	-7.34	1.52	1.59
37	BD	38	U	O3'-P	-7.34	1.52	1.61
37	BD	79	G	C1'-N9	-7.34	1.36	1.46
85	AA	75	U	O3'-P	-7.34	1.52	1.61
85	AA	422	G	N1-C2	-7.34	1.31	1.37
85	AA	925	G	C6-N1	-7.34	1.34	1.39
34	BA	392	A	O3'-P	-7.33	1.52	1.61
34	BA	755	G	P-O5'	-7.33	1.52	1.59
34	BA	948	C	C2'-C1'	-7.33	1.45	1.53
85	AA	386	G	C3'-C2'	-7.33	1.44	1.52
85	AA	741	G	N1-C2	-7.33	1.31	1.37
35	BB	651	G	N9-C4	-7.33	1.32	1.38
35	BB	665	A	C6-N6	-7.33	1.28	1.33
85	AA	18	C	C2-N3	-7.33	1.29	1.35
85	AA	332	A	O3'-P	-7.33	1.52	1.61
85	AA	335	G	P-O5'	-7.33	1.52	1.59
85	AA	1563	U	O3'-P	-7.33	1.52	1.61
85	AA	1955	U	C2'-C1'	-7.33	1.45	1.53
34	BA	37	A	P-O5'	-7.33	1.52	1.59
34	BA	252	A	C1'-N9	-7.33	1.36	1.46
34	BA	749	G	C2'-C1'	-7.33	1.45	1.53
34	BA	889	U	C1'-N1	-7.33	1.36	1.46
34	BA	1063	G	C6-N1	-7.33	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1255	G	N7-C5	-7.33	1.34	1.39
34	BA	1430	C	P-O5'	-7.33	1.52	1.59
34	BA	1481	U	C4'-C3'	-7.33	1.45	1.53
35	BB	1102	U	C1'-N1	-7.33	1.36	1.46
35	BB	1214	U	P-O5'	-7.33	1.52	1.59
34	BA	37	A	O3'-P	-7.33	1.52	1.61
35	BB	1037	A	C1'-N9	-7.33	1.36	1.46
35	BB	1398	A	C5-C4	-7.33	1.33	1.38
85	AA	2095	U	P-O5'	-7.33	1.52	1.59
34	BA	743	A	C8-N7	7.33	1.36	1.31
34	BA	1305	A	C2'-C1'	-7.33	1.45	1.53
35	BB	485	U	O3'-P	-7.33	1.52	1.61
40	BG	81	G	C2'-C1'	-7.33	1.45	1.53
40	BG	125	C	C2'-C1'	-7.33	1.45	1.53
85	AA	702	G	C5-C4	-7.33	1.33	1.38
35	BB	787	A	C2'-C1'	-7.33	1.45	1.53
85	AA	701	C	C2'-C1'	-7.33	1.45	1.53
85	AA	775	C	N1-C6	-7.33	1.32	1.37
34	BA	497	U	C2-N3	-7.33	1.32	1.37
34	BA	856	G	C6-N1	-7.33	1.34	1.39
34	BA	914	G	N7-C5	-7.33	1.34	1.39
34	BA	986	G	C5-C4	-7.33	1.33	1.38
34	BA	992	A	C5-C4	-7.33	1.33	1.38
34	BA	1288	U	C3'-C2'	-7.33	1.44	1.52
35	BB	126	C	C4-C5	-7.33	1.37	1.43
35	BB	1301	U	O3'-P	-7.33	1.52	1.61
36	BC	104	A	C4'-C3'	-7.33	1.45	1.53
38	BE	160	C	O3'-P	-7.33	1.52	1.61
85	AA	413	G	C5'-C4'	-7.33	1.42	1.51
85	AA	1290	G	C4'-C3'	-7.33	1.45	1.53
85	AA	2221	A	N3-C4	-7.33	1.30	1.34
35	BB	592	G	C6-N1	-7.32	1.34	1.39
35	BB	983	C	O3'-P	-7.32	1.52	1.61
36	BC	41	A	C3'-C2'	-7.32	1.44	1.52
36	BC	88	A	N7-C5	-7.32	1.34	1.39
40	BG	108	G	C6-N1	-7.32	1.34	1.39
85	AA	40	A	N7-C5	-7.32	1.34	1.39
85	AA	503	A	N9-C4	-7.32	1.33	1.37
85	AA	1784	G	P-O5'	-7.32	1.52	1.59
34	BA	17	A	C4'-C3'	-7.32	1.45	1.53
34	BA	1611	A	P-O5'	-7.32	1.52	1.59
35	BB	25	A	C5'-C4'	-7.32	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	134	G	C2-N2	-7.32	1.27	1.34
85	AA	899	A	C5'-C4'	7.32	1.60	1.51
85	AA	1372	C	C2'-C1'	-7.32	1.45	1.53
34	BA	460	G	C3'-C2'	-7.32	1.44	1.52
34	BA	1520	A	C3'-C2'	-7.32	1.44	1.52
35	BB	35	G	C2-N2	-7.32	1.27	1.34
35	BB	998	G	O3'-P	-7.32	1.52	1.61
38	BE	178	G	N9-C4	-7.32	1.32	1.38
40	BG	38	A	C1'-N9	-7.32	1.36	1.46
85	AA	1708	A	C1'-N9	-7.32	1.36	1.46
85	AA	1857	G	P-O5'	-7.32	1.52	1.59
85	AA	2240	G	O3'-P	-7.32	1.52	1.61
35	BB	877	A	N9-C4	7.32	1.42	1.37
85	AA	816	A	N9-C4	7.32	1.42	1.37
85	AA	1197	U	C2'-C1'	-7.32	1.45	1.53
34	BA	1430	C	C1'-N1	-7.32	1.36	1.46
34	BA	1539	A	O3'-P	-7.32	1.52	1.61
35	BB	662	G	C6-N1	-7.32	1.34	1.39
35	BB	870	C	P-O5'	-7.32	1.52	1.59
35	BB	969	C	C2'-C1'	-7.32	1.45	1.53
35	BB	1384	A	O3'-P	-7.32	1.52	1.61
37	BD	105	G	C1'-N9	-7.32	1.36	1.46
85	AA	44	C	O3'-P	-7.32	1.52	1.61
85	AA	567	G	C2'-C1'	-7.32	1.45	1.53
85	AA	1129	A	N7-C5	-7.32	1.34	1.39
85	AA	1795	C	C2'-C1'	-7.32	1.45	1.53
85	AA	2197	A	C3'-C2'	-7.32	1.44	1.52
34	BA	70	C	C2'-C1'	-7.32	1.45	1.53
34	BA	235	C	P-O5'	-7.32	1.52	1.59
34	BA	722	A	N7-C5	-7.32	1.34	1.39
34	BA	1093	G	P-O5'	-7.32	1.52	1.59
34	BA	1408	C	C3'-C2'	-7.32	1.44	1.52
40	BG	100	G	C2'-C1'	-7.32	1.45	1.53
40	BG	148	C	O3'-P	-7.32	1.52	1.61
85	AA	2	A	N7-C5	-7.32	1.34	1.39
85	AA	1520	A	P-O5'	-7.32	1.52	1.59
35	BB	1067	G	N3-C4	-7.31	1.30	1.35
36	BC	129	C	C2'-C1'	-7.31	1.45	1.53
40	BG	4	A	N7-C5	-7.31	1.34	1.39
85	AA	1547	G	C2'-C1'	-7.31	1.45	1.53
34	BA	785	G	C6-N1	-7.31	1.34	1.39
34	BA	1552	C	O3'-P	-7.31	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	376	A	C5-C4	-7.31	1.33	1.38
35	BB	450	A	C4'-C3'	-7.31	1.45	1.53
35	BB	1232	A	O3'-P	-7.31	1.52	1.61
35	BB	1237	C	C1'-N1	-7.31	1.36	1.46
36	BC	41	A	O3'-P	-7.31	1.52	1.61
34	BA	382	G	N9-C4	7.31	1.43	1.38
35	BB	101	U	N3-C4	-7.31	1.31	1.38
35	BB	621	C	C3'-C2'	-7.31	1.44	1.52
36	BC	166	G	N7-C5	-7.31	1.34	1.39
37	BD	103	C	O3'-P	-7.31	1.52	1.61
40	BG	93	U	P-O5'	-7.31	1.52	1.59
85	AA	1667	C	C3'-C2'	-7.31	1.44	1.52
85	AA	2124	G	C1'-N9	-7.31	1.36	1.46
34	BA	541	C	C2'-C1'	-7.31	1.45	1.53
34	BA	1793	G	N3-C4	-7.31	1.30	1.35
41	BH	124	C	C4'-C3'	-7.31	1.45	1.53
85	AA	1468	G	C4'-C3'	7.31	1.61	1.53
34	BA	835	U	O3'-P	-7.31	1.52	1.61
34	BA	1516	G	C2'-C1'	-7.31	1.45	1.53
35	BB	381	C	P-O5'	-7.31	1.52	1.59
35	BB	1200	A	C3'-C2'	-7.31	1.44	1.52
35	BB	1242	C	O3'-P	-7.31	1.52	1.61
40	BG	129	G	O3'-P	-7.31	1.52	1.61
85	AA	312	G	C6-N1	-7.31	1.34	1.39
85	AA	2190	U	N3-C4	-7.31	1.31	1.38
34	BA	277	A	O3'-P	-7.31	1.52	1.61
34	BA	1156	U	C1'-N1	-7.31	1.36	1.46
34	BA	1547	G	O3'-P	-7.31	1.52	1.61
35	BB	1056	A	P-O5'	-7.31	1.52	1.59
40	BG	4	A	C2'-C1'	-7.31	1.45	1.53
85	AA	30	G	N9-C4	-7.31	1.32	1.38
34	BA	55	G	C2'-C1'	-7.30	1.45	1.53
34	BA	330	A	C5-C4	-7.30	1.33	1.38
34	BA	1552	C	C2-N3	-7.30	1.29	1.35
34	BA	1686	G	C5-C4	-7.30	1.33	1.38
35	BB	75	A	P-O5'	-7.30	1.52	1.59
35	BB	136	A	C4'-C3'	7.30	1.61	1.53
35	BB	431	U	O4'-C1'	-7.30	1.32	1.41
85	AA	575	G	O3'-P	-7.30	1.52	1.61
85	AA	1483	A	O3'-P	-7.30	1.52	1.61
34	BA	116	G	C4'-O4'	-7.30	1.36	1.45
34	BA	1559	C	C1'-N1	-7.30	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	119	G	C6-N1	-7.30	1.34	1.39
35	BB	1089	A	O3'-P	-7.30	1.52	1.61
35	BB	1186	A	P-O5'	-7.30	1.52	1.59
85	AA	1098	C	C2'-C1'	-7.30	1.45	1.53
34	BA	25	C	P-O5'	-7.30	1.52	1.59
34	BA	36	A	O3'-P	-7.30	1.52	1.61
34	BA	123	C	C2'-C1'	-7.30	1.45	1.53
34	BA	1601	C	O3'-P	-7.30	1.52	1.61
35	BB	443	A	O3'-P	-7.30	1.52	1.61
35	BB	587	A	C8-N7	-7.30	1.26	1.31
35	BB	617	C	C3'-C2'	-7.30	1.44	1.52
85	AA	96	C	C2'-C1'	-7.30	1.45	1.53
34	BA	373	G	N9-C4	-7.30	1.32	1.38
34	BA	937	G	O3'-P	-7.30	1.52	1.61
34	BA	1025	A	N7-C5	-7.30	1.34	1.39
34	BA	1219	G	O3'-P	-7.30	1.52	1.61
34	BA	1621	U	P-O5'	-7.30	1.52	1.59
34	BA	1654	G	N9-C4	-7.30	1.32	1.38
35	BB	80	C	N3-C4	-7.30	1.28	1.33
35	BB	1126	A	P-O5'	-7.30	1.52	1.59
36	BC	143	C	C2-N3	-7.30	1.29	1.35
38	BE	35	A	O3'-P	-7.30	1.52	1.61
38	BE	97	G	N9-C4	-7.30	1.32	1.38
85	AA	424	A	C6-N6	-7.30	1.28	1.33
85	AA	659	A	C3'-C2'	-7.30	1.44	1.52
85	AA	1117	G	O4'-C1'	-7.30	1.32	1.41
34	BA	401	A	C2'-C1'	-7.30	1.45	1.53
35	BB	664	A	N9-C4	-7.30	1.33	1.37
38	BE	178	G	C1'-N9	-7.30	1.36	1.46
40	BG	152	G	O3'-P	-7.30	1.52	1.61
85	AA	688	C	O3'-P	-7.30	1.52	1.61
85	AA	918	U	P-O5'	-7.30	1.52	1.59
85	AA	1987	G	O3'-P	-7.30	1.52	1.61
34	BA	1158	A	O3'-P	-7.30	1.52	1.61
35	BB	839	G	C2-N2	-7.30	1.27	1.34
85	AA	521	A	C1'-N9	-7.30	1.36	1.46
85	AA	652	U	O3'-P	-7.30	1.52	1.61
85	AA	869	A	N3-C4	-7.30	1.30	1.34
85	AA	881	C	P-O5'	-7.30	1.52	1.59
85	AA	1269	A	C5-C4	-7.30	1.33	1.38
85	AA	1524	A	C3'-C2'	-7.30	1.44	1.52
85	AA	2014	G	N9-C4	-7.30	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	79	C	C2'-C1'	-7.29	1.45	1.53
34	BA	1456	C	C2'-C1'	-7.29	1.45	1.53
85	AA	1655	G	N9-C8	-7.29	1.32	1.37
34	BA	234	A	C3'-C2'	-7.29	1.44	1.52
34	BA	297	A	N7-C5	-7.29	1.34	1.39
34	BA	982	A	C5-C4	-7.29	1.33	1.38
34	BA	1136	A	P-O5'	-7.29	1.52	1.59
34	BA	1238	C	O3'-P	-7.29	1.52	1.61
35	BB	1214	U	C3'-C2'	-7.29	1.44	1.52
35	BB	1258	G	N9-C4	-7.29	1.32	1.38
38	BE	130	G	C2'-C1'	-7.29	1.45	1.53
34	BA	605	G	C2-N3	7.29	1.38	1.32
34	BA	702	G	C2-N2	-7.29	1.27	1.34
34	BA	1676	A	C3'-C2'	-7.29	1.44	1.52
34	BA	1707	C	C2-N3	-7.29	1.29	1.35
34	BA	1806	A	C5-C4	-7.29	1.33	1.38
34	BA	1831	A	P-O5'	-7.29	1.52	1.59
40	BG	126	G	C1'-N9	-7.29	1.36	1.46
85	AA	1263	G	N3-C4	-7.29	1.30	1.35
34	BA	395	G	N9-C4	-7.29	1.32	1.38
34	BA	784	C	O3'-P	-7.29	1.52	1.61
34	BA	1642	A	C1'-N9	-7.29	1.36	1.46
35	BB	692	G	O3'-P	-7.29	1.52	1.61
36	BC	66	G	C1'-N9	-7.29	1.36	1.46
85	AA	482	C	O3'-P	-7.29	1.52	1.61
86	AB	8	U	O3'-P	-7.29	1.52	1.61
35	BB	408	U	P-O5'	-7.29	1.52	1.59
85	AA	1891	U	P-O5'	-7.29	1.52	1.59
34	BA	1031	U	O3'-P	-7.29	1.52	1.61
34	BA	1840	C	C2-N3	-7.29	1.29	1.35
85	AA	1485	G	N9-C4	-7.29	1.32	1.38
85	AA	1594	G	C2'-C1'	-7.29	1.45	1.53
34	BA	198	U	C1'-N1	-7.29	1.36	1.46
34	BA	376	U	C1'-N1	-7.29	1.36	1.46
34	BA	400	A	C6-N1	-7.29	1.30	1.35
34	BA	581	U	C3'-O3'	7.29	1.52	1.42
34	BA	811	C	C2'-C1'	-7.29	1.45	1.53
34	BA	1473	A	P-O5'	-7.29	1.52	1.59
35	BB	768	A	P-O5'	-7.29	1.52	1.59
35	BB	1100	C	C4'-C3'	-7.29	1.45	1.53
85	AA	423	G	C2'-C1'	-7.29	1.45	1.53
85	AA	2053	A	C2'-C1'	-7.29	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	487	A	N3-C4	-7.28	1.30	1.34
34	BA	987	C	C3'-C2'	-7.28	1.44	1.52
34	BA	1249	G	C1'-N9	-7.28	1.36	1.46
34	BA	1615	A	C1'-N9	-7.28	1.36	1.46
35	BB	482	A	N7-C5	-7.28	1.34	1.39
35	BB	695	U	N3-C4	-7.28	1.31	1.38
38	BE	163	A	C8-N7	-7.28	1.26	1.31
40	BG	135	C	C2'-C1'	-7.28	1.45	1.53
40	BG	155	A	O3'-P	-7.28	1.52	1.61
40	BG	182	G	C8-N7	-7.28	1.26	1.30
85	AA	247	G	C2'-C1'	-7.28	1.45	1.53
85	AA	1117	G	P-O5'	-7.28	1.52	1.59
34	BA	3	G	C5'-C4'	-7.28	1.42	1.51
36	BC	57	C	O3'-P	-7.28	1.52	1.61
85	AA	168	A	N9-C4	7.28	1.42	1.37
85	AA	1127	G	C2'-C1'	-7.28	1.45	1.53
34	BA	169	C	C2'-C1'	-7.28	1.45	1.53
34	BA	572	G	C1'-N9	7.28	1.59	1.48
34	BA	1337	A	P-O5'	-7.28	1.52	1.59
35	BB	27	C	C2-N3	-7.28	1.29	1.35
35	BB	637	G	N7-C5	-7.28	1.34	1.39
35	BB	658	G	C1'-N9	-7.28	1.36	1.46
35	BB	1247	C	P-O5'	-7.28	1.52	1.59
38	BE	42	C	O3'-P	-7.28	1.52	1.61
85	AA	754	C	C4'-C3'	-7.28	1.45	1.53
85	AA	1209	U	N3-C4	-7.28	1.31	1.38
34	BA	911	G	C5-C4	-7.28	1.33	1.38
35	BB	980	G	P-O5'	-7.28	1.52	1.59
37	BD	75	G	C2'-C1'	-7.28	1.45	1.53
40	BG	1	G	N1-C2	-7.28	1.31	1.37
40	BG	142	A	C5-C4	-7.28	1.33	1.38
34	BA	36	A	N7-C5	-7.28	1.34	1.39
34	BA	91	C	P-O5'	-7.28	1.52	1.59
34	BA	355	U	O3'-P	-7.28	1.52	1.61
34	BA	1648	G	N7-C5	-7.28	1.34	1.39
35	BB	79	U	C2-N3	-7.28	1.32	1.37
35	BB	1004	A	C3'-C2'	-7.28	1.44	1.52
36	BC	149	A	N9-C4	7.28	1.42	1.37
37	BD	54	A	P-O5'	-7.28	1.52	1.59
40	BG	106	G	C1'-N9	-7.28	1.36	1.46
85	AA	286	C	C3'-C2'	-7.28	1.44	1.52
85	AA	428	G	C5-C4	-7.28	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	459	C	O3'-P	-7.28	1.52	1.61
85	AA	805	A	O3'-P	-7.28	1.52	1.61
85	AA	1515	A	C4'-C3'	-7.28	1.45	1.53
85	AA	1657	C	P-O5'	-7.28	1.52	1.59
85	AA	2167	A	C2'-C1'	-7.28	1.45	1.53
34	BA	443	U	O3'-P	-7.28	1.52	1.61
34	BA	852	C	N3-C4	-7.28	1.28	1.33
34	BA	946	A	C4'-O4'	-7.28	1.36	1.45
35	BB	961	G	P-O5'	-7.28	1.52	1.59
35	BB	1372	G	N1-C2	-7.28	1.31	1.37
38	BE	8	G	O3'-P	-7.28	1.52	1.61
85	AA	151	A	O3'-P	-7.28	1.52	1.61
85	AA	2139	G	C4'-C3'	-7.28	1.45	1.53
85	AA	2184	A	C2'-C1'	-7.28	1.45	1.53
34	BA	1287	G	O3'-P	-7.27	1.52	1.61
35	BB	560	C	O3'-P	-7.27	1.52	1.61
35	BB	837	A	C3'-C2'	-7.27	1.44	1.52
85	AA	258	G	C5-C4	-7.27	1.33	1.38
34	BA	135	G	C2'-C1'	-7.27	1.45	1.53
34	BA	344	G	C5-C4	-7.27	1.33	1.38
34	BA	496	G	C6-N1	-7.27	1.34	1.39
34	BA	1006	G	N1-C2	-7.27	1.31	1.37
34	BA	1089	U	P-O5'	-7.27	1.52	1.59
34	BA	1443	U	C4'-O4'	-7.27	1.36	1.45
35	BB	498	G	P-O5'	-7.27	1.52	1.59
35	BB	675	U	N3-C4	-7.27	1.31	1.38
35	BB	1219	A	N9-C4	-7.27	1.33	1.37
35	BB	1482	A	N9-C4	-7.27	1.33	1.37
37	BD	13	A	P-O5'	-7.27	1.52	1.59
38	BE	200	A	C1'-N9	-7.27	1.36	1.46
39	BF	69	A	C1'-N9	-7.27	1.36	1.46
85	AA	1998	A	C2'-C1'	-7.27	1.45	1.53
34	BA	49	A	C8-N7	-7.27	1.26	1.31
34	BA	698	U	C2'-C1'	-7.27	1.45	1.53
35	BB	116	G	C6-N1	-7.27	1.34	1.39
38	BE	182	U	P-O5'	-7.27	1.52	1.59
41	BH	106	G	C1'-N9	-7.27	1.36	1.46
85	AA	107	A	C2'-C1'	-7.27	1.45	1.53
85	AA	1496	U	C3'-C2'	-7.27	1.44	1.52
85	AA	1551	G	N7-C5	-7.27	1.34	1.39
86	AB	61	C	P-O5'	-7.27	1.52	1.59
34	BA	75	U	N3-C4	-7.27	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	529	A	P-O5'	-7.27	1.52	1.59
34	BA	1483	U	C3'-C2'	-7.27	1.44	1.52
35	BB	841	U	N3-C4	-7.27	1.31	1.38
35	BB	872	A	C3'-C2'	-7.27	1.44	1.52
35	BB	1021	C	C1'-N1	-7.27	1.36	1.46
36	BC	160	C	C2-N3	-7.27	1.29	1.35
40	BG	65	C	C3'-C2'	-7.27	1.44	1.52
40	BG	92	U	C1'-N1	-7.27	1.36	1.46
86	AB	49	C	O3'-P	-7.27	1.52	1.61
34	BA	709	C	O3'-P	-7.27	1.52	1.61
34	BA	1575	U	C3'-C2'	-7.27	1.44	1.52
35	BB	397	C	C2-N3	-7.27	1.29	1.35
35	BB	1341	U	C5'-C4'	-7.27	1.42	1.51
35	BB	1395	G	C2'-C1'	-7.27	1.45	1.53
37	BD	74	A	C1'-N9	-7.27	1.36	1.46
38	BE	165	U	P-O5'	-7.27	1.52	1.59
40	BG	148	C	C5'-C4'	-7.27	1.42	1.51
85	AA	307	G	N7-C5	-7.27	1.34	1.39
85	AA	1229	G	C6-N1	-7.27	1.34	1.39
85	AA	1883	C	P-O5'	-7.27	1.52	1.59
35	BB	495	A	C1'-N9	-7.27	1.36	1.46
35	BB	833	G	C2'-C1'	-7.27	1.45	1.53
85	AA	1548	A	C2'-C1'	-7.27	1.45	1.53
34	BA	255	G	P-O5'	-7.26	1.52	1.59
34	BA	1032	A	O3'-P	-7.26	1.52	1.61
34	BA	1056	C	O3'-P	-7.26	1.52	1.61
35	BB	1182	A	C3'-C2'	-7.26	1.44	1.52
35	BB	1359	G	C1'-N9	-7.26	1.36	1.46
40	BG	105	A	C3'-C2'	-7.26	1.44	1.52
41	BH	21	G	C4'-C3'	-7.26	1.45	1.53
34	BA	700	G	C1'-N9	-7.26	1.36	1.46
38	BE	171	U	P-O5'	-7.26	1.52	1.59
38	BE	196	C	C2-N3	-7.26	1.29	1.35
34	BA	575	U	C5'-C4'	7.26	1.60	1.51
35	BB	37	C	O3'-P	-7.26	1.52	1.61
35	BB	831	C	C2-N3	-7.26	1.29	1.35
35	BB	1155	U	C3'-C2'	-7.26	1.44	1.52
35	BB	1382	U	C3'-C2'	-7.26	1.44	1.52
37	BD	87	G	N9-C4	-7.26	1.32	1.38
38	BE	32	U	C4'-O4'	-7.26	1.36	1.45
40	BG	61	A	C1'-N9	-7.26	1.36	1.46
40	BG	118	U	O3'-P	-7.26	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	118	U	C3'-C2'	-7.26	1.44	1.52
85	AA	310	U	P-O5'	-7.26	1.52	1.59
85	AA	1207	C	P-O5'	-7.26	1.52	1.59
85	AA	1281	G	C5-C4	-7.26	1.33	1.38
34	BA	1413	G	N7-C5	-7.26	1.34	1.39
34	BA	1590	G	N1-C2	-7.26	1.31	1.37
35	BB	1237	C	O3'-P	-7.26	1.52	1.61
35	BB	1524	G	C2'-C1'	-7.26	1.45	1.53
36	BC	18	G	C2-N2	-7.26	1.27	1.34
38	BE	198	A	C2'-C1'	-7.26	1.45	1.53
85	AA	102	A	C2'-C1'	-7.26	1.45	1.53
34	BA	830	U	C2'-C1'	-7.26	1.45	1.53
35	BB	808	U	N3-C4	-7.26	1.31	1.38
85	AA	1116	G	C2'-C1'	-7.26	1.45	1.53
34	BA	1334	G	C2'-C1'	-7.26	1.45	1.53
35	BB	598	C	C2'-C1'	-7.26	1.45	1.53
35	BB	648	G	C2'-C1'	-7.26	1.45	1.53
35	BB	801	G	P-O5'	-7.26	1.52	1.59
35	BB	1109	A	C2'-C1'	-7.26	1.45	1.53
35	BB	1194	A	N7-C5	-7.26	1.34	1.39
85	AA	105	A	C1'-N9	-7.26	1.36	1.46
85	AA	329	G	C2'-C1'	-7.26	1.45	1.53
85	AA	1216	A	C5'-C4'	-7.26	1.42	1.51
35	BB	485	U	C3'-C2'	-7.25	1.44	1.52
35	BB	543	G	C6-N1	-7.25	1.34	1.39
35	BB	1023	G	C2'-C1'	-7.25	1.45	1.53
85	AA	488	G	N9-C8	-7.25	1.32	1.37
85	AA	1137	C	O3'-P	-7.25	1.52	1.61
85	AA	2181	G	O4'-C1'	-7.25	1.32	1.41
34	BA	1840	C	C4'-C3'	-7.25	1.45	1.53
35	BB	669	A	N7-C5	-7.25	1.34	1.39
35	BB	1096	G	C5-C4	-7.25	1.33	1.38
37	BD	60	C	C2-N3	-7.25	1.29	1.35
85	AA	736	U	C3'-C2'	-7.25	1.44	1.52
85	AA	2192	A	C5-C4	-7.25	1.33	1.38
34	BA	363	G	O3'-P	-7.25	1.52	1.61
35	BB	675	U	C3'-C2'	-7.25	1.44	1.52
40	BG	31	G	C1'-N9	-7.25	1.36	1.46
40	BG	109	C	C2'-C1'	-7.25	1.45	1.53
85	AA	104	C	C2-N3	-7.25	1.29	1.35
85	AA	1267	A	C2'-C1'	-7.25	1.45	1.53
85	AA	2121	G	C6-N1	-7.25	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	183	G	C2'-C1'	-7.25	1.45	1.53
35	BB	808	U	P-O5'	-7.25	1.52	1.59
35	BB	1018	U	C3'-C2'	-7.25	1.44	1.52
35	BB	1317	U	P-O5'	-7.25	1.52	1.59
34	BA	134	U	C2'-C1'	-7.25	1.45	1.53
34	BA	308	C	C3'-C2'	-7.25	1.44	1.52
34	BA	394	A	O3'-P	-7.25	1.52	1.61
35	BB	816	U	C4'-C3'	-7.25	1.45	1.53
36	BC	119	G	C1'-N9	-7.25	1.36	1.46
36	BC	140	U	C4-C5	-7.25	1.37	1.43
38	BE	108	U	P-O5'	-7.25	1.52	1.59
34	BA	371	U	C3'-C2'	-7.25	1.44	1.52
34	BA	1454	G	C5-C6	-7.25	1.35	1.42
35	BB	845	C	C2'-C1'	-7.25	1.45	1.53
38	BE	28	C	C3'-C2'	-7.25	1.44	1.52
38	BE	36	U	C2-N3	-7.25	1.32	1.37
85	AA	28	A	N9-C4	-7.25	1.33	1.37
85	AA	197	C	C5'-C4'	7.25	1.60	1.51
85	AA	885	A	C2'-C1'	-7.25	1.45	1.53
85	AA	2072	G	O3'-P	-7.25	1.52	1.61
35	BB	806	U	C2-N3	-7.25	1.32	1.37
36	BC	6	G	C5-C4	-7.25	1.33	1.38
41	BH	31	A	C2'-C1'	-7.25	1.45	1.53
85	AA	518	A	C5'-C4'	7.25	1.60	1.51
85	AA	1125	G	C5-C4	-7.25	1.33	1.38
85	AA	1203	G	O3'-P	-7.25	1.52	1.61
85	AA	1487	G	C5-C4	-7.25	1.33	1.38
85	AA	1687	U	P-O5'	-7.25	1.52	1.59
34	BA	15	G	C5-C6	-7.24	1.35	1.42
34	BA	305	C	O3'-P	-7.24	1.52	1.61
35	BB	90	G	N9-C4	-7.24	1.32	1.38
35	BB	1024	G	N9-C4	7.24	1.43	1.38
36	BC	37	U	C1'-N1	-7.24	1.36	1.46
38	BE	129	G	N9-C4	-7.24	1.32	1.38
38	BE	149	A	N7-C5	-7.24	1.34	1.39
40	BG	118	U	C2'-C1'	-7.24	1.45	1.53
85	AA	819	G	C1'-N9	-7.24	1.36	1.46
86	AB	48	C	O3'-P	-7.24	1.52	1.61
34	BA	1210	A	O3'-P	-7.24	1.52	1.61
35	BB	432	C	C4'-O4'	-7.24	1.36	1.45
35	BB	1440	A	C5-C4	-7.24	1.33	1.38
37	BD	76	U	C2'-C1'	-7.24	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	128	U	C2'-C1'	-7.24	1.45	1.53
85	AA	307	G	N9-C4	-7.24	1.32	1.38
85	AA	381	A	O3'-P	-7.24	1.52	1.61
85	AA	660	G	C2'-C1'	-7.24	1.45	1.53
34	BA	269	G	C2-N3	-7.24	1.26	1.32
34	BA	1566	G	N7-C5	-7.24	1.34	1.39
35	BB	399	A	N7-C5	-7.24	1.34	1.39
36	BC	52	A	C2'-C1'	-7.24	1.45	1.53
36	BC	63	G	C1'-N9	-7.24	1.36	1.46
41	BH	21	G	N9-C4	-7.24	1.32	1.38
85	AA	752	C	O3'-P	-7.24	1.52	1.61
85	AA	886	A	C4'-C3'	-7.24	1.45	1.53
85	AA	892	C	P-O5'	-7.24	1.52	1.59
85	AA	1222	A	O3'-P	-7.24	1.52	1.61
85	AA	1484	G	C5-C4	-7.24	1.33	1.38
85	AA	1841	G	O3'-P	-7.24	1.52	1.61
34	BA	805	A	N3-C4	-7.24	1.30	1.34
34	BA	854	A	P-O5'	-7.24	1.52	1.59
34	BA	997	U	N3-C4	-7.24	1.31	1.38
35	BB	1102	U	C2'-C1'	-7.24	1.45	1.53
85	AA	256	A	P-O5'	-7.24	1.52	1.59
34	BA	1202	G	C5-C4	-7.24	1.33	1.38
40	BG	36	G	C6-N1	-7.24	1.34	1.39
85	AA	1638	C	O3'-P	-7.24	1.52	1.61
34	BA	3	G	O3'-P	-7.24	1.52	1.61
34	BA	351	A	C4'-C3'	-7.24	1.45	1.53
34	BA	1099	U	C4'-C3'	-7.24	1.45	1.53
34	BA	1105	A	P-O5'	-7.24	1.52	1.59
34	BA	1281	U	N3-C4	-7.24	1.31	1.38
34	BA	1722	U	C2'-C1'	-7.24	1.45	1.53
35	BB	68	G	N3-C4	-7.24	1.30	1.35
85	AA	710	A	N3-C4	-7.24	1.30	1.34
85	AA	2193	A	C4'-C3'	-7.24	1.45	1.53
34	BA	254	U	N3-C4	-7.23	1.31	1.38
34	BA	796	G	C8-N7	-7.23	1.26	1.30
35	BB	868	C	P-O5'	-7.23	1.52	1.59
35	BB	1111	C	P-O5'	-7.23	1.52	1.59
35	BB	1388	A	C1'-N9	-7.23	1.36	1.46
40	BG	45	G	C1'-N9	-7.23	1.36	1.46
34	BA	463	A	C1'-N9	-7.23	1.36	1.46
35	BB	558	U	C2'-C1'	-7.23	1.45	1.53
35	BB	1286	G	N9-C4	-7.23	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	132	C	O3'-P	-7.23	1.52	1.61
85	AA	480	U	P-O5'	-7.23	1.52	1.59
85	AA	1491	G	O3'-P	-7.23	1.52	1.61
34	BA	312	U	C2-N3	-7.23	1.32	1.37
34	BA	450	G	C4'-C3'	-7.23	1.45	1.53
34	BA	953	G	C6-N1	-7.23	1.34	1.39
35	BB	1355	C	C4'-C3'	-7.23	1.45	1.53
36	BC	129	C	O3'-P	-7.23	1.52	1.61
38	BE	122	G	O3'-P	-7.23	1.52	1.61
85	AA	1156	A	C2'-C1'	-7.23	1.45	1.53
85	AA	1180	C	C4'-C3'	-7.23	1.45	1.53
40	BG	100	G	P-O5'	-7.23	1.52	1.59
41	BH	113	G	C5-C4	-7.23	1.33	1.38
85	AA	882	C	C2'-C1'	-7.23	1.45	1.53
85	AA	2150	G	P-O5'	-7.23	1.52	1.59
35	BB	877	A	O3'-P	-7.23	1.52	1.61
35	BB	1226	G	C5-C4	-7.23	1.33	1.38
85	AA	165	C	C4'-C3'	-7.23	1.45	1.53
85	AA	1168	C	O3'-P	-7.23	1.52	1.61
34	BA	376	U	C3'-C2'	-7.23	1.44	1.52
34	BA	763	U	N1-C6	-7.23	1.31	1.38
34	BA	1149	C	C4-N4	-7.23	1.27	1.33
34	BA	1320	A	C3'-C2'	-7.23	1.44	1.52
34	BA	1385	U	P-O5'	-7.23	1.52	1.59
34	BA	659	U	O3'-P	-7.22	1.52	1.61
34	BA	1181	G	C3'-C2'	-7.22	1.44	1.52
35	BB	553	U	O3'-P	-7.22	1.52	1.61
35	BB	674	C	P-O5'	-7.22	1.52	1.59
35	BB	1004	A	O3'-P	-7.22	1.52	1.61
35	BB	1054	G	P-O5'	-7.22	1.52	1.59
37	BD	96	C	C3'-C2'	-7.22	1.44	1.52
85	AA	35	U	C3'-C2'	-7.22	1.44	1.52
85	AA	2051	G	C2'-C1'	-7.22	1.45	1.53
34	BA	264	A	O3'-P	-7.22	1.52	1.61
34	BA	1225	A	N3-C4	-7.22	1.30	1.34
34	BA	1271	C	C3'-C2'	-7.22	1.44	1.52
34	BA	1646	U	C2'-C1'	-7.22	1.45	1.53
35	BB	518	G	O3'-P	-7.22	1.52	1.61
35	BB	698	C	P-O5'	-7.22	1.52	1.59
35	BB	1506	C	C5'-C4'	7.22	1.60	1.51
36	BC	80	A	N9-C4	-7.22	1.33	1.37
85	AA	95	U	O3'-P	-7.22	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	379	U	O3'-P	-7.22	1.52	1.61
85	AA	2073	U	C2-N3	-7.22	1.32	1.37
34	BA	18	G	C6-N1	7.22	1.44	1.39
34	BA	735	A	C1'-N9	-7.22	1.36	1.46
35	BB	121	A	O3'-P	-7.22	1.52	1.61
35	BB	1093	C	C2'-C1'	-7.22	1.45	1.53
35	BB	1259	A	N3-C4	-7.22	1.30	1.34
65	Bf	376	ARG	CD-NE	7.22	1.58	1.46
85	AA	365	G	C6-N1	-7.22	1.34	1.39
85	AA	2174	G	C6-N1	-7.22	1.34	1.39
34	BA	1412	G	N7-C5	-7.22	1.34	1.39
35	BB	831	C	P-O5'	-7.22	1.52	1.59
35	BB	1354	C	C5'-C4'	-7.22	1.42	1.51
35	BB	1462	G	C4'-C3'	7.22	1.61	1.53
41	BH	51	C	C2'-C1'	-7.22	1.45	1.53
85	AA	490	A	C4'-C3'	-7.22	1.45	1.53
85	AA	2035	C	O3'-P	-7.22	1.52	1.61
85	AA	2067	A	C2'-C1'	-7.22	1.45	1.53
85	AA	2112	G	P-O5'	-7.22	1.52	1.59
85	AA	2218	G	N9-C8	-7.22	1.32	1.37
34	BA	421	G	C3'-C2'	-7.22	1.44	1.52
35	BB	385	C	O3'-P	-7.22	1.52	1.61
35	BB	388	C	O3'-P	-7.22	1.52	1.61
41	BH	44	A	C5-C4	-7.22	1.33	1.38
85	AA	1371	C	P-O5'	-7.22	1.52	1.59
85	AA	1712	A	C2'-C1'	-7.22	1.45	1.53
85	AA	2083	G	C4'-C3'	-7.22	1.45	1.53
34	BA	239	C	N3-C4	7.22	1.39	1.33
34	BA	1203	G	C6-N1	-7.22	1.34	1.39
35	BB	34	G	N7-C5	-7.22	1.34	1.39
35	BB	66	G	C2'-C1'	-7.22	1.45	1.53
37	BD	66	G	C1'-N9	-7.22	1.36	1.46
38	BE	32	U	C2-N3	-7.22	1.32	1.37
39	BF	37	C	C2'-C1'	-7.22	1.45	1.53
40	BG	104	A	N7-C5	-7.22	1.34	1.39
34	BA	39	C	O3'-P	-7.21	1.52	1.61
34	BA	527	C	C2'-C1'	-7.21	1.45	1.53
34	BA	1529	G	C2-N2	-7.21	1.27	1.34
34	BA	1477	C	O3'-P	-7.21	1.52	1.61
34	BA	1828	A	N7-C5	-7.21	1.34	1.39
35	BB	1286	G	C1'-N9	-7.21	1.36	1.46
35	BB	1294	C	C5'-C4'	-7.21	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	104	A	C6-N1	-7.21	1.30	1.35
85	AA	1872	G	C2'-C1'	-7.21	1.45	1.53
34	BA	128	C	C2-N3	-7.21	1.29	1.35
34	BA	403	A	O3'-P	-7.21	1.52	1.61
34	BA	891	C	C2-N3	-7.21	1.29	1.35
34	BA	1561	C	C1'-N1	-7.21	1.36	1.46
34	BA	1683	C	N1-C6	-7.21	1.32	1.37
35	BB	80	C	C3'-C2'	-7.21	1.44	1.52
35	BB	487	A	O3'-P	-7.21	1.52	1.61
36	BC	65	G	C2'-C1'	-7.21	1.45	1.53
36	BC	78	G	C5-C4	-7.21	1.33	1.38
40	BG	95	U	N1-C6	-7.21	1.31	1.38
85	AA	1467	U	P-O5'	-7.21	1.52	1.59
85	AA	1470	A	C2'-C1'	-7.21	1.45	1.53
85	AA	2127	G	O3'-P	-7.21	1.52	1.61
34	BA	1562	G	C1'-N9	-7.21	1.36	1.46
35	BB	508	U	C3'-C2'	-7.21	1.44	1.52
35	BB	622	G	C6-N1	-7.21	1.34	1.39
35	BB	626	C	O3'-P	-7.21	1.52	1.61
35	BB	1048	A	C4'-C3'	-7.21	1.45	1.53
35	BB	1194	A	C1'-N9	-7.21	1.36	1.46
85	AA	1269	A	P-O5'	-7.21	1.52	1.59
34	BA	1172	C	O3'-P	-7.21	1.52	1.61
34	BA	1435	A	P-O5'	-7.21	1.52	1.59
34	BA	1467	U	C2-N3	-7.21	1.32	1.37
34	BA	1697	U	O4'-C1'	-7.21	1.32	1.41
85	AA	931	G	C1'-N9	-7.21	1.36	1.46
85	AA	2145	G	N9-C8	-7.21	1.32	1.37
34	BA	116	G	P-O5'	-7.21	1.52	1.59
34	BA	373	G	C2-N2	-7.21	1.27	1.34
34	BA	548	G	P-O5'	-7.21	1.52	1.59
34	BA	718	U	N1-C2	-7.21	1.32	1.38
34	BA	1346	U	P-O5'	-7.21	1.52	1.59
34	BA	1827	C	P-O5'	-7.21	1.52	1.59
35	BB	679	G	C1'-N9	-7.21	1.36	1.46
35	BB	692	G	P-O5'	-7.21	1.52	1.59
37	BD	49	A	O3'-P	-7.21	1.52	1.61
85	AA	1159	C	P-O5'	-7.21	1.52	1.59
85	AA	1680	U	C2-N3	-7.21	1.32	1.37
85	AA	2075	C	C1'-N1	-7.21	1.36	1.46
34	BA	671	C	P-O5'	-7.21	1.52	1.59
34	BA	1233	U	O3'-P	-7.21	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1433	U	C3'-C2'	-7.21	1.44	1.52
34	BA	1514	A	O4'-C1'	-7.21	1.32	1.41
40	BG	142	A	C3'-C2'	-7.21	1.44	1.52
41	BH	125	U	C2'-C1'	-7.21	1.45	1.53
85	AA	119	G	C1'-N9	-7.21	1.36	1.46
85	AA	2123	U	C2'-C1'	-7.21	1.45	1.53
34	BA	1830	A	C2'-C1'	-7.20	1.45	1.53
35	BB	15	C	O3'-P	-7.20	1.52	1.61
35	BB	458	U	C2-N3	-7.20	1.32	1.37
35	BB	628	A	C1'-N9	-7.20	1.36	1.46
85	AA	155	U	C2'-C1'	-7.20	1.45	1.53
85	AA	449	G	C1'-N9	-7.20	1.36	1.46
35	BB	73	G	O4'-C1'	-7.20	1.32	1.41
35	BB	1252	G	C1'-N9	-7.20	1.36	1.46
40	BG	91	U	C3'-C2'	-7.20	1.44	1.52
34	BA	1231	C	C2'-C1'	-7.20	1.45	1.53
35	BB	377	A	C4'-C3'	-7.20	1.45	1.53
35	BB	1050	A	C5-C4	-7.20	1.33	1.38
35	BB	1186	A	C1'-N9	-7.20	1.36	1.46
35	BB	1314	G	P-O5'	-7.20	1.52	1.59
40	BG	113	G	O3'-P	-7.20	1.52	1.61
85	AA	506	G	O3'-P	-7.20	1.52	1.61
85	AA	1456	A	C2'-C1'	-7.20	1.45	1.53
85	AA	1848	G	N9-C4	-7.20	1.32	1.38
34	BA	83	G	N9-C4	-7.20	1.32	1.38
34	BA	275	C	P-O5'	-7.20	1.52	1.59
34	BA	333	A	C2'-C1'	-7.20	1.45	1.53
34	BA	1323	G	C2-N2	-7.20	1.27	1.34
35	BB	1171	U	C2-N3	-7.20	1.32	1.37
37	BD	71	G	O3'-P	-7.20	1.52	1.61
37	BD	105	G	C5-C4	-7.20	1.33	1.38
40	BG	71	C	O3'-P	-7.20	1.52	1.61
85	AA	719	C	C2'-C1'	-7.20	1.45	1.53
34	BA	376	U	P-O5'	-7.20	1.52	1.59
35	BB	1033	U	O3'-P	-7.20	1.52	1.61
36	BC	116	C	C3'-C2'	-7.20	1.44	1.52
85	AA	959	C	C4'-C3'	-7.20	1.45	1.53
85	AA	1000	U	O3'-P	-7.20	1.52	1.61
85	AA	1470	A	C1'-N9	-7.20	1.36	1.46
34	BA	875	G	C2-N2	-7.20	1.27	1.34
34	BA	982	A	P-O5'	-7.20	1.52	1.59
34	BA	1417	C	C2-N3	-7.20	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	625	A	C2'-C1'	-7.20	1.45	1.53
35	BB	1429	A	P-O5'	-7.20	1.52	1.59
35	BB	1437	U	O3'-P	-7.20	1.52	1.61
41	BH	6	U	O3'-P	-7.20	1.52	1.61
85	AA	93	G	N7-C5	-7.20	1.34	1.39
85	AA	413	G	N1-C2	-7.20	1.31	1.37
85	AA	613	G	N9-C4	-7.20	1.32	1.38
85	AA	931	G	P-O5'	-7.20	1.52	1.59
85	AA	1227	A	N3-C4	-7.20	1.30	1.34
85	AA	1509	A	N7-C5	-7.20	1.34	1.39
85	AA	1893	G	N9-C4	-7.20	1.32	1.38
34	BA	724	A	C2'-C1'	-7.19	1.45	1.53
34	BA	1272	U	C2'-C1'	-7.19	1.45	1.53
35	BB	1241	U	P-O5'	-7.19	1.52	1.59
35	BB	1246	C	C2-N3	-7.19	1.29	1.35
35	BB	1302	C	P-O5'	-7.19	1.52	1.59
35	BB	1368	A	C5-C4	-7.19	1.33	1.38
85	AA	1268	C	P-O5'	-7.19	1.52	1.59
34	BA	591	G	N9-C4	-7.19	1.32	1.38
34	BA	816	G	C6-N1	-7.19	1.34	1.39
34	BA	1235	C	P-O5'	-7.19	1.52	1.59
34	BA	1419	A	O3'-P	-7.19	1.52	1.61
34	BA	1696	G	O3'-P	-7.19	1.52	1.61
35	BB	642	G	C3'-C2'	-7.19	1.44	1.52
35	BB	794	G	C3'-C2'	-7.19	1.44	1.52
35	BB	874	G	P-O5'	-7.19	1.52	1.59
40	BG	2	U	O3'-P	-7.19	1.52	1.61
40	BG	172	C	C2'-C1'	-7.19	1.45	1.53
85	AA	1126	G	N1-C2	-7.19	1.31	1.37
34	BA	390	A	C1'-N9	-7.19	1.36	1.46
35	BB	673	C	O3'-P	-7.19	1.52	1.61
35	BB	1006	C	P-O5'	-7.19	1.52	1.59
35	BB	1166	A	O3'-P	-7.19	1.52	1.61
40	BG	118	U	C1'-N1	-7.19	1.36	1.46
41	BH	17	A	N9-C4	-7.19	1.33	1.37
85	AA	20	G	C2-N2	-7.19	1.27	1.34
85	AA	31	C	C3'-C2'	-7.19	1.44	1.52
85	AA	529	G	N7-C5	-7.19	1.34	1.39
85	AA	867	G	N9-C8	-7.19	1.32	1.37
34	BA	336	A	N9-C4	-7.19	1.33	1.37
35	BB	1383	C	O3'-P	-7.19	1.52	1.61
35	BB	1470	G	C2'-C1'	-7.19	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	152	G	N1-C2	-7.19	1.31	1.37
34	BA	1299	G	P-O5'	-7.19	1.52	1.59
34	BA	1412	G	C1'-N9	-7.19	1.36	1.46
35	BB	63	A	N7-C5	-7.19	1.34	1.39
35	BB	1075	A	N3-C4	-7.19	1.30	1.34
35	BB	1407	U	P-O5'	-7.19	1.52	1.59
38	BE	194	A	C5-C6	-7.19	1.34	1.41
85	AA	409	C	C3'-C2'	-7.19	1.44	1.52
85	AA	1199	C	C5'-C4'	-7.19	1.42	1.51
34	BA	196	A	C4'-C3'	-7.19	1.45	1.53
34	BA	1180	A	O3'-P	-7.19	1.52	1.61
34	BA	1421	A	C1'-N9	-7.19	1.36	1.46
34	BA	1682	A	C4'-C3'	-7.19	1.45	1.53
40	BG	101	G	C6-N1	-7.19	1.34	1.39
40	BG	149	U	C2'-C1'	-7.19	1.45	1.53
34	BA	125	G	C1'-N9	-7.18	1.36	1.46
34	BA	1061	A	P-O5'	-7.18	1.52	1.59
34	BA	1157	A	C2'-C1'	-7.18	1.45	1.53
35	BB	576	A	C5-C4	-7.18	1.33	1.38
35	BB	678	U	C4'-O4'	-7.18	1.36	1.45
40	BG	33	G	N9-C8	-7.18	1.32	1.37
40	BG	40	G	C2'-C1'	-7.18	1.45	1.53
85	AA	654	A	N9-C4	-7.18	1.33	1.37
34	BA	543	A	C4'-C3'	-7.18	1.45	1.53
34	BA	1725	U	O3'-P	-7.18	1.52	1.61
35	BB	1172	U	P-O5'	-7.18	1.52	1.59
35	BB	1248	A	C2'-C1'	-7.18	1.45	1.53
41	BH	33	G	C3'-C2'	-7.18	1.44	1.52
85	AA	684	G	C5-C4	-7.18	1.33	1.38
85	AA	971	U	C2'-C1'	-7.18	1.45	1.53
85	AA	2139	G	C8-N7	-7.18	1.26	1.30
35	BB	1019	C	C4'-C3'	-7.18	1.45	1.53
35	BB	1064	U	O3'-P	-7.18	1.52	1.61
85	AA	210	G	N9-C4	-7.18	1.32	1.38
34	BA	101	G	C2'-C1'	-7.18	1.45	1.53
34	BA	1213	A	C2'-C1'	-7.18	1.45	1.53
34	BA	1776	G	O3'-P	-7.18	1.52	1.61
35	BB	567	G	O3'-P	-7.18	1.52	1.61
35	BB	1003	G	P-O5'	-7.18	1.52	1.59
38	BE	50	G	C6-N1	-7.18	1.34	1.39
40	BG	19	C	P-O5'	-7.18	1.52	1.59
85	AA	339	A	N9-C4	-7.18	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	817	G	N7-C5	-7.18	1.34	1.39
34	BA	1796	A	C5-C4	-7.18	1.33	1.38
34	BA	525	A	C2'-C1'	-7.18	1.45	1.53
34	BA	1205	A	N9-C4	-7.18	1.33	1.37
34	BA	1239	G	N1-C2	-7.18	1.32	1.37
38	BE	124	G	C2-N2	-7.18	1.27	1.34
40	BG	130	G	C2'-C1'	-7.18	1.45	1.53
41	BH	24	U	P-O5'	-7.18	1.52	1.59
85	AA	97	A	P-O5'	-7.18	1.52	1.59
85	AA	329	G	N9-C4	-7.18	1.32	1.38
85	AA	525	C	O3'-P	-7.18	1.52	1.61
85	AA	918	U	C4'-C3'	-7.18	1.45	1.53
85	AA	1460	G	N9-C8	-7.18	1.32	1.37
34	BA	1163	G	N7-C5	-7.17	1.34	1.39
34	BA	1403	G	N9-C4	-7.17	1.32	1.38
34	BA	1527	G	N9-C4	-7.17	1.32	1.38
35	BB	663	G	C6-N1	-7.17	1.34	1.39
35	BB	1026	G	N7-C5	-7.17	1.34	1.39
37	BD	38	U	P-O5'	-7.17	1.52	1.59
85	AA	49	C	O3'-P	-7.17	1.52	1.61
85	AA	755	G	N9-C4	7.17	1.43	1.38
34	BA	4	A	C3'-C2'	-7.17	1.44	1.52
34	BA	1118	C	C2'-C1'	-7.17	1.45	1.53
85	AA	2133	A	C8-N7	-7.17	1.26	1.31
34	BA	273	G	O3'-P	-7.17	1.52	1.61
34	BA	1485	U	N3-C4	-7.17	1.31	1.38
34	BA	1596	C	P-O5'	-7.17	1.52	1.59
34	BA	1650	G	P-O5'	-7.17	1.52	1.59
35	BB	128	C	P-O5'	-7.17	1.52	1.59
35	BB	372	U	O3'-P	-7.17	1.52	1.61
35	BB	558	U	P-O5'	-7.17	1.52	1.59
38	BE	203	C	C4-C5	-7.17	1.37	1.43
85	AA	108	C	O3'-P	-7.17	1.52	1.61
85	AA	1200	A	C1'-N9	-7.17	1.36	1.46
85	AA	1527	G	O3'-P	-7.17	1.52	1.61
85	AA	1593	C	O3'-P	-7.17	1.52	1.61
85	AA	2229	G	O3'-P	-7.17	1.52	1.61
34	BA	268	U	C1'-N1	-7.17	1.36	1.46
35	BB	1196	A	C2'-C1'	-7.17	1.45	1.53
37	BD	88	U	O3'-P	-7.17	1.52	1.61
34	BA	1010	C	C2-N3	-7.17	1.30	1.35
34	BA	1074	C	C3'-C2'	-7.17	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	87	G	N9-C4	-7.17	1.32	1.38
35	BB	466	A	O3'-P	-7.17	1.52	1.61
37	BD	62	A	P-O5'	-7.17	1.52	1.59
37	BD	107	G	C2-N2	-7.17	1.27	1.34
85	AA	210	G	C4'-C3'	-7.17	1.45	1.53
34	BA	2	A	N7-C5	-7.17	1.34	1.39
34	BA	934	G	N9-C4	-7.17	1.32	1.38
34	BA	1264	U	O3'-P	-7.17	1.52	1.61
35	BB	1082	A	N7-C5	-7.17	1.34	1.39
35	BB	1262	A	N7-C5	-7.17	1.34	1.39
36	BC	12	A	C1'-N9	-7.17	1.36	1.46
85	AA	925	G	C2'-C1'	-7.17	1.45	1.53
85	AA	1265	C	C2'-C1'	-7.17	1.45	1.53
34	BA	728	A	N7-C5	-7.17	1.34	1.39
34	BA	1161	G	C4'-C3'	7.17	1.61	1.53
34	BA	1652	G	C5-C4	-7.17	1.33	1.38
35	BB	1378	U	N3-C4	-7.17	1.32	1.38
85	AA	178	U	N1-C2	-7.17	1.32	1.38
85	AA	204	U	O3'-P	-7.17	1.52	1.61
85	AA	638	G	P-O5'	-7.17	1.52	1.59
34	BA	321	G	P-O5'	-7.16	1.52	1.59
34	BA	347	A	O3'-P	-7.16	1.52	1.61
34	BA	606	G	C3'-O3'	-7.16	1.32	1.42
34	BA	625	U	P-O5'	-7.16	1.52	1.59
34	BA	989	C	O3'-P	-7.16	1.52	1.61
34	BA	1026	C	C2-N3	-7.16	1.30	1.35
34	BA	1686	G	C4'-C3'	-7.16	1.45	1.53
34	BA	1740	U	P-O5'	-7.16	1.52	1.59
35	BB	137	A	C6-N6	-7.16	1.28	1.33
35	BB	591	A	O3'-P	-7.16	1.52	1.61
35	BB	1243	A	C2'-C1'	-7.16	1.45	1.53
38	BE	4	A	C2'-C1'	-7.16	1.45	1.53
85	AA	1472	G	N9-C4	-7.16	1.32	1.38
85	AA	1502	A	C3'-C2'	-7.16	1.44	1.52
85	AA	2027	U	P-O5'	-7.16	1.52	1.59
34	BA	218	G	C1'-N9	-7.16	1.36	1.46
34	BA	429	G	O3'-P	-7.16	1.52	1.61
34	BA	1701	U	C2'-C1'	-7.16	1.45	1.53
34	BA	786	U	O3'-P	-7.16	1.52	1.61
34	BA	1103	G	N1-C2	-7.16	1.32	1.37
34	BA	1251	A	P-O5'	-7.16	1.52	1.59
34	BA	1593	U	C2-N3	-7.16	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1272	G	N7-C5	-7.16	1.34	1.39
39	BF	23	G	N7-C5	-7.16	1.34	1.39
40	BG	80	G	C6-N1	-7.16	1.34	1.39
41	BH	29	G	C5-C6	-7.16	1.35	1.42
85	AA	384	C	C1'-N1	-7.16	1.36	1.46
85	AA	1680	U	P-O5'	-7.16	1.52	1.59
85	AA	1708	A	O3'-P	-7.16	1.52	1.61
34	BA	452	A	C5-C4	-7.16	1.33	1.38
35	BB	4	C	C3'-C2'	7.16	1.60	1.52
35	BB	1299	G	C3'-C2'	-7.16	1.44	1.52
35	BB	1305	A	O3'-P	-7.16	1.52	1.61
38	BE	13	A	N7-C5	-7.16	1.34	1.39
40	BG	35	G	O3'-P	-7.16	1.52	1.61
41	BH	39	G	C5-C4	-7.16	1.33	1.38
41	BH	114	G	C3'-C2'	-7.16	1.44	1.52
85	AA	644	A	N7-C5	-7.16	1.34	1.39
85	AA	1929	G	O3'-P	-7.16	1.52	1.61
34	BA	29	U	C3'-C2'	-7.16	1.44	1.52
34	BA	1845	G	C4'-C3'	-7.16	1.45	1.53
35	BB	94	A	N3-C4	-7.16	1.30	1.34
40	BG	162	A	C5-C4	-7.16	1.33	1.38
85	AA	1460	G	N3-C4	-7.16	1.30	1.35
34	BA	875	G	N9-C8	-7.16	1.32	1.37
34	BA	986	G	C3'-C2'	-7.16	1.44	1.52
34	BA	1493	U	C3'-O3'	7.16	1.52	1.42
34	BA	1806	A	N9-C8	-7.16	1.32	1.37
35	BB	1262	A	C2'-C1'	-7.16	1.45	1.53
41	BH	116	A	O3'-P	-7.16	1.52	1.61
85	AA	88	G	P-O5'	-7.16	1.52	1.59
85	AA	177	A	C3'-C2'	-7.16	1.44	1.52
85	AA	505	U	O4'-C1'	-7.16	1.32	1.41
85	AA	924	A	C2'-C1'	-7.16	1.45	1.53
85	AA	2229	G	N7-C5	-7.16	1.34	1.39
34	BA	735	A	N3-C4	-7.15	1.30	1.34
34	BA	1513	G	N9-C4	7.15	1.43	1.38
35	BB	49	A	N3-C4	-7.15	1.30	1.34
35	BB	976	U	C3'-C2'	-7.15	1.44	1.52
35	BB	1110	G	N7-C5	-7.15	1.34	1.39
35	BB	1294	C	O4'-C1'	-7.15	1.32	1.41
35	BB	1319	U	C5'-C4'	7.15	1.59	1.51
36	BC	91	G	C2'-C1'	-7.15	1.45	1.53
85	AA	302	C	C4'-C3'	7.15	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	975	G	C3'-C2'	-7.15	1.44	1.52
34	BA	105	U	C2-N3	-7.15	1.32	1.37
34	BA	565	U	C2-N3	-7.15	1.32	1.37
34	BA	579	U	C5'-C4'	-7.15	1.42	1.51
35	BB	379	U	C2-N3	-7.15	1.32	1.37
85	AA	7	G	C2'-C1'	-7.15	1.45	1.53
85	AA	1291	A	P-O5'	-7.15	1.52	1.59
34	BA	1679	C	P-O5'	-7.15	1.52	1.59
35	BB	121	A	C1'-N9	-7.15	1.36	1.46
35	BB	661	G	N9-C4	-7.15	1.32	1.38
35	BB	1446	C	C2-N3	-7.15	1.30	1.35
38	BE	2	G	C1'-N9	-7.15	1.36	1.46
38	BE	2	G	C6-N1	-7.15	1.34	1.39
40	BG	129	G	C6-N1	-7.15	1.34	1.39
41	BH	121	A	N7-C5	-7.15	1.34	1.39
85	AA	627	A	C1'-N9	-7.15	1.36	1.46
85	AA	1723	U	O3'-P	-7.15	1.52	1.61
34	BA	51	C	N3-C4	-7.15	1.28	1.33
35	BB	363	A	C2'-C1'	-7.15	1.45	1.53
35	BB	1137	G	N9-C4	-7.15	1.32	1.38
34	BA	46	C	O3'-P	-7.15	1.52	1.61
34	BA	103	G	C3'-C2'	-7.15	1.44	1.52
34	BA	337	C	C2-N3	-7.15	1.30	1.35
35	BB	119	G	N1-C2	-7.15	1.32	1.37
35	BB	1081	U	N3-C4	-7.15	1.32	1.38
35	BB	1321	G	P-O5'	-7.15	1.52	1.59
38	BE	62	C	C3'-C2'	-7.15	1.44	1.52
40	BG	65	C	C2-N3	-7.15	1.30	1.35
85	AA	4	C	C3'-C2'	-7.15	1.44	1.52
85	AA	249	C	C3'-C2'	-7.15	1.44	1.52
85	AA	309	G	N1-C2	-7.15	1.32	1.37
85	AA	1345	C	P-O5'	-7.15	1.52	1.59
85	AA	1466	U	C2-N3	-7.15	1.32	1.37
34	BA	803	U	O3'-P	-7.15	1.52	1.61
34	BA	1194	G	N9-C4	-7.15	1.32	1.38
35	BB	432	C	O3'-P	-7.15	1.52	1.61
38	BE	38	C	C2'-C1'	-7.15	1.45	1.53
34	BA	909	G	O4'-C1'	-7.14	1.32	1.41
34	BA	1089	U	O3'-P	-7.14	1.52	1.61
35	BB	409	U	O3'-P	-7.14	1.52	1.61
35	BB	981	A	N3-C4	-7.14	1.30	1.34
35	BB	1229	A	P-O5'	-7.14	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1515	C	C3'-C2'	-7.14	1.44	1.52
85	AA	63	G	C2-N2	-7.14	1.27	1.34
34	BA	445	C	O3'-P	-7.14	1.52	1.61
34	BA	664	C	O3'-P	-7.14	1.52	1.61
34	BA	687	G	C1'-N9	-7.14	1.36	1.46
34	BA	703	U	C3'-C2'	-7.14	1.44	1.52
35	BB	1127	A	C1'-N9	-7.14	1.36	1.46
34	BA	20	A	C5-C4	-7.14	1.33	1.38
35	BB	26	C	P-O5'	-7.14	1.52	1.59
36	BC	63	G	N7-C5	-7.14	1.34	1.39
39	BF	56	C	C1'-N1	7.14	1.59	1.48
85	AA	548	G	C3'-C2'	-7.14	1.44	1.52
85	AA	747	U	C2'-C1'	-7.14	1.45	1.53
85	AA	909	C	O3'-P	-7.14	1.52	1.61
85	AA	2191	C	C2'-C1'	-7.14	1.45	1.53
34	BA	150	C	O3'-P	-7.14	1.52	1.61
34	BA	435	U	O3'-P	-7.14	1.52	1.61
34	BA	774	A	C4'-C3'	-7.14	1.45	1.53
34	BA	1796	A	N9-C8	-7.14	1.32	1.37
41	BH	132	C	C2'-C1'	-7.14	1.45	1.53
85	AA	10	G	N1-C2	-7.14	1.32	1.37
85	AA	414	C	C3'-C2'	-7.14	1.44	1.52
85	AA	644	A	C8-N7	-7.14	1.26	1.31
85	AA	1554	C	O3'-P	-7.14	1.52	1.61
34	BA	83	G	P-O5'	-7.14	1.52	1.59
34	BA	130	U	C2-N3	-7.14	1.32	1.37
34	BA	200	C	C2'-C1'	-7.14	1.45	1.53
35	BB	838	G	P-O5'	-7.14	1.52	1.59
35	BB	1159	U	C4'-C3'	-7.14	1.45	1.53
36	BC	164	G	C3'-C2'	-7.14	1.44	1.52
40	BG	1	G	O3'-P	-7.14	1.52	1.61
85	AA	850	U	P-O5'	-7.14	1.52	1.59
85	AA	1832	G	C3'-C2'	-7.14	1.44	1.52
34	BA	82	A	O4'-C1'	-7.14	1.32	1.41
34	BA	421	G	C1'-N9	-7.14	1.36	1.46
34	BA	504	A	N9-C8	-7.14	1.32	1.37
34	BA	701	G	C2'-C1'	-7.14	1.45	1.53
34	BA	1592	U	C3'-C2'	-7.14	1.45	1.52
35	BB	62	C	C2'-C1'	-7.14	1.45	1.53
35	BB	1479	C	C3'-C2'	-7.14	1.44	1.52
36	BC	48	A	C1'-N9	-7.14	1.36	1.46
38	BE	23	G	N1-C2	-7.14	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	58	G	N7-C5	-7.14	1.34	1.39
85	AA	1458	G	C2'-C1'	-7.14	1.45	1.53
85	AA	2071	U	O3'-P	-7.14	1.52	1.61
34	BA	48	C	P-O5'	-7.13	1.52	1.59
34	BA	563	A	O3'-P	-7.13	1.52	1.61
34	BA	1242	A	P-O5'	-7.13	1.52	1.59
34	BA	1472	G	C1'-N9	-7.13	1.36	1.46
34	BA	1530	G	C6-N1	-7.13	1.34	1.39
34	BA	1721	U	N1-C2	-7.13	1.32	1.38
35	BB	102	G	N1-C2	-7.13	1.32	1.37
35	BB	993	A	C1'-N9	-7.13	1.36	1.46
35	BB	1127	A	P-O5'	-7.13	1.52	1.59
85	AA	335	G	N7-C5	-7.13	1.34	1.39
85	AA	383	C	N3-C4	-7.13	1.28	1.33
85	AA	820	G	O3'-P	-7.13	1.52	1.61
85	AA	1474	U	C2'-C1'	-7.13	1.45	1.53
34	BA	380	A	C1'-N9	-7.13	1.36	1.46
34	BA	417	A	C4'-O4'	-7.13	1.36	1.45
34	BA	1041	U	C1'-N1	-7.13	1.36	1.46
34	BA	1439	C	O3'-P	-7.13	1.52	1.61
35	BB	833	G	O3'-P	-7.13	1.52	1.61
36	BC	152	C	C4'-C3'	-7.13	1.45	1.53
38	BE	129	G	C8-N7	-7.13	1.26	1.30
40	BG	51	U	C2-N3	-7.13	1.32	1.37
85	AA	1469	G	C5-C4	-7.13	1.33	1.38
34	BA	156	U	O3'-P	-7.13	1.52	1.61
34	BA	244	A	O3'-P	-7.13	1.52	1.61
34	BA	329	G	C4'-O4'	-7.13	1.36	1.45
34	BA	1400	A	N9-C4	-7.13	1.33	1.37
34	BA	1416	C	C5'-C4'	7.13	1.59	1.51
39	BF	46	G	N1-C2	-7.13	1.32	1.37
85	AA	165	C	C2-N3	-7.13	1.30	1.35
85	AA	291	G	P-O5'	-7.13	1.52	1.59
85	AA	965	G	C3'-C2'	-7.13	1.45	1.52
85	AA	1294	U	O3'-P	-7.13	1.52	1.61
85	AA	1680	U	N3-C4	-7.13	1.32	1.38
34	BA	1070	G	C5-C6	-7.13	1.35	1.42
34	BA	1110	A	C3'-C2'	-7.13	1.45	1.52
35	BB	607	G	O4'-C1'	-7.13	1.32	1.41
35	BB	1014	U	C3'-C2'	-7.13	1.45	1.52
35	BB	1153	G	C5-C4	-7.13	1.33	1.38
36	BC	166	G	O3'-P	-7.13	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1486	G	N9-C4	-7.13	1.32	1.38
85	AA	1857	G	C2'-C1'	-7.13	1.45	1.53
34	BA	1033	G	O3'-P	-7.13	1.52	1.61
34	BA	1783	C	O3'-P	-7.13	1.52	1.61
35	BB	110	U	C2'-C1'	-7.13	1.45	1.53
35	BB	132	G	C8-N7	-7.13	1.26	1.30
36	BC	96	A	C5-C4	-7.13	1.33	1.38
36	BC	156	A	C8-N7	-7.13	1.26	1.31
40	BG	72	G	P-O5'	-7.13	1.52	1.59
40	BG	168	A	O3'-P	-7.13	1.52	1.61
85	AA	938	A	N9-C4	-7.13	1.33	1.37
34	BA	451	A	P-O5'	-7.13	1.52	1.59
35	BB	829	C	C2-N3	-7.13	1.30	1.35
85	AA	424	A	C5-C6	-7.13	1.34	1.41
85	AA	751	C	P-O5'	-7.13	1.52	1.59
85	AA	1847	U	O3'-P	-7.13	1.52	1.61
34	BA	89	G	N9-C8	-7.12	1.32	1.37
35	BB	428	G	C6-N1	-7.12	1.34	1.39
36	BC	78	G	C3'-C2'	-7.12	1.45	1.52
34	BA	516	U	C2-N3	-7.12	1.32	1.37
35	BB	658	G	C2'-C1'	-7.12	1.45	1.53
35	BB	1075	A	C1'-N9	-7.12	1.36	1.46
35	BB	1380	G	C1'-N9	-7.12	1.36	1.46
85	AA	129	U	C2-N3	-7.12	1.32	1.37
85	AA	803	C	P-O5'	-7.12	1.52	1.59
34	BA	430	A	O3'-P	-7.12	1.52	1.61
34	BA	617	G	C4'-O4'	-7.12	1.36	1.45
34	BA	930	A	C2'-C1'	-7.12	1.45	1.53
34	BA	1834	A	P-O5'	-7.12	1.52	1.59
35	BB	392	G	N1-C2	-7.12	1.32	1.37
35	BB	782	A	C3'-C2'	-7.12	1.45	1.52
35	BB	1335	G	P-O5'	-7.12	1.52	1.59
35	BB	1513	U	N3-C4	-7.12	1.32	1.38
35	BB	1548	C	C2'-C1'	-7.12	1.45	1.53
37	BD	91	U	C4'-C3'	-7.12	1.45	1.53
38	BE	124	G	C3'-C2'	-7.12	1.45	1.52
85	AA	67	C	O3'-P	-7.12	1.52	1.61
85	AA	685	U	P-O5'	-7.12	1.52	1.59
34	BA	202	A	N9-C4	-7.12	1.33	1.37
34	BA	1093	G	O3'-P	-7.12	1.52	1.61
40	BG	44	G	C2'-C1'	-7.12	1.45	1.53
85	AA	112	A	C4'-C3'	-7.12	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1462	A	P-O5'	-7.12	1.52	1.59
85	AA	2222	G	O3'-P	-7.12	1.52	1.61
34	BA	104	A	C3'-C2'	-7.12	1.45	1.52
34	BA	1010	C	P-O5'	-7.12	1.52	1.59
34	BA	1277	G	C3'-C2'	-7.12	1.45	1.52
34	BA	1323	G	C2'-C1'	-7.12	1.45	1.53
34	BA	1451	A	C5-C4	-7.12	1.33	1.38
35	BB	1164	U	C3'-C2'	-7.12	1.45	1.52
35	BB	1297	G	P-O5'	-7.12	1.52	1.59
35	BB	1431	G	C6-N1	-7.12	1.34	1.39
85	AA	767	A	C2'-C1'	-7.12	1.45	1.53
85	AA	1527	G	C2-N2	-7.12	1.27	1.34
85	AA	1709	U	P-O5'	-7.12	1.52	1.59
35	BB	736	G	C2'-C1'	-7.12	1.45	1.53
35	BB	1168	G	O4'-C1'	-7.12	1.32	1.41
85	AA	2075	C	C2-N3	-7.12	1.30	1.35
34	BA	866	C	N3-C4	7.12	1.39	1.33
34	BA	1835	A	C4'-C3'	-7.12	1.45	1.53
41	BH	45	G	O3'-P	-7.12	1.52	1.61
41	BH	123	G	C2-N2	-7.12	1.27	1.34
85	AA	404	A	C2'-C1'	-7.12	1.45	1.53
85	AA	771	A	P-O5'	-7.12	1.52	1.59
34	BA	124	G	C3'-C2'	-7.11	1.45	1.52
34	BA	720	A	C1'-N9	-7.11	1.36	1.46
34	BA	1573	C	P-O5'	-7.11	1.52	1.59
35	BB	477	U	O3'-P	-7.11	1.52	1.61
35	BB	1445	A	O4'-C1'	-7.11	1.32	1.41
40	BG	80	G	N7-C5	-7.11	1.34	1.39
85	AA	247	G	N9-C4	-7.11	1.32	1.38
34	BA	755	G	N3-C4	-7.11	1.30	1.35
35	BB	72	G	C2-N2	-7.11	1.27	1.34
35	BB	1313	C	C2-N3	-7.11	1.30	1.35
85	AA	262	G	C6-N1	-7.11	1.34	1.39
85	AA	439	U	O3'-P	-7.11	1.52	1.61
85	AA	2110	U	C3'-C2'	-7.11	1.45	1.52
34	BA	1406	U	C4'-C3'	-7.11	1.45	1.53
35	BB	27	C	C3'-C2'	-7.11	1.45	1.52
35	BB	124	G	C6-N1	-7.11	1.34	1.39
35	BB	1316	U	C2-N3	-7.11	1.32	1.37
37	BD	48	G	N9-C8	-7.11	1.32	1.37
40	BG	43	U	C2-N3	-7.11	1.32	1.37
85	AA	417	U	N1-C2	-7.11	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1134	G	P-O5'	-7.11	1.52	1.59
85	AA	1203	G	C3'-C2'	-7.11	1.45	1.52
85	AA	1209	U	C4'-C3'	-7.11	1.45	1.53
85	AA	2213	A	O3'-P	-7.11	1.52	1.61
34	BA	61	G	O4'-C1'	-7.11	1.32	1.41
34	BA	339	G	O3'-P	-7.11	1.52	1.61
35	BB	842	G	C2'-C1'	-7.11	1.45	1.53
40	BG	6	A	N7-C5	-7.11	1.34	1.39
34	BA	594	G	N7-C5	-7.11	1.34	1.39
34	BA	1409	A	C3'-C2'	-7.11	1.45	1.52
35	BB	619	A	C2'-C1'	-7.11	1.45	1.53
35	BB	1208	G	N7-C5	-7.11	1.34	1.39
36	BC	92	C	O3'-P	-7.11	1.52	1.61
85	AA	349	C	C2'-C1'	-7.11	1.45	1.53
85	AA	1497	U	O3'-P	-7.11	1.52	1.61
85	AA	1538	C	P-O5'	-7.11	1.52	1.59
85	AA	1710	C	O3'-P	-7.11	1.52	1.61
85	AA	2006	G	O3'-P	-7.11	1.52	1.61
34	BA	212	A	C5-C4	-7.11	1.33	1.38
34	BA	333	A	C5-C4	-7.11	1.33	1.38
34	BA	1196	C	C4'-O4'	-7.11	1.36	1.45
34	BA	1650	G	N9-C4	-7.11	1.32	1.38
34	BA	1699	A	O4'-C1'	7.11	1.50	1.41
38	BE	198	A	C5-C4	-7.11	1.33	1.38
85	AA	1976	G	C2-N2	-7.11	1.27	1.34
34	BA	459	U	C2'-C1'	-7.10	1.45	1.53
34	BA	584	A	O4'-C1'	-7.10	1.32	1.41
34	BA	1036	G	C6-N1	-7.10	1.34	1.39
34	BA	1046	G	O3'-P	-7.10	1.52	1.61
34	BA	1153	C	C2'-C1'	-7.10	1.45	1.53
85	AA	351	C	C2'-C1'	-7.10	1.45	1.53
85	AA	617	C	O3'-P	-7.10	1.52	1.61
85	AA	675	A	C2'-C1'	-7.10	1.45	1.53
34	BA	88	C	C3'-C2'	-7.10	1.45	1.52
34	BA	1054	U	O3'-P	-7.10	1.52	1.61
34	BA	1309	U	O3'-P	-7.10	1.52	1.61
35	BB	1369	A	C5-C4	-7.10	1.33	1.38
41	BH	119	U	C5'-C4'	-7.10	1.42	1.51
85	AA	29	U	C2-N3	-7.10	1.32	1.37
85	AA	1301	C	O3'-P	-7.10	1.52	1.61
85	AA	1305	A	P-O5'	-7.10	1.52	1.59
85	AA	2060	G	N9-C8	-7.10	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2085	C	C1'-N1	-7.10	1.36	1.46
34	BA	125	G	C2'-C1'	-7.10	1.45	1.53
34	BA	126	G	P-O5'	-7.10	1.52	1.59
34	BA	416	A	N3-C4	-7.10	1.30	1.34
34	BA	1253	G	N7-C5	-7.10	1.34	1.39
34	BA	1466	U	O3'-P	-7.10	1.52	1.61
35	BB	1283	C	O3'-P	-7.10	1.52	1.61
41	BH	43	G	P-O5'	-7.10	1.52	1.59
85	AA	2055	G	C2'-C1'	-7.10	1.45	1.53
34	BA	45	A	N3-C4	-7.10	1.30	1.34
34	BA	339	G	C6-N1	-7.10	1.34	1.39
34	BA	752	A	P-O5'	-7.10	1.52	1.59
34	BA	1270	G	C2'-C1'	-7.10	1.45	1.53
34	BA	1504	A	C2'-C1'	-7.10	1.45	1.53
35	BB	812	G	C2'-C1'	-7.10	1.45	1.53
35	BB	861	C	C2'-C1'	-7.10	1.45	1.53
36	BC	156	A	P-O5'	-7.10	1.52	1.59
38	BE	154	A	P-O5'	-7.10	1.52	1.59
40	BG	82	U	P-O5'	-7.10	1.52	1.59
40	BG	176	G	C2'-C1'	-7.10	1.45	1.53
41	BH	5	G	O3'-P	-7.10	1.52	1.61
85	AA	597	A	C8-N7	-7.10	1.26	1.31
85	AA	668	A	C1'-N9	-7.10	1.36	1.46
85	AA	1134	G	C4'-O4'	-7.10	1.36	1.45
85	AA	1897	A	P-O5'	-7.10	1.52	1.59
34	BA	77	C	P-O5'	-7.10	1.52	1.59
35	BB	403	U	C3'-C2'	-7.10	1.45	1.52
35	BB	449	C	C4-N4	-7.10	1.27	1.33
35	BB	1093	C	O3'-P	-7.10	1.52	1.61
85	AA	313	A	C3'-C2'	-7.10	1.45	1.52
85	AA	1848	G	P-O5'	-7.10	1.52	1.59
34	BA	315	U	O3'-P	-7.10	1.52	1.61
34	BA	440	A	C3'-C2'	-7.09	1.45	1.52
34	BA	721	A	N3-C4	-7.09	1.30	1.34
34	BA	1025	A	N3-C4	-7.09	1.30	1.34
34	BA	1599	A	N3-C4	-7.09	1.30	1.34
34	BA	1743	U	O3'-P	-7.09	1.52	1.61
35	BB	500	C	C2'-C1'	-7.09	1.45	1.53
35	BB	643	G	O3'-P	-7.09	1.52	1.61
35	BB	650	A	C5-C4	-7.09	1.33	1.38
36	BC	60	U	P-O5'	-7.09	1.52	1.59
85	AA	80	G	N9-C4	-7.09	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	436	G	C5-C4	-7.09	1.33	1.38
85	AA	486	G	C2'-C1'	-7.09	1.45	1.53
85	AA	783	C	P-O5'	-7.09	1.52	1.59
34	BA	115	U	O3'-P	-7.09	1.52	1.61
34	BA	898	G	P-O5'	-7.09	1.52	1.59
34	BA	1027	C	C2'-C1'	-7.09	1.45	1.53
35	BB	33	A	N9-C8	-7.09	1.32	1.37
35	BB	538	A	N9-C4	-7.09	1.33	1.37
85	AA	891	G	C5'-C4'	7.09	1.59	1.51
85	AA	1235	G	C1'-N9	-7.09	1.36	1.46
85	AA	1470	A	O3'-P	-7.09	1.52	1.61
85	AA	1679	U	C2'-C1'	-7.09	1.45	1.53
34	BA	519	G	N7-C5	-7.09	1.34	1.39
34	BA	1201	G	C4'-C3'	-7.09	1.45	1.53
34	BA	1285	G	O3'-P	-7.09	1.52	1.61
35	BB	73	G	N3-C4	-7.09	1.30	1.35
35	BB	125	G	P-O5'	-7.09	1.52	1.59
35	BB	536	U	P-O5'	-7.09	1.52	1.59
35	BB	542	A	C5-C4	-7.09	1.33	1.38
35	BB	674	C	C1'-N1	-7.09	1.36	1.46
41	BH	111	U	C3'-C2'	-7.09	1.45	1.52
85	AA	33	U	P-O5'	-7.09	1.52	1.59
85	AA	1485	G	C5-C4	-7.09	1.33	1.38
34	BA	354	G	O3'-P	-7.09	1.52	1.61
35	BB	114	A	N7-C5	-7.09	1.34	1.39
35	BB	1075	A	N7-C5	-7.09	1.34	1.39
35	BB	1321	G	C2'-C1'	-7.09	1.45	1.53
36	BC	39	G	O4'-C1'	-7.09	1.32	1.41
37	BD	14	C	O3'-P	-7.09	1.52	1.61
41	BH	24	U	C1'-N1	-7.09	1.36	1.46
41	BH	38	G	N7-C5	-7.09	1.34	1.39
85	AA	446	C	P-O5'	-7.09	1.52	1.59
85	AA	658	C	O3'-P	-7.09	1.52	1.61
85	AA	750	A	O4'-C1'	-7.09	1.32	1.41
85	AA	1677	A	P-O5'	-7.09	1.52	1.59
35	BB	804	U	C4'-O4'	-7.09	1.36	1.45
35	BB	1095	G	C6-N1	-7.09	1.34	1.39
35	BB	1302	C	C2'-C1'	-7.09	1.45	1.53
35	BB	1320	U	O3'-P	-7.09	1.52	1.61
85	AA	1672	G	O3'-P	-7.09	1.52	1.61
85	AA	1962	U	C3'-C2'	-7.09	1.45	1.52
34	BA	41	U	O3'-P	-7.09	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	693	G	O3'-P	-7.09	1.52	1.61
34	BA	760	G	C1'-N9	-7.09	1.36	1.46
34	BA	968	G	C5-C4	-7.09	1.33	1.38
34	BA	1150	A	C2'-C1'	-7.09	1.45	1.53
34	BA	1280	A	O3'-P	-7.09	1.52	1.61
34	BA	1806	A	O3'-P	-7.09	1.52	1.61
35	BB	1221	G	C2'-C1'	-7.09	1.45	1.53
37	BD	75	G	C5-C4	-7.09	1.33	1.38
41	BH	4	U	C2'-C1'	-7.09	1.45	1.53
41	BH	35	G	C3'-C2'	-7.09	1.45	1.52
85	AA	1807	A	O3'-P	-7.09	1.52	1.61
34	BA	1431	G	O3'-P	-7.08	1.52	1.61
36	BC	93	C	C4'-C3'	-7.08	1.45	1.53
85	AA	421	G	P-O5'	-7.08	1.52	1.59
85	AA	1700	C	C2-N3	-7.08	1.30	1.35
34	BA	1618	A	C1'-N9	-7.08	1.36	1.46
34	BA	1807	G	C2'-C1'	-7.08	1.45	1.53
35	BB	7	C	C1'-N1	-7.08	1.36	1.46
35	BB	444	U	N3-C4	-7.08	1.32	1.38
35	BB	997	G	O3'-P	-7.08	1.52	1.61
35	BB	1478	G	C2'-C1'	-7.08	1.45	1.53
37	BD	12	U	C3'-C2'	-7.08	1.45	1.52
85	AA	1209	U	C2'-C1'	-7.08	1.45	1.53
34	BA	1163	G	N1-C2	-7.08	1.32	1.37
34	BA	1177	C	C3'-C2'	-7.08	1.45	1.52
34	BA	1282	G	N3-C4	-7.08	1.30	1.35
34	BA	1288	U	P-O5'	-7.08	1.52	1.59
34	BA	1516	G	N1-C2	-7.08	1.32	1.37
37	BD	77	A	C2'-C1'	-7.08	1.45	1.53
85	AA	1024	G	O3'-P	-7.08	1.52	1.61
35	BB	1067	G	N9-C4	-7.08	1.32	1.38
35	BB	1321	G	C1'-N9	-7.08	1.36	1.46
34	BA	979	G	C1'-N9	-7.08	1.36	1.46
34	BA	1284	G	N7-C5	-7.08	1.35	1.39
34	BA	1295	U	P-O5'	-7.08	1.52	1.59
35	BB	988	G	N9-C4	-7.08	1.32	1.38
85	AA	1153	G	N9-C8	-7.08	1.32	1.37
85	AA	1674	G	O3'-P	-7.08	1.52	1.61
85	AA	2237	G	O3'-P	-7.08	1.52	1.61
34	BA	1156	U	N3-C4	-7.08	1.32	1.38
34	BA	1285	G	N1-C2	-7.08	1.32	1.37
34	BA	1416	C	C2'-C1'	-7.08	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	43	U	C3'-C2'	-7.08	1.45	1.52
37	BD	80	G	C1'-N9	-7.08	1.36	1.46
41	BH	22	A	C1'-N9	-7.08	1.36	1.46
85	AA	11	A	O3'-P	-7.08	1.52	1.61
85	AA	41	G	C3'-C2'	-7.08	1.45	1.52
85	AA	495	G	C5'-C4'	-7.08	1.42	1.51
85	AA	1826	U	O3'-P	-7.08	1.52	1.61
34	BA	480	G	C5-C6	-7.08	1.35	1.42
34	BA	973	U	C4'-O4'	-7.08	1.36	1.45
35	BB	802	G	N9-C4	7.08	1.43	1.38
35	BB	1426	G	C2'-C1'	-7.08	1.45	1.53
38	BE	105	A	C8-N7	-7.08	1.26	1.31
85	AA	439	U	C2'-C1'	-7.08	1.45	1.53
85	AA	493	A	O3'-P	-7.08	1.52	1.61
85	AA	1266	C	C4'-C3'	-7.08	1.45	1.53
85	AA	2053	A	N7-C5	-7.08	1.35	1.39
85	AA	2171	A	P-O5'	-7.08	1.52	1.59
85	AA	2202	G	C2-N2	-7.08	1.27	1.34
34	BA	123	C	C4'-C3'	-7.07	1.45	1.53
34	BA	784	C	C2-N3	-7.07	1.30	1.35
34	BA	856	G	N9-C8	-7.07	1.32	1.37
34	BA	983	A	C1'-N9	-7.07	1.36	1.46
34	BA	992	A	O3'-P	-7.07	1.52	1.61
34	BA	1225	A	C6-N1	-7.07	1.30	1.35
34	BA	1669	C	C2'-C1'	-7.07	1.45	1.53
35	BB	1147	G	C2'-C1'	-7.07	1.45	1.53
35	BB	1343	C	C2'-C1'	-7.07	1.45	1.53
35	BB	1435	G	N3-C4	-7.07	1.30	1.35
35	BB	1490	G	O3'-P	-7.07	1.52	1.61
37	BD	3	G	C3'-C2'	-7.07	1.45	1.52
85	AA	475	A	C5-C4	-7.07	1.33	1.38
85	AA	563	U	P-O5'	-7.07	1.52	1.59
85	AA	1133	C	C3'-C2'	-7.07	1.45	1.52
85	AA	1486	G	C1'-N9	-7.07	1.36	1.46
85	AA	2128	G	C1'-N9	-7.07	1.36	1.46
34	BA	12	G	N3-C4	-7.07	1.30	1.35
34	BA	157	U	P-O5'	-7.07	1.52	1.59
34	BA	739	A	C4'-O4'	-7.07	1.36	1.45
34	BA	927	A	C3'-C2'	-7.07	1.45	1.52
34	BA	1567	G	C5-C4	-7.07	1.33	1.38
34	BA	1722	U	C1'-N1	-7.07	1.36	1.46
35	BB	597	C	C3'-C2'	-7.07	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	36	C	C2-N3	-7.07	1.30	1.35
85	AA	891	G	N7-C5	-7.07	1.35	1.39
34	BA	68	A	N7-C5	-7.07	1.35	1.39
34	BA	568	G	O3'-P	-7.07	1.52	1.61
34	BA	795	G	N7-C5	-7.07	1.35	1.39
34	BA	857	C	O3'-P	-7.07	1.52	1.61
34	BA	1289	C	O4'-C1'	-7.07	1.32	1.41
37	BD	56	G	C3'-C2'	-7.07	1.45	1.52
40	BG	26	G	C5-C4	-7.07	1.33	1.38
85	AA	714	U	C2-N3	-7.07	1.32	1.37
34	BA	362	G	C6-N1	-7.07	1.34	1.39
35	BB	612	A	C3'-C2'	-7.07	1.45	1.52
37	BD	81	C	C2-N3	-7.07	1.30	1.35
85	AA	448	G	O3'-P	-7.07	1.52	1.61
34	BA	336	A	C5-C4	-7.07	1.33	1.38
34	BA	769	U	P-O5'	-7.07	1.52	1.59
34	BA	1637	G	C6-N1	-7.07	1.34	1.39
34	BA	1714	A	O3'-P	-7.07	1.52	1.61
39	BF	69	A	P-O5'	-7.07	1.52	1.59
85	AA	388	G	O3'-P	-7.07	1.52	1.61
85	AA	426	C	P-O5'	-7.07	1.52	1.59
85	AA	673	A	P-O5'	-7.07	1.52	1.59
85	AA	944	C	C4-C5	-7.07	1.37	1.43
85	AA	1136	A	N9-C8	-7.07	1.32	1.37
85	AA	1816	C	O3'-P	-7.07	1.52	1.61
34	BA	572	G	C8-N7	7.07	1.35	1.30
34	BA	1122	G	N7-C5	-7.07	1.35	1.39
34	BA	1613	G	N1-C2	-7.07	1.32	1.37
35	BB	435	A	O3'-P	-7.07	1.52	1.61
35	BB	518	G	P-O5'	-7.07	1.52	1.59
35	BB	818	U	O4'-C1'	-7.07	1.32	1.41
35	BB	1176	G	C2-N2	-7.07	1.27	1.34
35	BB	1402	U	O3'-P	-7.07	1.52	1.61
37	BD	56	G	N9-C4	-7.07	1.32	1.38
40	BG	166	C	C3'-C2'	-7.07	1.45	1.52
85	AA	244	G	N9-C8	-7.07	1.32	1.37
34	BA	1652	G	C4'-C3'	-7.06	1.45	1.53
35	BB	124	G	N7-C5	-7.06	1.35	1.39
35	BB	677	U	O3'-P	-7.06	1.52	1.61
36	BC	19	A	O3'-P	-7.06	1.52	1.61
41	BH	43	G	O3'-P	-7.06	1.52	1.61
34	BA	48	C	C1'-N1	-7.06	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	49	A	N3-C4	-7.06	1.30	1.34
34	BA	826	C	O3'-P	-7.06	1.52	1.61
35	BB	1171	U	P-O5'	-7.06	1.52	1.59
36	BC	107	C	C3'-C2'	-7.06	1.45	1.52
36	BC	144	C	C1'-N1	-7.06	1.36	1.46
38	BE	52	U	C2'-C1'	-7.06	1.45	1.53
85	AA	422	G	N7-C5	-7.06	1.35	1.39
85	AA	680	U	C2-N3	-7.06	1.32	1.37
34	BA	147	U	O3'-P	-7.06	1.52	1.61
34	BA	335	C	C3'-C2'	-7.06	1.45	1.52
34	BA	977	G	C2'-C1'	-7.06	1.45	1.53
34	BA	1055	U	C3'-C2'	-7.06	1.45	1.52
34	BA	1477	C	C1'-N1	-7.06	1.36	1.46
85	AA	242	G	C2'-C1'	-7.06	1.45	1.53
85	AA	573	U	C2'-C1'	-7.06	1.45	1.53
34	BA	79	C	C4'-C3'	-7.06	1.45	1.53
34	BA	899	G	N3-C4	-7.06	1.30	1.35
34	BA	1278	A	P-O5'	-7.06	1.52	1.59
34	BA	1473	A	C3'-C2'	-7.06	1.45	1.52
40	BG	111	C	C3'-C2'	-7.06	1.45	1.52
85	AA	11	A	C3'-C2'	-7.06	1.45	1.52
85	AA	600	C	C2'-C1'	-7.06	1.45	1.53
85	AA	1846	G	C6-N1	-7.06	1.34	1.39
34	BA	1794	A	C5'-C4'	7.06	1.59	1.51
35	BB	1019	C	C4-N4	-7.06	1.27	1.33
35	BB	1488	G	C1'-N9	-7.06	1.36	1.46
36	BC	72	A	C4'-C3'	-7.06	1.45	1.53
85	AA	421	G	O3'-P	-7.06	1.52	1.61
85	AA	690	G	C2-N2	-7.06	1.27	1.34
85	AA	1139	G	C6-N1	-7.06	1.34	1.39
35	BB	665	A	N3-C4	-7.06	1.30	1.34
38	BE	114	G	C5-C4	-7.06	1.33	1.38
85	AA	87	C	O3'-P	-7.06	1.52	1.61
34	BA	43	U	C3'-C2'	-7.05	1.45	1.52
34	BA	1049	G	C8-N7	-7.05	1.26	1.30
34	BA	1258	G	C4'-C3'	-7.05	1.45	1.53
35	BB	439	G	C2-N2	-7.05	1.27	1.34
35	BB	1335	G	C5-C4	-7.05	1.33	1.38
35	BB	1428	C	C2-N3	-7.05	1.30	1.35
36	BC	15	G	N9-C8	-7.05	1.32	1.37
38	BE	144	A	O3'-P	-7.05	1.52	1.61
38	BE	161	G	C4'-C3'	-7.05	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	773	G	P-O5'	-7.05	1.52	1.59
85	AA	1809	G	C2'-C1'	-7.05	1.45	1.53
85	AA	2199	G	C2-N2	-7.05	1.27	1.34
34	BA	1062	G	N9-C4	-7.05	1.32	1.38
34	BA	1178	U	C4'-C3'	-7.05	1.45	1.53
35	BB	645	C	P-O5'	-7.05	1.52	1.59
34	BA	121	A	C1'-N9	-7.05	1.36	1.46
34	BA	611	A	C8-N7	-7.05	1.26	1.31
34	BA	1315	C	C4'-C3'	-7.05	1.45	1.53
34	BA	1327	G	C1'-N9	-7.05	1.36	1.46
35	BB	1104	A	O3'-P	-7.05	1.52	1.61
35	BB	1153	G	C4'-C3'	-7.05	1.45	1.53
35	BB	1200	A	P-O5'	-7.05	1.52	1.59
36	BC	122	A	P-O5'	-7.05	1.52	1.59
37	BD	3	G	P-O5'	-7.05	1.52	1.59
38	BE	93	U	C2-N3	-7.05	1.32	1.37
40	BG	66	C	C3'-C2'	-7.05	1.45	1.52
85	AA	462	A	O3'-P	-7.05	1.52	1.61
85	AA	1517	G	C3'-C2'	-7.05	1.45	1.52
85	AA	1654	G	O3'-P	-7.05	1.52	1.61
85	AA	1662	U	O3'-P	-7.05	1.52	1.61
34	BA	632	U	P-O5'	-7.05	1.52	1.59
35	BB	52	G	O3'-P	-7.05	1.52	1.61
35	BB	614	U	C2'-C1'	-7.05	1.45	1.53
35	BB	1227	G	P-O5'	-7.05	1.52	1.59
37	BD	56	G	P-O5'	-7.05	1.52	1.59
85	AA	1112	G	C5-C6	-7.05	1.35	1.42
85	AA	1547	G	P-O5'	-7.05	1.52	1.59
34	BA	456	G	C5-C4	-7.05	1.33	1.38
34	BA	613	A	C1'-N9	-7.05	1.36	1.46
34	BA	1115	A	O3'-P	-7.05	1.52	1.61
35	BB	648	G	C5-C6	-7.05	1.35	1.42
35	BB	787	A	C5-C4	-7.05	1.33	1.38
85	AA	153	C	C2'-C1'	-7.05	1.45	1.53
34	BA	792	A	O3'-P	-7.05	1.52	1.61
34	BA	1711	G	C5'-C4'	-7.05	1.42	1.51
35	BB	58	G	C6-N1	-7.05	1.34	1.39
38	BE	48	G	N1-C2	-7.05	1.32	1.37
38	BE	175	U	P-O5'	-7.05	1.52	1.59
85	AA	1673	A	O3'-P	-7.05	1.52	1.61
34	BA	672	G	N3-C4	-7.04	1.30	1.35
34	BA	1455	C	C2'-C1'	-7.04	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	459	U	C4'-C3'	-7.04	1.45	1.53
35	BB	1027	U	C4'-C3'	-7.04	1.45	1.53
35	BB	1159	U	O3'-P	-7.04	1.52	1.61
85	AA	1680	U	O3'-P	-7.04	1.52	1.61
34	BA	74	A	C4'-C3'	-7.04	1.45	1.53
34	BA	96	G	C8-N7	-7.04	1.26	1.30
34	BA	379	C	O3'-P	-7.04	1.52	1.61
34	BA	504	A	C3'-C2'	-7.04	1.45	1.52
34	BA	705	C	C2-N3	-7.04	1.30	1.35
35	BB	423	G	N1-C2	-7.04	1.32	1.37
35	BB	1026	G	C4'-C3'	7.04	1.60	1.53
35	BB	1120	A	C1'-N9	-7.04	1.36	1.46
35	BB	1254	G	N7-C5	-7.04	1.35	1.39
35	BB	1335	G	C2-N2	-7.04	1.27	1.34
35	BB	1375	G	C3'-C2'	-7.04	1.45	1.52
35	BB	1406	C	C2-N3	-7.04	1.30	1.35
85	AA	334	A	C3'-C2'	-7.04	1.45	1.52
34	BA	140	C	P-O5'	-7.04	1.52	1.59
34	BA	306	G	C2'-C1'	-7.04	1.45	1.53
34	BA	1500	G	C2'-C1'	-7.04	1.45	1.53
35	BB	745	C	O3'-P	-7.04	1.52	1.61
37	BD	58	G	O3'-P	-7.04	1.52	1.61
40	BG	48	U	N3-C4	-7.04	1.32	1.38
85	AA	765	U	O3'-P	-7.04	1.52	1.61
85	AA	1465	C	O3'-P	-7.04	1.52	1.61
85	AA	2046	G	O3'-P	-7.04	1.52	1.61
35	BB	1184	C	C2-N3	-7.04	1.30	1.35
40	BG	46	G	C2-N2	-7.04	1.27	1.34
34	BA	126	G	C1'-N9	-7.04	1.36	1.46
34	BA	1422	A	O3'-P	-7.04	1.52	1.61
35	BB	1186	A	O3'-P	-7.04	1.52	1.61
38	BE	109	C	O3'-P	-7.04	1.52	1.61
39	BF	61	A	O3'-P	-7.04	1.52	1.61
85	AA	1652	A	N9-C4	-7.04	1.33	1.37
85	AA	2082	C	N1-C6	-7.04	1.32	1.37
34	BA	411	C	O3'-P	-7.04	1.52	1.61
34	BA	1543	A	C3'-C2'	-7.04	1.45	1.52
35	BB	607	G	C3'-C2'	-7.04	1.45	1.52
35	BB	1180	G	N9-C4	-7.04	1.32	1.38
34	BA	352	G	C4'-C3'	-7.04	1.45	1.53
34	BA	566	G	C6-N1	-7.04	1.34	1.39
34	BA	924	U	C2'-C1'	-7.04	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1252	G	N1-C2	-7.04	1.32	1.37
34	BA	1738	G	C2'-C1'	-7.04	1.45	1.53
35	BB	481	A	C2'-C1'	-7.04	1.45	1.53
35	BB	542	A	N3-C4	-7.04	1.30	1.34
35	BB	1052	G	N7-C5	-7.04	1.35	1.39
85	AA	456	A	C3'-C2'	-7.04	1.45	1.52
85	AA	512	U	O3'-P	-7.04	1.52	1.61
85	AA	1669	G	O3'-P	-7.04	1.52	1.61
34	BA	19	G	C4'-C3'	-7.03	1.45	1.53
34	BA	493	G	C3'-C2'	-7.03	1.45	1.52
35	BB	993	A	C8-N7	-7.03	1.26	1.31
35	BB	1398	A	C8-N7	-7.03	1.26	1.31
36	BC	70	C	C1'-N1	-7.03	1.37	1.46
85	AA	11	A	C5'-C4'	-7.03	1.43	1.51
85	AA	157	G	C2-N2	-7.03	1.27	1.34
85	AA	755	G	O3'-P	-7.03	1.52	1.61
85	AA	1482	C	C2'-C1'	-7.03	1.45	1.53
34	BA	78	U	P-O5'	-7.03	1.52	1.59
34	BA	377	G	C2-N2	-7.03	1.27	1.34
40	BG	82	U	C2-N3	-7.03	1.32	1.37
40	BG	163	G	O3'-P	-7.03	1.52	1.61
85	AA	1270	C	N1-C6	-7.03	1.32	1.37
85	AA	1513	U	C2'-C1'	-7.03	1.45	1.53
85	AA	1527	G	N3-C4	-7.03	1.30	1.35
85	AA	2188	C	C4'-C3'	-7.03	1.45	1.53
34	BA	46	C	C4'-C3'	-7.03	1.45	1.53
34	BA	414	A	C1'-N9	-7.03	1.37	1.46
35	BB	29	C	P-O5'	-7.03	1.52	1.59
35	BB	59	U	C4'-C3'	-7.03	1.45	1.53
35	BB	574	G	C6-N1	-7.03	1.34	1.39
35	BB	837	A	C4'-O4'	-7.03	1.36	1.45
35	BB	1281	G	O3'-P	-7.03	1.52	1.61
36	BC	100	U	C3'-C2'	-7.03	1.45	1.52
37	BD	34	C	O3'-P	-7.03	1.52	1.61
41	BH	20	A	C3'-C2'	-7.03	1.45	1.52
41	BH	121	A	C2'-C1'	-7.03	1.45	1.53
85	AA	869	A	O3'-P	-7.03	1.52	1.61
85	AA	2218	G	N9-C4	-7.03	1.32	1.38
34	BA	1247	G	C5-C4	-7.03	1.33	1.38
35	BB	448	G	C2-N2	-7.03	1.27	1.34
41	BH	15	A	C5-C4	-7.03	1.33	1.38
41	BH	20	A	C2'-C1'	-7.03	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1693	C	P-O5'	-7.03	1.52	1.59
34	BA	1067	G	C1'-N9	-7.03	1.37	1.46
34	BA	1301	G	C1'-N9	-7.03	1.37	1.46
34	BA	1328	U	C2-N3	-7.03	1.32	1.37
34	BA	1490	U	N1-C2	-7.03	1.32	1.38
35	BB	1013	U	C2'-C1'	-7.03	1.45	1.53
35	BB	1072	C	C2'-C1'	-7.03	1.45	1.53
39	BF	45	G	C2'-C1'	-7.03	1.45	1.53
40	BG	136	G	C1'-N9	-7.03	1.37	1.46
34	BA	196	A	C6-N6	-7.03	1.28	1.33
34	BA	318	U	O3'-P	-7.03	1.52	1.61
34	BA	1469	G	N7-C5	-7.03	1.35	1.39
35	BB	689	C	C2'-C1'	-7.03	1.45	1.53
35	BB	1036	G	C2-N2	-7.03	1.27	1.34
35	BB	1408	G	N9-C8	-7.03	1.32	1.37
38	BE	32	U	C1'-N1	-7.03	1.37	1.46
40	BG	130	G	N9-C4	-7.03	1.32	1.38
85	AA	170	C	C3'-C2'	-7.03	1.45	1.52
85	AA	982	G	C2-N3	-7.03	1.27	1.32
85	AA	1562	U	C4'-C3'	-7.03	1.45	1.53
85	AA	1823	G	P-O5'	-7.03	1.52	1.59
35	BB	1446	C	O3'-P	-7.02	1.52	1.61
85	AA	123	A	C2'-C1'	-7.02	1.45	1.53
34	BA	40	A	N7-C5	-7.02	1.35	1.39
35	BB	792	G	O3'-P	-7.02	1.52	1.61
36	BC	49	G	N1-C2	-7.02	1.32	1.37
38	BE	115	U	C2'-C1'	-7.02	1.45	1.53
38	BE	185	G	N9-C4	-7.02	1.32	1.38
85	AA	188	G	P-O5'	-7.02	1.52	1.59
85	AA	380	C	C2'-C1'	-7.02	1.45	1.53
34	BA	166	G	C3'-C2'	-7.02	1.45	1.52
34	BA	1520	A	C4'-C3'	-7.02	1.45	1.53
35	BB	57	G	C3'-C2'	-7.02	1.45	1.52
35	BB	505	G	N9-C8	-7.02	1.32	1.37
35	BB	1166	A	N9-C4	-7.02	1.33	1.37
34	BA	131	A	N9-C4	-7.02	1.33	1.37
34	BA	183	G	N7-C5	-7.02	1.35	1.39
34	BA	408	U	C2'-C1'	-7.02	1.45	1.53
34	BA	676	G	C1'-N9	-7.02	1.37	1.46
35	BB	438	G	C1'-N9	-7.02	1.37	1.46
35	BB	501	G	C2'-C1'	-7.02	1.45	1.53
35	BB	1395	G	N1-C2	-7.02	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	15	G	P-O5'	-7.02	1.52	1.59
36	BC	111	C	C4-C5	-7.02	1.37	1.43
85	AA	305	A	C4'-C3'	7.02	1.60	1.53
85	AA	334	A	O3'-P	-7.02	1.52	1.61
85	AA	1517	G	C5'-C4'	-7.02	1.43	1.51
34	BA	43	U	C1'-N1	-7.02	1.37	1.46
34	BA	67	A	C1'-N9	-7.02	1.37	1.46
34	BA	216	C	C3'-C2'	-7.02	1.45	1.52
34	BA	301	U	C1'-N1	-7.02	1.37	1.46
35	BB	580	A	C5'-C4'	7.02	1.59	1.51
35	BB	1027	U	C2'-C1'	-7.02	1.45	1.53
36	BC	6	G	N3-C4	-7.02	1.30	1.35
36	BC	51	A	C5-C6	-7.02	1.34	1.41
40	BG	53	C	O3'-P	-7.02	1.52	1.61
40	BG	109	C	C2-N3	-7.02	1.30	1.35
85	AA	149	A	C2'-C1'	-7.02	1.45	1.53
85	AA	335	G	C3'-C2'	-7.02	1.45	1.52
85	AA	964	C	C5'-C4'	7.02	1.59	1.51
86	AB	70	G	C2'-C1'	-7.02	1.45	1.53
34	BA	289	A	O4'-C1'	-7.02	1.32	1.41
34	BA	1015	G	C2'-C1'	-7.02	1.45	1.53
34	BA	1807	G	N1-C2	-7.02	1.32	1.37
35	BB	139	G	C2'-C1'	-7.02	1.45	1.53
36	BC	5	U	O3'-P	-7.02	1.52	1.61
85	AA	247	G	C5-C4	-7.02	1.33	1.38
85	AA	320	U	O3'-P	-7.02	1.52	1.61
85	AA	1094	G	P-O5'	-7.02	1.52	1.59
85	AA	1497	U	C3'-C2'	-7.02	1.45	1.52
85	AA	2228	G	C1'-N9	-7.02	1.37	1.46
34	BA	319	C	P-O5'	-7.01	1.52	1.59
34	BA	339	G	C5-C4	-7.01	1.33	1.38
34	BA	1547	G	C1'-N9	-7.01	1.37	1.46
35	BB	35	G	C1'-N9	-7.01	1.37	1.46
85	AA	19	A	C2'-C1'	-7.01	1.45	1.53
85	AA	1482	C	C4'-C3'	-7.01	1.45	1.53
85	AA	1812	C	O3'-P	-7.01	1.52	1.61
85	AA	1916	A	P-O5'	-7.01	1.52	1.59
85	AA	2229	G	N1-C2	-7.01	1.32	1.37
34	BA	1704	G	C1'-N9	-7.01	1.37	1.46
40	BG	94	G	O3'-P	-7.01	1.52	1.61
34	BA	1093	G	N1-C2	-7.01	1.32	1.37
34	BA	1094	U	C3'-C2'	-7.01	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	785	G	C2-N2	-7.01	1.27	1.34
38	BE	5	A	P-O5'	-7.01	1.52	1.59
40	BG	37	G	N7-C5	-7.01	1.35	1.39
40	BG	159	A	C5-C4	-7.01	1.33	1.38
85	AA	1552	U	P-O5'	-7.01	1.52	1.59
34	BA	313	C	P-O5'	-7.01	1.52	1.59
34	BA	326	A	P-O5'	-7.01	1.52	1.59
35	BB	100	A	P-O5'	-7.01	1.52	1.59
35	BB	1029	U	O3'-P	-7.01	1.52	1.61
35	BB	1255	U	P-O5'	-7.01	1.52	1.59
35	BB	1278	A	P-O5'	-7.01	1.52	1.59
36	BC	28	C	O3'-P	-7.01	1.52	1.61
37	BD	113	G	C3'-C2'	-7.01	1.45	1.52
41	BH	23	G	C4'-C3'	-7.01	1.45	1.53
36	BC	97	U	C3'-C2'	-7.01	1.45	1.52
85	AA	323	U	C2-N3	-7.01	1.32	1.37
85	AA	1537	A	C2'-C1'	-7.01	1.45	1.53
85	AA	1570	A	P-O5'	-7.01	1.52	1.59
85	AA	2138	G	N3-C4	-7.01	1.30	1.35
34	BA	912	G	N9-C8	-7.01	1.32	1.37
34	BA	1270	G	C1'-N9	-7.01	1.37	1.46
34	BA	1801	G	C5-C4	-7.01	1.33	1.38
34	BA	1802	C	C1'-N1	-7.01	1.37	1.46
41	BH	106	G	C5-C4	-7.01	1.33	1.38
85	AA	2024	U	O3'-P	-7.01	1.52	1.61
34	BA	106	U	C4'-C3'	-7.00	1.45	1.53
34	BA	1512	C	O3'-P	-7.00	1.52	1.61
36	BC	133	C	C5'-C4'	7.00	1.59	1.51
85	AA	1286	C	O3'-P	-7.00	1.52	1.61
34	BA	429	G	P-O5'	-7.00	1.52	1.59
34	BA	717	U	O3'-P	-7.00	1.52	1.61
34	BA	1333	G	C2'-C1'	-7.00	1.45	1.53
35	BB	458	U	C3'-C2'	-7.00	1.45	1.52
35	BB	484	G	C4'-O4'	-7.00	1.36	1.45
35	BB	1351	G	C5-C4	-7.00	1.33	1.38
35	BB	1404	A	C1'-N9	-7.00	1.37	1.46
40	BG	46	G	N3-C4	-7.00	1.30	1.35
40	BG	90	G	C5-C4	-7.00	1.33	1.38
85	AA	1217	U	C2-N3	-7.00	1.32	1.37
85	AA	2198	G	N7-C5	-7.00	1.35	1.39
34	BA	1167	A	N9-C4	-7.00	1.33	1.37
35	BB	1294	C	C1'-N1	-7.00	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	41	A	C5-C4	-7.00	1.33	1.38
85	AA	1169	A	C2'-C1'	-7.00	1.45	1.53
85	AA	1472	G	C5-C4	-7.00	1.33	1.38
34	BA	1462	U	C2-N3	-7.00	1.32	1.37
35	BB	58	G	N1-C2	-7.00	1.32	1.37
37	BD	29	C	C3'-C2'	-7.00	1.45	1.52
37	BD	118	C	O3'-P	-7.00	1.52	1.61
85	AA	445	U	P-O5'	-7.00	1.52	1.59
85	AA	1187	G	N9-C4	-7.00	1.32	1.38
85	AA	1450	U	O3'-P	-7.00	1.52	1.61
85	AA	1471	G	C4'-C3'	-7.00	1.45	1.53
34	BA	194	G	N9-C4	-7.00	1.32	1.38
34	BA	367	G	C6-N1	-7.00	1.34	1.39
34	BA	380	A	C2'-C1'	-7.00	1.45	1.53
34	BA	432	A	C1'-N9	-7.00	1.37	1.46
34	BA	531	C	C4'-C3'	-7.00	1.45	1.53
35	BB	676	G	C5-C4	-7.00	1.33	1.38
40	BG	4	A	C3'-C2'	-7.00	1.45	1.52
40	BG	180	C	P-O5'	-7.00	1.52	1.59
85	AA	1485	G	N7-C5	-7.00	1.35	1.39
34	BA	277	A	C3'-C2'	-7.00	1.45	1.52
34	BA	342	U	O3'-P	-7.00	1.52	1.61
34	BA	362	G	P-O5'	-7.00	1.52	1.59
34	BA	487	A	P-O5'	-7.00	1.52	1.59
34	BA	1104	C	C1'-N1	-7.00	1.37	1.46
34	BA	1242	A	O3'-P	-7.00	1.52	1.61
34	BA	1330	G	C3'-C2'	-7.00	1.45	1.52
34	BA	1614	G	N7-C5	-7.00	1.35	1.39
35	BB	665	A	O3'-P	-7.00	1.52	1.61
37	BD	33	U	P-O5'	-7.00	1.52	1.59
85	AA	29	U	C2'-C1'	-7.00	1.45	1.53
85	AA	1988	A	N9-C4	-7.00	1.33	1.37
85	AA	2125	A	C2'-C1'	-7.00	1.45	1.53
34	BA	1219	G	C6-N1	-7.00	1.34	1.39
35	BB	1427	A	N9-C8	-7.00	1.32	1.37
36	BC	44	A	N9-C4	-7.00	1.33	1.37
37	BD	47	U	N3-C4	-7.00	1.32	1.38
85	AA	479	C	C2'-C1'	-7.00	1.45	1.53
85	AA	608	A	C2'-C1'	-7.00	1.45	1.53
34	BA	1270	G	P-O5'	-6.99	1.52	1.59
34	BA	1654	G	C2-N2	-6.99	1.27	1.34
34	BA	1832	A	C2'-C1'	-6.99	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	491	A	C5-C4	-6.99	1.33	1.38
35	BB	582	G	N3-C4	-6.99	1.30	1.35
85	AA	17	C	C2'-C1'	-6.99	1.45	1.53
85	AA	424	A	N3-C4	-6.99	1.30	1.34
85	AA	1420	U	C5'-C4'	6.99	1.59	1.51
34	BA	354	G	P-O5'	-6.99	1.52	1.59
34	BA	1529	G	O3'-P	-6.99	1.52	1.61
35	BB	830	G	N1-C2	-6.99	1.32	1.37
40	BG	177	U	C3'-C2'	-6.99	1.45	1.52
34	BA	126	G	C6-N1	-6.99	1.34	1.39
34	BA	564	C	C2'-C1'	-6.99	1.45	1.53
34	BA	1243	A	C5-C4	-6.99	1.33	1.38
34	BA	1467	U	C2'-C1'	-6.99	1.45	1.53
34	BA	1499	A	O3'-P	-6.99	1.52	1.61
35	BB	115	A	C4'-O4'	-6.99	1.36	1.45
35	BB	1142	C	C2-N3	-6.99	1.30	1.35
41	BH	119	U	C4'-O4'	-6.99	1.36	1.45
85	AA	688	C	C2-N3	-6.99	1.30	1.35
85	AA	1490	A	C2'-C1'	-6.99	1.45	1.53
85	AA	1579	A	C2'-C1'	-6.99	1.45	1.53
85	AA	1660	U	O3'-P	-6.99	1.52	1.61
85	AA	2068	A	C5'-C4'	6.99	1.59	1.51
34	BA	1063	G	N1-C2	-6.99	1.32	1.37
34	BA	1203	G	N1-C2	-6.99	1.32	1.37
85	AA	3	U	O3'-P	-6.99	1.52	1.61
85	AA	160	A	N9-C4	-6.99	1.33	1.37
85	AA	749	C	P-O5'	-6.99	1.52	1.59
85	AA	812	C	P-O5'	-6.99	1.52	1.59
85	AA	1611	A	O3'-P	-6.99	1.52	1.61
34	BA	68	A	C4'-C3'	-6.99	1.45	1.53
34	BA	937	G	N1-C2	-6.99	1.32	1.37
35	BB	1488	G	N7-C5	-6.99	1.35	1.39
37	BD	85	C	C4'-C3'	-6.99	1.45	1.53
85	AA	65	A	O3'-P	-6.99	1.52	1.61
85	AA	496	C	C2'-C1'	-6.99	1.45	1.53
85	AA	1464	G	C1'-N9	-6.99	1.37	1.46
85	AA	1968	A	N9-C4	-6.99	1.33	1.37
34	BA	61	G	C3'-C2'	-6.99	1.45	1.52
34	BA	386	A	C6-N1	-6.99	1.30	1.35
34	BA	1541	G	C1'-N9	-6.99	1.37	1.46
34	BA	1720	U	C1'-N1	-6.99	1.37	1.46
35	BB	593	A	P-O5'	-6.99	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1236	A	C5-C4	-6.99	1.33	1.38
36	BC	120	G	P-O5'	-6.99	1.52	1.59
38	BE	97	G	C2'-C1'	-6.99	1.45	1.53
40	BG	4	A	N1-C2	-6.99	1.28	1.34
85	AA	1599	G	P-O5'	-6.99	1.52	1.59
34	BA	1067	G	C5-C4	-6.98	1.33	1.38
34	BA	205	G	N7-C5	-6.98	1.35	1.39
34	BA	207	A	C2'-C1'	-6.98	1.45	1.53
34	BA	761	U	C5'-C4'	-6.98	1.43	1.51
35	BB	1224	C	O3'-P	-6.98	1.52	1.61
35	BB	1247	C	C2'-C1'	-6.98	1.45	1.53
35	BB	1257	A	N9-C4	-6.98	1.33	1.37
38	BE	58	U	O3'-P	-6.98	1.52	1.61
39	BF	22	U	N1-C6	-6.98	1.31	1.38
41	BH	21	G	N7-C5	-6.98	1.35	1.39
85	AA	94	C	O3'-P	-6.98	1.52	1.61
85	AA	1530	U	P-O5'	-6.98	1.52	1.59
34	BA	150	C	P-O5'	-6.98	1.52	1.59
34	BA	1826	C	C4-N4	-6.98	1.27	1.33
35	BB	42	A	O3'-P	-6.98	1.52	1.61
35	BB	505	G	N1-C2	-6.98	1.32	1.37
35	BB	1176	G	C2'-C1'	-6.98	1.45	1.53
37	BD	46	G	C2'-C1'	-6.98	1.45	1.53
37	BD	72	U	C2-N3	-6.98	1.32	1.37
38	BE	33	C	C4'-C3'	-6.98	1.45	1.53
41	BH	19	G	C2'-C1'	-6.98	1.45	1.53
85	AA	667	A	C5-C4	-6.98	1.33	1.38
85	AA	1824	G	P-O5'	-6.98	1.52	1.59
34	BA	602	G	N7-C5	-6.98	1.35	1.39
34	BA	607	C	C4-N4	-6.98	1.27	1.33
35	BB	447	C	P-O5'	-6.98	1.52	1.59
35	BB	1359	G	C8-N7	-6.98	1.26	1.30
85	AA	414	C	O3'-P	-6.98	1.52	1.61
85	AA	2239	A	C2'-C1'	-6.98	1.45	1.53
34	BA	14	G	C4'-O4'	-6.98	1.36	1.45
34	BA	924	U	C2-N3	-6.98	1.32	1.37
34	BA	1472	G	C3'-C2'	-6.98	1.45	1.52
35	BB	669	A	C2'-C1'	-6.98	1.45	1.53
35	BB	704	G	N1-C2	-6.98	1.32	1.37
35	BB	1356	G	N1-C2	-6.98	1.32	1.37
37	BD	105	G	P-O5'	-6.98	1.52	1.59
38	BE	105	A	C4'-C3'	-6.98	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	140	C	P-O5'	-6.98	1.52	1.59
34	BA	68	A	O3'-P	-6.98	1.52	1.61
34	BA	428	C	C3'-C2'	-6.98	1.45	1.52
34	BA	1556	A	C4'-O4'	-6.98	1.36	1.45
35	BB	1136	G	C1'-N9	-6.98	1.37	1.46
85	AA	182	C	O3'-P	-6.98	1.52	1.61
85	AA	1604	A	O3'-P	-6.98	1.52	1.61
34	BA	627	U	C2-N3	-6.97	1.32	1.37
34	BA	913	U	C2'-C1'	-6.97	1.45	1.53
34	BA	1331	G	O3'-P	-6.97	1.52	1.61
35	BB	433	C	C3'-C2'	-6.97	1.45	1.52
35	BB	690	C	C1'-N1	-6.97	1.37	1.46
35	BB	1299	G	C4'-C3'	-6.97	1.45	1.53
35	BB	1376	G	C5'-C4'	-6.97	1.43	1.51
39	BF	66	C	P-O5'	-6.97	1.52	1.59
85	AA	492	C	O3'-P	-6.97	1.52	1.61
85	AA	682	C	P-O5'	-6.97	1.52	1.59
85	AA	1200	A	C2'-C1'	-6.97	1.45	1.53
34	BA	383	G	C2-N3	-6.97	1.27	1.32
34	BA	437	G	C8-N7	-6.97	1.26	1.30
34	BA	970	U	O3'-P	-6.97	1.52	1.61
35	BB	499	A	O3'-P	-6.97	1.52	1.61
36	BC	21	U	O3'-P	-6.97	1.52	1.61
85	AA	470	C	N1-C6	-6.97	1.32	1.37
85	AA	476	C	C2-N3	-6.97	1.30	1.35
85	AA	2137	A	N7-C5	-6.97	1.35	1.39
34	BA	629	G	N9-C4	-6.97	1.32	1.38
85	AA	196	U	P-O5'	-6.97	1.52	1.59
85	AA	319	U	P-O5'	-6.97	1.52	1.59
85	AA	1507	G	N3-C4	-6.97	1.30	1.35
34	BA	16	C	O3'-P	-6.97	1.52	1.61
34	BA	1408	C	N1-C6	-6.97	1.32	1.37
35	BB	368	C	C2-N3	-6.97	1.30	1.35
35	BB	660	G	N9-C4	-6.97	1.32	1.38
35	BB	1067	G	C6-N1	-6.97	1.34	1.39
35	BB	1250	A	C3'-C2'	-6.97	1.45	1.52
36	BC	61	A	O3'-P	-6.97	1.52	1.61
38	BE	107	U	P-O5'	-6.97	1.52	1.59
38	BE	128	G	C3'-C2'	-6.97	1.45	1.52
85	AA	1497	U	C2'-C1'	-6.97	1.45	1.53
34	BA	1658	G	O3'-P	-6.97	1.52	1.61
34	BA	1816	G	C5-C6	-6.97	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	474	G	C2'-C1'	-6.97	1.45	1.53
35	BB	591	A	C1'-N9	-6.97	1.37	1.46
35	BB	1382	U	P-O5'	-6.97	1.52	1.59
40	BG	132	U	C1'-N1	-6.97	1.37	1.46
34	BA	143	A	C2'-C1'	-6.97	1.45	1.53
34	BA	894	G	N1-C2	-6.97	1.32	1.37
34	BA	1611	A	C5-C4	-6.97	1.33	1.38
35	BB	411	A	O3'-P	-6.97	1.52	1.61
35	BB	1281	G	P-O5'	-6.97	1.52	1.59
36	BC	24	G	C4'-C3'	-6.97	1.45	1.53
39	BF	50	C	N1-C6	-6.97	1.32	1.37
40	BG	1	G	C3'-C2'	-6.97	1.45	1.52
40	BG	55	A	C2'-C1'	-6.97	1.45	1.53
85	AA	778	C	P-O5'	-6.97	1.52	1.59
85	AA	881	C	N3-C4	-6.97	1.29	1.33
85	AA	1705	G	N9-C4	-6.97	1.32	1.38
2	A1	100	TYR	CB-CG	-6.96	1.41	1.51
34	BA	346	A	N7-C5	-6.96	1.35	1.39
34	BA	459	U	P-O5'	-6.96	1.52	1.59
34	BA	1262	A	C5'-C4'	-6.96	1.43	1.51
34	BA	1706	A	N7-C5	-6.96	1.35	1.39
36	BC	164	G	C2'-C1'	-6.96	1.45	1.53
40	BG	156	G	C4'-C3'	-6.96	1.45	1.53
85	AA	344	U	C5'-C4'	6.96	1.59	1.51
85	AA	387	U	P-O5'	-6.96	1.52	1.59
85	AA	435	A	O3'-P	-6.96	1.52	1.61
85	AA	513	G	C2'-C1'	-6.96	1.45	1.53
85	AA	553	G	O3'-P	-6.96	1.52	1.61
34	BA	108	A	N3-C4	-6.96	1.30	1.34
34	BA	1427	U	P-O5'	-6.96	1.52	1.59
34	BA	1477	C	C5'-C4'	-6.96	1.43	1.51
37	BD	112	U	O3'-P	-6.96	1.52	1.61
85	AA	517	A	C3'-C2'	-6.96	1.45	1.52
85	AA	1527	G	C6-N1	-6.96	1.34	1.39
85	AA	2082	C	O3'-P	-6.96	1.52	1.61
34	BA	176	G	O3'-P	-6.96	1.52	1.61
34	BA	451	A	N9-C4	-6.96	1.33	1.37
34	BA	616	G	N9-C4	-6.96	1.32	1.38
34	BA	1101	A	C1'-N9	-6.96	1.37	1.46
34	BA	1221	A	C2'-C1'	-6.96	1.45	1.53
35	BB	617	C	N3-C4	-6.96	1.29	1.33
35	BB	901	U	C4'-C3'	-6.96	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1071	G	C3'-C2'	-6.96	1.45	1.52
35	BB	1234	G	O3'-P	-6.96	1.52	1.61
35	BB	1438	U	P-O5'	-6.96	1.52	1.59
85	AA	1129	A	O3'-P	-6.96	1.52	1.61
85	AA	1517	G	C2-N2	-6.96	1.27	1.34
85	AA	1991	C	C4'-O4'	-6.96	1.36	1.45
85	AA	2116	U	O3'-P	-6.96	1.52	1.61
34	BA	32	A	C2'-C1'	-6.96	1.45	1.53
34	BA	843	G	N9-C4	6.96	1.43	1.38
34	BA	1572	G	C6-N1	-6.96	1.34	1.39
35	BB	35	G	N9-C8	-6.96	1.32	1.37
35	BB	641	C	C2'-C1'	-6.96	1.45	1.53
35	BB	680	A	P-O5'	-6.96	1.52	1.59
36	BC	59	A	C5-C4	-6.96	1.33	1.38
40	BG	125	C	C3'-C2'	-6.96	1.45	1.52
85	AA	12	U	C2-N3	-6.96	1.32	1.37
85	AA	1228	A	O3'-P	-6.96	1.52	1.61
34	BA	5	C	C2'-C1'	-6.96	1.45	1.53
34	BA	293	A	C5-C4	-6.96	1.33	1.38
34	BA	1507	C	C1'-N1	-6.96	1.37	1.46
34	BA	1697	U	C4-C5	-6.96	1.37	1.43
34	BA	1843	G	P-O5'	-6.96	1.52	1.59
35	BB	617	C	O3'-P	-6.96	1.52	1.61
35	BB	654	C	C2-N3	-6.96	1.30	1.35
35	BB	1272	G	N1-C2	-6.96	1.32	1.37
35	BB	1404	A	N9-C8	-6.96	1.32	1.37
37	BD	8	A	O3'-P	-6.96	1.52	1.61
37	BD	94	C	O3'-P	-6.96	1.52	1.61
40	BG	126	G	C5-C4	-6.96	1.33	1.38
85	AA	80	G	O3'-P	-6.96	1.52	1.61
85	AA	322	A	O3'-P	-6.96	1.52	1.61
85	AA	927	A	C2'-C1'	-6.96	1.45	1.53
85	AA	1495	G	C4'-O4'	-6.96	1.36	1.45
34	BA	818	G	C2'-C1'	-6.96	1.45	1.53
34	BA	927	A	O3'-P	-6.96	1.52	1.61
35	BB	73	G	C5-C4	-6.96	1.33	1.38
35	BB	394	A	C5-C4	-6.96	1.33	1.38
35	BB	1196	A	P-O5'	-6.96	1.52	1.59
36	BC	147	G	N1-C2	-6.96	1.32	1.37
41	BH	17	A	C4'-C3'	-6.96	1.45	1.53
85	AA	962	U	O3'-P	-6.96	1.52	1.61
85	AA	1144	G	O3'-P	-6.96	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	91	C	C3'-C2'	-6.96	1.45	1.52
34	BA	140	C	O3'-P	-6.96	1.52	1.61
34	BA	704	G	P-O5'	-6.96	1.52	1.59
38	BE	32	U	C4'-C3'	-6.96	1.45	1.53
38	BE	198	A	C1'-N9	-6.96	1.37	1.46
85	AA	665	A	P-O5'	-6.96	1.52	1.59
85	AA	1735	U	O3'-P	-6.96	1.52	1.61
85	AA	2222	G	C6-N1	-6.96	1.34	1.39
34	BA	464	U	O3'-P	-6.95	1.52	1.61
34	BA	502	U	C2-N3	-6.95	1.32	1.37
34	BA	569	C	C3'-C2'	-6.95	1.45	1.52
34	BA	1305	A	P-O5'	-6.95	1.52	1.59
34	BA	1695	G	C2'-C1'	-6.95	1.45	1.53
35	BB	587	A	C5-C4	-6.95	1.33	1.38
40	BG	158	A	O3'-P	-6.95	1.52	1.61
41	BH	133	U	C2-N3	-6.95	1.32	1.37
85	AA	246	C	C2-N3	-6.95	1.30	1.35
85	AA	687	G	O3'-P	-6.95	1.52	1.61
85	AA	1221	G	N3-C4	-6.95	1.30	1.35
85	AA	1829	C	C3'-C2'	-6.95	1.45	1.52
34	BA	585	G	C4'-C3'	-6.95	1.45	1.53
34	BA	1031	U	C2-N3	-6.95	1.32	1.37
35	BB	562	A	C5-C4	-6.95	1.33	1.38
35	BB	705	C	C2-N3	-6.95	1.30	1.35
35	BB	1089	A	C5-C4	-6.95	1.33	1.38
85	AA	159	G	N9-C4	-6.95	1.32	1.38
85	AA	994	A	C4'-C3'	-6.95	1.45	1.53
85	AA	1531	G	C5-C4	-6.95	1.33	1.38
34	BA	456	G	N9-C4	-6.95	1.32	1.38
34	BA	1059	U	C4'-O4'	-6.95	1.36	1.45
35	BB	1224	C	C4'-C3'	-6.95	1.45	1.53
37	BD	79	G	C2-N2	-6.95	1.27	1.34
40	BG	79	U	C3'-C2'	-6.95	1.45	1.52
85	AA	440	U	C2-N3	-6.95	1.32	1.37
85	AA	907	G	N9-C8	-6.95	1.32	1.37
85	AA	962	U	P-O5'	-6.95	1.52	1.59
85	AA	1235	G	N7-C5	-6.95	1.35	1.39
34	BA	447	U	O3'-P	-6.95	1.52	1.61
34	BA	492	G	N9-C8	-6.95	1.32	1.37
34	BA	752	A	C1'-N9	-6.95	1.37	1.46
34	BA	901	C	P-O5'	-6.95	1.52	1.59
35	BB	777	C	O3'-P	-6.95	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1160	U	C2-N3	-6.95	1.32	1.37
35	BB	1185	G	C4'-C3'	-6.95	1.45	1.53
36	BC	36	G	C1'-N9	-6.95	1.37	1.46
36	BC	40	A	O3'-P	-6.95	1.52	1.61
38	BE	18	U	C3'-C2'	-6.95	1.45	1.52
85	AA	1221	G	C6-N1	-6.95	1.34	1.39
85	AA	2039	G	C4'-O4'	-6.95	1.36	1.45
34	BA	1437	G	C5-C4	-6.95	1.33	1.38
35	BB	1182	A	O3'-P	-6.95	1.52	1.61
35	BB	1340	U	O3'-P	-6.95	1.52	1.61
38	BE	131	C	C3'-C2'	-6.95	1.45	1.52
85	AA	428	G	C2-N2	-6.95	1.27	1.34
85	AA	662	U	C4'-C3'	-6.95	1.45	1.53
34	BA	441	A	O3'-P	-6.95	1.52	1.61
34	BA	1735	G	C8-N7	-6.95	1.26	1.30
35	BB	788	U	C3'-C2'	-6.95	1.45	1.52
35	BB	1150	A	P-O5'	-6.95	1.52	1.59
38	BE	198	A	P-O5'	-6.95	1.52	1.59
39	BF	30	C	O3'-P	-6.95	1.52	1.61
41	BH	99	G	P-O5'	-6.95	1.52	1.59
41	BH	104	U	C4'-C3'	-6.95	1.45	1.53
85	AA	456	A	N9-C8	-6.95	1.32	1.37
85	AA	1526	G	C1'-N9	-6.95	1.37	1.46
85	AA	1676	G	N7-C5	-6.95	1.35	1.39
85	AA	1692	U	O3'-P	-6.95	1.52	1.61
34	BA	1428	G	C5-C4	-6.94	1.33	1.38
35	BB	73	G	N9-C4	-6.94	1.32	1.38
35	BB	638	G	C5-C4	-6.94	1.33	1.38
36	BC	151	G	C5-C4	-6.94	1.33	1.38
37	BD	45	U	P-O5'	-6.94	1.52	1.59
85	AA	1672	G	C2'-C1'	-6.94	1.45	1.53
86	AB	48	C	C2-N3	-6.94	1.30	1.35
34	BA	1241	U	O3'-P	-6.94	1.52	1.61
35	BB	40	C	C1'-N1	-6.94	1.37	1.46
35	BB	1176	G	C1'-N9	-6.94	1.37	1.46
38	BE	49	A	C3'-C2'	-6.94	1.45	1.52
85	AA	157	G	C5-C4	-6.94	1.33	1.38
85	AA	637	U	P-O5'	-6.94	1.52	1.59
85	AA	2184	A	C1'-N9	-6.94	1.37	1.46
35	BB	498	G	C2'-C1'	-6.94	1.45	1.53
35	BB	658	G	N1-C2	-6.94	1.32	1.37
35	BB	1545	U	P-O5'	-6.94	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2239	A	O3'-P	-6.94	1.52	1.61
34	BA	794	G	C6-N1	-6.94	1.34	1.39
35	BB	390	G	C2'-C1'	-6.94	1.45	1.53
85	AA	404	A	C4'-O4'	-6.94	1.36	1.45
25	AR	48	GLY	CA-C	-6.94	1.40	1.51
34	BA	34	U	C3'-C2'	-6.94	1.45	1.52
34	BA	469	C	C4'-C3'	-6.94	1.45	1.53
34	BA	619	U	N3-C4	-6.94	1.32	1.38
34	BA	1032	A	N7-C5	-6.94	1.35	1.39
34	BA	1039	G	C2'-C1'	-6.94	1.45	1.53
34	BA	1214	U	C3'-C2'	-6.94	1.45	1.52
34	BA	1379	G	C2-N3	-6.94	1.27	1.32
35	BB	122	U	N3-C4	-6.94	1.32	1.38
36	BC	139	A	C3'-C2'	-6.94	1.45	1.52
37	BD	7	G	C1'-N9	-6.94	1.37	1.46
85	AA	653	A	O3'-P	-6.94	1.52	1.61
85	AA	794	A	C1'-N9	-6.94	1.37	1.46
85	AA	1109	G	C6-N1	-6.94	1.34	1.39
85	AA	2034	G	N7-C5	-6.94	1.35	1.39
35	BB	1179	C	C3'-C2'	-6.94	1.45	1.52
85	AA	654	A	P-O5'	-6.94	1.52	1.59
85	AA	1502	A	P-O5'	-6.94	1.52	1.59
34	BA	58	A	C5-C4	-6.93	1.33	1.38
34	BA	413	A	N9-C8	-6.93	1.32	1.37
34	BA	498	A	P-O5'	-6.93	1.52	1.59
34	BA	755	G	C5-C4	-6.93	1.33	1.38
34	BA	925	G	C2-N2	-6.93	1.27	1.34
34	BA	1190	A	C4'-C3'	-6.93	1.45	1.53
35	BB	558	U	C3'-C2'	-6.93	1.45	1.52
35	BB	1442	C	C2'-C1'	-6.93	1.45	1.53
37	BD	55	A	O3'-P	-6.93	1.52	1.61
41	BH	44	A	P-O5'	-6.93	1.52	1.59
85	AA	493	A	C3'-C2'	-6.93	1.45	1.52
85	AA	1262	A	C3'-C2'	-6.93	1.45	1.52
85	AA	1519	A	O3'-P	-6.93	1.52	1.61
85	AA	1728	G	O3'-P	-6.93	1.52	1.61
34	BA	757	G	C4'-C3'	-6.93	1.45	1.53
34	BA	1040	G	N7-C5	-6.93	1.35	1.39
34	BA	1076	U	N3-C4	-6.93	1.32	1.38
34	BA	1148	U	O3'-P	-6.93	1.52	1.61
34	BA	1285	G	C5-C4	-6.93	1.33	1.38
35	BB	1070	G	N9-C4	-6.93	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1277	A	C2'-C1'	-6.93	1.45	1.53
35	BB	1351	G	C1'-N9	-6.93	1.37	1.46
85	AA	364	C	O3'-P	-6.93	1.52	1.61
85	AA	1148	G	C2-N2	-6.93	1.27	1.34
85	AA	1269	A	C2'-C1'	-6.93	1.45	1.53
34	BA	77	C	C2-N3	-6.93	1.30	1.35
34	BA	238	C	N1-C2	-6.93	1.33	1.40
41	BH	47	G	C5-C4	-6.93	1.33	1.38
85	AA	937	G	C3'-C2'	-6.93	1.45	1.52
34	BA	420	A	C8-N7	-6.93	1.26	1.31
34	BA	623	U	O3'-P	-6.93	1.52	1.61
34	BA	726	G	N7-C5	-6.93	1.35	1.39
35	BB	423	G	C2-N2	-6.93	1.27	1.34
35	BB	556	U	P-O5'	-6.93	1.52	1.59
35	BB	750	G	C2'-C1'	-6.93	1.45	1.53
40	BG	5	G	C2'-C1'	-6.93	1.45	1.53
40	BG	115	C	O3'-P	-6.93	1.52	1.61
85	AA	115	U	C2-N3	-6.93	1.32	1.37
85	AA	1373	U	O3'-P	-6.93	1.52	1.61
85	AA	1919	G	O3'-P	-6.93	1.52	1.61
85	AA	2127	G	N9-C8	-6.93	1.32	1.37
85	AA	2240	G	C3'-C2'	-6.93	1.45	1.52
34	BA	258	C	C3'-C2'	-6.93	1.45	1.52
34	BA	1188	U	O3'-P	-6.93	1.52	1.61
34	BA	1341	A	N7-C5	-6.93	1.35	1.39
36	BC	56	G	C2'-C1'	-6.93	1.45	1.53
34	BA	350	C	C3'-C2'	-6.93	1.45	1.52
34	BA	394	A	P-O5'	-6.93	1.52	1.59
34	BA	417	A	C2'-C1'	-6.93	1.45	1.53
34	BA	693	G	C4'-C3'	-6.93	1.45	1.53
34	BA	1431	G	C5-C4	-6.93	1.33	1.38
34	BA	1527	G	C3'-C2'	-6.93	1.45	1.52
34	BA	1561	C	C4'-O4'	-6.93	1.36	1.45
35	BB	814	A	C2'-C1'	-6.93	1.45	1.53
35	BB	1107	C	C3'-C2'	-6.93	1.45	1.52
36	BC	52	A	N7-C5	-6.93	1.35	1.39
38	BE	4	A	N7-C5	-6.93	1.35	1.39
85	AA	600	C	C4'-C3'	6.93	1.60	1.53
85	AA	910	G	C2-N3	-6.93	1.27	1.32
85	AA	1928	A	O3'-P	-6.93	1.52	1.61
34	BA	144	C	C3'-C2'	-6.92	1.45	1.52
34	BA	195	G	N9-C8	-6.92	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	975	A	P-O5'	-6.92	1.52	1.59
34	BA	1005	C	O3'-P	-6.92	1.52	1.61
34	BA	1009	G	C6-N1	-6.92	1.34	1.39
34	BA	1041	U	C2-N3	-6.92	1.32	1.37
34	BA	1646	U	C3'-C2'	-6.92	1.45	1.52
36	BC	112	G	N3-C4	-6.92	1.30	1.35
37	BD	75	G	N7-C5	-6.92	1.35	1.39
85	AA	410	A	O3'-P	-6.92	1.52	1.61
85	AA	461	G	C8-N7	-6.92	1.26	1.30
85	AA	1451	U	C4-C5	-6.92	1.37	1.43
34	BA	718	U	O3'-P	-6.92	1.52	1.61
40	BG	109	C	C1'-N1	-6.92	1.37	1.46
85	AA	1704	C	O3'-P	-6.92	1.52	1.61
34	BA	3	G	O4'-C1'	-6.92	1.32	1.41
34	BA	26	C	O3'-P	-6.92	1.52	1.61
34	BA	112	C	C4'-O4'	-6.92	1.36	1.45
34	BA	1078	U	P-O5'	-6.92	1.52	1.59
34	BA	1321	A	C5-C4	-6.92	1.33	1.38
35	BB	878	G	C2'-C1'	-6.92	1.45	1.53
35	BB	957	A	P-O5'	-6.92	1.52	1.59
35	BB	1168	G	C4'-C3'	-6.92	1.45	1.53
35	BB	1188	A	O4'-C1'	-6.92	1.32	1.41
35	BB	1313	C	C4'-C3'	-6.92	1.45	1.53
35	BB	1510	G	C1'-N9	-6.92	1.37	1.46
36	BC	165	U	O3'-P	-6.92	1.52	1.61
37	BD	33	U	C4'-C3'	-6.92	1.45	1.53
40	BG	74	G	N7-C5	-6.92	1.35	1.39
85	AA	499	G	N9-C4	-6.92	1.32	1.38
85	AA	700	U	P-O5'	-6.92	1.52	1.59
85	AA	969	U	C5'-C4'	6.92	1.59	1.51
85	AA	1489	G	P-O5'	-6.92	1.52	1.59
85	AA	2198	G	P-O5'	-6.92	1.52	1.59
34	BA	475	A	C2'-C1'	-6.92	1.45	1.53
85	AA	989	U	C2'-C1'	-6.92	1.45	1.53
34	BA	9	A	P-O5'	-6.92	1.52	1.59
34	BA	1409	A	C5-C4	-6.92	1.33	1.38
34	BA	1491	U	N3-C4	-6.92	1.32	1.38
35	BB	808	U	C2-N3	-6.92	1.32	1.37
35	BB	1153	G	C1'-N9	-6.92	1.37	1.46
35	BB	1298	C	C4-N4	-6.92	1.27	1.33
37	BD	9	C	O3'-P	-6.92	1.52	1.61
37	BD	82	G	C4'-O4'	-6.92	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2146	G	C6-N1	-6.92	1.34	1.39
34	BA	541	C	C3'-C2'	-6.92	1.45	1.52
34	BA	706	C	C4'-C3'	-6.92	1.45	1.53
34	BA	913	U	P-O5'	-6.92	1.52	1.59
35	BB	511	A	O3'-P	-6.92	1.52	1.61
35	BB	653	G	N9-C4	-6.92	1.32	1.38
35	BB	1143	A	P-O5'	-6.92	1.52	1.59
35	BB	1264	U	O3'-P	-6.92	1.52	1.61
37	BD	25	G	O3'-P	-6.92	1.52	1.61
85	AA	661	C	C2'-C1'	-6.92	1.45	1.53
85	AA	903	G	O3'-P	-6.92	1.52	1.61
34	BA	987	C	O3'-P	-6.92	1.52	1.61
34	BA	1658	G	N9-C8	-6.92	1.33	1.37
34	BA	1701	U	C1'-N1	-6.92	1.37	1.46
35	BB	823	G	C2'-C1'	-6.92	1.45	1.53
35	BB	967	G	C3'-C2'	-6.92	1.45	1.52
35	BB	1293	C	C2-N3	-6.92	1.30	1.35
35	BB	1295	A	C2'-C1'	-6.92	1.45	1.53
85	AA	131	C	O3'-P	-6.92	1.52	1.61
85	AA	389	A	C2'-C1'	-6.92	1.45	1.53
85	AA	673	A	O3'-P	-6.92	1.52	1.61
34	BA	922	C	C3'-C2'	-6.91	1.45	1.52
34	BA	1040	G	N9-C8	-6.91	1.33	1.37
34	BA	1158	A	C5-C4	-6.91	1.33	1.38
34	BA	1300	G	C1'-N9	-6.91	1.37	1.46
34	BA	1341	A	C1'-N9	-6.91	1.37	1.46
34	BA	1555	G	C5-C4	-6.91	1.33	1.38
35	BB	102	G	C5-C4	-6.91	1.33	1.38
35	BB	386	G	O3'-P	-6.91	1.52	1.61
35	BB	1066	G	N7-C5	-6.91	1.35	1.39
35	BB	1227	G	C3'-C2'	-6.91	1.45	1.52
39	BF	47	C	C2-N3	-6.91	1.30	1.35
85	AA	149	A	N9-C4	-6.91	1.33	1.37
85	AA	422	G	O3'-P	-6.91	1.52	1.61
34	BA	65	A	N9-C4	-6.91	1.33	1.37
34	BA	1178	U	C2'-C1'	-6.91	1.45	1.53
85	AA	395	G	N1-C2	-6.91	1.32	1.37
85	AA	1703	A	O3'-P	-6.91	1.52	1.61
34	BA	161	U	P-O5'	-6.91	1.52	1.59
34	BA	745	A	O3'-P	-6.91	1.52	1.61
34	BA	876	C	C1'-N1	-6.91	1.37	1.46
35	BB	391	G	C2'-C1'	-6.91	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1295	A	P-O5'	-6.91	1.52	1.59
35	BB	1335	G	O3'-P	-6.91	1.52	1.61
85	AA	90	A	N7-C5	-6.91	1.35	1.39
85	AA	455	G	O4'-C1'	-6.91	1.32	1.41
85	AA	900	G	O3'-P	-6.91	1.52	1.61
85	AA	1665	G	C3'-C2'	-6.91	1.45	1.52
85	AA	1677	A	C2'-C1'	-6.91	1.45	1.53
34	BA	60	A	C2'-C1'	-6.91	1.45	1.53
34	BA	497	U	N3-C4	-6.91	1.32	1.38
34	BA	828	A	N9-C4	-6.91	1.33	1.37
34	BA	1428	G	C2'-C1'	-6.91	1.45	1.53
35	BB	393	A	C1'-N9	-6.91	1.37	1.46
35	BB	615	A	C8-N7	-6.91	1.26	1.31
35	BB	1250	A	C1'-N9	-6.91	1.37	1.46
36	BC	142	C	O3'-P	-6.91	1.52	1.61
40	BG	175	G	C5'-C4'	6.91	1.59	1.51
34	BA	957	A	C2'-C1'	-6.91	1.45	1.53
37	BD	99	G	N3-C4	-6.91	1.30	1.35
34	BA	495	A	C5-C4	-6.91	1.33	1.38
34	BA	822	U	C2'-C1'	-6.91	1.45	1.53
34	BA	958	G	C2-N2	-6.91	1.27	1.34
34	BA	1055	U	O3'-P	-6.91	1.52	1.61
34	BA	1517	U	O3'-P	-6.91	1.52	1.61
34	BA	1816	G	C8-N7	-6.91	1.26	1.30
85	AA	329	G	N9-C8	-6.91	1.33	1.37
85	AA	1458	G	C3'-C2'	-6.91	1.45	1.52
85	AA	1668	G	C2-N3	-6.91	1.27	1.32
34	BA	93	A	C8-N7	-6.90	1.26	1.31
34	BA	484	A	C1'-N9	-6.90	1.37	1.46
37	BD	106	G	C5-C4	-6.90	1.33	1.38
85	AA	5	U	O3'-P	-6.90	1.52	1.61
85	AA	861	G	P-O5'	-6.90	1.52	1.59
34	BA	3	G	C2'-C1'	-6.90	1.45	1.53
34	BA	789	U	C1'-N1	-6.90	1.37	1.46
34	BA	1162	U	C2-N3	-6.90	1.32	1.37
35	BB	1207	C	C4'-C3'	-6.90	1.45	1.53
35	BB	1251	G	N1-C2	-6.90	1.32	1.37
35	BB	1426	G	C2-N2	-6.90	1.27	1.34
85	AA	1238	U	P-O5'	-6.90	1.52	1.59
85	AA	2111	C	P-O5'	-6.90	1.52	1.59
34	BA	233	U	O3'-P	-6.90	1.52	1.61
34	BA	754	G	C4'-C3'	-6.90	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1642	A	C3'-C2'	-6.90	1.45	1.52
35	BB	455	G	C6-N1	-6.90	1.34	1.39
37	BD	30	A	C2'-C1'	-6.90	1.45	1.53
38	BE	201	A	O3'-P	-6.90	1.52	1.61
40	BG	97	G	C4'-C3'	-6.90	1.45	1.53
85	AA	2198	G	C6-N1	-6.90	1.34	1.39
34	BA	290	G	C2'-C1'	-6.90	1.45	1.53
34	BA	1837	U	C2'-C1'	-6.90	1.45	1.53
35	BB	1485	G	N7-C5	-6.90	1.35	1.39
37	BD	50	A	N9-C4	-6.90	1.33	1.37
85	AA	97	A	C8-N7	-6.90	1.26	1.31
85	AA	171	U	P-O5'	-6.90	1.52	1.59
85	AA	442	G	N9-C4	-6.90	1.32	1.38
34	BA	76	U	C3'-C2'	-6.90	1.45	1.52
34	BA	87	G	C3'-C2'	-6.90	1.45	1.52
34	BA	1028	A	C1'-N9	-6.90	1.37	1.46
34	BA	1514	A	P-O5'	-6.90	1.52	1.59
38	BE	10	G	N3-C4	-6.90	1.30	1.35
67	Bh	134	PHE	CB-CG	-6.90	1.39	1.51
85	AA	338	G	C5'-C4'	-6.90	1.43	1.51
34	BA	24	C	C2'-C1'	-6.90	1.45	1.53
34	BA	1407	C	O3'-P	-6.90	1.52	1.61
35	BB	1309	A	O3'-P	-6.90	1.52	1.61
85	AA	485	A	C4'-C3'	-6.90	1.45	1.53
34	BA	478	G	C8-N7	-6.89	1.26	1.30
35	BB	803	U	C2'-C1'	-6.89	1.45	1.53
36	BC	127	C	O3'-P	-6.89	1.52	1.61
40	BG	58	G	N9-C4	-6.89	1.32	1.38
34	BA	223	U	C3'-C2'	-6.89	1.45	1.52
34	BA	936	A	C1'-N9	-6.89	1.37	1.46
34	BA	1176	C	C2-N3	-6.89	1.30	1.35
34	BA	1655	G	C5-C4	-6.89	1.33	1.38
34	BA	1701	U	O3'-P	-6.89	1.52	1.61
36	BC	155	C	C2-N3	-6.89	1.30	1.35
37	BD	111	U	O3'-P	-6.89	1.52	1.61
85	AA	583	U	P-O5'	-6.89	1.52	1.59
85	AA	619	A	C2'-C1'	-6.89	1.45	1.53
85	AA	1228	A	N3-C4	-6.89	1.30	1.34
34	BA	55	G	N7-C5	-6.89	1.35	1.39
34	BA	466	G	O3'-P	-6.89	1.52	1.61
34	BA	925	G	P-O5'	-6.89	1.52	1.59
34	BA	1167	A	C1'-N9	-6.89	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	368	C	C1'-N1	-6.89	1.37	1.46
35	BB	456	A	C2'-C1'	-6.89	1.45	1.53
36	BC	54	G	C6-N1	-6.89	1.34	1.39
85	AA	2140	U	C2-N3	-6.89	1.32	1.37
34	BA	395	G	O4'-C1'	-6.89	1.32	1.41
34	BA	1115	A	N3-C4	-6.89	1.30	1.34
34	BA	1666	U	C3'-C2'	-6.89	1.45	1.52
35	BB	19	C	O3'-P	-6.89	1.52	1.61
35	BB	956	G	P-O5'	-6.89	1.52	1.59
35	BB	1167	C	C2'-C1'	6.89	1.60	1.53
35	BB	1304	U	O3'-P	-6.89	1.52	1.61
39	BF	19	A	C5'-C4'	6.89	1.59	1.51
85	AA	1152	U	O3'-P	-6.89	1.52	1.61
85	AA	1645	G	C3'-C2'	-6.89	1.45	1.52
34	BA	146	G	C6-N1	-6.89	1.34	1.39
35	BB	563	A	C8-N7	-6.89	1.26	1.31
35	BB	870	C	C4-C5	-6.89	1.37	1.43
41	BH	37	U	C4'-O4'	-6.89	1.36	1.45
34	BA	169	C	O3'-P	-6.89	1.52	1.61
34	BA	234	A	N7-C5	-6.89	1.35	1.39
34	BA	505	U	O3'-P	-6.89	1.52	1.61
34	BA	705	C	C1'-N1	-6.89	1.37	1.46
34	BA	1527	G	C2-N2	-6.89	1.27	1.34
34	BA	1544	G	N7-C5	-6.89	1.35	1.39
35	BB	1052	G	C2'-C1'	-6.89	1.45	1.53
35	BB	1069	C	C3'-C2'	-6.89	1.45	1.52
35	BB	1335	G	C2'-C1'	-6.89	1.45	1.53
35	BB	1406	C	C4-N4	-6.89	1.27	1.33
41	BH	133	U	C5'-C4'	-6.89	1.43	1.51
85	AA	186	U	C3'-C2'	-6.89	1.45	1.52
85	AA	416	U	C1'-N1	-6.89	1.37	1.46
85	AA	423	G	C5-C4	-6.89	1.33	1.38
85	AA	514	U	C1'-N1	-6.89	1.37	1.46
85	AA	1485	G	C2'-C1'	-6.89	1.45	1.53
34	BA	151	A	C4'-O4'	6.88	1.54	1.45
35	BB	67	A	O3'-P	-6.88	1.52	1.61
35	BB	1079	G	C3'-C2'	-6.88	1.45	1.52
35	BB	1079	G	C5-C4	-6.88	1.33	1.38
35	BB	1120	A	O3'-P	-6.88	1.52	1.61
35	BB	1356	G	C1'-N9	-6.88	1.37	1.46
35	BB	1414	A	N7-C5	-6.88	1.35	1.39
85	AA	1097	G	P-O5'	-6.88	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	781	U	C4'-C3'	-6.88	1.45	1.53
34	BA	857	C	O4'-C1'	-6.88	1.32	1.41
34	BA	1593	U	C3'-C2'	-6.88	1.45	1.52
40	BG	130	G	C3'-C2'	-6.88	1.45	1.52
85	AA	1207	C	O3'-P	-6.88	1.52	1.61
85	AA	1895	C	C4'-C3'	-6.88	1.45	1.53
34	BA	595	U	C4'-C3'	6.88	1.60	1.53
34	BA	1190	A	O3'-P	-6.88	1.52	1.61
34	BA	1329	U	C3'-C2'	-6.88	1.45	1.52
35	BB	28	G	C2-N2	-6.88	1.27	1.34
35	BB	395	U	C2'-C1'	-6.88	1.45	1.53
35	BB	505	G	C5-C4	-6.88	1.33	1.38
35	BB	658	G	O3'-P	-6.88	1.52	1.61
35	BB	809	U	N3-C4	-6.88	1.32	1.38
35	BB	869	G	C2-N2	-6.88	1.27	1.34
35	BB	1415	G	O3'-P	-6.88	1.52	1.61
37	BD	31	U	O3'-P	-6.88	1.52	1.61
40	BG	158	A	C2'-C1'	-6.88	1.45	1.53
85	AA	1016	G	N9-C4	-6.88	1.32	1.38
85	AA	2135	A	O3'-P	-6.88	1.52	1.61
34	BA	493	G	C6-N1	-6.88	1.34	1.39
34	BA	747	G	N9-C8	-6.88	1.33	1.37
34	BA	1194	G	O3'-P	-6.88	1.52	1.61
34	BA	1682	A	N7-C5	-6.88	1.35	1.39
35	BB	1158	C	O3'-P	-6.88	1.52	1.61
37	BD	71	G	N1-C2	-6.88	1.32	1.37
40	BG	76	C	P-O5'	-6.88	1.52	1.59
34	BA	15	G	N7-C5	-6.88	1.35	1.39
34	BA	118	C	C2'-C1'	-6.88	1.45	1.53
34	BA	826	C	C3'-C2'	-6.88	1.45	1.52
34	BA	896	U	C4'-C3'	-6.88	1.45	1.53
34	BA	1193	A	C3'-C2'	-6.88	1.45	1.52
34	BA	1210	A	C2'-C1'	-6.88	1.45	1.53
34	BA	1431	G	N9-C4	-6.88	1.32	1.38
34	BA	1661	U	C4'-O4'	-6.88	1.36	1.45
35	BB	703	U	C2-N3	-6.88	1.32	1.37
35	BB	898	U	P-O5'	-6.88	1.52	1.59
39	BF	33	C	C2'-C1'	-6.88	1.45	1.53
39	BF	52	A	N7-C5	-6.88	1.35	1.39
85	AA	285	C	C2'-C1'	-6.88	1.45	1.53
85	AA	1353	U	C5'-C4'	6.88	1.59	1.51
85	AA	1464	G	O4'-C1'	-6.88	1.32	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	885	A	N9-C4	-6.88	1.33	1.37
34	BA	953	G	C5-C4	-6.88	1.33	1.38
35	BB	604	C	C2'-C1'	-6.88	1.45	1.53
35	BB	666	A	C5-C4	-6.88	1.33	1.38
36	BC	57	C	P-O5'	-6.88	1.52	1.59
40	BG	163	G	C8-N7	-6.88	1.26	1.30
85	AA	124	A	P-O5'	-6.88	1.52	1.59
85	AA	438	G	C5-C4	-6.88	1.33	1.38
85	AA	1207	C	C5'-C4'	-6.88	1.43	1.51
85	AA	983	A	N7-C5	-6.88	1.35	1.39
34	BA	355	U	C3'-C2'	-6.87	1.45	1.52
34	BA	371	U	C1'-N1	-6.87	1.37	1.46
34	BA	941	G	P-O5'	-6.87	1.52	1.59
34	BA	1465	C	C2-N3	-6.87	1.30	1.35
34	BA	1557	G	P-O5'	-6.87	1.52	1.59
35	BB	444	U	C1'-N1	-6.87	1.37	1.46
85	AA	139	G	P-O5'	-6.87	1.52	1.59
85	AA	851	G	C8-N7	-6.87	1.26	1.30
85	AA	2017	U	O3'-P	-6.87	1.52	1.61
34	BA	44	U	C4'-C3'	-6.87	1.45	1.53
34	BA	955	G	O3'-P	-6.87	1.52	1.61
35	BB	531	U	C2-N3	-6.87	1.32	1.37
35	BB	550	G	O3'-P	-6.87	1.52	1.61
35	BB	1427	A	C6-N6	-6.87	1.28	1.33
38	BE	10	G	C1'-N9	6.87	1.59	1.48
85	AA	651	G	O3'-P	-6.87	1.52	1.61
85	AA	1067	G	O3'-P	-6.87	1.52	1.61
85	AA	1529	A	O3'-P	-6.87	1.52	1.61
85	AA	1658	G	P-O5'	-6.87	1.52	1.59
34	BA	590	U	C2-N3	-6.87	1.32	1.37
34	BA	1665	G	C2-N2	-6.87	1.27	1.34
35	BB	385	C	C3'-C2'	-6.87	1.45	1.52
35	BB	588	A	P-O5'	-6.87	1.52	1.59
35	BB	795	A	P-O5'	-6.87	1.52	1.59
35	BB	1496	C	C3'-C2'	-6.87	1.45	1.52
40	BG	29	U	C3'-C2'	-6.87	1.45	1.52
85	AA	794	A	C8-N7	-6.87	1.26	1.31
85	AA	1140	G	N9-C4	-6.87	1.32	1.38
34	BA	1004	U	C2-N3	-6.87	1.32	1.37
35	BB	72	G	C2'-C1'	-6.87	1.45	1.53
35	BB	784	C	C2-N3	-6.87	1.30	1.35
35	BB	1204	C	C3'-C2'	-6.87	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1494	G	O3'-P	-6.87	1.52	1.61
85	AA	1257	A	O3'-P	-6.87	1.52	1.61
34	BA	34	U	C2'-C1'	-6.87	1.45	1.53
34	BA	50	G	C6-N1	-6.87	1.34	1.39
34	BA	955	G	C3'-C2'	-6.87	1.45	1.52
34	BA	1070	G	C3'-C2'	-6.87	1.45	1.52
35	BB	602	G	N9-C8	-6.87	1.33	1.37
36	BC	164	G	C4'-O4'	-6.87	1.36	1.45
85	AA	862	U	C2-N3	-6.87	1.32	1.37
85	AA	1143	C	C4'-C3'	-6.87	1.45	1.53
85	AA	1621	U	C2'-C1'	-6.87	1.45	1.53
34	BA	235	C	O3'-P	-6.87	1.52	1.61
34	BA	602	G	N3-C4	-6.87	1.30	1.35
34	BA	1399	A	O3'-P	-6.87	1.52	1.61
35	BB	2	C	C2'-C1'	-6.87	1.45	1.53
35	BB	659	C	C4'-O4'	-6.87	1.36	1.45
40	BG	7	U	O3'-P	-6.87	1.52	1.61
40	BG	59	G	C2'-C1'	-6.87	1.45	1.53
40	BG	129	G	C3'-C2'	-6.87	1.45	1.52
41	BH	123	G	C3'-C2'	-6.87	1.45	1.52
85	AA	451	G	O3'-P	-6.87	1.52	1.61
85	AA	889	G	N3-C4	-6.87	1.30	1.35
85	AA	1282	A	C1'-N9	-6.87	1.37	1.46
85	AA	1283	C	C4'-O4'	-6.87	1.36	1.45
85	AA	2176	U	C1'-N1	-6.87	1.37	1.46
34	BA	274	C	C2-N3	-6.86	1.30	1.35
34	BA	418	G	N9-C4	-6.86	1.32	1.38
34	BA	859	G	C5-C4	-6.86	1.33	1.38
34	BA	1515	U	P-O5'	-6.86	1.52	1.59
34	BA	1833	G	N7-C5	-6.86	1.35	1.39
35	BB	554	C	P-O5'	-6.86	1.52	1.59
35	BB	1434	G	C1'-N9	-6.86	1.37	1.46
35	BB	1514	G	O3'-P	-6.86	1.52	1.61
38	BE	130	G	C2-N2	-6.86	1.27	1.34
40	BG	128	U	C2'-C1'	-6.86	1.45	1.53
41	BH	54	U	C2'-C1'	-6.86	1.45	1.53
85	AA	116	G	C1'-N9	-6.86	1.37	1.46
85	AA	689	U	C3'-C2'	-6.86	1.45	1.52
34	BA	1103	G	C3'-C2'	-6.86	1.45	1.52
34	BA	1406	U	O3'-P	-6.86	1.52	1.61
35	BB	1253	U	C2-N3	-6.86	1.32	1.37
35	BB	1324	C	O3'-P	-6.86	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	94	C	C2'-C1'	-6.86	1.45	1.53
39	BF	42	G	P-O5'	-6.86	1.52	1.59
40	BG	115	C	C1'-N1	-6.86	1.37	1.46
85	AA	30	G	C3'-C2'	-6.86	1.45	1.52
34	BA	23	A	C6-N1	-6.86	1.30	1.35
34	BA	384	U	O3'-P	-6.86	1.52	1.61
34	BA	596	G	C4'-C3'	6.86	1.60	1.53
34	BA	1644	A	P-O5'	-6.86	1.52	1.59
35	BB	1139	A	C1'-N9	-6.86	1.37	1.46
37	BD	62	A	C1'-N9	-6.86	1.37	1.46
39	BF	50	C	O3'-P	-6.86	1.52	1.61
85	AA	385	A	C4'-O4'	-6.86	1.36	1.45
85	AA	750	A	P-O5'	-6.86	1.52	1.59
34	BA	949	C	P-O5'	-6.86	1.52	1.59
35	BB	683	U	P-O5'	-6.86	1.52	1.59
35	BB	1091	C	P-O5'	-6.86	1.52	1.59
38	BE	8	G	C1'-N9	-6.86	1.37	1.46
34	BA	291	C	C5'-C4'	-6.86	1.43	1.51
34	BA	599	U	C4'-C3'	-6.86	1.45	1.53
34	BA	1291	A	P-O5'	-6.86	1.52	1.59
34	BA	1795	A	C3'-C2'	-6.86	1.45	1.52
35	BB	579	A	P-O5'	-6.86	1.52	1.59
37	BD	37	G	C2'-C1'	-6.86	1.45	1.53
39	BF	43	U	P-O5'	-6.86	1.52	1.59
85	AA	186	U	C2'-C1'	-6.86	1.45	1.53
85	AA	709	A	C5-C4	-6.86	1.33	1.38
85	AA	1262	A	P-O5'	-6.86	1.52	1.59
85	AA	1577	G	N7-C5	-6.86	1.35	1.39
85	AA	1648	G	C2'-C1'	-6.86	1.45	1.53
85	AA	2139	G	C1'-N9	-6.86	1.37	1.46
34	BA	315	U	N3-C4	-6.86	1.32	1.38
34	BA	1724	G	C5'-C4'	6.86	1.59	1.51
35	BB	1141	A	C3'-C2'	-6.86	1.45	1.52
35	BB	1508	G	C1'-N9	-6.86	1.37	1.46
85	AA	15	U	C1'-N1	-6.86	1.37	1.46
85	AA	313	A	C8-N7	-6.86	1.26	1.31
85	AA	470	C	C2'-C1'	-6.86	1.45	1.53
34	BA	1124	U	P-O5'	-6.85	1.52	1.59
40	BG	126	G	C6-N1	-6.85	1.34	1.39
85	AA	408	C	C2'-C1'	-6.85	1.45	1.53
85	AA	1155	A	C5-C4	-6.85	1.33	1.38
85	AA	1751	G	O3'-P	-6.85	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	81	C	N1-C6	-6.85	1.33	1.37
34	BA	146	G	C2-N2	-6.85	1.27	1.34
34	BA	371	U	C2'-C1'	-6.85	1.45	1.53
34	BA	1203	G	C4'-C3'	-6.85	1.45	1.53
34	BA	1544	G	O3'-P	-6.85	1.52	1.61
34	BA	1642	A	C5'-C4'	-6.85	1.43	1.51
34	BA	1654	G	C6-N1	-6.85	1.34	1.39
34	BA	1836	A	C3'-C2'	-6.85	1.45	1.52
35	BB	80	C	C2-N3	-6.85	1.30	1.35
35	BB	566	A	N7-C5	-6.85	1.35	1.39
38	BE	63	C	C2-N3	-6.85	1.30	1.35
40	BG	7	U	P-O5'	-6.85	1.52	1.59
72	Bm	40	LEU	C-N	-6.85	1.21	1.34
85	AA	533	C	C3'-C2'	-6.85	1.45	1.52
85	AA	641	A	C4'-C3'	-6.85	1.45	1.53
85	AA	687	G	C6-N1	-6.85	1.34	1.39
85	AA	1251	G	O3'-P	-6.85	1.52	1.61
86	AB	31	A	P-O5'	-6.85	1.52	1.59
34	BA	69	C	P-O5'	-6.85	1.52	1.59
34	BA	943	G	C3'-C2'	-6.85	1.45	1.52
34	BA	1242	A	C2'-C1'	-6.85	1.45	1.53
35	BB	1491	G	P-O5'	-6.85	1.52	1.59
41	BH	26	C	C4-C5	-6.85	1.37	1.43
85	AA	1354	A	N9-C4	6.85	1.42	1.37
85	AA	2069	A	C1'-N9	-6.85	1.37	1.46
85	AA	2109	G	C2'-C1'	-6.85	1.45	1.53
34	BA	31	A	C2'-C1'	-6.85	1.45	1.53
34	BA	51	C	C2'-C1'	-6.85	1.45	1.53
34	BA	351	A	C5-C4	-6.85	1.33	1.38
34	BA	431	A	N7-C5	-6.85	1.35	1.39
34	BA	817	U	O3'-P	-6.85	1.52	1.61
35	BB	1057	G	C1'-N9	-6.85	1.37	1.46
35	BB	1117	G	C2'-C1'	-6.85	1.45	1.53
35	BB	1244	U	C2'-C1'	-6.85	1.45	1.53
85	AA	310	U	C2-N3	-6.85	1.32	1.37
85	AA	407	G	C5-C4	-6.85	1.33	1.38
85	AA	605	A	C1'-N9	-6.85	1.37	1.46
34	BA	32	A	O3'-P	-6.85	1.52	1.61
34	BA	1484	A	C3'-C2'	-6.85	1.45	1.52
34	BA	1514	A	C1'-N9	-6.85	1.37	1.46
37	BD	79	G	N3-C4	-6.85	1.30	1.35
38	BE	144	A	C2'-C1'	-6.85	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	243	A	N9-C4	-6.85	1.33	1.37
85	AA	1509	A	C3'-C2'	-6.85	1.45	1.52
85	AA	1655	G	C3'-C2'	-6.85	1.45	1.52
85	AA	1918	U	P-O5'	-6.85	1.52	1.59
34	BA	126	G	O3'-P	-6.85	1.52	1.61
34	BA	1154	U	O3'-P	-6.85	1.52	1.61
34	BA	1202	G	N1-C2	-6.85	1.32	1.37
34	BA	1226	G	C2'-C1'	-6.85	1.45	1.53
34	BA	1605	G	C2'-C1'	-6.85	1.45	1.53
35	BB	631	G	C2'-C1'	-6.85	1.45	1.53
35	BB	1078	U	C5'-C4'	-6.85	1.43	1.51
35	BB	1131	C	C4'-O4'	-6.85	1.36	1.45
85	AA	157	G	O3'-P	-6.85	1.52	1.61
34	BA	147	U	N1-C2	-6.84	1.32	1.38
34	BA	472	G	C4'-C3'	-6.84	1.45	1.53
35	BB	108	G	N3-C4	-6.84	1.30	1.35
35	BB	468	U	O3'-P	-6.84	1.52	1.61
35	BB	643	G	C2'-C1'	-6.84	1.45	1.53
35	BB	1372	G	C6-N1	-6.84	1.34	1.39
40	BG	160	C	O3'-P	-6.84	1.52	1.61
85	AA	642	G	O3'-P	-6.84	1.52	1.61
85	AA	1991	C	P-O5'	-6.84	1.52	1.59
85	AA	2110	U	C2'-C1'	-6.84	1.45	1.53
34	BA	908	G	C2'-C1'	-6.84	1.45	1.53
35	BB	129	U	C1'-N1	-6.84	1.37	1.46
35	BB	430	A	C5-C4	-6.84	1.33	1.38
35	BB	1336	G	C2'-C1'	-6.84	1.45	1.53
41	BH	39	G	N9-C8	-6.84	1.33	1.37
34	BA	617	G	C3'-C2'	-6.84	1.45	1.52
34	BA	802	G	C2'-C1'	-6.84	1.45	1.53
34	BA	899	G	C2-N3	-6.84	1.27	1.32
34	BA	1270	G	C2-N2	-6.84	1.27	1.34
34	BA	1612	C	C2-N3	-6.84	1.30	1.35
35	BB	100	A	C5-C4	-6.84	1.33	1.38
35	BB	1031	G	C4'-C3'	-6.84	1.45	1.53
35	BB	1408	G	O3'-P	-6.84	1.52	1.61
35	BB	1497	C	C2'-C1'	-6.84	1.45	1.53
36	BC	153	C	C4-C5	-6.84	1.37	1.43
41	BH	35	G	C8-N7	-6.84	1.26	1.30
85	AA	807	A	C2'-C1'	-6.84	1.45	1.53
34	BA	147	U	C1'-N1	-6.84	1.37	1.46
34	BA	825	G	C2'-C1'	-6.84	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1071	G	C4'-C3'	-6.84	1.45	1.53
34	BA	1160	U	C4'-C3'	-6.84	1.45	1.53
34	BA	1181	G	P-O5'	-6.84	1.52	1.59
35	BB	44	C	C2-N3	-6.84	1.30	1.35
37	BD	22	A	O3'-P	-6.84	1.52	1.61
85	AA	557	G	N9-C8	-6.84	1.33	1.37
85	AA	708	G	C2-N2	-6.84	1.27	1.34
34	BA	714	G	C4'-C3'	-6.84	1.45	1.53
34	BA	904	G	N9-C4	-6.84	1.32	1.38
34	BA	1460	U	O3'-P	-6.84	1.52	1.61
36	BC	101	U	C3'-C2'	-6.84	1.45	1.52
40	BG	172	C	C4'-C3'	-6.84	1.45	1.53
85	AA	352	G	O3'-P	-6.84	1.52	1.61
34	BA	410	G	P-O5'	-6.84	1.52	1.59
34	BA	444	A	O3'-P	-6.84	1.52	1.61
34	BA	490	A	O3'-P	-6.84	1.52	1.61
34	BA	860	G	C2-N2	-6.84	1.27	1.34
35	BB	1201	G	C2'-C1'	-6.84	1.45	1.53
38	BE	96	G	O3'-P	-6.84	1.52	1.61
40	BG	76	C	C4'-O4'	-6.84	1.36	1.45
41	BH	125	U	C3'-C2'	-6.84	1.45	1.52
85	AA	9	U	N3-C4	-6.84	1.32	1.38
85	AA	136	U	P-O5'	-6.84	1.52	1.59
85	AA	535	G	C2'-C1'	-6.84	1.45	1.53
85	AA	636	G	C2'-C1'	-6.84	1.45	1.53
85	AA	816	A	C5'-C4'	6.84	1.59	1.51
85	AA	1511	C	O3'-P	-6.84	1.52	1.61
85	AA	1611	A	N9-C4	-6.84	1.33	1.37
34	BA	890	G	O3'-P	-6.83	1.52	1.61
34	BA	941	G	O3'-P	-6.83	1.52	1.61
35	BB	117	A	C4'-C3'	-6.83	1.45	1.53
35	BB	579	A	N7-C5	-6.83	1.35	1.39
35	BB	600	C	C2'-C1'	-6.83	1.45	1.53
35	BB	607	G	C2-N3	-6.83	1.27	1.32
35	BB	1318	U	O3'-P	-6.83	1.52	1.61
85	AA	277	G	P-O5'	-6.83	1.52	1.59
34	BA	1001	G	N9-C4	-6.83	1.32	1.38
34	BA	1213	A	C3'-C2'	-6.83	1.45	1.52
34	BA	1415	C	O3'-P	-6.83	1.52	1.61
34	BA	1795	A	O3'-P	-6.83	1.52	1.61
35	BB	1022	C	C1'-N1	-6.83	1.37	1.46
41	BH	128	G	C2'-C1'	-6.83	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	128	G	C5-C4	-6.83	1.33	1.38
85	AA	120	C	O3'-P	-6.83	1.52	1.61
85	AA	280	U	O3'-P	-6.83	1.52	1.61
85	AA	678	A	C3'-C2'	-6.83	1.45	1.52
85	AA	959	C	P-O5'	-6.83	1.52	1.59
85	AA	1136	A	N9-C4	-6.83	1.33	1.37
85	AA	1499	G	C3'-C2'	-6.83	1.45	1.52
34	BA	423	G	C3'-C2'	-6.83	1.45	1.52
34	BA	765	U	C4'-O4'	6.83	1.54	1.45
34	BA	1033	G	C2-N3	-6.83	1.27	1.32
34	BA	1587	C	C3'-C2'	-6.83	1.45	1.52
34	BA	1822	U	C2'-C1'	-6.83	1.45	1.53
35	BB	1059	U	C2'-C1'	-6.83	1.45	1.53
37	BD	56	G	O3'-P	-6.83	1.52	1.61
40	BG	21	C	O3'-P	-6.83	1.52	1.61
40	BG	90	G	O3'-P	-6.83	1.52	1.61
41	BH	5	G	P-O5'	-6.83	1.52	1.59
85	AA	789	A	O3'-P	-6.83	1.52	1.61
85	AA	837	C	O3'-P	-6.83	1.52	1.61
85	AA	978	U	O3'-P	-6.83	1.52	1.61
35	BB	432	C	C3'-C2'	-6.83	1.45	1.52
35	BB	839	G	C6-N1	-6.83	1.34	1.39
35	BB	1403	G	C4'-C3'	-6.83	1.45	1.53
38	BE	27	A	C5'-C4'	-6.83	1.43	1.51
34	BA	775	C	C2-N3	-6.83	1.30	1.35
34	BA	1244	G	P-O5'	-6.83	1.52	1.59
35	BB	85	A	C5-C4	-6.83	1.33	1.38
35	BB	439	G	N7-C5	-6.83	1.35	1.39
35	BB	1260	A	C2'-C1'	-6.83	1.45	1.53
37	BD	112	U	N3-C4	-6.83	1.32	1.38
38	BE	109	C	C2'-C1'	-6.83	1.45	1.53
85	AA	557	G	C1'-N9	-6.83	1.37	1.46
35	BB	118	A	C2'-C1'	-6.83	1.45	1.53
35	BB	1022	C	P-O5'	-6.83	1.52	1.59
35	BB	1440	A	C1'-N9	-6.83	1.37	1.46
38	BE	66	A	C8-N7	-6.83	1.26	1.31
38	BE	199	A	C1'-N9	-6.83	1.37	1.46
85	AA	367	A	C3'-C2'	-6.83	1.45	1.52
85	AA	444	U	O3'-P	-6.83	1.52	1.61
85	AA	1186	C	C4-N4	-6.83	1.27	1.33
34	BA	326	A	C4'-O4'	-6.83	1.36	1.45
34	BA	1516	G	C2-N2	-6.83	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1522	G	N7-C5	-6.83	1.35	1.39
34	BA	1532	G	C1'-N9	-6.83	1.37	1.46
35	BB	624	A	N9-C4	-6.83	1.33	1.37
35	BB	804	U	N3-C4	-6.83	1.32	1.38
35	BB	1126	A	N3-C4	-6.83	1.30	1.34
85	AA	156	G	C2'-C1'	-6.83	1.45	1.53
85	AA	258	G	O3'-P	-6.83	1.52	1.61
85	AA	579	U	C4'-C3'	-6.83	1.45	1.53
85	AA	642	G	N1-C2	-6.83	1.32	1.37
34	BA	677	U	N1-C2	-6.82	1.32	1.38
34	BA	686	U	C3'-C2'	-6.82	1.45	1.52
34	BA	1033	G	C5-C6	-6.82	1.35	1.42
34	BA	1696	G	C2-N2	-6.82	1.27	1.34
35	BB	1116	U	C3'-C2'	-6.82	1.45	1.52
35	BB	1380	G	N9-C4	-6.82	1.32	1.38
36	BC	11	G	C2-N2	-6.82	1.27	1.34
39	BF	44	C	O3'-P	-6.82	1.52	1.61
39	BF	71	G	C5-C4	-6.82	1.33	1.38
85	AA	244	G	N7-C5	-6.82	1.35	1.39
85	AA	407	G	C1'-N9	-6.82	1.37	1.46
85	AA	896	C	C4'-C3'	-6.82	1.45	1.53
85	AA	993	G	C2'-C1'	-6.82	1.45	1.53
85	AA	1839	G	C2'-C1'	-6.82	1.45	1.53
85	AA	1927	G	N9-C4	-6.82	1.32	1.38
85	AA	1932	C	C4'-C3'	6.82	1.60	1.53
34	BA	48	C	C2'-C1'	-6.82	1.45	1.53
34	BA	706	C	C4'-O4'	-6.82	1.36	1.45
34	BA	1532	G	O3'-P	-6.82	1.52	1.61
35	BB	1077	C	O3'-P	-6.82	1.52	1.61
35	BB	1407	U	C4'-O4'	-6.82	1.36	1.45
35	BB	1540	U	C3'-C2'	-6.82	1.45	1.52
34	BA	96	G	C3'-C2'	-6.82	1.45	1.52
34	BA	607	C	P-O5'	-6.82	1.52	1.59
34	BA	888	G	N1-C2	-6.82	1.32	1.37
34	BA	1681	U	N3-C4	-6.82	1.32	1.38
35	BB	1485	G	O3'-P	-6.82	1.52	1.61
38	BE	166	G	O3'-P	-6.82	1.52	1.61
85	AA	385	A	C3'-C2'	-6.82	1.45	1.52
34	BA	740	A	C5-C6	6.82	1.47	1.41
34	BA	1039	G	C5-C4	-6.82	1.33	1.38
34	BA	1613	G	C5-C6	-6.82	1.35	1.42
34	BA	1719	G	C2-N2	-6.82	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	651	G	C6-N1	-6.82	1.34	1.39
85	AA	428	G	C1'-N9	-6.82	1.37	1.46
34	BA	442	G	O3'-P	-6.82	1.52	1.61
34	BA	909	G	P-O5'	-6.82	1.52	1.59
34	BA	1470	G	C1'-N9	-6.82	1.37	1.46
35	BB	1443	C	C4'-C3'	-6.82	1.45	1.53
40	BG	57	A	C6-N1	6.82	1.40	1.35
85	AA	1266	C	C2'-C1'	-6.82	1.45	1.53
34	BA	793	A	C8-N7	-6.82	1.26	1.31
34	BA	1461	A	N7-C5	-6.82	1.35	1.39
34	BA	1477	C	C2'-C1'	-6.82	1.45	1.53
35	BB	439	G	P-O5'	-6.82	1.52	1.59
35	BB	1207	C	C2'-C1'	-6.82	1.45	1.53
38	BE	194	A	C1'-N9	-6.82	1.37	1.46
40	BG	5	G	C6-N1	-6.82	1.34	1.39
40	BG	68	U	C2'-C1'	-6.82	1.45	1.53
85	AA	366	A	C4'-C3'	-6.82	1.45	1.53
85	AA	419	A	C8-N7	-6.82	1.26	1.31
85	AA	848	C	P-O5'	-6.82	1.52	1.59
34	BA	57	A	C8-N7	-6.81	1.26	1.31
34	BA	1410	C	C2'-C1'	-6.81	1.45	1.53
35	BB	431	U	C3'-C2'	-6.81	1.45	1.52
35	BB	486	G	C6-N1	-6.81	1.34	1.39
35	BB	1334	C	N1-C6	-6.81	1.33	1.37
40	BG	15	G	N3-C4	-6.81	1.30	1.35
41	BH	68	G	C2'-C1'	-6.81	1.45	1.53
85	AA	1904	C	N1-C2	-6.81	1.33	1.40
34	BA	395	G	O3'-P	-6.81	1.52	1.61
34	BA	796	G	C5-C6	-6.81	1.35	1.42
35	BB	468	U	C2-N3	-6.81	1.32	1.37
35	BB	784	C	O3'-P	-6.81	1.52	1.61
38	BE	40	C	C4'-C3'	-6.81	1.45	1.53
40	BG	156	G	O3'-P	-6.81	1.52	1.61
85	AA	400	G	O3'-P	-6.81	1.52	1.61
85	AA	743	C	C3'-C2'	-6.81	1.45	1.52
85	AA	745	C	N1-C6	-6.81	1.33	1.37
85	AA	1268	C	C4'-C3'	-6.81	1.45	1.53
85	AA	1464	G	C2'-C1'	-6.81	1.45	1.53
85	AA	1927	G	C2-N2	-6.81	1.27	1.34
85	AA	2122	A	P-O5'	-6.81	1.52	1.59
34	BA	409	A	N3-C4	-6.81	1.30	1.34
35	BB	535	U	C3'-C2'	-6.81	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	4	U	C2'-C1'	-6.81	1.45	1.53
37	BD	41	G	C2'-C1'	-6.81	1.45	1.53
39	BF	12	U	C5'-C4'	-6.81	1.43	1.51
34	BA	911	G	C2'-C1'	-6.81	1.45	1.53
34	BA	1399	A	P-O5'	-6.81	1.52	1.59
35	BB	130	G	C6-N1	-6.81	1.34	1.39
35	BB	496	C	P-O5'	-6.81	1.52	1.59
35	BB	813	C	C3'-C2'	-6.81	1.45	1.52
35	BB	1137	G	N1-C2	-6.81	1.32	1.37
34	BA	202	A	C2'-C1'	-6.81	1.45	1.53
34	BA	253	U	C4'-C3'	-6.81	1.45	1.53
34	BA	706	C	O3'-P	-6.81	1.52	1.61
34	BA	796	G	O3'-P	-6.81	1.52	1.61
35	BB	54	U	N1-C2	-6.81	1.32	1.38
35	BB	1427	A	C2'-C1'	-6.81	1.45	1.53
38	BE	193	A	C8-N7	-6.81	1.26	1.31
39	BF	45	G	P-O5'	-6.81	1.52	1.59
40	BG	6	A	C5-C4	-6.81	1.33	1.38
85	AA	93	G	C2-N2	-6.81	1.27	1.34
34	BA	740	A	C6-N1	6.81	1.40	1.35
34	BA	1280	A	C5-C4	-6.81	1.33	1.38
34	BA	1578	A	C3'-C2'	-6.81	1.45	1.52
35	BB	450	A	N7-C5	-6.81	1.35	1.39
35	BB	661	G	C3'-C2'	-6.81	1.45	1.52
36	BC	45	C	C3'-C2'	-6.81	1.45	1.52
36	BC	147	G	C2-N2	-6.81	1.27	1.34
85	AA	1524	A	N7-C5	-6.81	1.35	1.39
34	BA	1224	A	C1'-N9	-6.80	1.37	1.46
35	BB	702	G	N7-C5	-6.80	1.35	1.39
85	AA	413	G	C3'-C2'	-6.80	1.45	1.52
85	AA	791	C	O3'-P	-6.80	1.52	1.61
85	AA	1508	A	O3'-P	-6.80	1.52	1.61
85	AA	1550	C	O3'-P	-6.80	1.52	1.61
34	BA	1551	G	C6-N1	-6.80	1.34	1.39
34	BA	1652	G	O3'-P	-6.80	1.52	1.61
35	BB	1239	A	C2'-C1'	-6.80	1.45	1.53
35	BB	1284	U	C2'-C1'	-6.80	1.45	1.53
85	AA	2087	C	C3'-C2'	-6.80	1.45	1.52
34	BA	7	U	O3'-P	-6.80	1.52	1.61
34	BA	469	C	P-O5'	-6.80	1.52	1.59
34	BA	596	G	C6-N1	-6.80	1.34	1.39
34	BA	1544	G	C6-N1	-6.80	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1830	A	N7-C5	-6.80	1.35	1.39
35	BB	634	A	C3'-C2'	-6.80	1.45	1.52
35	BB	1181	A	C2'-C1'	-6.80	1.45	1.53
37	BD	99	G	N9-C8	-6.80	1.33	1.37
41	BH	1	U	C2'-C1'	-6.80	1.45	1.53
41	BH	128	G	C8-N7	-6.80	1.26	1.30
85	AA	1868	G	N9-C4	-6.80	1.32	1.38
85	AA	1978	G	C5-C6	-6.80	1.35	1.42
85	AA	2145	G	C6-N1	-6.80	1.34	1.39
34	BA	417	A	C5-C4	-6.80	1.33	1.38
34	BA	810	A	C2'-C1'	-6.80	1.45	1.53
34	BA	1023	G	C5-C6	-6.80	1.35	1.42
34	BA	1170	A	C1'-N9	-6.80	1.37	1.46
34	BA	1470	G	C2'-C1'	-6.80	1.45	1.53
34	BA	1804	A	C2'-C1'	-6.80	1.45	1.53
35	BB	1404	A	C5-C6	-6.80	1.34	1.41
39	BF	48	G	C5-C4	-6.80	1.33	1.38
85	AA	189	G	C6-N1	-6.80	1.34	1.39
85	AA	1198	U	C2-N3	-6.80	1.32	1.37
34	BA	418	G	N3-C4	-6.80	1.30	1.35
34	BA	1221	A	C3'-C2'	-6.80	1.45	1.52
34	BA	1641	G	C1'-N9	-6.80	1.37	1.46
34	BA	1816	G	C6-N1	-6.80	1.34	1.39
35	BB	787	A	C4'-O4'	-6.80	1.36	1.45
35	BB	1342	C	C3'-C2'	-6.80	1.45	1.52
38	BE	39	U	O3'-P	-6.80	1.52	1.61
41	BH	19	G	N1-C2	-6.80	1.32	1.37
85	AA	1510	A	P-O5'	-6.80	1.52	1.59
34	BA	220	U	C2-N3	-6.80	1.32	1.37
34	BA	541	C	O3'-P	-6.80	1.52	1.61
34	BA	1522	G	O3'-P	-6.80	1.52	1.61
35	BB	621	C	O3'-P	-6.80	1.52	1.61
36	BC	107	C	O3'-P	-6.80	1.52	1.61
85	AA	1200	A	P-O5'	-6.80	1.52	1.59
85	AA	1471	G	C8-N7	-6.80	1.26	1.30
36	BC	68	A	N3-C4	-6.79	1.30	1.34
85	AA	1706	A	P-O5'	-6.79	1.52	1.59
85	AA	1734	A	C4'-C3'	6.79	1.60	1.53
35	BB	1159	U	O4'-C1'	-6.79	1.32	1.41
36	BC	19	A	C5-C4	-6.79	1.33	1.38
36	BC	147	G	N7-C5	-6.79	1.35	1.39
37	BD	70	C	C3'-C2'	-6.79	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	60	C	N3-C4	-6.79	1.29	1.33
39	BF	18	U	P-O5'	-6.79	1.52	1.59
85	AA	167	A	P-O5'	-6.79	1.52	1.59
85	AA	521	A	O3'-P	-6.79	1.52	1.61
85	AA	698	G	N7-C5	-6.79	1.35	1.39
85	AA	907	G	O3'-P	-6.79	1.52	1.61
85	AA	1200	A	N7-C5	-6.79	1.35	1.39
85	AA	1479	U	C2'-C1'	-6.79	1.45	1.53
85	AA	1513	U	P-O5'	-6.79	1.52	1.59
85	AA	1706	A	N9-C4	-6.79	1.33	1.37
34	BA	195	G	N7-C5	-6.79	1.35	1.39
34	BA	815	C	C3'-C2'	-6.79	1.45	1.52
34	BA	943	G	N9-C4	-6.79	1.32	1.38
34	BA	991	U	N3-C4	-6.79	1.32	1.38
34	BA	1024	A	N7-C5	-6.79	1.35	1.39
34	BA	1278	A	N7-C5	-6.79	1.35	1.39
35	BB	1153	G	C6-N1	-6.79	1.34	1.39
35	BB	1406	C	C4'-C3'	-6.79	1.45	1.53
38	BE	24	G	O3'-P	-6.79	1.52	1.61
57	BX	82	PHE	CA-CB	6.79	1.68	1.53
85	AA	83	U	O3'-P	-6.79	1.53	1.61
85	AA	280	U	C2-N3	-6.79	1.32	1.37
85	AA	534	A	N1-C2	-6.79	1.28	1.34
85	AA	676	U	O3'-P	-6.79	1.53	1.61
85	AA	1509	A	C6-N1	-6.79	1.30	1.35
35	BB	399	A	C3'-C2'	-6.79	1.45	1.52
35	BB	1055	G	P-O5'	-6.79	1.52	1.59
40	BG	10	U	C2-N3	-6.79	1.32	1.37
85	AA	670	C	C2'-C1'	-6.79	1.45	1.53
85	AA	1294	U	P-O5'	-6.79	1.52	1.59
85	AA	2076	C	C3'-C2'	-6.79	1.45	1.52
34	BA	104	A	C8-N7	-6.79	1.26	1.31
34	BA	313	C	C2-N3	-6.79	1.30	1.35
34	BA	600	G	C2-N2	-6.79	1.27	1.34
34	BA	1271	C	C2'-C1'	-6.79	1.45	1.53
34	BA	1526	C	C3'-C2'	-6.79	1.45	1.52
85	AA	424	A	C6-N1	-6.79	1.30	1.35
85	AA	466	A	O3'-P	-6.79	1.53	1.61
85	AA	630	A	N7-C5	-6.79	1.35	1.39
85	AA	1133	C	C4'-C3'	-6.79	1.45	1.53
85	AA	1295	G	C3'-C2'	-6.79	1.45	1.52
34	BA	333	A	C5-C6	-6.79	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	373	G	C3'-C2'	-6.79	1.45	1.52
34	BA	523	A	O4'-C1'	-6.79	1.32	1.41
35	BB	1293	C	C3'-C2'	-6.79	1.45	1.52
85	AA	629	A	C1'-N9	-6.79	1.37	1.46
85	AA	2128	G	N1-C2	-6.79	1.32	1.37
34	BA	14	G	C5-C4	-6.79	1.33	1.38
34	BA	48	C	C3'-C2'	-6.79	1.45	1.52
34	BA	1482	A	C5-C4	-6.79	1.33	1.38
34	BA	1560	U	C1'-N1	-6.79	1.37	1.46
34	BA	1665	G	C6-N1	-6.79	1.34	1.39
35	BB	397	C	N3-C4	-6.79	1.29	1.33
35	BB	419	G	C2'-C1'	-6.79	1.45	1.53
35	BB	1103	A	P-O5'	-6.79	1.52	1.59
85	AA	384	C	C2-N3	-6.79	1.30	1.35
85	AA	444	U	N1-C2	-6.79	1.32	1.38
85	AA	766	G	C2'-C1'	-6.79	1.45	1.53
85	AA	807	A	O3'-P	-6.79	1.53	1.61
85	AA	840	A	P-O5'	-6.79	1.52	1.59
85	AA	1101	C	C2'-C1'	-6.79	1.45	1.53
85	AA	2076	C	P-O5'	-6.79	1.52	1.59
85	AA	2189	U	O3'-P	-6.79	1.53	1.61
34	BA	648	C	P-O5'	-6.78	1.52	1.59
34	BA	941	G	C3'-C2'	-6.78	1.45	1.52
34	BA	1613	G	C1'-N9	-6.78	1.37	1.46
35	BB	374	A	N9-C8	-6.78	1.32	1.37
35	BB	1084	A	P-O5'	-6.78	1.52	1.59
35	BB	1243	A	C5-C4	-6.78	1.34	1.38
35	BB	1517	G	C5'-C4'	6.78	1.59	1.51
38	BE	123	A	C5-C6	-6.78	1.34	1.41
40	BG	19	C	C2-N3	-6.78	1.30	1.35
40	BG	71	C	C4-N4	-6.78	1.27	1.33
85	AA	750	A	C5-C4	-6.78	1.34	1.38
85	AA	1295	G	C2'-C1'	-6.78	1.45	1.53
85	AA	2022	A	O3'-P	-6.78	1.53	1.61
85	AA	2082	C	C4'-O4'	-6.78	1.36	1.45
34	BA	1544	G	N9-C8	-6.78	1.33	1.37
34	BA	1804	A	N9-C8	-6.78	1.32	1.37
35	BB	1405	G	C2-N2	-6.78	1.27	1.34
36	BC	75	G	N7-C5	-6.78	1.35	1.39
37	BD	91	U	O3'-P	-6.78	1.53	1.61
41	BH	20	A	C1'-N9	-6.78	1.37	1.46
85	AA	453	G	N9-C4	6.78	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	142	A	N7-C5	-6.78	1.35	1.39
34	BA	1334	G	C6-N1	-6.78	1.34	1.39
34	BA	1682	A	N3-C4	-6.78	1.30	1.34
35	BB	677	U	N1-C2	-6.78	1.32	1.38
35	BB	736	G	P-O5'	-6.78	1.52	1.59
36	BC	75	G	N1-C2	-6.78	1.32	1.37
38	BE	12	A	C2'-C1'	-6.78	1.45	1.53
85	AA	119	G	C2-N3	-6.78	1.27	1.32
85	AA	365	G	N9-C4	-6.78	1.32	1.38
85	AA	368	C	C2-N3	-6.78	1.30	1.35
85	AA	507	C	C3'-C2'	-6.78	1.45	1.52
85	AA	1654	G	C2'-C1'	-6.78	1.45	1.53
85	AA	1863	A	P-O5'	-6.78	1.52	1.59
35	BB	1461	C	O3'-P	-6.78	1.53	1.61
85	AA	21	U	C4'-C3'	-6.78	1.45	1.53
85	AA	720	A	C2'-C1'	-6.78	1.45	1.53
85	AA	1450	U	C4-O4	-6.78	1.18	1.23
85	AA	2165	C	P-O5'	-6.78	1.52	1.59
34	BA	275	C	C2'-C1'	-6.78	1.45	1.53
34	BA	341	U	C1'-N1	-6.78	1.37	1.46
34	BA	398	G	N3-C4	-6.78	1.30	1.35
34	BA	410	G	O3'-P	-6.78	1.53	1.61
34	BA	1225	A	C3'-C2'	-6.78	1.45	1.52
35	BB	113	C	C2'-C1'	-6.78	1.45	1.53
35	BB	118	A	N7-C5	-6.78	1.35	1.39
35	BB	1271	A	N7-C5	-6.78	1.35	1.39
39	BF	11	C	O5'-C5'	6.78	1.55	1.44
41	BH	31	A	C5-C4	-6.78	1.34	1.38
85	AA	255	A	C2'-C1'	-6.78	1.45	1.53
34	BA	12	G	C2'-C1'	-6.78	1.45	1.53
34	BA	182	U	C2-N3	-6.78	1.33	1.37
34	BA	1067	G	N9-C8	-6.78	1.33	1.37
34	BA	1592	U	C4'-C3'	-6.78	1.45	1.53
35	BB	29	C	C1'-N1	-6.78	1.37	1.46
35	BB	1445	A	C3'-C2'	-6.78	1.45	1.52
38	BE	94	U	C1'-N1	-6.78	1.37	1.46
40	BG	151	A	C1'-N9	-6.78	1.37	1.46
85	AA	1365	U	O3'-P	-6.78	1.53	1.61
85	AA	1869	U	P-O5'	-6.78	1.52	1.59
34	BA	932	G	C5-C6	-6.77	1.35	1.42
34	BA	944	G	C5-C4	-6.77	1.33	1.38
34	BA	1695	G	C4'-C3'	-6.77	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	695	U	O3'-P	-6.77	1.53	1.61
35	BB	839	G	N3-C4	-6.77	1.30	1.35
35	BB	1488	G	O3'-P	-6.77	1.53	1.61
39	BF	27	G	N9-C4	-6.77	1.32	1.38
41	BH	123	G	N9-C4	-6.77	1.32	1.38
85	AA	139	G	O3'-P	-6.77	1.53	1.61
85	AA	160	A	O3'-P	-6.77	1.53	1.61
85	AA	251	A	O3'-P	-6.77	1.53	1.61
85	AA	1453	U	C2-N3	-6.77	1.33	1.37
34	BA	199	U	C2-N3	-6.77	1.33	1.37
34	BA	771	A	C5'-C4'	6.77	1.59	1.51
35	BB	53	C	C2-N3	-6.77	1.30	1.35
35	BB	1358	A	C2'-C1'	-6.77	1.46	1.53
40	BG	182	G	C5-C6	-6.77	1.35	1.42
85	AA	119	G	O3'-P	-6.77	1.53	1.61
85	AA	472	A	N9-C4	-6.77	1.33	1.37
85	AA	543	A	C3'-C2'	-6.77	1.45	1.52
85	AA	2191	C	C3'-C2'	-6.77	1.45	1.52
34	BA	619	U	C2-N3	-6.77	1.33	1.37
34	BA	690	G	P-O5'	-6.77	1.52	1.59
34	BA	725	C	O3'-P	-6.77	1.53	1.61
35	BB	1056	A	O3'-P	-6.77	1.53	1.61
36	BC	41	A	C5-C6	-6.77	1.34	1.41
38	BE	148	C	C5'-C4'	-6.77	1.43	1.51
41	BH	47	G	C1'-N9	-6.77	1.37	1.46
85	AA	686	U	C5'-C4'	-6.77	1.43	1.51
85	AA	1789	C	O3'-P	-6.77	1.53	1.61
34	BA	303	C	P-O5'	-6.77	1.52	1.59
34	BA	523	A	C4'-O4'	-6.77	1.36	1.45
34	BA	530	A	P-O5'	-6.77	1.52	1.59
34	BA	602	G	N9-C4	-6.77	1.32	1.38
34	BA	698	U	N1-C2	-6.77	1.32	1.38
34	BA	712	C	C2'-C1'	-6.77	1.46	1.53
34	BA	768	G	C1'-N9	-6.77	1.37	1.46
34	BA	1596	C	C2'-C1'	-6.77	1.46	1.53
34	BA	1647	G	N7-C5	-6.77	1.35	1.39
36	BC	129	C	C3'-C2'	-6.77	1.45	1.52
41	BH	21	G	C5-C4	-6.77	1.33	1.38
85	AA	701	C	C3'-C2'	-6.77	1.45	1.52
85	AA	748	C	O3'-P	-6.77	1.53	1.61
85	AA	1122	U	C3'-C2'	-6.77	1.45	1.52
34	BA	255	G	C5-C4	-6.77	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	890	G	C5-C4	-6.77	1.33	1.38
34	BA	900	A	N9-C8	-6.77	1.32	1.37
34	BA	1208	U	P-O5'	-6.77	1.52	1.59
34	BA	1284	G	P-O5'	-6.77	1.52	1.59
34	BA	1469	G	N1-C2	-6.77	1.32	1.37
35	BB	68	G	C5-C4	-6.77	1.33	1.38
35	BB	637	G	C2-N2	-6.77	1.27	1.34
35	BB	1310	C	C3'-C2'	-6.77	1.45	1.52
35	BB	1436	U	O3'-P	-6.77	1.53	1.61
35	BB	1445	A	C8-N7	-6.77	1.26	1.31
37	BD	87	G	O3'-P	-6.77	1.53	1.61
38	BE	4	A	N9-C4	-6.77	1.33	1.37
39	BF	18	U	N1-C6	-6.77	1.31	1.38
40	BG	50	G	C2'-C1'	-6.77	1.46	1.53
85	AA	505	U	C5'-C4'	-6.77	1.43	1.51
85	AA	648	G	P-O5'	-6.77	1.52	1.59
85	AA	895	C	P-O5'	-6.77	1.52	1.59
34	BA	313	C	C1'-N1	-6.77	1.37	1.46
34	BA	1833	G	N1-C2	-6.77	1.32	1.37
35	BB	780	U	P-O5'	-6.77	1.52	1.59
40	BG	137	G	C6-N1	-6.77	1.34	1.39
85	AA	2244	G	O3'-P	-6.77	1.53	1.61
34	BA	109	A	C2'-C1'	-6.76	1.46	1.53
34	BA	697	A	P-O5'	-6.76	1.52	1.59
34	BA	1516	G	O3'-P	-6.76	1.53	1.61
34	BA	1640	G	P-O5'	-6.76	1.52	1.59
35	BB	75	A	C2'-C1'	-6.76	1.46	1.53
35	BB	689	C	P-O5'	-6.76	1.52	1.59
35	BB	843	G	C3'-C2'	-6.76	1.45	1.52
38	BE	124	G	C6-N1	-6.76	1.34	1.39
40	BG	113	G	P-O5'	-6.76	1.52	1.59
85	AA	404	A	P-O5'	-6.76	1.52	1.59
34	BA	1074	C	P-O5'	-6.76	1.52	1.59
34	BA	1147	C	C4'-C3'	-6.76	1.45	1.53
34	BA	1561	C	O4'-C1'	-6.76	1.32	1.41
34	BA	1565	U	C2'-C1'	-6.76	1.46	1.53
35	BB	1048	A	C5-C4	-6.76	1.34	1.38
35	BB	1457	A	C4'-O4'	-6.76	1.36	1.45
85	AA	859	G	C2'-C1'	-6.76	1.46	1.53
85	AA	1241	A	C2'-C1'	-6.76	1.46	1.53
34	BA	236	A	C2'-C1'	-6.76	1.46	1.53
34	BA	736	G	C1'-N9	-6.76	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1573	C	C2'-C1'	-6.76	1.46	1.53
34	BA	1687	A	C3'-C2'	-6.76	1.45	1.52
34	BA	1728	G	C6-N1	-6.76	1.34	1.39
35	BB	268	G	C2'-C1'	-6.76	1.46	1.53
35	BB	428	G	O3'-P	-6.76	1.53	1.61
35	BB	811	C	C3'-C2'	-6.76	1.45	1.52
35	BB	1174	C	O3'-P	-6.76	1.53	1.61
37	BD	48	G	O4'-C1'	-6.76	1.32	1.41
38	BE	69	C	P-O5'	-6.76	1.52	1.59
38	BE	127	G	C5-C4	-6.76	1.33	1.38
34	BA	1086	A	N7-C5	-6.76	1.35	1.39
35	BB	96	A	C2'-C1'	-6.76	1.46	1.53
35	BB	127	U	O3'-P	-6.76	1.53	1.61
35	BB	996	G	C5-C4	-6.76	1.33	1.38
35	BB	1138	A	C3'-C2'	-6.76	1.45	1.52
35	BB	1157	G	C3'-C2'	-6.76	1.45	1.52
36	BC	156	A	C2'-C1'	-6.76	1.46	1.53
85	AA	24	U	C2-N3	-6.76	1.33	1.37
85	AA	189	G	C5-C4	-6.76	1.33	1.38
85	AA	1460	G	P-O5'	-6.76	1.52	1.59
85	AA	1655	G	C1'-N9	-6.76	1.37	1.46
85	AA	1708	A	P-O5'	-6.76	1.52	1.59
34	BA	903	C	O3'-P	-6.76	1.53	1.61
34	BA	1736	A	C8-N7	-6.76	1.26	1.31
35	BB	540	G	O3'-P	-6.76	1.53	1.61
38	BE	62	C	O3'-P	-6.76	1.53	1.61
85	AA	866	U	C4'-C3'	-6.76	1.45	1.53
35	BB	387	G	C8-N7	-6.76	1.26	1.30
35	BB	577	U	O3'-P	-6.76	1.53	1.61
35	BB	578	G	C2'-C1'	-6.76	1.46	1.53
40	BG	90	G	N1-C2	-6.76	1.32	1.37
41	BH	13	C	C3'-C2'	-6.76	1.45	1.52
85	AA	2045	U	C3'-C2'	-6.76	1.45	1.52
34	BA	858	C	O3'-P	-6.75	1.53	1.61
34	BA	1163	G	C1'-N9	-6.75	1.37	1.46
35	BB	544	C	P-O5'	-6.75	1.52	1.59
39	BF	7	G	C2'-C1'	-6.75	1.46	1.53
85	AA	532	G	N7-C5	-6.75	1.35	1.39
85	AA	667	A	C1'-N9	-6.75	1.37	1.46
85	AA	772	C	O3'-P	-6.75	1.53	1.61
85	AA	2193	A	C8-N7	-6.75	1.26	1.31
34	BA	231	U	C5'-C4'	6.75	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	395	G	C5-C4	-6.75	1.33	1.38
34	BA	1691	G	N7-C5	-6.75	1.35	1.39
34	BA	1728	G	C2-N2	-6.75	1.27	1.34
35	BB	770	G	C2'-C1'	-6.75	1.46	1.53
35	BB	1434	G	C2'-C1'	-6.75	1.46	1.53
36	BC	19	A	P-O5'	-6.75	1.52	1.59
36	BC	34	U	O3'-P	-6.75	1.53	1.61
85	AA	20	G	C5-C4	-6.75	1.33	1.38
85	AA	116	G	C3'-C2'	-6.75	1.45	1.52
85	AA	430	G	C1'-N9	-6.75	1.37	1.46
85	AA	631	G	C6-N1	-6.75	1.34	1.39
34	BA	146	G	O3'-P	-6.75	1.53	1.61
34	BA	406	G	N9-C8	-6.75	1.33	1.37
34	BA	468	A	C4'-C3'	6.75	1.60	1.53
34	BA	691	A	C1'-N9	-6.75	1.37	1.46
34	BA	1266	A	C4'-O4'	-6.75	1.36	1.45
34	BA	1396	A	N7-C5	-6.75	1.35	1.39
34	BA	1632	G	C6-N1	-6.75	1.34	1.39
35	BB	1375	G	C2'-C1'	-6.75	1.46	1.53
37	BD	95	G	C3'-C2'	-6.75	1.45	1.52
38	BE	195	G	N9-C8	-6.75	1.33	1.37
85	AA	59	C	O3'-P	-6.75	1.53	1.61
85	AA	492	C	C2-N3	-6.75	1.30	1.35
85	AA	918	U	C2-N3	-6.75	1.33	1.37
85	AA	926	C	C1'-N1	-6.75	1.37	1.46
85	AA	1209	U	C4-C5	-6.75	1.37	1.43
85	AA	1502	A	N9-C8	-6.75	1.32	1.37
34	BA	11	U	C2-N3	-6.75	1.33	1.37
34	BA	598	G	N9-C4	-6.75	1.32	1.38
34	BA	631	G	C2-N3	-6.75	1.27	1.32
34	BA	760	G	O3'-P	-6.75	1.53	1.61
34	BA	1657	A	C5-C4	-6.75	1.34	1.38
34	BA	1827	C	O3'-P	-6.75	1.53	1.61
35	BB	1070	G	O3'-P	-6.75	1.53	1.61
85	AA	324	U	C3'-C2'	-6.75	1.45	1.52
85	AA	543	A	C5-C4	-6.75	1.34	1.38
85	AA	1462	A	C1'-N9	-6.75	1.37	1.46
34	BA	1577	U	C3'-C2'	-6.75	1.45	1.52
35	BB	112	G	O3'-P	-6.75	1.53	1.61
36	BC	82	C	P-O5'	-6.75	1.53	1.59
85	AA	99	U	C3'-C2'	-6.75	1.45	1.52
85	AA	1144	G	N3-C4	-6.75	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1514	A	P-O5'	-6.75	1.53	1.59
85	AA	1570	A	O3'-P	-6.75	1.53	1.61
85	AA	1701	G	C3'-C2'	-6.75	1.45	1.52
85	AA	2133	A	C1'-N9	-6.75	1.37	1.46
34	BA	397	A	N9-C4	-6.75	1.33	1.37
34	BA	964	U	N1-C2	-6.75	1.32	1.38
35	BB	490	G	C5-C4	-6.75	1.33	1.38
35	BB	1421	C	N3-C4	-6.75	1.29	1.33
39	BF	42	G	C2'-C1'	-6.75	1.46	1.53
41	BH	128	G	N9-C8	-6.75	1.33	1.37
34	BA	225	A	O3'-P	-6.75	1.53	1.61
34	BA	543	A	C3'-C2'	-6.75	1.45	1.52
34	BA	942	G	C3'-C2'	-6.75	1.45	1.52
34	BA	1073	G	C2-N2	-6.75	1.27	1.34
35	BB	1022	C	C2'-C1'	-6.75	1.46	1.53
40	BG	110	U	C2-N3	-6.75	1.33	1.37
85	AA	309	G	C3'-C2'	-6.75	1.45	1.52
85	AA	876	U	C2'-C1'	-6.75	1.46	1.53
34	BA	1203	G	C5-C4	-6.74	1.33	1.38
34	BA	1668	C	C3'-C2'	-6.74	1.45	1.52
34	BA	1684	A	O3'-P	-6.74	1.53	1.61
35	BB	469	G	C1'-N9	-6.74	1.37	1.46
35	BB	558	U	C2-N3	-6.74	1.33	1.37
35	BB	687	C	C3'-C2'	-6.74	1.45	1.52
35	BB	1158	C	P-O5'	-6.74	1.53	1.59
35	BB	1322	A	P-O5'	-6.74	1.53	1.59
36	BC	146	U	P-O5'	-6.74	1.53	1.59
85	AA	1903	G	C2'-C1'	-6.74	1.46	1.53
35	BB	692	G	O4'-C1'	-6.74	1.32	1.41
36	BC	119	G	C6-N1	-6.74	1.34	1.39
85	AA	575	G	P-O5'	-6.74	1.53	1.59
85	AA	720	A	C3'-C2'	-6.74	1.45	1.52
85	AA	1120	G	C3'-C2'	-6.74	1.45	1.52
34	BA	427	G	C5-C4	-6.74	1.33	1.38
34	BA	821	G	C4'-C3'	6.74	1.60	1.53
34	BA	990	G	C6-N1	-6.74	1.34	1.39
34	BA	1279	U	C3'-C2'	-6.74	1.45	1.52
34	BA	1309	U	C5'-C4'	6.74	1.59	1.51
35	BB	454	U	O3'-P	-6.74	1.53	1.61
35	BB	1084	A	C5-C4	-6.74	1.34	1.38
85	AA	1126	G	O3'-P	-6.74	1.53	1.61
85	AA	1221	G	C2-N2	-6.74	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1491	G	N3-C4	-6.74	1.30	1.35
34	BA	49	A	C5-C4	-6.74	1.34	1.38
34	BA	206	C	P-O5'	6.74	1.66	1.59
35	BB	430	A	O3'-P	-6.74	1.53	1.61
35	BB	559	U	C2-N3	-6.74	1.33	1.37
35	BB	1201	G	O3'-P	6.74	1.69	1.61
36	BC	97	U	C2-N3	-6.74	1.33	1.37
85	AA	980	U	P-O5'	-6.74	1.53	1.59
34	BA	23	A	C6-N6	-6.74	1.28	1.33
35	BB	648	G	P-O5'	-6.74	1.53	1.59
35	BB	1519	U	C3'-C2'	-6.74	1.45	1.52
38	BE	181	U	P-O5'	-6.74	1.53	1.59
85	AA	26	A	O3'-P	-6.74	1.53	1.61
85	AA	979	U	P-O5'	-6.74	1.53	1.59
34	BA	479	U	C3'-C2'	-6.74	1.45	1.52
34	BA	1473	A	C1'-N9	-6.74	1.37	1.46
35	BB	508	U	C2'-C1'	-6.74	1.46	1.53
35	BB	556	U	C2'-C1'	-6.74	1.46	1.53
35	BB	1239	A	O3'-P	-6.74	1.53	1.61
35	BB	1263	A	C5-C4	-6.74	1.34	1.38
35	BB	1410	G	C2'-C1'	-6.74	1.46	1.53
38	BE	30	C	O3'-P	-6.74	1.53	1.61
85	AA	989	U	C3'-C2'	-6.74	1.45	1.52
85	AA	1125	G	C6-N1	-6.74	1.34	1.39
34	BA	248	G	N9-C4	-6.73	1.32	1.38
35	BB	1356	G	N7-C5	-6.73	1.35	1.39
85	AA	2036	A	N9-C8	-6.73	1.32	1.37
34	BA	86	A	C5-C4	-6.73	1.34	1.38
34	BA	94	G	C4'-C3'	-6.73	1.45	1.53
34	BA	146	G	N3-C4	-6.73	1.30	1.35
34	BA	187	G	O3'-P	-6.73	1.53	1.61
34	BA	491	U	N1-C2	-6.73	1.32	1.38
34	BA	916	A	N9-C4	-6.73	1.33	1.37
35	BB	486	G	P-O5'	-6.73	1.53	1.59
35	BB	1110	G	P-O5'	-6.73	1.53	1.59
35	BB	1113	C	O3'-P	-6.73	1.53	1.61
35	BB	1332	G	C6-N1	-6.73	1.34	1.39
85	AA	1896	G	O3'-P	-6.73	1.53	1.61
34	BA	15	G	O3'-P	-6.73	1.53	1.61
34	BA	247	U	P-O5'	-6.73	1.53	1.59
34	BA	339	G	C2-N2	-6.73	1.27	1.34
34	BA	908	G	C6-N1	-6.73	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	919	A	C6-N1	-6.73	1.30	1.35
34	BA	1165	A	C3'-C2'	-6.73	1.45	1.52
34	BA	1847	G	C8-N7	-6.73	1.26	1.30
35	BB	691	A	C2'-C1'	-6.73	1.46	1.53
35	BB	1068	G	O3'-P	-6.73	1.53	1.61
40	BG	138	C	C5'-C4'	-6.73	1.43	1.51
85	AA	1175	A	C4'-C3'	-6.73	1.45	1.53
85	AA	1291	A	C2'-C1'	-6.73	1.46	1.53
85	AA	1527	G	N9-C4	-6.73	1.32	1.38
34	BA	1650	G	C3'-C2'	-6.73	1.45	1.52
35	BB	1230	A	O4'-C1'	-6.73	1.32	1.41
35	BB	1410	G	O3'-P	-6.73	1.53	1.61
34	BA	166	G	C2'-C1'	-6.73	1.46	1.53
34	BA	325	A	N7-C5	-6.73	1.35	1.39
34	BA	798	G	N3-C4	-6.73	1.30	1.35
34	BA	1702	G	O3'-P	-6.73	1.53	1.61
35	BB	612	A	C2'-C1'	-6.73	1.46	1.53
35	BB	1082	A	N9-C4	-6.73	1.33	1.37
35	BB	1435	G	N7-C5	-6.73	1.35	1.39
36	BC	3	C	C4'-C3'	-6.73	1.45	1.53
37	BD	41	G	O4'-C1'	-6.73	1.32	1.41
40	BG	34	A	C5-C4	-6.73	1.34	1.38
40	BG	76	C	C5'-C4'	-6.73	1.43	1.51
85	AA	385	A	N7-C5	-6.73	1.35	1.39
85	AA	385	A	N3-C4	-6.73	1.30	1.34
85	AA	903	G	P-O5'	-6.73	1.53	1.59
85	AA	1214	C	P-O5'	-6.73	1.53	1.59
85	AA	1476	C	P-O5'	-6.73	1.53	1.59
85	AA	1508	A	N7-C5	-6.73	1.35	1.39
85	AA	2060	G	C5-C4	-6.73	1.33	1.38
34	BA	109	A	O3'-P	-6.73	1.53	1.61
34	BA	600	G	N9-C4	-6.73	1.32	1.38
34	BA	1316	G	O3'-P	-6.73	1.53	1.61
85	AA	867	G	N7-C5	-6.73	1.35	1.39
85	AA	1115	G	C2-N2	-6.73	1.27	1.34
34	BA	126	G	C8-N7	-6.72	1.26	1.30
34	BA	877	U	N3-C4	-6.72	1.32	1.38
34	BA	1310	C	N3-C4	-6.72	1.29	1.33
35	BB	1359	G	C3'-C2'	-6.72	1.45	1.52
35	BB	1451	C	O3'-P	-6.72	1.53	1.61
38	BE	154	A	C4'-C3'	-6.72	1.45	1.53
85	AA	254	G	O3'-P	-6.72	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	584	G	C5-C6	-6.72	1.35	1.42
85	AA	1578	G	C6-N1	-6.72	1.34	1.39
34	BA	349	G	N9-C8	-6.72	1.33	1.37
34	BA	653	U	O3'-P	-6.72	1.53	1.61
34	BA	1735	G	C2'-C1'	-6.72	1.46	1.53
35	BB	366	G	P-O5'	-6.72	1.53	1.59
35	BB	544	C	O3'-P	-6.72	1.53	1.61
35	BB	803	U	O3'-P	-6.72	1.53	1.61
35	BB	1448	U	C2-N3	-6.72	1.33	1.37
36	BC	132	U	C2'-C1'	-6.72	1.46	1.53
85	AA	597	A	C4'-C3'	-6.72	1.45	1.53
85	AA	1480	C	P-O5'	-6.72	1.53	1.59
85	AA	1665	G	O3'-P	-6.72	1.53	1.61
34	BA	382	G	O3'-P	-6.72	1.53	1.61
34	BA	464	U	P-O5'	-6.72	1.53	1.59
34	BA	1535	G	C2'-C1'	-6.72	1.46	1.53
35	BB	1215	U	C2-N3	-6.72	1.33	1.37
35	BB	1399	A	O3'-P	-6.72	1.53	1.61
85	AA	386	G	C2'-C1'	-6.72	1.46	1.53
85	AA	2128	G	C2-N2	-6.72	1.27	1.34
34	BA	180	G	O3'-P	-6.72	1.53	1.61
34	BA	191	G	C6-N1	-6.72	1.34	1.39
34	BA	341	U	C2'-C1'	-6.72	1.46	1.53
34	BA	753	G	C2-N2	-6.72	1.27	1.34
34	BA	1164	C	C2-N3	-6.72	1.30	1.35
34	BA	1165	A	N7-C5	-6.72	1.35	1.39
34	BA	1533	G	N1-C2	-6.72	1.32	1.37
35	BB	418	G	O3'-P	-6.72	1.53	1.61
35	BB	470	C	C1'-N1	-6.72	1.37	1.46
35	BB	984	U	O3'-P	-6.72	1.53	1.61
35	BB	1048	A	C1'-N9	-6.72	1.37	1.46
35	BB	1449	G	C5-C4	-6.72	1.33	1.38
85	AA	159	G	C2-N3	-6.72	1.27	1.32
85	AA	1553	G	C2'-C1'	-6.72	1.46	1.53
34	BA	1262	A	O4'-C1'	-6.72	1.32	1.41
35	BB	494	C	C2-N3	-6.72	1.30	1.35
35	BB	964	G	C5-C4	-6.72	1.33	1.38
85	AA	432	A	N7-C5	-6.72	1.35	1.39
85	AA	2198	G	C2-N2	-6.72	1.27	1.34
34	BA	411	C	P-O5'	-6.72	1.53	1.59
34	BA	752	A	O3'-P	-6.72	1.53	1.61
34	BA	1497	A	P-O5'	-6.72	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	841	U	C2-N3	-6.72	1.33	1.37
35	BB	1302	C	O3'-P	-6.72	1.53	1.61
37	BD	35	C	C3'-C2'	-6.72	1.45	1.52
85	AA	180	A	P-O5'	-6.72	1.53	1.59
85	AA	668	A	C2'-C1'	-6.72	1.46	1.53
34	BA	683	C	C4'-C3'	6.71	1.60	1.53
34	BA	1494	G	C5-C4	-6.71	1.33	1.38
35	BB	362	A	O3'-P	-6.71	1.53	1.61
35	BB	552	C	C3'-C2'	-6.71	1.45	1.52
35	BB	1194	A	C4'-C3'	-6.71	1.45	1.53
35	BB	1394	A	C3'-C2'	-6.71	1.45	1.52
35	BB	1467	A	C2'-C1'	-6.71	1.46	1.53
39	BF	29	U	C2'-C1'	-6.71	1.46	1.53
34	BA	435	U	C2-N3	-6.71	1.33	1.37
34	BA	1073	G	N3-C4	-6.71	1.30	1.35
34	BA	1173	C	C3'-C2'	-6.71	1.45	1.52
34	BA	1222	C	C4'-O4'	-6.71	1.36	1.45
34	BA	1644	A	O3'-P	-6.71	1.53	1.61
35	BB	108	G	N9-C8	-6.71	1.33	1.37
35	BB	1002	G	C2'-C1'	-6.71	1.46	1.53
36	BC	30	U	N3-C4	-6.71	1.32	1.38
85	AA	84	C	O3'-P	-6.71	1.53	1.61
85	AA	1479	U	O3'-P	-6.71	1.53	1.61
85	AA	1688	U	P-O5'	-6.71	1.53	1.59
34	BA	207	A	C5-C4	-6.71	1.34	1.38
34	BA	326	A	N3-C4	-6.71	1.30	1.34
34	BA	330	A	N3-C4	-6.71	1.30	1.34
34	BA	417	A	O4'-C1'	-6.71	1.32	1.41
34	BA	1226	G	C3'-C2'	-6.71	1.45	1.52
35	BB	596	C	C3'-C2'	-6.71	1.45	1.52
35	BB	681	G	O3'-P	-6.71	1.53	1.61
35	BB	707	G	C1'-N9	-6.71	1.37	1.46
35	BB	815	G	C5-C4	-6.71	1.33	1.38
35	BB	1365	G	C1'-N9	-6.71	1.37	1.46
35	BB	1375	G	C2-N2	-6.71	1.27	1.34
85	AA	74	U	C2'-C1'	-6.71	1.46	1.53
85	AA	722	G	C8-N7	-6.71	1.26	1.30
85	AA	1299	A	C3'-C2'	-6.71	1.45	1.52
34	BA	801	U	O3'-P	-6.71	1.53	1.61
34	BA	1086	A	O3'-P	-6.71	1.53	1.61
34	BA	1580	U	P-O5'	-6.71	1.53	1.59
35	BB	119	G	N9-C8	-6.71	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	6	A	N9-C4	-6.71	1.33	1.37
85	AA	173	A	N7-C5	-6.71	1.35	1.39
34	BA	374	U	P-O5'	-6.71	1.53	1.59
34	BA	572	G	C3'-O3'	6.71	1.51	1.42
34	BA	1487	U	N3-C4	-6.71	1.32	1.38
35	BB	337	U	P-O5'	-6.71	1.53	1.59
37	BD	71	G	C2-N2	-6.71	1.27	1.34
41	BH	104	U	C3'-C2'	-6.71	1.45	1.52
85	AA	1302	A	N9-C4	6.71	1.41	1.37
85	AA	1685	G	O3'-P	-6.71	1.53	1.61
85	AA	1714	G	N9-C4	-6.71	1.32	1.38
85	AA	1799	C	C4-C5	-6.71	1.37	1.43
34	BA	454	G	C1'-N9	-6.71	1.37	1.46
34	BA	1414	C	C2'-C1'	-6.71	1.46	1.53
34	BA	1488	C	O3'-P	-6.71	1.53	1.61
34	BA	1570	C	C3'-C2'	-6.71	1.45	1.52
38	BE	104	G	N9-C4	6.71	1.43	1.38
38	BE	110	U	O3'-P	-6.71	1.53	1.61
40	BG	81	G	C5-C4	-6.71	1.33	1.38
41	BH	35	G	N1-C2	-6.71	1.32	1.37
34	BA	240	C	O3'-P	-6.71	1.53	1.61
34	BA	529	A	C5-C6	-6.71	1.35	1.41
34	BA	1568	A	O3'-P	-6.71	1.53	1.61
35	BB	428	G	N3-C4	-6.71	1.30	1.35
35	BB	629	C	C2-N3	-6.71	1.30	1.35
35	BB	747	A	P-O5'	-6.71	1.53	1.59
40	BG	32	U	N1-C2	-6.71	1.32	1.38
85	AA	116	G	C2'-C1'	-6.71	1.46	1.53
85	AA	2172	A	N9-C4	-6.71	1.33	1.37
34	BA	407	A	N3-C4	-6.70	1.30	1.34
34	BA	988	U	O3'-P	-6.70	1.53	1.61
34	BA	1072	U	P-O5'	-6.70	1.53	1.59
34	BA	1246	G	C5-C4	-6.70	1.33	1.38
35	BB	133	G	C5-C4	-6.70	1.33	1.38
35	BB	487	A	C5-C4	-6.70	1.34	1.38
35	BB	1381	U	C2-N3	-6.70	1.33	1.37
35	BB	1488	G	C2'-C1'	-6.70	1.46	1.53
85	AA	367	A	O4'-C1'	-6.70	1.32	1.41
85	AA	677	U	P-O5'	-6.70	1.53	1.59
85	AA	1263	G	N1-C2	-6.70	1.32	1.37
85	AA	2067	A	C4'-C3'	-6.70	1.45	1.53
34	BA	1823	A	O3'-P	-6.70	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	393	A	C3'-C2'	-6.70	1.45	1.52
37	BD	91	U	C2'-C1'	-6.70	1.46	1.53
39	BF	47	C	C3'-C2'	-6.70	1.45	1.52
85	AA	69	C	C1'-N1	-6.70	1.37	1.46
34	BA	223	U	P-O5'	-6.70	1.53	1.59
34	BA	426	A	C4'-C3'	-6.70	1.45	1.53
34	BA	1280	A	C3'-C2'	-6.70	1.45	1.52
34	BA	1844	U	C2'-C1'	-6.70	1.46	1.53
35	BB	155	G	P-O5'	-6.70	1.53	1.59
35	BB	658	G	P-O5'	-6.70	1.53	1.59
35	BB	702	G	O3'-P	-6.70	1.53	1.61
85	AA	312	G	O3'-P	-6.70	1.53	1.61
85	AA	442	G	C1'-N9	-6.70	1.37	1.46
85	AA	443	A	C1'-N9	-6.70	1.37	1.46
85	AA	642	G	C2-N2	-6.70	1.27	1.34
85	AA	1887	G	C2'-C1'	-6.70	1.46	1.53
34	BA	515	U	C2'-C1'	-6.70	1.46	1.53
34	BA	704	G	O3'-P	-6.70	1.53	1.61
35	BB	538	A	N7-C5	-6.70	1.35	1.39
35	BB	542	A	P-O5'	-6.70	1.53	1.59
35	BB	833	G	N9-C8	-6.70	1.33	1.37
35	BB	1128	U	P-O5'	-6.70	1.53	1.59
85	AA	1891	U	O3'-P	-6.70	1.53	1.61
85	AA	2173	A	C3'-C2'	-6.70	1.45	1.52
34	BA	1090	A	C2'-C1'	-6.70	1.46	1.53
34	BA	1257	U	C4'-C3'	-6.70	1.45	1.53
34	BA	1650	G	C2'-C1'	-6.70	1.46	1.53
35	BB	1457	A	O3'-P	-6.70	1.53	1.61
85	AA	316	C	N3-C4	-6.70	1.29	1.33
34	BA	463	A	C2'-C1'	-6.70	1.46	1.53
34	BA	591	G	C1'-N9	-6.70	1.37	1.46
34	BA	819	G	P-O5'	-6.70	1.53	1.59
34	BA	984	U	P-O5'	-6.70	1.53	1.59
34	BA	1685	C	C1'-N1	-6.70	1.37	1.46
34	BA	1799	G	C6-N1	-6.70	1.34	1.39
35	BB	383	U	O3'-P	-6.70	1.53	1.61
35	BB	454	U	C3'-C2'	-6.70	1.45	1.52
35	BB	501	G	C3'-C2'	-6.70	1.45	1.52
35	BB	1015	U	C3'-C2'	-6.70	1.45	1.52
85	AA	318	A	C1'-N9	-6.70	1.37	1.46
34	BA	260	A	C3'-C2'	-6.69	1.45	1.52
36	BC	61	A	P-O5'	-6.69	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	47	U	C1'-N1	-6.69	1.37	1.46
85	AA	2014	G	N3-C4	-6.69	1.30	1.35
34	BA	1039	G	N9-C8	-6.69	1.33	1.37
34	BA	1162	U	N3-C4	-6.69	1.32	1.38
35	BB	1108	G	N1-C2	-6.69	1.32	1.37
35	BB	1359	G	O3'-P	-6.69	1.53	1.61
40	BG	50	G	N9-C8	-6.69	1.33	1.37
85	AA	596	A	O3'-P	-6.69	1.53	1.61
85	AA	2188	C	C4-N4	-6.69	1.27	1.33
85	AA	2217	A	N9-C4	-6.69	1.33	1.37
34	BA	253	U	C3'-C2'	-6.69	1.45	1.52
34	BA	710	A	O3'-P	-6.69	1.53	1.61
34	BA	1583	A	O3'-P	-6.69	1.53	1.61
34	BA	1601	C	C2-N3	-6.69	1.30	1.35
35	BB	1420	U	C4'-C3'	-6.69	1.45	1.53
36	BC	15	G	C1'-N9	-6.69	1.37	1.46
40	BG	55	A	C5-C4	-6.69	1.34	1.38
34	BA	1672	C	N1-C6	-6.69	1.33	1.37
34	BA	1682	A	C1'-N9	-6.69	1.37	1.46
35	BB	441	G	C5-C4	-6.69	1.33	1.38
35	BB	1229	A	C1'-N9	-6.69	1.37	1.46
85	AA	1657	C	C2-N3	-6.69	1.30	1.35
34	BA	1058	C	C3'-C2'	-6.69	1.45	1.52
34	BA	1433	U	C4'-O4'	-6.69	1.36	1.45
35	BB	728	A	C1'-N9	-6.69	1.37	1.46
36	BC	18	G	N7-C5	-6.69	1.35	1.39
38	BE	73	A	C2'-C1'	-6.69	1.46	1.53
85	AA	309	G	O3'-P	-6.69	1.53	1.61
85	AA	1201	A	P-O5'	-6.69	1.53	1.59
85	AA	1263	G	C1'-N9	-6.69	1.37	1.46
85	AA	1670	U	C3'-C2'	-6.69	1.45	1.52
34	BA	334	G	P-O5'	-6.69	1.53	1.59
34	BA	1591	G	C6-N1	-6.69	1.34	1.39
34	BA	1685	C	C4'-C3'	-6.69	1.45	1.53
36	BC	9	G	N3-C4	-6.69	1.30	1.35
36	BC	27	U	N1-C2	-6.69	1.32	1.38
85	AA	435	A	C5-C4	-6.69	1.34	1.38
85	AA	1266	C	O3'-P	-6.69	1.53	1.61
34	BA	291	C	C2-N3	-6.68	1.30	1.35
34	BA	431	A	C4'-C3'	-6.68	1.45	1.53
34	BA	487	A	N1-C2	-6.68	1.28	1.34
34	BA	1183	U	C5'-C4'	6.68	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	380	G	C2-N3	-6.68	1.27	1.32
35	BB	580	A	C2'-C1'	-6.68	1.46	1.53
35	BB	1330	A	O3'-P	-6.68	1.53	1.61
85	AA	405	C	O3'-P	-6.68	1.53	1.61
85	AA	792	A	C6-N6	-6.68	1.28	1.33
85	AA	1460	G	O3'-P	-6.68	1.53	1.61
85	AA	1476	C	C2'-C1'	-6.68	1.46	1.53
85	AA	1629	C	O3'-P	-6.68	1.53	1.61
34	BA	105	U	C3'-C2'	-6.68	1.45	1.52
34	BA	855	C	C2'-C1'	-6.68	1.46	1.53
34	BA	1150	A	C1'-N9	-6.68	1.37	1.46
34	BA	1178	U	C3'-C2'	-6.68	1.45	1.52
35	BB	37	C	C2'-C1'	-6.68	1.46	1.53
35	BB	469	G	P-O5'	-6.68	1.53	1.59
35	BB	828	G	C3'-C2'	-6.68	1.45	1.52
35	BB	1123	A	C1'-N9	-6.68	1.37	1.46
35	BB	1408	G	N9-C4	-6.68	1.32	1.38
40	BG	62	C	C2'-C1'	-6.68	1.46	1.53
40	BG	98	A	C3'-C2'	-6.68	1.45	1.52
40	BG	135	C	N1-C6	-6.68	1.33	1.37
85	AA	102	A	C1'-N9	-6.68	1.37	1.46
85	AA	2136	C	C2-N3	-6.68	1.30	1.35
34	BA	536	C	C2'-C1'	-6.68	1.46	1.53
35	BB	3	C	C4-C5	-6.68	1.37	1.43
35	BB	109	U	C2-N3	-6.68	1.33	1.37
38	BE	50	G	C4'-C3'	-6.68	1.45	1.53
85	AA	76	G	O3'-P	-6.68	1.53	1.61
34	BA	18	G	C5-C4	-6.68	1.33	1.38
34	BA	278	U	O3'-P	-6.68	1.53	1.61
34	BA	1305	A	N7-C5	-6.68	1.35	1.39
34	BA	1431	G	P-O5'	-6.68	1.53	1.59
35	BB	44	C	C4'-C3'	-6.68	1.45	1.53
35	BB	70	A	C5'-C4'	6.68	1.59	1.51
35	BB	680	A	C8-N7	-6.68	1.26	1.31
35	BB	1345	A	N9-C4	-6.68	1.33	1.37
38	BE	26	G	P-O5'	-6.68	1.53	1.59
40	BG	129	G	C2'-C1'	-6.68	1.46	1.53
85	AA	20	G	N3-C4	-6.68	1.30	1.35
85	AA	2205	A	O3'-P	-6.68	1.53	1.61
34	BA	751	A	C2'-C1'	-6.68	1.46	1.53
34	BA	784	C	C3'-C2'	-6.68	1.45	1.52
34	BA	1058	C	P-O5'	-6.68	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	126	C	C2-N3	-6.68	1.30	1.35
35	BB	1113	C	C2'-C1'	-6.68	1.46	1.53
85	AA	176	C	C2'-C1'	-6.68	1.46	1.53
85	AA	1546	G	N9-C4	-6.68	1.32	1.38
85	AA	2139	G	C5-C4	-6.68	1.33	1.38
34	BA	257	G	P-O5'	-6.68	1.53	1.59
34	BA	299	C	C2'-C1'	-6.68	1.46	1.53
34	BA	480	G	C2'-C1'	-6.68	1.46	1.53
34	BA	588	C	C1'-N1	-6.68	1.37	1.46
34	BA	932	G	C2'-C1'	-6.68	1.46	1.53
34	BA	1066	A	C2'-C1'	-6.68	1.46	1.53
34	BA	1446	G	C6-N1	-6.68	1.34	1.39
35	BB	30	A	N9-C4	-6.68	1.33	1.37
35	BB	62	C	O3'-P	-6.68	1.53	1.61
35	BB	575	C	C2'-C1'	-6.68	1.46	1.53
35	BB	1063	C	C1'-N1	-6.68	1.37	1.46
35	BB	1175	A	N3-C4	-6.68	1.30	1.34
36	BC	128	U	C2'-C1'	-6.68	1.46	1.53
40	BG	74	G	N1-C2	-6.68	1.32	1.37
40	BG	167	C	C2'-C1'	-6.68	1.46	1.53
85	AA	532	G	C2-N2	-6.68	1.27	1.34
85	AA	770	C	P-O5'	-6.68	1.53	1.59
85	AA	1118	U	P-O5'	-6.68	1.53	1.59
85	AA	1578	G	N7-C5	-6.68	1.35	1.39
85	AA	2132	A	P-O5'	-6.68	1.53	1.59
34	BA	516	U	C4'-O4'	-6.67	1.36	1.45
35	BB	1102	U	N1-C6	-6.67	1.31	1.38
36	BC	154	A	P-O5'	-6.67	1.53	1.59
37	BD	96	C	C4-N4	-6.67	1.27	1.33
40	BG	75	C	C1'-N1	-6.67	1.37	1.46
40	BG	79	U	P-O5'	-6.67	1.53	1.59
85	AA	333	A	N9-C4	-6.67	1.33	1.37
85	AA	1704	C	C2'-C1'	-6.67	1.46	1.53
85	AA	2170	G	C2'-C1'	-6.67	1.46	1.53
34	BA	1515	U	O3'-P	-6.67	1.53	1.61
35	BB	595	U	C2'-C1'	-6.67	1.46	1.53
35	BB	1220	A	C3'-C2'	-6.67	1.45	1.52
85	AA	56	U	C2'-C1'	-6.67	1.46	1.53
85	AA	483	G	C4'-C3'	-6.67	1.45	1.53
85	AA	537	G	C2'-C1'	-6.67	1.46	1.53
34	BA	389	U	C2'-C1'	-6.67	1.46	1.53
34	BA	578	C	O3'-P	-6.67	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	822	U	P-O5'	-6.67	1.53	1.59
34	BA	892	C	O4'-C1'	-6.67	1.32	1.41
34	BA	1530	G	N9-C8	-6.67	1.33	1.37
35	BB	515	C	P-O5'	-6.67	1.53	1.59
41	BH	66	G	C2'-C1'	-6.67	1.46	1.53
85	AA	506	G	C6-N1	-6.67	1.34	1.39
85	AA	936	C	C4-N4	-6.67	1.27	1.33
85	AA	1813	C	C2'-C1'	-6.67	1.46	1.53
85	AA	2172	A	N3-C4	-6.67	1.30	1.34
34	BA	1006	G	C1'-N9	-6.67	1.37	1.46
35	BB	606	C	C3'-C2'	-6.67	1.45	1.52
85	AA	421	G	N1-C2	-6.67	1.32	1.37
85	AA	2007	G	O3'-P	-6.67	1.53	1.61
34	BA	124	G	O3'-P	-6.67	1.53	1.61
34	BA	839	U	C2-N3	-6.67	1.33	1.37
34	BA	1005	C	C4'-C3'	-6.67	1.45	1.53
34	BA	1171	C	C2-N3	-6.67	1.30	1.35
35	BB	92	C	P-O5'	-6.67	1.53	1.59
35	BB	135	C	N1-C6	-6.67	1.33	1.37
35	BB	433	C	O3'-P	-6.67	1.53	1.61
35	BB	481	A	C3'-C2'	-6.67	1.45	1.52
35	BB	1144	A	C5-C4	-6.67	1.34	1.38
37	BD	16	U	C2'-C1'	-6.67	1.46	1.53
41	BH	3	U	C3'-C2'	-6.67	1.45	1.52
85	AA	458	C	C2-N3	-6.67	1.30	1.35
85	AA	671	G	C5'-C4'	-6.67	1.43	1.51
85	AA	1177	G	C6-N1	-6.67	1.34	1.39
85	AA	1284	A	C1'-N9	-6.67	1.37	1.46
34	BA	38	G	C2-N2	-6.67	1.27	1.34
34	BA	104	A	N3-C4	-6.67	1.30	1.34
34	BA	705	C	O3'-P	-6.67	1.53	1.61
34	BA	943	G	C2-N2	-6.67	1.27	1.34
35	BB	1165	A	P-O5'	-6.67	1.53	1.59
85	AA	161	A	C1'-N9	-6.67	1.37	1.46
85	AA	439	U	P-O5'	-6.67	1.53	1.59
34	BA	1273	U	C4'-C3'	-6.67	1.45	1.53
35	BB	659	C	O3'-P	-6.67	1.53	1.61
85	AA	2102	A	C1'-N9	-6.67	1.37	1.46
34	BA	857	C	C1'-N1	-6.66	1.37	1.46
34	BA	1538	G	N7-C5	-6.66	1.35	1.39
34	BA	1795	A	C5-C4	-6.66	1.34	1.38
35	BB	65	A	C5-C4	-6.66	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	815	G	P-O5'	-6.66	1.53	1.59
35	BB	981	A	N7-C5	-6.66	1.35	1.39
35	BB	1205	A	O3'-P	-6.66	1.53	1.61
40	BG	118	U	O4'-C1'	-6.66	1.32	1.41
41	BH	38	G	N1-C2	-6.66	1.32	1.37
85	AA	1491	G	C2-N3	-6.66	1.27	1.32
34	BA	195	G	C2-N2	-6.66	1.27	1.34
34	BA	304	G	C2'-C1'	-6.66	1.46	1.53
34	BA	500	C	C3'-O3'	-6.66	1.32	1.42
34	BA	1075	U	C2'-C1'	-6.66	1.46	1.53
35	BB	51	U	C2-N3	-6.66	1.33	1.37
35	BB	1369	A	C2'-C1'	-6.66	1.46	1.53
36	BC	18	G	C4'-C3'	-6.66	1.45	1.53
38	BE	61	A	N9-C4	-6.66	1.33	1.37
40	BG	72	G	C2'-C1'	-6.66	1.46	1.53
85	AA	147	G	C2'-C1'	-6.66	1.46	1.53
85	AA	820	G	C5'-C4'	-6.66	1.43	1.51
85	AA	1297	G	O3'-P	-6.66	1.53	1.61
85	AA	2057	G	N9-C4	-6.66	1.32	1.38
34	BA	249	A	C5'-C4'	6.66	1.59	1.51
34	BA	542	A	O3'-P	-6.66	1.53	1.61
34	BA	1105	A	C1'-N9	-6.66	1.37	1.46
34	BA	1258	G	N9-C8	-6.66	1.33	1.37
40	BG	100	G	N9-C4	-6.66	1.32	1.38
40	BG	118	U	N1-C6	-6.66	1.31	1.38
41	BH	8	C	O3'-P	-6.66	1.53	1.61
85	AA	527	A	O3'-P	-6.66	1.53	1.61
34	BA	199	U	O3'-P	-6.66	1.53	1.61
34	BA	259	C	C3'-C2'	-6.66	1.45	1.52
34	BA	1161	G	O3'-P	-6.66	1.53	1.61
34	BA	1469	G	C6-N1	-6.66	1.34	1.39
35	BB	116	G	C2-N2	-6.66	1.27	1.34
35	BB	484	G	C2-N2	-6.66	1.27	1.34
35	BB	493	U	C3'-C2'	-6.66	1.45	1.52
35	BB	828	G	O3'-P	-6.66	1.53	1.61
35	BB	1074	U	C2'-C1'	-6.66	1.46	1.53
35	BB	1458	U	P-O5'	-6.66	1.53	1.59
38	BE	113	C	C2'-C1'	-6.66	1.46	1.53
83	Bx	48	GLY	N-CA	6.66	1.56	1.46
85	AA	810	C	C2'-C1'	-6.66	1.46	1.53
85	AA	855	G	C4'-C3'	-6.66	1.45	1.53
85	AA	876	U	O3'-P	-6.66	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2139	G	C3'-C2'	-6.66	1.45	1.52
34	BA	381	A	C3'-C2'	-6.66	1.45	1.52
41	BH	45	G	C2'-C1'	-6.66	1.46	1.53
34	BA	713	C	P-O5'	-6.66	1.53	1.59
34	BA	802	G	O3'-P	-6.66	1.53	1.61
34	BA	885	A	C1'-N9	-6.66	1.37	1.46
34	BA	1052	G	C2'-C1'	-6.66	1.46	1.53
34	BA	1063	G	P-O5'	-6.66	1.53	1.59
34	BA	1254	C	C2'-C1'	-6.66	1.46	1.53
34	BA	1815	G	N1-C2	-6.66	1.32	1.37
35	BB	555	G	N7-C5	-6.66	1.35	1.39
35	BB	1350	A	P-O5'	-6.66	1.53	1.59
35	BB	1405	G	C3'-C2'	-6.66	1.45	1.52
36	BC	26	U	C4'-C3'	-6.66	1.45	1.53
36	BC	158	U	P-O5'	-6.66	1.53	1.59
37	BD	78	C	C2'-C1'	-6.66	1.46	1.53
85	AA	560	C	C2'-C1'	-6.66	1.46	1.53
85	AA	741	G	P-O5'	-6.66	1.53	1.59
85	AA	769	C	C3'-C2'	-6.66	1.45	1.52
85	AA	1038	U	C5'-C4'	6.66	1.59	1.51
34	BA	447	U	C2-N3	-6.65	1.33	1.37
34	BA	1809	G	C5-C4	-6.65	1.33	1.38
40	BG	18	U	O3'-P	-6.65	1.53	1.61
85	AA	903	G	C2'-C1'	-6.65	1.46	1.53
34	BA	358	A	O3'-P	-6.65	1.53	1.61
34	BA	513	U	C5'-C4'	-6.65	1.43	1.51
35	BB	101	U	C5'-C4'	-6.65	1.43	1.51
35	BB	405	U	C2-N3	-6.65	1.33	1.37
35	BB	526	A	N3-C4	-6.65	1.30	1.34
35	BB	1033	U	C1'-N1	-6.65	1.37	1.46
35	BB	1063	C	C4'-O4'	-6.65	1.36	1.45
35	BB	1205	A	C4'-C3'	-6.65	1.45	1.53
35	BB	1529	G	C2'-C1'	-6.65	1.46	1.53
41	BH	45	G	C6-N1	-6.65	1.34	1.39
85	AA	597	A	C2'-C1'	-6.65	1.46	1.53
85	AA	988	C	O3'-P	-6.65	1.53	1.61
85	AA	1515	A	O4'-C1'	-6.65	1.33	1.41
85	AA	2210	C	C2'-C1'	-6.65	1.46	1.53
34	BA	67	A	C4'-C3'	-6.65	1.45	1.53
34	BA	245	U	C2-N3	-6.65	1.33	1.37
34	BA	894	G	C8-N7	-6.65	1.26	1.30
34	BA	971	G	C5-C4	-6.65	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1641	G	C4'-C3'	-6.65	1.45	1.53
35	BB	521	U	O3'-P	-6.65	1.53	1.61
85	AA	1542	A	O4'-C1'	-6.65	1.33	1.41
85	AA	1888	U	P-O5'	-6.65	1.53	1.59
85	AA	2139	G	C5-C6	-6.65	1.35	1.42
34	BA	1048	C	C2-N3	-6.65	1.30	1.35
34	BA	1156	U	O3'-P	-6.65	1.53	1.61
35	BB	563	A	C1'-N9	-6.65	1.37	1.46
35	BB	1209	A	N3-C4	-6.65	1.30	1.34
85	AA	558	U	C2'-C1'	-6.65	1.46	1.53
85	AA	1188	A	C4'-C3'	-6.65	1.45	1.53
34	BA	3	G	C2-N3	-6.65	1.27	1.32
34	BA	280	A	N9-C4	-6.65	1.33	1.37
34	BA	932	G	O3'-P	-6.65	1.53	1.61
34	BA	965	A	C4'-C3'	-6.65	1.45	1.53
34	BA	1248	A	N3-C4	-6.65	1.30	1.34
34	BA	1797	A	C5-C4	-6.65	1.34	1.38
35	BB	398	A	O3'-P	-6.65	1.53	1.61
35	BB	1025	A	O5'-C5'	6.65	1.55	1.44
36	BC	136	G	C6-N1	-6.65	1.34	1.39
38	BE	50	G	N1-C2	-6.65	1.32	1.37
85	AA	337	C	C2'-C1'	-6.65	1.46	1.53
85	AA	369	A	C5-C4	-6.65	1.34	1.38
85	AA	667	A	O3'-P	-6.65	1.53	1.61
85	AA	1145	U	O3'-P	-6.65	1.53	1.61
85	AA	2152	C	O3'-P	-6.65	1.53	1.61
85	AA	2193	A	N7-C5	-6.65	1.35	1.39
30	AW	48	TYR	CB-CG	-6.65	1.41	1.51
34	BA	138	C	C2-N3	-6.65	1.30	1.35
34	BA	774	A	N7-C5	-6.65	1.35	1.39
85	AA	363	A	P-O5'	-6.65	1.53	1.59
34	BA	483	A	N9-C8	-6.64	1.32	1.37
34	BA	518	C	C1'-N1	-6.64	1.37	1.46
34	BA	891	C	C2'-C1'	-6.64	1.46	1.53
35	BB	108	G	C5-C4	-6.64	1.33	1.38
35	BB	1209	A	C5'-C4'	6.64	1.59	1.51
35	BB	1291	G	C5-C4	-6.64	1.33	1.38
36	BC	92	C	C2'-C1'	-6.64	1.46	1.53
85	AA	790	A	C4'-O4'	-6.64	1.36	1.45
34	BA	289	A	C1'-N9	-6.64	1.37	1.46
34	BA	487	A	C6-N1	-6.64	1.30	1.35
34	BA	1175	G	N1-C2	-6.64	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	66	G	C6-N1	-6.64	1.34	1.39
35	BB	598	C	C2-N3	-6.64	1.30	1.35
35	BB	1214	U	C2-N3	-6.64	1.33	1.37
35	BB	1387	C	O3'-P	-6.64	1.53	1.61
36	BC	65	G	C3'-C2'	-6.64	1.45	1.52
40	BG	168	A	O4'-C1'	-6.64	1.33	1.41
85	AA	40	A	O3'-P	-6.64	1.53	1.61
85	AA	321	C	O3'-P	-6.64	1.53	1.61
85	AA	397	G	C1'-N9	-6.64	1.37	1.46
85	AA	491	G	C2-N2	-6.64	1.27	1.34
85	AA	1173	A	N9-C4	-6.64	1.33	1.37
34	BA	934	G	O4'-C1'	-6.64	1.33	1.41
34	BA	1252	G	C5-C4	-6.64	1.33	1.38
34	BA	1616	A	C2'-C1'	-6.64	1.46	1.53
35	BB	520	G	C5-C6	-6.64	1.35	1.42
35	BB	1002	G	C2-N2	-6.64	1.27	1.34
38	BE	98	C	O3'-P	-6.64	1.53	1.61
85	AA	95	U	C2'-C1'	-6.64	1.46	1.53
85	AA	608	A	P-O5'	-6.64	1.53	1.59
85	AA	2039	G	C1'-N9	-6.64	1.37	1.46
34	BA	1495	A	N7-C5	-6.64	1.35	1.39
35	BB	1375	G	C1'-N9	-6.64	1.37	1.46
36	BC	12	A	C6-N6	-6.64	1.28	1.33
36	BC	77	A	P-O5'	-6.64	1.53	1.59
37	BD	72	U	C1'-N1	-6.64	1.37	1.46
38	BE	193	A	N3-C4	-6.64	1.30	1.34
40	BG	40	G	N7-C5	-6.64	1.35	1.39
85	AA	40	A	C2'-C1'	-6.64	1.46	1.53
85	AA	481	A	P-O5'	-6.64	1.53	1.59
85	AA	668	A	N3-C4	-6.64	1.30	1.34
85	AA	685	U	O3'-P	-6.64	1.53	1.61
85	AA	1170	C	C2'-C1'	-6.64	1.46	1.53
38	BE	46	G	C1'-N9	-6.64	1.37	1.46
34	BA	29	U	P-O5'	-6.64	1.53	1.59
34	BA	61	G	N7-C5	-6.64	1.35	1.39
34	BA	125	G	C3'-C2'	-6.64	1.45	1.52
34	BA	1310	C	C2'-C1'	-6.64	1.46	1.53
34	BA	1566	G	N9-C4	-6.64	1.32	1.38
35	BB	102	G	C1'-N9	-6.64	1.37	1.46
35	BB	604	C	C3'-C2'	-6.64	1.45	1.52
35	BB	1338	U	C3'-C2'	-6.64	1.45	1.52
40	BG	9	G	C5-C4	-6.64	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	466	A	N9-C8	-6.64	1.32	1.37
85	AA	557	G	O3'-P	-6.64	1.53	1.61
85	AA	804	A	C2'-C1'	-6.64	1.46	1.53
85	AA	1268	C	C2-N3	-6.64	1.30	1.35
85	AA	1811	C	C5'-C4'	6.64	1.59	1.51
85	AA	2028	G	N7-C5	-6.64	1.35	1.39
34	BA	791	A	P-O5'	-6.63	1.53	1.59
34	BA	1172	C	P-O5'	-6.63	1.53	1.59
34	BA	1597	G	P-O5'	-6.63	1.53	1.59
34	BA	1598	U	C2-N3	-6.63	1.33	1.37
35	BB	9	G	N9-C4	-6.63	1.32	1.38
35	BB	375	G	C2-N2	-6.63	1.27	1.34
35	BB	628	A	C5-C4	-6.63	1.34	1.38
35	BB	649	A	C5-C4	-6.63	1.34	1.38
39	BF	13	U	N1-C2	-6.63	1.32	1.38
85	AA	109	G	P-O5'	-6.63	1.53	1.59
34	BA	124	G	P-O5'	-6.63	1.53	1.59
35	BB	1086	G	N7-C5	-6.63	1.35	1.39
85	AA	2003	C	C2'-C1'	-6.63	1.46	1.53
85	AA	2071	U	C2-N3	-6.63	1.33	1.37
34	BA	23	A	O3'-P	-6.63	1.53	1.61
34	BA	85	C	O3'-P	-6.63	1.53	1.61
34	BA	266	G	O3'-P	-6.63	1.53	1.61
35	BB	631	G	N7-C5	-6.63	1.35	1.39
35	BB	999	G	C3'-C2'	-6.63	1.45	1.52
36	BC	64	U	P-O5'	-6.63	1.53	1.59
36	BC	103	A	O3'-P	-6.63	1.53	1.61
38	BE	114	G	N9-C8	-6.63	1.33	1.37
39	BF	31	U	P-O5'	-6.63	1.53	1.59
41	BH	120	C	C2-N3	-6.63	1.30	1.35
85	AA	987	C	C2-N3	-6.63	1.30	1.35
34	BA	859	G	C2'-C1'	-6.63	1.46	1.53
34	BA	1088	G	P-O5'	-6.63	1.53	1.59
35	BB	459	U	O3'-P	-6.63	1.53	1.61
35	BB	1298	C	C4'-C3'	-6.63	1.45	1.53
38	BE	12	A	O3'-P	-6.63	1.53	1.61
85	AA	471	U	O4'-C1'	-6.63	1.33	1.41
85	AA	927	A	O3'-P	-6.63	1.53	1.61
85	AA	1482	C	N3-C4	-6.63	1.29	1.33
34	BA	837	U	C2'-C1'	-6.63	1.46	1.53
34	BA	1278	A	N9-C4	-6.63	1.33	1.37
35	BB	502	C	C1'-N1	-6.63	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	846	A	N9-C4	-6.63	1.33	1.37
35	BB	999	G	C5-C4	-6.63	1.33	1.38
35	BB	1292	G	C5'-C4'	-6.63	1.43	1.51
35	BB	1296	A	C2'-C1'	-6.63	1.46	1.53
38	BE	130	G	C1'-N9	-6.63	1.37	1.46
40	BG	116	G	C6-N1	-6.63	1.34	1.39
85	AA	395	G	C5'-C4'	-6.63	1.43	1.51
85	AA	661	C	C3'-C2'	-6.63	1.45	1.52
85	AA	1219	A	O3'-P	-6.63	1.53	1.61
85	AA	1693	C	C2'-C1'	-6.63	1.46	1.53
34	BA	577	U	O3'-P	-6.63	1.53	1.61
34	BA	1332	U	C3'-C2'	-6.63	1.45	1.52
35	BB	35	G	C6-N1	-6.63	1.34	1.39
35	BB	1034	U	C1'-N1	-6.63	1.37	1.46
35	BB	1036	G	C1'-N9	-6.63	1.37	1.46
36	BC	169	G	P-O5'	-6.63	1.53	1.59
37	BD	6	C	P-O5'	-6.63	1.53	1.59
38	BE	176	G	N3-C4	-6.63	1.30	1.35
39	BF	51	C	C2-N3	-6.63	1.30	1.35
85	AA	102	A	N7-C5	-6.63	1.35	1.39
85	AA	1136	A	N7-C5	-6.63	1.35	1.39
85	AA	1510	A	N7-C5	-6.63	1.35	1.39
34	BA	723	C	C2'-C1'	-6.62	1.46	1.53
35	BB	58	G	C1'-N9	-6.62	1.37	1.46
35	BB	994	A	C3'-C2'	6.62	1.60	1.52
35	BB	1497	C	P-O5'	-6.62	1.53	1.59
38	BE	141	A	C8-N7	-6.62	1.26	1.31
34	BA	189	G	P-O5'	-6.62	1.53	1.59
34	BA	266	G	C2-N2	-6.62	1.27	1.34
34	BA	1321	A	C1'-N9	-6.62	1.37	1.46
34	BA	1419	A	C2'-C1'	-6.62	1.46	1.53
35	BB	97	U	C2'-C1'	-6.62	1.46	1.53
35	BB	592	G	P-O5'	-6.62	1.53	1.59
35	BB	1534	U	C3'-C2'	-6.62	1.45	1.52
38	BE	96	G	N7-C5	-6.62	1.35	1.39
38	BE	147	G	N9-C4	-6.62	1.32	1.38
85	AA	688	C	P-O5'	-6.62	1.53	1.59
34	BA	361	C	O3'-P	-6.62	1.53	1.61
34	BA	409	A	C3'-C2'	-6.62	1.45	1.52
34	BA	1598	U	C4'-C3'	-6.62	1.45	1.53
35	BB	1062	G	C5-C4	-6.62	1.33	1.38
35	BB	1444	U	C3'-C2'	-6.62	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1471	A	N7-C5	-6.62	1.35	1.39
36	BC	16	A	C3'-C2'	-6.62	1.45	1.52
36	BC	120	G	C1'-N9	-6.62	1.37	1.46
37	BD	49	A	N9-C4	-6.62	1.33	1.37
85	AA	1105	G	N1-C2	-6.62	1.32	1.37
85	AA	1910	A	P-O5'	-6.62	1.53	1.59
35	BB	18	A	C2'-C1'	-6.62	1.46	1.53
35	BB	664	A	O4'-C1'	-6.62	1.33	1.41
35	BB	1153	G	P-O5'	-6.62	1.53	1.59
40	BG	98	A	N9-C8	-6.62	1.32	1.37
85	AA	1450	U	C2'-C1'	-6.62	1.46	1.53
34	BA	688	G	C3'-C2'	-6.62	1.45	1.52
34	BA	987	C	C2-N3	-6.62	1.30	1.35
34	BA	1006	G	O3'-P	-6.62	1.53	1.61
36	BC	46	G	O3'-P	-6.62	1.53	1.61
85	AA	352	G	C3'-C2'	-6.62	1.45	1.52
34	BA	145	U	C2-N3	-6.62	1.33	1.37
35	BB	25	A	C2'-C1'	-6.62	1.46	1.53
35	BB	33	A	C2'-C1'	-6.62	1.46	1.53
34	BA	76	U	N3-C4	-6.62	1.32	1.38
34	BA	1530	G	C1'-N9	-6.62	1.37	1.46
35	BB	39	C	C2'-C1'	-6.62	1.46	1.53
35	BB	1200	A	O3'-P	-6.62	1.53	1.61
36	BC	148	C	N1-C6	-6.62	1.33	1.37
37	BD	85	C	C2'-C1'	-6.62	1.46	1.53
40	BG	115	C	N1-C6	-6.62	1.33	1.37
41	BH	34	G	C8-N7	-6.62	1.26	1.30
85	AA	643	C	P-O5'	-6.62	1.53	1.59
34	BA	891	C	O3'-P	-6.61	1.53	1.61
34	BA	1504	A	C3'-C2'	-6.61	1.45	1.52
35	BB	630	A	N9-C4	-6.61	1.33	1.37
35	BB	1052	G	P-O5'	-6.61	1.53	1.59
35	BB	1486	C	C2'-C1'	-6.61	1.46	1.53
38	BE	162	U	N1-C6	-6.61	1.31	1.38
40	BG	32	U	P-O5'	-6.61	1.53	1.59
40	BG	88	G	C1'-N9	-6.61	1.37	1.46
85	AA	30	G	O3'-P	-6.61	1.53	1.61
85	AA	112	A	C1'-N9	-6.61	1.37	1.46
85	AA	461	G	N9-C4	-6.61	1.32	1.38
85	AA	471	U	C3'-C2'	-6.61	1.45	1.52
85	AA	1299	A	O3'-P	-6.61	1.53	1.61
85	AA	1864	G	O3'-P	-6.61	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
86	AB	13	C	C2'-C1'	-6.61	1.46	1.53
34	BA	662	U	C2'-C1'	-6.61	1.46	1.53
34	BA	908	G	N9-C4	-6.61	1.32	1.38
34	BA	1151	A	O3'-P	-6.61	1.53	1.61
34	BA	1436	A	C5-C4	-6.61	1.34	1.38
35	BB	595	U	O3'-P	-6.61	1.53	1.61
85	AA	1868	G	P-O5'	-6.61	1.53	1.59
34	BA	290	G	C6-N1	-6.61	1.34	1.39
34	BA	679	U	O4'-C1'	-6.61	1.33	1.41
34	BA	1450	G	C4'-O4'	-6.61	1.36	1.45
35	BB	412	A	N9-C8	-6.61	1.32	1.37
35	BB	638	G	C3'-C2'	-6.61	1.45	1.52
35	BB	690	C	C2-N3	-6.61	1.30	1.35
39	BF	71	G	N9-C8	-6.61	1.33	1.37
40	BG	28	A	C1'-N9	-6.61	1.37	1.46
85	AA	728	U	P-O5'	-6.61	1.53	1.59
85	AA	1224	C	C2-N3	-6.61	1.30	1.35
34	BA	315	U	P-O5'	-6.61	1.53	1.59
34	BA	358	A	C2'-C1'	-6.61	1.46	1.53
34	BA	1472	G	O3'-P	-6.61	1.53	1.61
35	BB	359	A	O3'-P	-6.61	1.53	1.61
35	BB	622	G	O3'-P	-6.61	1.53	1.61
85	AA	679	A	C5-C4	-6.61	1.34	1.38
34	BA	17	A	C1'-N9	-6.61	1.37	1.46
34	BA	334	G	N9-C8	-6.61	1.33	1.37
34	BA	545	U	C2'-C1'	-6.61	1.46	1.53
34	BA	892	C	N1-C6	-6.61	1.33	1.37
34	BA	1675	C	C2-N3	-6.61	1.30	1.35
35	BB	969	C	P-O5'	-6.61	1.53	1.59
35	BB	1050	A	N9-C4	-6.61	1.33	1.37
35	BB	1389	C	O3'-P	-6.61	1.53	1.61
38	BE	133	C	C2'-C1'	-6.61	1.46	1.53
41	BH	59	G	P-O5'	-6.61	1.53	1.59
85	AA	535	G	O3'-P	-6.61	1.53	1.61
85	AA	821	U	P-O5'	-6.61	1.53	1.59
85	AA	2082	C	N3-C4	-6.61	1.29	1.33
34	BA	828	A	P-O5'	-6.61	1.53	1.59
34	BA	1601	C	C2'-C1'	-6.61	1.46	1.53
34	BA	1667	G	C5-C4	-6.61	1.33	1.38
34	BA	1785	G	N9-C4	-6.61	1.32	1.38
35	BB	375	G	N9-C8	-6.61	1.33	1.37
35	BB	582	G	C2'-C1'	-6.61	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	857	G	N7-C5	-6.61	1.35	1.39
35	BB	1504	U	C5'-C4'	6.61	1.59	1.51
40	BG	96	C	C1'-N1	-6.61	1.37	1.46
41	BH	104	U	P-O5'	-6.61	1.53	1.59
85	AA	875	C	C2'-C1'	-6.61	1.46	1.53
85	AA	1167	G	O3'-P	-6.61	1.53	1.61
85	AA	1796	C	P-O5'	-6.61	1.53	1.59
86	AB	70	G	N7-C5	-6.61	1.35	1.39
35	BB	54	U	C2-N3	-6.60	1.33	1.37
34	BA	211	C	O3'-P	-6.60	1.53	1.61
34	BA	388	A	N7-C5	-6.60	1.35	1.39
34	BA	426	A	C5-C4	-6.60	1.34	1.38
34	BA	813	C	O4'-C1'	-6.60	1.33	1.41
34	BA	870	C	N1-C6	6.60	1.41	1.37
34	BA	1033	G	C2'-C1'	-6.60	1.46	1.53
34	BA	1145	U	O3'-P	-6.60	1.53	1.61
35	BB	32	C	P-O5'	-6.60	1.53	1.59
35	BB	81	A	C3'-C2'	-6.60	1.45	1.52
35	BB	1362	G	C5-C4	-6.60	1.33	1.38
35	BB	1396	G	C1'-N9	-6.60	1.37	1.46
36	BC	121	G	C3'-C2'	-6.60	1.45	1.52
85	AA	104	C	N1-C6	-6.60	1.33	1.37
85	AA	546	U	O3'-P	-6.60	1.53	1.61
85	AA	880	A	O3'-P	-6.60	1.53	1.61
85	AA	1549	G	C3'-C2'	-6.60	1.45	1.52
34	BA	690	G	C5-C4	-6.60	1.33	1.38
35	BB	133	G	P-O5'	-6.60	1.53	1.59
85	AA	487	G	N1-C2	-6.60	1.32	1.37
85	AA	687	G	C1'-N9	-6.60	1.37	1.46
85	AA	2201	A	O3'-P	-6.60	1.53	1.61
34	BA	307	C	C3'-C2'	-6.60	1.45	1.52
34	BA	968	G	O3'-P	-6.60	1.53	1.61
34	BA	1286	C	C3'-C2'	-6.60	1.45	1.52
34	BA	1312	A	C3'-C2'	-6.60	1.45	1.52
34	BA	1562	G	N1-C2	-6.60	1.32	1.37
35	BB	402	G	C6-N1	-6.60	1.34	1.39
35	BB	1039	A	C4'-C3'	-6.60	1.45	1.53
36	BC	8	C	O3'-P	-6.60	1.53	1.61
36	BC	106	G	C2-N2	-6.60	1.27	1.34
38	BE	49	A	P-O5'	-6.60	1.53	1.59
85	AA	881	C	C2'-C1'	-6.60	1.46	1.53
85	AA	2141	G	C8-N7	-6.60	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	402	G	O3'-P	-6.60	1.53	1.61
34	BA	1229	G	C2-N2	-6.60	1.27	1.34
34	BA	1793	G	O3'-P	-6.60	1.53	1.61
35	BB	1202	G	O3'-P	-6.60	1.53	1.61
35	BB	1213	U	C2'-C1'	-6.60	1.46	1.53
35	BB	1421	C	O3'-P	-6.60	1.53	1.61
35	BB	1515	C	O3'-P	-6.60	1.53	1.61
36	BC	34	U	O4'-C1'	-6.60	1.33	1.41
39	BF	72	A	N7-C5	-6.60	1.35	1.39
85	AA	57	G	N1-C2	-6.60	1.32	1.37
85	AA	393	C	C5'-C4'	-6.60	1.43	1.51
85	AA	715	G	N9-C4	6.60	1.43	1.38
85	AA	965	G	C2-N2	-6.60	1.27	1.34
34	BA	27	G	C5-C4	-6.60	1.33	1.38
34	BA	1697	U	P-O5'	-6.60	1.53	1.59
35	BB	1137	G	C2-N3	-6.60	1.27	1.32
85	AA	1219	A	C5-C6	-6.60	1.35	1.41
85	AA	1349	A	P-O5'	-6.60	1.53	1.59
85	AA	1503	G	C5-C4	-6.60	1.33	1.38
85	AA	2141	G	N7-C5	-6.60	1.35	1.39
85	AA	2146	G	O4'-C1'	-6.60	1.33	1.41
34	BA	719	G	C2-N2	-6.59	1.27	1.34
34	BA	902	C	C2'-C1'	-6.59	1.46	1.53
34	BA	1472	G	C2-N2	-6.59	1.27	1.34
34	BA	1474	G	N9-C4	-6.59	1.32	1.38
34	BA	1818	A	N7-C5	-6.59	1.35	1.39
35	BB	1508	G	C6-N1	-6.59	1.34	1.39
37	BD	47	U	C5'-C4'	6.59	1.59	1.51
85	AA	118	C	C1'-N1	-6.59	1.37	1.46
85	AA	156	G	C5-C6	-6.59	1.35	1.42
85	AA	311	U	C2-N3	-6.59	1.33	1.37
85	AA	900	G	P-O5'	-6.59	1.53	1.59
85	AA	1186	C	C2-N3	-6.59	1.30	1.35
85	AA	1206	A	C2'-C1'	-6.59	1.46	1.53
85	AA	1292	A	C1'-N9	-6.59	1.37	1.46
34	BA	1335	A	C4'-C3'	-6.59	1.45	1.53
34	BA	1712	U	C1'-N1	-6.59	1.37	1.46
36	BC	145	G	P-O5'	-6.59	1.53	1.59
85	AA	427	G	C6-N1	-6.59	1.34	1.39
85	AA	1674	G	P-O5'	-6.59	1.53	1.59
34	BA	980	C	O3'-P	-6.59	1.53	1.61
34	BA	1000	G	C3'-C2'	-6.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1047	U	C2-N3	-6.59	1.33	1.37
34	BA	1427	U	C4'-C3'	-6.59	1.45	1.53
35	BB	57	G	C6-N1	-6.59	1.34	1.39
35	BB	415	A	C5-C4	-6.59	1.34	1.38
35	BB	1004	A	C2'-C1'	-6.59	1.46	1.53
85	AA	327	G	C6-N1	-6.59	1.34	1.39
34	BA	377	G	N1-C2	-6.59	1.32	1.37
34	BA	436	U	N3-C4	-6.59	1.32	1.38
34	BA	1156	U	C2'-C1'	-6.59	1.46	1.53
34	BA	1440	C	P-O5'	-6.59	1.53	1.59
34	BA	1543	A	P-O5'	-6.59	1.53	1.59
34	BA	1550	G	O3'-P	-6.59	1.53	1.61
37	BD	20	C	O3'-P	-6.59	1.53	1.61
40	BG	58	G	C6-N1	-6.59	1.34	1.39
85	AA	309	G	C2-N2	-6.59	1.27	1.34
85	AA	747	U	C3'-C2'	-6.59	1.45	1.52
85	AA	897	A	O3'-P	-6.59	1.53	1.61
85	AA	965	G	C6-N1	-6.59	1.34	1.39
85	AA	1203	G	N9-C4	-6.59	1.32	1.38
85	AA	1518	A	C1'-N9	-6.59	1.37	1.46
85	AA	1578	G	C2'-C1'	-6.59	1.46	1.53
85	AA	2114	U	C3'-C2'	-6.59	1.45	1.52
34	BA	1576	C	C3'-C2'	-6.59	1.45	1.52
34	BA	1614	G	O3'-P	-6.59	1.53	1.61
35	BB	81	A	C2'-C1'	-6.59	1.46	1.53
35	BB	370	A	C1'-N9	-6.59	1.37	1.46
35	BB	630	A	N7-C5	-6.59	1.35	1.39
36	BC	64	U	C2-N3	-6.59	1.33	1.37
37	BD	79	G	C3'-C2'	-6.59	1.45	1.52
41	BH	109	G	C4'-O4'	-6.59	1.36	1.45
34	BA	723	C	N1-C2	-6.59	1.33	1.40
34	BA	1013	A	C2'-C1'	-6.59	1.46	1.53
34	BA	1574	C	C2-N3	-6.59	1.30	1.35
35	BB	1205	A	C8-N7	-6.59	1.26	1.31
35	BB	1364	C	O3'-P	-6.59	1.53	1.61
35	BB	1430	G	C6-N1	-6.59	1.34	1.39
35	BB	1446	C	P-O5'	-6.59	1.53	1.59
38	BE	177	U	C3'-C2'	-6.59	1.45	1.52
85	AA	2127	G	N7-C5	-6.59	1.35	1.39
34	BA	356	C	C4'-C3'	-6.58	1.46	1.53
34	BA	751	A	N7-C5	-6.58	1.35	1.39
34	BA	1591	G	C3'-C2'	-6.58	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	454	U	C2-N3	-6.58	1.33	1.37
35	BB	999	G	C6-N1	-6.58	1.34	1.39
85	AA	88	G	C5-C4	-6.58	1.33	1.38
85	AA	2147	A	C8-N7	-6.58	1.26	1.31
34	BA	57	A	C3'-C2'	-6.58	1.45	1.52
34	BA	592	G	P-O5'	-6.58	1.53	1.59
34	BA	759	A	C4'-C3'	-6.58	1.46	1.53
34	BA	806	U	P-O5'	-6.58	1.53	1.59
34	BA	1001	G	C2-N2	-6.58	1.27	1.34
34	BA	1007	G	N3-C4	-6.58	1.30	1.35
34	BA	1224	A	O3'-P	-6.58	1.53	1.61
34	BA	1273	U	O3'-P	-6.58	1.53	1.61
35	BB	98	A	P-O5'	-6.58	1.53	1.59
35	BB	547	A	N9-C4	-6.58	1.33	1.37
35	BB	623	A	P-O5'	-6.58	1.53	1.59
36	BC	31	A	O4'-C1'	-6.58	1.33	1.41
40	BG	33	G	C2-N3	-6.58	1.27	1.32
41	BH	17	A	C2'-C1'	-6.58	1.46	1.53
85	AA	889	G	C2-N2	-6.58	1.27	1.34
85	AA	1140	G	N1-C2	-6.58	1.32	1.37
85	AA	1697	C	O3'-P	-6.58	1.53	1.61
34	BA	1704	G	O3'-P	-6.58	1.53	1.61
35	BB	366	G	O3'-P	-6.58	1.53	1.61
40	BG	58	G	C2'-C1'	-6.58	1.46	1.53
40	BG	141	A	C1'-N9	-6.58	1.37	1.46
85	AA	485	A	C5-C4	-6.58	1.34	1.38
85	AA	1470	A	N9-C8	-6.58	1.32	1.37
34	BA	53	G	N1-C2	-6.58	1.32	1.37
34	BA	65	A	N3-C4	-6.58	1.30	1.34
34	BA	1251	A	O3'-P	-6.58	1.53	1.61
35	BB	964	G	C3'-C2'	-6.58	1.45	1.52
38	BE	94	U	C4'-O4'	-6.58	1.36	1.45
38	BE	128	G	C1'-N9	-6.58	1.37	1.46
38	BE	131	C	N1-C6	-6.58	1.33	1.37
85	AA	571	G	C2'-C1'	-6.58	1.46	1.53
85	AA	1525	C	O3'-P	-6.58	1.53	1.61
34	BA	725	C	P-O5'	-6.58	1.53	1.59
34	BA	832	C	P-O5'	-6.58	1.53	1.59
34	BA	1243	A	N7-C5	-6.58	1.35	1.39
34	BA	1642	A	O4'-C1'	-6.58	1.33	1.41
34	BA	1804	A	O3'-P	-6.58	1.53	1.61
35	BB	356	C	P-O5'	-6.58	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	668	A	P-O5'	-6.58	1.53	1.59
35	BB	971	A	C8-N7	-6.58	1.26	1.31
35	BB	1070	G	C3'-C2'	-6.58	1.45	1.52
35	BB	1118	G	O3'-P	-6.58	1.53	1.61
85	AA	921	C	O3'-P	-6.58	1.53	1.61
85	AA	1589	G	C6-N1	-6.58	1.34	1.39
34	BA	811	C	O3'-P	-6.58	1.53	1.61
35	BB	438	G	C2'-C1'	-6.58	1.46	1.53
35	BB	1081	U	P-O5'	-6.58	1.53	1.59
34	BA	76	U	C2'-C1'	-6.58	1.46	1.53
34	BA	267	G	N9-C8	-6.58	1.33	1.37
34	BA	277	A	C5-C4	-6.58	1.34	1.38
34	BA	521	C	C4'-C3'	-6.58	1.46	1.53
34	BA	803	U	C2-N3	-6.58	1.33	1.37
34	BA	1287	G	C2-N2	-6.58	1.27	1.34
34	BA	1804	A	N3-C4	-6.58	1.30	1.34
35	BB	509	A	P-O5'	-6.58	1.53	1.59
35	BB	567	G	P-O5'	-6.58	1.53	1.59
35	BB	1086	G	C6-N1	-6.58	1.34	1.39
35	BB	1147	G	C1'-N9	-6.58	1.37	1.46
35	BB	1292	G	C2-N2	-6.58	1.27	1.34
35	BB	1399	A	C5-C4	-6.58	1.34	1.38
38	BE	8	G	C3'-C2'	-6.58	1.45	1.52
38	BE	59	U	C3'-C2'	-6.58	1.45	1.52
38	BE	139	U	N1-C6	-6.58	1.32	1.38
40	BG	179	C	C4'-C3'	-6.58	1.46	1.53
85	AA	756	G	N7-C5	-6.58	1.35	1.39
85	AA	802	A	C8-N7	-6.58	1.26	1.31
85	AA	1176	C	C2'-C1'	-6.58	1.46	1.53
34	BA	514	U	C4'-C3'	-6.57	1.46	1.53
34	BA	532	C	C4'-C3'	-6.57	1.46	1.53
34	BA	1593	U	P-O5'	-6.57	1.53	1.59
35	BB	1360	A	O3'-P	-6.57	1.53	1.61
35	BB	1457	A	O4'-C1'	-6.57	1.33	1.41
36	BC	86	U	O3'-P	-6.57	1.53	1.61
38	BE	186	C	C1'-N1	-6.57	1.37	1.46
40	BG	87	G	O3'-P	-6.57	1.53	1.61
40	BG	91	U	C2'-C1'	-6.57	1.46	1.53
85	AA	96	C	C3'-C2'	-6.57	1.45	1.52
85	AA	211	C	O4'-C1'	-6.57	1.33	1.41
85	AA	533	C	C4-C5	-6.57	1.37	1.43
85	AA	930	G	O3'-P	-6.57	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	977	U	C3'-C2'	-6.57	1.45	1.52
85	AA	1509	A	C8-N7	-6.57	1.26	1.31
34	BA	87	G	C2'-C1'	-6.57	1.46	1.53
34	BA	191	G	N1-C2	-6.57	1.32	1.37
34	BA	1071	G	P-O5'	-6.57	1.53	1.59
35	BB	101	U	C3'-C2'	-6.57	1.45	1.52
39	BF	48	G	N7-C5	-6.57	1.35	1.39
85	AA	366	A	C3'-C2'	-6.57	1.45	1.52
85	AA	700	U	C3'-C2'	-6.57	1.45	1.52
85	AA	1468	G	P-O5'	-6.57	1.53	1.59
34	BA	700	G	C2-N2	-6.57	1.27	1.34
35	BB	88	U	C3'-C2'	-6.57	1.45	1.52
35	BB	1537	C	C3'-C2'	-6.57	1.45	1.52
77	Br	140	GLY	CA-C	-6.57	1.41	1.51
85	AA	1810	C	C4'-C3'	-6.57	1.46	1.53
85	AA	2048	C	C2-N3	-6.57	1.30	1.35
34	BA	455	A	P-O5'	-6.57	1.53	1.59
40	BG	146	C	O3'-P	-6.57	1.53	1.61
85	AA	965	G	N7-C5	-6.57	1.35	1.39
34	BA	166	G	N9-C8	-6.57	1.33	1.37
34	BA	658	C	C2-N3	-6.57	1.30	1.35
34	BA	776	U	N3-C4	-6.57	1.32	1.38
34	BA	979	G	N3-C4	-6.57	1.30	1.35
35	BB	448	G	N7-C5	-6.57	1.35	1.39
35	BB	508	U	P-O5'	-6.57	1.53	1.59
35	BB	637	G	N9-C4	-6.57	1.32	1.38
35	BB	640	A	N7-C5	-6.57	1.35	1.39
35	BB	794	G	O3'-P	-6.57	1.53	1.61
35	BB	832	C	N1-C6	-6.57	1.33	1.37
35	BB	1086	G	C5-C4	-6.57	1.33	1.38
35	BB	1313	C	C3'-C2'	-6.57	1.45	1.52
35	BB	1364	C	C2-N3	-6.57	1.30	1.35
38	BE	46	G	C5-C4	-6.57	1.33	1.38
38	BE	114	G	N9-C4	-6.57	1.32	1.38
40	BG	110	U	O3'-P	-6.57	1.53	1.61
85	AA	18	C	C3'-C2'	-6.57	1.45	1.52
85	AA	313	A	C2'-C1'	-6.57	1.46	1.53
85	AA	710	A	P-O5'	-6.57	1.53	1.59
85	AA	731	U	C3'-C2'	-6.57	1.45	1.52
85	AA	2004	U	C4'-O4'	-6.57	1.37	1.45
85	AA	2075	C	O4'-C1'	-6.57	1.33	1.41
85	AA	2192	A	O3'-P	-6.57	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1001	G	C2'-C1'	-6.57	1.46	1.53
34	BA	1019	C	C2'-C1'	-6.57	1.46	1.53
35	BB	514	G	C3'-C2'	-6.57	1.45	1.52
35	BB	1204	C	C2'-C1'	-6.57	1.46	1.53
35	BB	1306	G	C2'-C1'	-6.57	1.46	1.53
40	BG	75	C	C3'-C2'	-6.57	1.45	1.52
85	AA	313	A	N9-C8	-6.57	1.32	1.37
85	AA	467	U	C2-N3	-6.57	1.33	1.37
85	AA	1482	C	P-O5'	-6.57	1.53	1.59
85	AA	2150	G	C2'-C1'	-6.57	1.46	1.53
85	AA	2195	A	C3'-C2'	-6.57	1.45	1.52
34	BA	798	G	O3'-P	-6.56	1.53	1.61
34	BA	1152	A	C1'-N9	-6.56	1.37	1.46
34	BA	1314	A	P-O5'	-6.56	1.53	1.59
34	BA	1516	G	C6-N1	-6.56	1.34	1.39
35	BB	487	A	P-O5'	-6.56	1.53	1.59
35	BB	644	A	N7-C5	-6.56	1.35	1.39
35	BB	810	G	C6-N1	-6.56	1.34	1.39
36	BC	41	A	C8-N7	-6.56	1.26	1.31
36	BC	151	G	C3'-C2'	-6.56	1.45	1.52
85	AA	176	C	C2-N3	-6.56	1.30	1.35
85	AA	1578	G	N9-C4	-6.56	1.32	1.38
34	BA	65	A	C5-C4	-6.56	1.34	1.38
34	BA	356	C	P-O5'	-6.56	1.53	1.59
34	BA	908	G	O3'-P	-6.56	1.53	1.61
35	BB	1349	U	N3-C4	-6.56	1.32	1.38
36	BC	58	G	C1'-N9	-6.56	1.37	1.46
41	BH	52	G	O3'-P	-6.56	1.53	1.61
44	BK	181	TYR	CB-CG	-6.56	1.41	1.51
85	AA	2055	G	C1'-N9	-6.56	1.37	1.46
85	AA	2197	A	N7-C5	-6.56	1.35	1.39
34	BA	1838	U	C2'-C1'	-6.56	1.46	1.53
35	BB	560	C	C1'-N1	-6.56	1.37	1.46
35	BB	1221	G	O3'-P	-6.56	1.53	1.61
35	BB	1452	U	O3'-P	-6.56	1.53	1.61
36	BC	75	G	C2-N2	-6.56	1.27	1.34
38	BE	33	C	O3'-P	-6.56	1.53	1.61
85	AA	737	G	O3'-P	-6.56	1.53	1.61
34	BA	298	G	O3'-P	-6.56	1.53	1.61
34	BA	1836	A	C2'-C1'	-6.56	1.46	1.53
35	BB	1408	G	P-O5'	-6.56	1.53	1.59
37	BD	46	G	C4'-C3'	-6.56	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1117	G	O3'-P	-6.56	1.53	1.61
85	AA	1281	G	N9-C8	-6.56	1.33	1.37
85	AA	1586	C	P-O5'	-6.56	1.53	1.59
85	AA	2180	C	C3'-C2'	-6.56	1.45	1.52
34	BA	417	A	P-O5'	-6.56	1.53	1.59
34	BA	539	C	O3'-P	-6.56	1.53	1.61
34	BA	661	C	O3'-P	-6.56	1.53	1.61
34	BA	1421	A	O3'-P	-6.56	1.53	1.61
34	BA	1687	A	N9-C4	-6.56	1.33	1.37
35	BB	646	U	O3'-P	-6.56	1.53	1.61
38	BE	163	A	C2'-C1'	-6.56	1.46	1.53
39	BF	49	C	C2'-C1'	-6.56	1.46	1.53
85	AA	353	G	C1'-N9	-6.56	1.37	1.46
85	AA	1509	A	C1'-N9	-6.56	1.37	1.46
85	AA	1734	A	C2'-C1'	-6.56	1.46	1.53
85	AA	2178	A	C1'-N9	-6.56	1.37	1.46
35	BB	1284	U	C3'-C2'	-6.56	1.45	1.52
41	BH	29	G	N3-C4	-6.56	1.30	1.35
41	BH	47	G	C2-N2	-6.56	1.27	1.34
85	AA	1519	A	C5-C4	-6.56	1.34	1.38
34	BA	698	U	P-O5'	-6.55	1.53	1.59
34	BA	1152	A	C4'-C3'	-6.55	1.46	1.53
34	BA	1409	A	N7-C5	-6.55	1.35	1.39
34	BA	1791	C	P-O5'	-6.55	1.53	1.59
35	BB	549	U	C3'-C2'	-6.55	1.45	1.52
41	BH	63	G	C8-N7	-6.55	1.27	1.30
85	AA	469	G	C5-C6	-6.55	1.35	1.42
85	AA	540	A	C3'-C2'	-6.55	1.45	1.52
85	AA	1599	G	O3'-P	-6.55	1.53	1.61
34	BA	981	A	N7-C5	-6.55	1.35	1.39
34	BA	1801	G	C3'-C2'	-6.55	1.45	1.52
37	BD	47	U	C2'-C1'	-6.55	1.46	1.53
39	BF	38	C	O3'-P	-6.55	1.53	1.61
40	BG	99	A	P-O5'	-6.55	1.53	1.59
85	AA	1532	G	C1'-N9	-6.55	1.37	1.46
34	BA	626	G	P-O5'	-6.55	1.53	1.59
34	BA	969	A	C1'-N9	-6.55	1.37	1.46
34	BA	1011	G	N3-C4	-6.55	1.30	1.35
34	BA	1230	G	C6-N1	-6.55	1.34	1.39
34	BA	1401	C	C2'-C1'	-6.55	1.46	1.53
34	BA	1431	G	N3-C4	-6.55	1.30	1.35
34	BA	1531	G	C6-N1	-6.55	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1599	A	C1'-N9	-6.55	1.37	1.46
34	BA	1635	A	O3'-P	-6.55	1.53	1.61
35	BB	583	G	O3'-P	-6.55	1.53	1.61
35	BB	1180	G	C2-N2	-6.55	1.27	1.34
39	BF	65	U	O4'-C1'	-6.55	1.33	1.41
41	BH	115	A	C5-C4	-6.55	1.34	1.38
85	AA	753	U	C5'-C4'	6.55	1.59	1.51
34	BA	456	G	C2'-C1'	-6.55	1.46	1.53
34	BA	890	G	C4'-O4'	-6.55	1.37	1.45
34	BA	1034	U	P-O5'	-6.55	1.53	1.59
34	BA	1050	A	C2'-C1'	-6.55	1.46	1.53
34	BA	1093	G	C2'-C1'	-6.55	1.46	1.53
34	BA	1523	U	C3'-C2'	-6.55	1.45	1.52
34	BA	1808	A	N3-C4	-6.55	1.30	1.34
35	BB	615	A	N7-C5	-6.55	1.35	1.39
35	BB	838	G	N9-C4	6.55	1.43	1.38
35	BB	1181	A	P-O5'	-6.55	1.53	1.59
85	AA	175	A	O3'-P	-6.55	1.53	1.61
85	AA	432	A	O3'-P	-6.55	1.53	1.61
85	AA	859	G	C5-C4	-6.55	1.33	1.38
85	AA	1167	G	N3-C4	-6.55	1.30	1.35
85	AA	1178	A	O3'-P	-6.55	1.53	1.61
34	BA	817	U	P-O5'	-6.55	1.53	1.59
34	BA	1059	U	C4'-C3'	-6.55	1.46	1.53
34	BA	1550	G	N1-C2	-6.55	1.32	1.37
34	BA	1655	G	C1'-N9	-6.55	1.37	1.46
34	BA	1711	G	O3'-P	-6.55	1.53	1.61
35	BB	495	A	C4'-C3'	-6.55	1.46	1.53
34	BA	80	U	O4'-C1'	-6.55	1.33	1.41
34	BA	96	G	C1'-N9	-6.55	1.37	1.46
34	BA	120	A	C5'-C4'	6.55	1.59	1.51
34	BA	597	C	C4-C5	-6.55	1.37	1.43
34	BA	1089	U	C4'-C3'	-6.55	1.46	1.53
35	BB	401	U	O3'-P	-6.55	1.53	1.61
35	BB	511	A	C2'-C1'	-6.55	1.46	1.53
35	BB	684	U	C3'-C2'	-6.55	1.45	1.52
35	BB	790	A	N9-C8	-6.55	1.32	1.37
35	BB	978	C	C4-N4	-6.55	1.28	1.33
35	BB	1088	C	P-O5'	-6.55	1.53	1.59
35	BB	1407	U	C2-N3	-6.55	1.33	1.37
40	BG	88	G	C4'-C3'	-6.55	1.46	1.53
85	AA	27	U	P-O5'	-6.55	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1215	A	C3'-C2'	-6.55	1.45	1.52
85	AA	2184	A	C5-C4	-6.55	1.34	1.38
85	AA	931	G	N7-C5	-6.54	1.35	1.39
34	BA	1253	G	P-O5'	-6.54	1.53	1.59
34	BA	1643	U	O3'-P	-6.54	1.53	1.61
35	BB	816	U	O4'-C1'	-6.54	1.33	1.41
35	BB	1252	G	C8-N7	-6.54	1.27	1.30
35	BB	1349	U	C2-N3	-6.54	1.33	1.37
35	BB	1387	C	N3-C4	-6.54	1.29	1.33
36	BC	75	G	O3'-P	-6.54	1.53	1.61
85	AA	513	G	C5-C4	-6.54	1.33	1.38
85	AA	631	G	C4'-O4'	-6.54	1.37	1.45
85	AA	721	C	O3'-P	-6.54	1.53	1.61
85	AA	920	A	C5'-C4'	6.54	1.59	1.51
34	BA	182	U	C3'-C2'	-6.54	1.45	1.52
34	BA	207	A	O3'-P	-6.54	1.53	1.61
34	BA	403	A	C2'-C1'	-6.54	1.46	1.53
34	BA	496	G	O3'-P	-6.54	1.53	1.61
34	BA	1103	G	C2'-C1'	-6.54	1.46	1.53
34	BA	1585	A	P-O5'	-6.54	1.53	1.59
35	BB	559	U	O3'-P	-6.54	1.53	1.61
35	BB	809	U	C2-N3	-6.54	1.33	1.37
35	BB	1190	U	N3-C4	-6.54	1.32	1.38
35	BB	1278	A	C5-C4	-6.54	1.34	1.38
36	BC	23	G	C4'-C3'	6.54	1.60	1.53
38	BE	7	U	P-O5'	-6.54	1.53	1.59
38	BE	96	G	C2'-C1'	-6.54	1.46	1.53
40	BG	168	A	C6-N1	-6.54	1.30	1.35
85	AA	39	A	C2'-C1'	-6.54	1.46	1.53
85	AA	640	C	C4'-C3'	-6.54	1.46	1.53
85	AA	1540	A	O3'-P	-6.54	1.53	1.61
35	BB	1309	A	C2'-C1'	-6.54	1.46	1.53
35	BB	1447	U	P-O5'	-6.54	1.53	1.59
85	AA	698	G	C2'-C1'	-6.54	1.46	1.53
85	AA	1218	C	O3'-P	-6.54	1.53	1.61
85	AA	1686	G	C2-N2	-6.54	1.28	1.34
34	BA	202	A	O3'-P	-6.54	1.53	1.61
34	BA	935	A	P-O5'	-6.54	1.53	1.59
34	BA	1591	G	N1-C2	-6.54	1.32	1.37
35	BB	996	G	P-O5'	-6.54	1.53	1.59
37	BD	82	G	C2-N2	-6.54	1.28	1.34
85	AA	372	U	C1'-N1	-6.54	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1933	G	C5'-C4'	6.54	1.59	1.51
35	BB	868	C	C3'-C2'	-6.54	1.45	1.52
35	BB	1047	C	C1'-N1	-6.54	1.37	1.46
85	AA	496	C	O3'-P	-6.54	1.53	1.61
34	BA	348	U	C2-N3	-6.54	1.33	1.37
34	BA	585	G	N7-C5	-6.54	1.35	1.39
34	BA	704	G	C3'-C2'	-6.54	1.45	1.52
34	BA	1461	A	C3'-C2'	-6.54	1.45	1.52
34	BA	1510	C	C4'-C3'	-6.54	1.46	1.53
34	BA	1839	G	N7-C5	-6.54	1.35	1.39
35	BB	843	G	C2'-C1'	-6.54	1.46	1.53
35	BB	1098	G	N9-C8	-6.54	1.33	1.37
35	BB	1111	C	O3'-P	-6.54	1.53	1.61
35	BB	1172	U	C2'-C1'	-6.54	1.46	1.53
35	BB	1380	G	C6-N1	-6.54	1.34	1.39
35	BB	1439	U	P-O5'	-6.54	1.53	1.59
35	BB	1477	C	C2'-C1'	-6.54	1.46	1.53
36	BC	48	A	P-O5'	-6.54	1.53	1.59
37	BD	57	C	C2'-C1'	-6.54	1.46	1.53
37	BD	74	A	C3'-C2'	-6.54	1.45	1.52
85	AA	324	U	C2-N3	-6.54	1.33	1.37
85	AA	932	A	N7-C5	-6.54	1.35	1.39
85	AA	2110	U	C1'-N1	-6.54	1.37	1.46
34	BA	56	G	N7-C5	-6.53	1.35	1.39
34	BA	290	G	C2-N2	-6.53	1.28	1.34
34	BA	351	A	O3'-P	-6.53	1.53	1.61
34	BA	1173	C	C2'-C1'	-6.53	1.46	1.53
34	BA	1597	G	C2-N2	-6.53	1.28	1.34
34	BA	1739	G	C2-N2	-6.53	1.28	1.34
35	BB	550	G	C2-N2	-6.53	1.28	1.34
35	BB	626	C	C3'-C2'	-6.53	1.45	1.52
35	BB	696	G	C2'-C1'	-6.53	1.46	1.53
35	BB	1335	G	C1'-N9	-6.53	1.37	1.46
35	BB	1488	G	P-O5'	-6.53	1.53	1.59
37	BD	103	C	C3'-C2'	-6.53	1.45	1.52
38	BE	56	U	O4'-C1'	-6.53	1.33	1.41
85	AA	1023	U	P-O5'	-6.53	1.53	1.59
85	AA	1363	U	O3'-P	-6.53	1.53	1.61
85	AA	1488	G	C1'-N9	-6.53	1.37	1.46
34	BA	585	G	C2'-C1'	-6.53	1.46	1.53
34	BA	823	G	C2-N2	-6.53	1.28	1.34
35	BB	1411	U	O3'-P	-6.53	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	200	A	P-O5'	-6.53	1.53	1.59
40	BG	11	G	N9-C4	-6.53	1.32	1.38
40	BG	101	G	C1'-N9	-6.53	1.37	1.46
85	AA	526	G	O3'-P	-6.53	1.53	1.61
85	AA	1107	A	C5'-C4'	-6.53	1.43	1.51
85	AA	1644	G	N9-C4	6.53	1.43	1.38
34	BA	166	G	N9-C4	-6.53	1.32	1.38
34	BA	664	C	C3'-C2'	-6.53	1.45	1.52
34	BA	766	A	P-O5'	-6.53	1.53	1.59
34	BA	1260	G	C3'-C2'	-6.53	1.45	1.52
34	BA	1494	G	C5-C6	-6.53	1.35	1.42
35	BB	1372	G	C1'-N9	-6.53	1.37	1.46
36	BC	42	G	O4'-C1'	-6.53	1.33	1.41
38	BE	70	C	O3'-P	-6.53	1.53	1.61
38	BE	186	C	C2'-C1'	-6.53	1.46	1.53
85	AA	435	A	N7-C5	-6.53	1.35	1.39
85	AA	1123	C	O3'-P	-6.53	1.53	1.61
85	AA	2196	G	N3-C4	-6.53	1.30	1.35
85	AA	2196	G	O4'-C1'	-6.53	1.33	1.41
34	BA	462	C	O3'-P	-6.53	1.53	1.61
34	BA	1641	G	C2-N2	-6.53	1.28	1.34
35	BB	506	G	C6-N1	-6.53	1.34	1.39
35	BB	520	G	C6-N1	-6.53	1.34	1.39
35	BB	812	G	C2-N2	-6.53	1.28	1.34
36	BC	41	A	N7-C5	-6.53	1.35	1.39
85	AA	11	A	C2'-C1'	-6.53	1.46	1.53
85	AA	2116	U	P-O5'	-6.53	1.53	1.59
34	BA	183	G	C3'-C2'	-6.53	1.45	1.52
34	BA	215	C	C4-C5	-6.53	1.37	1.43
34	BA	239	C	C5-C6	-6.53	1.29	1.34
34	BA	354	G	C6-N1	-6.53	1.34	1.39
34	BA	748	C	O3'-P	-6.53	1.53	1.61
34	BA	1196	C	N3-C4	-6.53	1.29	1.33
35	BB	132	G	O3'-P	-6.53	1.53	1.61
35	BB	785	G	C6-N1	-6.53	1.34	1.39
35	BB	1135	U	C2-N3	-6.53	1.33	1.37
35	BB	1193	G	C6-N1	-6.53	1.34	1.39
41	BH	28	U	C2'-C1'	-6.53	1.46	1.53
85	AA	271	A	N9-C4	-6.53	1.33	1.37
85	AA	526	G	C2'-C1'	-6.53	1.46	1.53
85	AA	1700	C	C3'-C2'	-6.53	1.45	1.52
34	BA	89	G	C4'-O4'	-6.53	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1519	G	N7-C5	-6.53	1.35	1.39
34	BA	1722	U	N3-C4	-6.53	1.32	1.38
34	BA	1739	G	N7-C5	-6.53	1.35	1.39
35	BB	484	G	N7-C5	-6.53	1.35	1.39
35	BB	1018	U	O3'-P	-6.53	1.53	1.61
35	BB	1172	U	C4'-C3'	-6.53	1.46	1.53
35	BB	1316	U	C3'-C2'	-6.53	1.45	1.52
35	BB	1545	U	C2-N3	-6.53	1.33	1.37
85	AA	316	C	C3'-C2'	-6.53	1.45	1.52
85	AA	671	G	P-O5'	-6.53	1.53	1.59
85	AA	894	A	C5'-C4'	6.53	1.59	1.51
85	AA	1180	C	C4'-O4'	-6.53	1.37	1.45
85	AA	1624	U	P-O5'	-6.53	1.53	1.59
85	AA	1830	U	C2'-C1'	-6.53	1.46	1.53
85	AA	1887	G	C1'-N9	-6.53	1.37	1.46
85	AA	2098	A	C2'-C1'	-6.53	1.46	1.53
34	BA	1005	C	C2'-C1'	-6.52	1.46	1.53
34	BA	1485	U	C3'-C2'	-6.52	1.45	1.52
35	BB	627	G	C5-C4	-6.52	1.33	1.38
35	BB	1170	U	C3'-C2'	-6.52	1.45	1.52
40	BG	39	A	C2'-C1'	-6.52	1.46	1.53
85	AA	90	A	N3-C4	-6.52	1.30	1.34
85	AA	495	G	P-O5'	-6.52	1.53	1.59
85	AA	889	G	N9-C4	-6.52	1.32	1.38
85	AA	1252	A	C1'-N9	-6.52	1.37	1.46
34	BA	908	G	C5-C4	-6.52	1.33	1.38
34	BA	1021	U	C2-N3	-6.52	1.33	1.37
34	BA	1073	G	C8-N7	-6.52	1.27	1.30
34	BA	1091	U	O4'-C1'	-6.52	1.33	1.41
34	BA	1101	A	N9-C4	-6.52	1.33	1.37
34	BA	1258	G	O3'-P	-6.52	1.53	1.61
34	BA	1709	A	O4'-C1'	-6.52	1.33	1.41
35	BB	36	U	N1-C2	-6.52	1.32	1.38
35	BB	550	G	N3-C4	-6.52	1.30	1.35
35	BB	1143	A	N9-C4	-6.52	1.33	1.37
38	BE	120	C	C4-N4	-6.52	1.28	1.33
34	BA	31	A	N3-C4	-6.52	1.30	1.34
34	BA	196	A	C2'-C1'	-6.52	1.46	1.53
35	BB	1068	G	N7-C5	-6.52	1.35	1.39
37	BD	2	G	C1'-N9	-6.52	1.37	1.46
38	BE	140	G	C4'-C3'	-6.52	1.46	1.53
85	AA	203	C	P-O5'	-6.52	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	695	A	P-O5'	-6.52	1.53	1.59
34	BA	208	A	P-O5'	-6.52	1.53	1.59
34	BA	582	U	P-O5'	-6.52	1.53	1.59
34	BA	969	A	P-O5'	-6.52	1.53	1.59
35	BB	13	A	C4'-C3'	-6.52	1.46	1.53
35	BB	429	C	C3'-C2'	-6.52	1.45	1.52
35	BB	1115	G	C3'-C2'	-6.52	1.45	1.52
35	BB	1176	G	N7-C5	-6.52	1.35	1.39
35	BB	1204	C	P-O5'	-6.52	1.53	1.59
38	BE	69	C	N1-C6	-6.52	1.33	1.37
40	BG	23	C	C3'-O3'	-6.52	1.33	1.42
85	AA	431	G	C3'-C2'	-6.52	1.45	1.52
85	AA	1495	G	C2'-C1'	-6.52	1.46	1.53
34	BA	726	G	N9-C4	-6.52	1.32	1.38
34	BA	733	G	N3-C4	-6.52	1.30	1.35
34	BA	1077	G	C5-C4	-6.52	1.33	1.38
34	BA	1148	U	O4'-C1'	-6.52	1.33	1.41
34	BA	1414	C	C3'-C2'	-6.52	1.45	1.52
34	BA	1721	U	C3'-C2'	6.52	1.60	1.52
35	BB	66	G	C1'-N9	-6.52	1.37	1.46
35	BB	117	A	C2'-C1'	-6.52	1.46	1.53
35	BB	1106	G	N7-C5	-6.52	1.35	1.39
35	BB	1307	C	C4'-C3'	-6.52	1.46	1.53
38	BE	171	U	N1-C2	-6.52	1.32	1.38
40	BG	63	U	P-O5'	-6.52	1.53	1.59
40	BG	174	G	C5-C4	-6.52	1.33	1.38
85	AA	15	U	C2'-C1'	-6.52	1.46	1.53
85	AA	530	A	O3'-P	-6.52	1.53	1.61
85	AA	972	G	C2'-C1'	-6.52	1.46	1.53
34	BA	1092	U	N3-C4	-6.52	1.32	1.38
35	BB	135	C	C2-N3	-6.52	1.30	1.35
35	BB	1037	A	O3'-P	-6.52	1.53	1.61
35	BB	1071	G	N7-C5	-6.52	1.35	1.39
36	BC	147	G	C3'-C2'	-6.52	1.45	1.52
37	BD	77	A	O3'-P	-6.52	1.53	1.61
85	AA	1722	G	N9-C4	-6.52	1.32	1.38
85	AA	2054	G	C1'-N9	-6.52	1.37	1.46
85	AA	2222	G	C1'-N9	-6.52	1.37	1.46
34	BA	453	A	C1'-N9	-6.51	1.37	1.46
34	BA	581	U	C3'-C2'	6.51	1.60	1.52
34	BA	1413	G	N9-C8	-6.51	1.33	1.37
34	BA	1688	G	O4'-C1'	-6.51	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	37	G	C2-N2	-6.51	1.28	1.34
85	AA	1117	G	C1'-N9	-6.51	1.37	1.46
85	AA	2218	G	C5-C4	-6.51	1.33	1.38
34	BA	244	A	N9-C4	-6.51	1.33	1.37
34	BA	307	C	O3'-P	-6.51	1.53	1.61
34	BA	1074	C	C2'-C1'	-6.51	1.46	1.53
34	BA	1696	G	C2'-C1'	-6.51	1.46	1.53
35	BB	599	U	O3'-P	-6.51	1.53	1.61
35	BB	1274	G	O3'-P	-6.51	1.53	1.61
85	AA	207	G	C6-N1	-6.51	1.34	1.39
85	AA	669	G	C2'-C1'	-6.51	1.46	1.53
85	AA	1698	A	N7-C5	-6.51	1.35	1.39
34	BA	589	A	C2'-C1'	-6.51	1.46	1.53
34	BA	628	U	C2-N3	-6.51	1.33	1.37
34	BA	804	G	C8-N7	-6.51	1.27	1.30
34	BA	940	C	C2'-C1'	-6.51	1.46	1.53
34	BA	1411	C	C3'-C2'	-6.51	1.45	1.52
34	BA	1590	G	N7-C5	-6.51	1.35	1.39
35	BB	426	A	N7-C5	-6.51	1.35	1.39
35	BB	582	G	C6-N1	-6.51	1.34	1.39
35	BB	1134	G	N7-C5	-6.51	1.35	1.39
35	BB	1498	G	C2-N3	-6.51	1.27	1.32
39	BF	13	U	C2'-C1'	-6.51	1.46	1.53
39	BF	29	U	P-O5'	-6.51	1.53	1.59
40	BG	59	G	N7-C5	-6.51	1.35	1.39
67	Bh	161	GLY	CA-C	-6.51	1.41	1.51
85	AA	2135	A	C3'-C2'	-6.51	1.45	1.52
34	BA	100	A	N3-C4	-6.51	1.30	1.34
34	BA	522	C	O3'-P	-6.51	1.53	1.61
34	BA	850	C	C2'-C1'	-6.51	1.46	1.53
35	BB	1016	C	O3'-P	-6.51	1.53	1.61
35	BB	1220	A	N7-C5	-6.51	1.35	1.39
35	BB	1302	C	C3'-C2'	-6.51	1.45	1.52
85	AA	2060	G	C1'-N9	-6.51	1.37	1.46
34	BA	575	U	C2-N3	-6.51	1.33	1.37
34	BA	1557	G	C2-N2	-6.51	1.28	1.34
35	BB	375	G	N1-C2	-6.51	1.32	1.37
35	BB	681	G	C6-N1	-6.51	1.34	1.39
85	AA	33	U	C2-N3	-6.51	1.33	1.37
85	AA	884	A	C5'-C4'	6.51	1.59	1.51
85	AA	1240	A	C8-N7	-6.51	1.26	1.31
85	AA	1499	G	C5-C4	-6.51	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1671	G	C2-N2	-6.51	1.28	1.34
34	BA	5	C	P-O5'	-6.51	1.53	1.59
34	BA	102	G	C4'-C3'	-6.51	1.46	1.53
34	BA	745	A	C2'-C1'	-6.51	1.46	1.53
34	BA	999	G	C6-N1	-6.51	1.34	1.39
34	BA	1588	U	N3-C4	-6.51	1.32	1.38
35	BB	1016	C	P-O5'	-6.51	1.53	1.59
35	BB	1168	G	C2-N2	-6.51	1.28	1.34
85	AA	48	G	N7-C5	-6.51	1.35	1.39
85	AA	357	C	N1-C6	-6.51	1.33	1.37
85	AA	674	U	C2-N3	-6.51	1.33	1.37
85	AA	982	G	O3'-P	-6.51	1.53	1.61
85	AA	1140	G	C1'-N9	-6.51	1.37	1.46
85	AA	1260	G	N9-C4	-6.51	1.32	1.38
85	AA	2169	C	C2'-C1'	-6.51	1.46	1.53
34	BA	1104	C	C2'-C1'	-6.50	1.46	1.53
36	BC	113	G	N1-C2	-6.50	1.32	1.37
38	BE	22	A	P-O5'	-6.50	1.53	1.59
85	AA	982	G	C2-N2	-6.50	1.28	1.34
85	AA	1443	U	C2-N3	-6.50	1.33	1.37
34	BA	515	U	C2-N3	-6.50	1.33	1.37
34	BA	1016	A	N3-C4	-6.50	1.30	1.34
34	BA	1271	C	C1'-N1	-6.50	1.37	1.46
35	BB	1157	G	C1'-N9	-6.50	1.37	1.46
35	BB	1375	G	N1-C2	-6.50	1.32	1.37
36	BC	6	G	C2-N2	-6.50	1.28	1.34
36	BC	119	G	N1-C2	-6.50	1.32	1.37
38	BE	194	A	C2'-C1'	-6.50	1.46	1.53
85	AA	922	A	C2'-C1'	-6.50	1.46	1.53
85	AA	1652	A	C2'-C1'	-6.50	1.46	1.53
34	BA	502	U	C4'-C3'	-6.50	1.46	1.53
34	BA	991	U	O3'-P	-6.50	1.53	1.61
34	BA	1292	A	O3'-P	-6.50	1.53	1.61
34	BA	1776	G	C2'-C1'	-6.50	1.46	1.53
35	BB	22	A	C2'-C1'	-6.50	1.46	1.53
35	BB	520	G	N9-C4	-6.50	1.32	1.38
35	BB	867	C	O3'-P	-6.50	1.53	1.61
35	BB	1446	C	C4-N4	-6.50	1.28	1.33
36	BC	96	A	C2'-C1'	-6.50	1.46	1.53
36	BC	114	C	C4'-C3'	-6.50	1.46	1.53
38	BE	116	U	C3'-C2'	-6.50	1.45	1.52
40	BG	81	G	C1'-N9	-6.50	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	124	C	P-O5'	-6.50	1.53	1.59
85	AA	1452	C	P-O5'	-6.50	1.53	1.59
85	AA	1633	A	O3'-P	-6.50	1.53	1.61
85	AA	2008	G	O4'-C1'	-6.50	1.33	1.41
34	BA	260	A	C8-N7	-6.50	1.27	1.31
34	BA	801	U	C2-N3	-6.50	1.33	1.37
34	BA	809	U	C1'-N1	-6.50	1.37	1.46
35	BB	364	U	C4-C5	-6.50	1.37	1.43
35	BB	708	C	C3'-C2'	-6.50	1.45	1.52
85	AA	1282	A	O4'-C1'	-6.50	1.33	1.41
34	BA	513	U	C2'-C1'	-6.50	1.46	1.53
34	BA	1176	C	N3-C4	-6.50	1.29	1.33
34	BA	1289	C	C2'-C1'	-6.50	1.46	1.53
34	BA	1806	A	C2'-C1'	-6.50	1.46	1.53
35	BB	1411	U	P-O5'	-6.50	1.53	1.59
35	BB	1541	G	C2'-C1'	-6.50	1.46	1.53
85	AA	505	U	C2-N3	-6.50	1.33	1.37
85	AA	971	U	O3'-P	-6.50	1.53	1.61
85	AA	1764	C	P-O5'	-6.50	1.53	1.59
85	AA	2044	A	N9-C4	-6.50	1.33	1.37
85	AA	2062	U	C4'-C3'	-6.50	1.46	1.53
34	BA	24	C	C1'-N1	-6.50	1.37	1.46
34	BA	186	G	C2'-C1'	-6.50	1.46	1.53
35	BB	444	U	C2-N3	-6.50	1.33	1.37
35	BB	567	G	C5-C4	-6.50	1.33	1.38
37	BD	27	A	C2'-C1'	-6.50	1.46	1.53
85	AA	1953	G	P-O5'	-6.50	1.53	1.59
85	AA	2152	C	P-O5'	-6.50	1.53	1.59
34	BA	1474	G	C5-C6	-6.50	1.35	1.42
85	AA	924	A	N9-C4	-6.50	1.33	1.37
85	AA	937	G	O3'-P	-6.50	1.53	1.61
34	BA	915	A	N7-C5	-6.49	1.35	1.39
34	BA	1724	G	C4'-C3'	6.49	1.60	1.53
34	BA	1801	G	O4'-C1'	-6.49	1.33	1.41
35	BB	614	U	C2-N3	-6.49	1.33	1.37
35	BB	675	U	C2-N3	-6.49	1.33	1.37
35	BB	1362	G	C2'-C1'	-6.49	1.46	1.53
36	BC	98	C	C2-N3	-6.49	1.30	1.35
38	BE	60	C	C2'-C1'	-6.49	1.46	1.53
38	BE	167	U	P-O5'	-6.49	1.53	1.59
85	AA	515	C	O4'-C1'	-6.49	1.33	1.41
85	AA	613	G	O3'-P	-6.49	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	852	C	O3'-P	-6.49	1.53	1.61
85	AA	903	G	C3'-C2'	-6.49	1.45	1.52
85	AA	2187	G	C6-N1	-6.49	1.35	1.39
34	BA	561	U	O3'-P	-6.49	1.53	1.61
34	BA	786	U	N1-C2	-6.49	1.32	1.38
34	BA	1556	A	N3-C4	-6.49	1.30	1.34
34	BA	1802	C	C2-N3	-6.49	1.30	1.35
35	BB	1267	C	C2'-C1'	-6.49	1.46	1.53
36	BC	140	U	C2'-C1'	-6.49	1.46	1.53
40	BG	33	G	N3-C4	-6.49	1.30	1.35
85	AA	1231	G	P-O5'	-6.49	1.53	1.59
34	BA	674	G	C4'-C3'	-6.49	1.46	1.53
34	BA	709	C	C2'-C1'	-6.49	1.46	1.53
34	BA	1475	G	C3'-O3'	-6.49	1.33	1.42
38	BE	187	G	C2'-C1'	-6.49	1.46	1.53
40	BG	61	A	C3'-C2'	-6.49	1.45	1.52
85	AA	77	C	C2'-C1'	-6.49	1.46	1.53
85	AA	110	U	O3'-P	-6.49	1.53	1.61
85	AA	305	A	C5'-C4'	6.49	1.59	1.51
85	AA	2109	G	C2-N2	-6.49	1.28	1.34
34	BA	224	G	C2'-C1'	-6.49	1.46	1.53
34	BA	1225	A	C6-N6	-6.49	1.28	1.33
34	BA	1635	A	N9-C4	6.49	1.41	1.37
35	BB	962	U	C2-N3	-6.49	1.33	1.37
36	BC	101	U	C1'-N1	-6.49	1.37	1.46
36	BC	162	C	C2-N3	-6.49	1.30	1.35
38	BE	106	C	C2'-C1'	-6.49	1.46	1.53
85	AA	106	G	N1-C2	-6.49	1.32	1.37
85	AA	1149	A	N9-C4	-6.49	1.33	1.37
34	BA	52	G	C4'-C3'	-6.49	1.46	1.53
41	BH	133	U	O4'-C1'	-6.49	1.33	1.41
85	AA	411	U	C1'-N1	-6.49	1.37	1.46
34	BA	45	A	O4'-C1'	-6.49	1.33	1.41
34	BA	937	G	C6-N1	-6.49	1.35	1.39
39	BF	38	C	C2'-C1'	-6.49	1.46	1.53
85	AA	404	A	N9-C4	-6.49	1.33	1.37
85	AA	757	A	N9-C4	-6.49	1.33	1.37
85	AA	1558	U	C3'-C2'	-6.49	1.45	1.52
34	BA	1080	U	C5'-C4'	6.48	1.59	1.51
34	BA	1476	G	O3'-P	-6.48	1.53	1.61
35	BB	728	A	O3'-P	-6.48	1.53	1.61
85	AA	2178	A	C3'-C2'	-6.48	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	427	G	N7-C5	-6.48	1.35	1.39
34	BA	484	A	O4'-C1'	-6.48	1.33	1.41
34	BA	686	U	O3'-P	-6.48	1.53	1.61
34	BA	1140	A	P-O5'	-6.48	1.53	1.59
34	BA	1800	G	C5-C4	-6.48	1.33	1.38
37	BD	66	G	C2'-C1'	-6.48	1.46	1.53
39	BF	24	G	N7-C5	-6.48	1.35	1.39
40	BG	161	C	C2-N3	-6.48	1.30	1.35
85	AA	55	A	C3'-C2'	-6.48	1.45	1.52
85	AA	469	G	C2'-C1'	-6.48	1.46	1.53
85	AA	929	G	C4'-C3'	-6.48	1.46	1.53
85	AA	1790	G	O3'-P	-6.48	1.53	1.61
85	AA	2083	G	C6-N1	-6.48	1.35	1.39
85	AA	2092	A	C5-C4	-6.48	1.34	1.38
85	AA	2131	C	O3'-P	-6.48	1.53	1.61
34	BA	362	G	N1-C2	-6.48	1.32	1.37
34	BA	660	C	O3'-P	-6.48	1.53	1.61
34	BA	1098	G	N9-C8	-6.48	1.33	1.37
34	BA	1550	G	N9-C4	-6.48	1.32	1.38
35	BB	1065	G	C2'-C1'	-6.48	1.46	1.53
35	BB	1314	G	C6-N1	-6.48	1.35	1.39
35	BB	1480	G	N9-C4	-6.48	1.32	1.38
36	BC	87	C	C2'-C1'	-6.48	1.46	1.53
38	BE	49	A	C6-N1	-6.48	1.31	1.35
85	AA	258	G	C1'-N9	-6.48	1.37	1.46
34	BA	1288	U	C4'-C3'	-6.48	1.46	1.53
35	BB	717	A	N9-C4	6.48	1.41	1.37
35	BB	1124	G	C6-N1	-6.48	1.35	1.39
85	AA	1001	G	C2'-C1'	-6.48	1.46	1.53
85	AA	1712	A	C1'-N9	-6.48	1.37	1.46
34	BA	1512	C	C1'-N1	-6.48	1.37	1.46
34	BA	1517	U	C4'-C3'	-6.48	1.46	1.53
35	BB	28	G	C6-N1	-6.48	1.35	1.39
35	BB	130	G	C5-C4	-6.48	1.33	1.38
35	BB	394	A	C1'-N9	-6.48	1.37	1.46
35	BB	682	U	C3'-C2'	-6.48	1.45	1.52
38	BE	202	C	P-O5'	-6.48	1.53	1.59
85	AA	154	U	C2-N3	-6.48	1.33	1.37
85	AA	616	A	C4'-C3'	-6.48	1.46	1.53
85	AA	1487	G	C2-N3	-6.48	1.27	1.32
34	BA	1739	G	N3-C4	-6.48	1.30	1.35
35	BB	624	A	C1'-N9	-6.48	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	151	C	O3'-P	-6.48	1.53	1.61
85	AA	766	G	C3'-C2'	-6.48	1.45	1.52
34	BA	112	C	C2'-C1'	-6.47	1.46	1.53
34	BA	192	G	C3'-C2'	-6.47	1.45	1.52
34	BA	344	G	P-O5'	-6.47	1.53	1.59
34	BA	1345	U	P-O5'	-6.47	1.53	1.59
34	BA	1634	A	O3'-P	-6.47	1.53	1.61
34	BA	1839	G	C6-N1	-6.47	1.35	1.39
35	BB	91	G	N3-C4	-6.47	1.30	1.35
35	BB	555	G	O3'-P	-6.47	1.53	1.61
35	BB	1254	G	N9-C8	-6.47	1.33	1.37
37	BD	92	G	C5-C4	-6.47	1.33	1.38
38	BE	142	A	O3'-P	-6.47	1.53	1.61
85	AA	634	U	O3'-P	-6.47	1.53	1.61
85	AA	1463	A	C5-C4	-6.47	1.34	1.38
85	AA	2082	C	C2'-C1'	-6.47	1.46	1.53
34	BA	269	G	C6-N1	-6.47	1.35	1.39
34	BA	329	G	C1'-N9	-6.47	1.37	1.46
34	BA	783	U	C4'-C3'	-6.47	1.46	1.53
34	BA	1246	G	C2'-C1'	-6.47	1.46	1.53
35	BB	451	A	N3-C4	-6.47	1.30	1.34
36	BC	96	A	C3'-C2'	-6.47	1.45	1.52
39	BF	8	C	O3'-P	-6.47	1.53	1.61
40	BG	84	U	O3'-P	-6.47	1.53	1.61
40	BG	146	C	P-O5'	-6.47	1.53	1.59
85	AA	430	G	O4'-C1'	-6.47	1.33	1.41
85	AA	552	C	O3'-P	-6.47	1.53	1.61
85	AA	1133	C	C2'-C1'	-6.47	1.46	1.53
85	AA	2228	G	C2-N2	-6.47	1.28	1.34
34	BA	668	G	C2'-C1'	-6.47	1.46	1.53
34	BA	748	C	C1'-N1	-6.47	1.37	1.46
34	BA	1039	G	N9-C4	-6.47	1.32	1.38
34	BA	1519	G	N1-C2	-6.47	1.32	1.37
34	BA	1555	G	C2-N3	-6.47	1.27	1.32
38	BE	199	A	C5-C4	-6.47	1.34	1.38
85	AA	824	C	O3'-P	-6.47	1.53	1.61
85	AA	1874	G	O3'-P	-6.47	1.53	1.61
34	BA	379	C	P-O5'	-6.47	1.53	1.59
34	BA	829	U	C2'-C1'	-6.47	1.46	1.53
35	BB	373	C	C2'-C1'	-6.47	1.46	1.53
35	BB	623	A	N9-C4	-6.47	1.33	1.37
35	BB	957	A	O3'-P	-6.47	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1191	G	N9-C4	-6.47	1.32	1.38
35	BB	1544	A	C5-C4	-6.47	1.34	1.38
36	BC	59	A	N9-C8	-6.47	1.32	1.37
36	BC	86	U	P-O5'	-6.47	1.53	1.59
38	BE	149	A	O3'-P	-6.47	1.53	1.61
41	BH	18	C	O3'-P	-6.47	1.53	1.61
85	AA	491	G	P-O5'	-6.47	1.53	1.59
35	BB	1435	G	C1'-N9	-6.47	1.37	1.46
40	BG	95	U	N3-C4	-6.47	1.32	1.38
40	BG	95	U	C4'-C3'	-6.47	1.46	1.53
34	BA	30	A	N9-C8	-6.47	1.32	1.37
34	BA	952	G	O3'-P	-6.47	1.53	1.61
34	BA	1052	G	C1'-N9	-6.47	1.37	1.46
34	BA	1104	C	P-O5'	-6.47	1.53	1.59
34	BA	1154	U	C4'-C3'	-6.47	1.46	1.53
35	BB	2	C	O3'-P	-6.47	1.53	1.61
35	BB	1298	C	P-O5'	-6.47	1.53	1.59
35	BB	1458	U	C2'-C1'	-6.47	1.46	1.53
38	BE	120	C	C2'-C1'	-6.47	1.46	1.53
40	BG	122	G	N9-C4	-6.47	1.32	1.38
85	AA	1190	G	C3'-C2'	-6.47	1.45	1.52
85	AA	2127	G	C3'-C2'	-6.47	1.45	1.52
34	BA	1023	G	N9-C4	-6.46	1.32	1.38
34	BA	1051	A	C2'-C1'	-6.46	1.46	1.53
34	BA	1236	U	O3'-P	-6.46	1.53	1.61
34	BA	1600	G	C5-C4	-6.46	1.33	1.38
34	BA	1604	A	C8-N7	-6.46	1.27	1.31
34	BA	1661	U	O4'-C1'	-6.46	1.33	1.41
35	BB	412	A	C2'-C1'	-6.46	1.46	1.53
35	BB	722	U	P-O5'	-6.46	1.53	1.59
35	BB	1404	A	C5-C4	-6.46	1.34	1.38
35	BB	1432	U	N3-C4	-6.46	1.32	1.38
85	AA	1576	G	P-O5'	-6.46	1.53	1.59
34	BA	47	U	O3'-P	-6.46	1.53	1.61
34	BA	1090	A	N9-C4	-6.46	1.33	1.37
35	BB	583	G	C6-N1	-6.46	1.35	1.39
35	BB	693	U	C2'-C1'	-6.46	1.46	1.53
38	BE	180	G	N9-C8	-6.46	1.33	1.37
85	AA	444	U	P-O5'	-6.46	1.53	1.59
85	AA	1898	C	O3'-P	-6.46	1.53	1.61
34	BA	57	A	C5-C6	-6.46	1.35	1.41
34	BA	1002	U	C2-N3	-6.46	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1566	G	C5-C6	-6.46	1.35	1.42
35	BB	429	C	O3'-P	-6.46	1.53	1.61
35	BB	1513	U	P-O5'	-6.46	1.53	1.59
36	BC	136	G	C3'-C2'	-6.46	1.45	1.52
38	BE	17	U	C2'-C1'	-6.46	1.46	1.53
38	BE	144	A	C1'-N9	-6.46	1.37	1.46
39	BF	71	G	C1'-N9	-6.46	1.37	1.46
40	BG	16	G	C4'-C3'	-6.46	1.46	1.53
85	AA	463	G	C5-C4	-6.46	1.33	1.38
37	BD	79	G	C5'-C4'	6.46	1.59	1.51
85	AA	1535	C	P-O5'	-6.46	1.53	1.59
34	BA	300	C	N1-C6	-6.46	1.33	1.37
34	BA	438	A	N7-C5	-6.46	1.35	1.39
35	BB	514	G	C6-N1	-6.46	1.35	1.39
35	BB	620	G	C4'-C3'	-6.46	1.46	1.53
35	BB	680	A	C5-C4	-6.46	1.34	1.38
35	BB	1057	G	C2'-C1'	-6.46	1.46	1.53
35	BB	1130	U	C3'-C2'	-6.46	1.45	1.52
36	BC	43	A	C1'-N9	-6.46	1.37	1.46
41	BH	44	A	O3'-P	-6.46	1.53	1.61
85	AA	420	C	N1-C6	-6.46	1.33	1.37
85	AA	805	A	N9-C4	6.46	1.41	1.37
85	AA	1868	G	C6-N1	-6.46	1.35	1.39
85	AA	2211	G	C3'-C2'	-6.46	1.45	1.52
86	AB	7	A	C2'-C1'	-6.46	1.46	1.53
34	BA	110	C	P-O5'	-6.46	1.53	1.59
34	BA	448	U	N3-C4	-6.46	1.32	1.38
34	BA	891	C	C1'-N1	-6.46	1.37	1.46
34	BA	1224	A	N7-C5	-6.46	1.35	1.39
34	BA	1572	G	C2'-C1'	-6.46	1.46	1.53
35	BB	363	A	C4'-C3'	-6.46	1.46	1.53
35	BB	1140	C	O3'-P	-6.46	1.53	1.61
35	BB	1207	C	C4'-O4'	-6.46	1.37	1.45
35	BB	1273	G	N9-C4	-6.46	1.32	1.38
37	BD	88	U	P-O5'	-6.46	1.53	1.59
38	BE	63	C	P-O5'	-6.46	1.53	1.59
38	BE	114	G	O3'-P	-6.46	1.53	1.61
85	AA	1106	A	O3'-P	-6.46	1.53	1.61
34	BA	378	C	C3'-C2'	-6.46	1.45	1.52
34	BA	722	A	P-O5'	-6.46	1.53	1.59
34	BA	749	G	C5-C4	-6.46	1.33	1.38
34	BA	1016	A	C5-C4	-6.46	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1428	G	O3'-P	-6.46	1.53	1.61
34	BA	1461	A	C5-C4	-6.46	1.34	1.38
35	BB	868	C	C2-N3	-6.46	1.30	1.35
85	AA	51	A	C2'-C1'	-6.46	1.46	1.53
85	AA	441	C	C2-N3	-6.46	1.30	1.35
85	AA	1488	G	C2'-C1'	-6.46	1.46	1.53
34	BA	499	C	C3'-C2'	-6.45	1.45	1.52
34	BA	617	G	C4'-C3'	-6.45	1.46	1.53
34	BA	743	A	O3'-P	-6.45	1.53	1.61
34	BA	1486	U	N1-C6	-6.45	1.32	1.38
34	BA	1653	G	C5-C4	-6.45	1.33	1.38
35	BB	125	G	N1-C2	-6.45	1.32	1.37
35	BB	1109	A	C1'-N9	-6.45	1.37	1.46
35	BB	1299	G	C6-N1	-6.45	1.35	1.39
35	BB	1478	G	C4'-C3'	-6.45	1.46	1.53
37	BD	2	G	C2'-C1'	-6.45	1.46	1.53
37	BD	3	G	N1-C2	-6.45	1.32	1.37
41	BH	17	A	C5'-C4'	-6.45	1.43	1.51
85	AA	487	G	C6-N1	-6.45	1.35	1.39
85	AA	1112	G	C2-N2	-6.45	1.28	1.34
34	BA	508	C	C2'-C1'	-6.45	1.46	1.53
34	BA	1572	G	P-O5'	-6.45	1.53	1.59
34	BA	1638	U	O3'-P	-6.45	1.53	1.61
35	BB	121	A	C6-N6	-6.45	1.28	1.33
35	BB	1032	U	C2'-C1'	-6.45	1.46	1.53
36	BC	154	A	C1'-N9	-6.45	1.37	1.46
34	BA	234	A	C8-N7	-6.45	1.27	1.31
34	BA	369	A	N9-C4	-6.45	1.33	1.37
34	BA	1322	A	N7-C5	-6.45	1.35	1.39
34	BA	1428	G	C1'-N9	-6.45	1.37	1.46
34	BA	1804	A	C8-N7	-6.45	1.27	1.31
35	BB	124	G	C2-N2	-6.45	1.28	1.34
35	BB	137	A	C5-C4	-6.45	1.34	1.38
35	BB	494	C	C1'-N1	-6.45	1.37	1.46
35	BB	681	G	P-O5'	-6.45	1.53	1.59
35	BB	1187	G	N3-C4	-6.45	1.30	1.35
37	BD	98	G	C5-C4	-6.45	1.33	1.38
40	BG	165	C	C2'-C1'	-6.45	1.46	1.53
85	AA	2138	G	C5-C4	-6.45	1.33	1.38
34	BA	51	C	C4-N4	-6.45	1.28	1.33
34	BA	102	G	O3'-P	-6.45	1.53	1.61
34	BA	1465	C	C1'-N1	-6.45	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1570	C	C2'-C1'	-6.45	1.46	1.53
35	BB	307	A	N9-C4	-6.45	1.33	1.37
35	BB	430	A	C3'-C2'	-6.45	1.45	1.52
35	BB	875	G	C2'-C1'	-6.45	1.46	1.53
35	BB	1230	A	N9-C4	-6.45	1.33	1.37
35	BB	1405	G	C2'-C1'	-6.45	1.46	1.53
37	BD	61	C	C3'-C2'	-6.45	1.45	1.52
38	BE	178	G	C5-C4	-6.45	1.33	1.38
40	BG	52	A	N7-C5	-6.45	1.35	1.39
85	AA	56	U	O3'-P	-6.45	1.53	1.61
85	AA	392	G	C3'-C2'	-6.45	1.45	1.52
85	AA	409	C	C2-N3	-6.45	1.30	1.35
85	AA	452	A	C5-C4	-6.45	1.34	1.38
85	AA	1299	A	C1'-N9	-6.45	1.37	1.46
85	AA	1645	G	C2'-C1'	-6.45	1.46	1.53
85	AA	2105	G	C2'-C1'	-6.45	1.46	1.53
34	BA	334	G	N1-C2	-6.45	1.32	1.37
40	BG	66	C	C2-N3	-6.45	1.30	1.35
85	AA	410	A	N3-C4	-6.45	1.30	1.34
85	AA	2008	G	C2'-C1'	-6.45	1.46	1.53
34	BA	544	U	C4-C5	-6.45	1.37	1.43
34	BA	1207	A	O3'-P	-6.45	1.53	1.61
35	BB	578	G	C3'-C2'	-6.45	1.45	1.52
35	BB	679	G	C5-C4	-6.45	1.33	1.38
35	BB	1212	C	C3'-C2'	-6.45	1.45	1.52
36	BC	116	C	C1'-N1	-6.45	1.37	1.46
38	BE	69	C	C2'-C1'	-6.45	1.46	1.53
85	AA	725	G	C2'-C1'	-6.45	1.46	1.53
85	AA	1175	A	C2'-C1'	-6.45	1.46	1.53
34	BA	81	C	C1'-N1	-6.44	1.37	1.46
34	BA	257	G	C5'-C4'	-6.44	1.43	1.51
34	BA	1279	U	C1'-N1	-6.44	1.37	1.46
35	BB	830	G	C5-C4	-6.44	1.33	1.38
39	BF	66	C	O3'-P	-6.44	1.53	1.61
85	AA	171	U	O3'-P	-6.44	1.53	1.61
34	BA	42	A	C3'-C2'	-6.44	1.45	1.52
34	BA	525	A	C5-C4	-6.44	1.34	1.38
34	BA	696	A	C4'-C3'	-6.44	1.46	1.53
34	BA	1237	U	O3'-P	-6.44	1.53	1.61
34	BA	1275	G	C1'-N9	-6.44	1.37	1.46
35	BB	77	A	C3'-C2'	-6.44	1.45	1.52
35	BB	360	C	O3'-P	-6.44	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	368	C	C3'-C2'	-6.44	1.45	1.52
35	BB	441	G	N7-C5	-6.44	1.35	1.39
35	BB	596	C	O3'-P	-6.44	1.53	1.61
35	BB	804	U	C2-N3	-6.44	1.33	1.37
35	BB	1268	C	C3'-C2'	-6.44	1.45	1.52
35	BB	1383	C	P-O5'	-6.44	1.53	1.59
37	BD	48	G	C2'-C1'	-6.44	1.46	1.53
38	BE	124	G	N9-C8	-6.44	1.33	1.37
41	BH	115	A	N9-C4	-6.44	1.33	1.37
85	AA	128	U	C4'-C3'	-6.44	1.46	1.53
85	AA	396	U	C4'-C3'	-6.44	1.46	1.53
85	AA	404	A	C4'-C3'	-6.44	1.46	1.53
85	AA	866	U	P-O5'	-6.44	1.53	1.59
85	AA	1004	G	N7-C5	-6.44	1.35	1.39
85	AA	1108	U	P-O5'	-6.44	1.53	1.59
85	AA	2237	G	C6-N1	-6.44	1.35	1.39
34	BA	357	A	C1'-N9	-6.44	1.37	1.46
34	BA	471	U	C4'-O4'	-6.44	1.37	1.45
34	BA	718	U	C2-N3	-6.44	1.33	1.37
34	BA	1418	G	C1'-N9	-6.44	1.37	1.46
35	BB	612	A	P-O5'	-6.44	1.53	1.59
35	BB	1118	G	C1'-N9	-6.44	1.37	1.46
37	BD	70	C	O3'-P	-6.44	1.53	1.61
40	BG	87	G	C2'-C1'	-6.44	1.46	1.53
40	BG	89	A	C4'-C3'	-6.44	1.46	1.53
85	AA	1144	G	C2-N2	-6.44	1.28	1.34
85	AA	2056	C	O3'-P	-6.44	1.53	1.61
85	AA	2123	U	O3'-P	-6.44	1.53	1.61
34	BA	38	G	N3-C4	-6.44	1.30	1.35
34	BA	495	A	C1'-N9	-6.44	1.37	1.46
34	BA	881	C	N1-C6	-6.44	1.33	1.37
35	BB	602	G	N9-C4	-6.44	1.32	1.38
35	BB	1416	A	C5-C4	-6.44	1.34	1.38
36	BC	83	A	O3'-P	-6.44	1.53	1.61
85	AA	846	U	P-O5'	-6.44	1.53	1.59
85	AA	1240	A	N7-C5	-6.44	1.35	1.39
85	AA	2113	U	C3'-C2'	-6.44	1.45	1.52
34	BA	196	A	N9-C8	-6.44	1.32	1.37
34	BA	280	A	C5-C6	-6.44	1.35	1.41
34	BA	1601	C	C4'-C3'	-6.44	1.46	1.53
35	BB	71	A	C2'-C1'	-6.44	1.46	1.53
35	BB	998	G	C1'-N9	-6.44	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1100	C	C4-N4	-6.44	1.28	1.33
36	BC	21	U	C1'-N1	-6.44	1.37	1.46
40	BG	114	A	O3'-P	-6.44	1.53	1.61
85	AA	722	G	N9-C4	-6.44	1.32	1.38
85	AA	2012	G	O3'-P	-6.44	1.53	1.61
34	BA	308	C	C2'-C1'	-6.44	1.46	1.53
34	BA	1191	C	C2-N3	-6.44	1.30	1.35
34	BA	1463	U	C3'-C2'	-6.44	1.45	1.52
34	BA	1844	U	O3'-P	-6.44	1.53	1.61
35	BB	408	U	O3'-P	-6.44	1.53	1.61
38	BE	197	A	N9-C8	-6.44	1.32	1.37
39	BF	27	G	C1'-N9	-6.44	1.37	1.46
40	BG	181	C	C4'-C3'	-6.44	1.46	1.53
85	AA	23	G	C3'-C2'	-6.44	1.45	1.52
85	AA	24	U	N1-C6	-6.44	1.32	1.38
85	AA	662	U	N1-C2	-6.44	1.32	1.38
34	BA	729	C	O3'-P	-6.43	1.53	1.61
36	BC	78	G	C6-N1	-6.43	1.35	1.39
37	BD	44	U	C2-N3	-6.43	1.33	1.37
41	BH	115	A	C1'-N9	-6.43	1.37	1.46
85	AA	711	C	C2-N3	-6.43	1.30	1.35
85	AA	781	G	C2'-C1'	-6.43	1.46	1.53
85	AA	1719	C	O3'-P	-6.43	1.53	1.61
34	BA	138	C	C4'-C3'	-6.43	1.46	1.53
34	BA	423	G	P-O5'	-6.43	1.53	1.59
34	BA	682	A	N7-C5	-6.43	1.35	1.39
34	BA	1285	G	C2-N2	-6.43	1.28	1.34
35	BB	369	A	O3'-P	-6.43	1.53	1.61
36	BC	71	A	O3'-P	-6.43	1.53	1.61
85	AA	331	G	C6-N1	-6.43	1.35	1.39
41	BH	113	G	C5-C6	-6.43	1.35	1.42
34	BA	7	U	N1-C2	6.43	1.44	1.38
34	BA	536	C	P-O5'	-6.43	1.53	1.59
34	BA	1436	A	N9-C4	-6.43	1.33	1.37
34	BA	1579	G	N1-C2	-6.43	1.32	1.37
35	BB	1248	A	O3'-P	-6.43	1.53	1.61
85	AA	110	U	C1'-N1	-6.43	1.37	1.46
85	AA	145	C	C4'-C3'	-6.43	1.46	1.53
85	AA	247	G	P-O5'	-6.43	1.53	1.59
85	AA	503	A	P-O5'	-6.43	1.53	1.59
85	AA	613	G	C4'-C3'	-6.43	1.46	1.53
85	AA	818	C	C2-N3	-6.43	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1111	A	C5-C4	-6.43	1.34	1.38
34	BA	797	A	N7-C5	-6.43	1.35	1.39
35	BB	579	A	C5-C6	-6.43	1.35	1.41
85	AA	307	G	O3'-P	6.43	1.68	1.61
34	BA	102	G	C2-N2	-6.43	1.28	1.34
34	BA	423	G	C1'-N9	-6.43	1.37	1.46
34	BA	1064	A	C3'-C2'	-6.43	1.45	1.52
34	BA	1294	C	P-O5'	-6.43	1.53	1.59
34	BA	1634	A	C5'-C4'	6.43	1.59	1.51
34	BA	1664	C	C2'-C1'	-6.43	1.46	1.53
35	BB	18	A	N7-C5	-6.43	1.35	1.39
35	BB	46	U	O3'-P	-6.43	1.53	1.61
35	BB	1078	U	C3'-C2'	-6.43	1.45	1.52
38	BE	45	G	C2-N2	-6.43	1.28	1.34
40	BG	106	G	C2'-C1'	-6.43	1.46	1.53
85	AA	89	C	O3'-P	-6.43	1.53	1.61
85	AA	361	U	O3'-P	-6.43	1.53	1.61
85	AA	621	U	C3'-C2'	-6.43	1.45	1.52
85	AA	670	C	C2-N3	-6.43	1.30	1.35
85	AA	1369	U	P-O5'	-6.43	1.53	1.59
85	AA	1951	U	O3'-P	-6.43	1.53	1.61
85	AA	2131	C	C2'-C1'	-6.43	1.46	1.53
85	AA	2183	U	C4'-C3'	-6.43	1.46	1.53
34	BA	380	A	P-O5'	-6.42	1.53	1.59
34	BA	1098	G	C1'-N9	-6.42	1.37	1.46
35	BB	87	G	C2-N3	-6.42	1.27	1.32
35	BB	1141	A	C4'-C3'	-6.42	1.46	1.53
35	BB	1497	C	C3'-C2'	-6.42	1.45	1.52
41	BH	16	A	C2'-C1'	-6.42	1.46	1.53
85	AA	1184	A	O3'-P	-6.42	1.53	1.61
85	AA	1902	C	C2'-C1'	-6.42	1.46	1.53
34	BA	651	U	P-O5'	-6.42	1.53	1.59
34	BA	947	A	P-O5'	-6.42	1.53	1.59
34	BA	1032	A	C2'-C1'	-6.42	1.46	1.53
34	BA	1074	C	C2-N3	-6.42	1.30	1.35
34	BA	1653	G	C3'-C2'	-6.42	1.45	1.52
34	BA	1667	G	O3'-P	-6.42	1.53	1.61
34	BA	1825	U	N1-C2	-6.42	1.32	1.38
35	BB	365	U	C2-N3	-6.42	1.33	1.37
35	BB	380	G	N3-C4	-6.42	1.30	1.35
35	BB	640	A	C2'-C1'	-6.42	1.46	1.53
35	BB	1143	A	C2'-C1'	-6.42	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1159	U	P-O5'	-6.42	1.53	1.59
35	BB	1202	G	N3-C4	6.42	1.40	1.35
40	BG	71	C	C5-C6	-6.42	1.29	1.34
34	BA	769	U	C3'-C2'	6.42	1.60	1.52
34	BA	1473	A	C5-C4	-6.42	1.34	1.38
34	BA	1501	U	C1'-N1	-6.42	1.37	1.46
34	BA	1647	G	N9-C8	-6.42	1.33	1.37
34	BA	1813	C	C2-N3	-6.42	1.30	1.35
35	BB	620	G	C5-C4	-6.42	1.33	1.38
35	BB	1185	G	C3'-C2'	-6.42	1.45	1.52
35	BB	1345	A	P-O5'	-6.42	1.53	1.59
40	BG	13	A	O3'-P	-6.42	1.53	1.61
40	BG	150	A	C1'-N9	-6.42	1.37	1.46
41	BH	53	C	O3'-P	-6.42	1.53	1.61
85	AA	140	C	O3'-P	-6.42	1.53	1.61
85	AA	776	C	P-O5'	-6.42	1.53	1.59
85	AA	906	U	O3'-P	-6.42	1.53	1.61
85	AA	1228	A	N9-C8	-6.42	1.32	1.37
85	AA	2174	G	C5-C4	-6.42	1.33	1.38
37	BD	28	C	C2'-C1'	-6.42	1.46	1.53
38	BE	19	G	C2-N2	-6.42	1.28	1.34
85	AA	374	C	O3'-P	-6.42	1.53	1.61
85	AA	2011	C	O3'-P	-6.42	1.53	1.61
34	BA	38	G	P-O5'	-6.42	1.53	1.59
34	BA	189	G	N7-C5	-6.42	1.35	1.39
34	BA	806	U	C2'-C1'	-6.42	1.46	1.53
34	BA	1344	G	C2'-C1'	-6.42	1.46	1.53
34	BA	1628	A	P-O5'	-6.42	1.53	1.59
34	BA	1639	U	N3-C4	-6.42	1.32	1.38
34	BA	1707	C	N1-C6	-6.42	1.33	1.37
35	BB	48	G	P-O5'	-6.42	1.53	1.59
35	BB	465	C	C2-N3	-6.42	1.30	1.35
35	BB	856	U	C2'-C1'	-6.42	1.46	1.53
35	BB	1168	G	C4'-O4'	-6.42	1.37	1.45
35	BB	1371	G	C3'-C2'	-6.42	1.45	1.52
35	BB	1393	C	P-O5'	-6.42	1.53	1.59
35	BB	1394	A	C1'-N9	-6.42	1.37	1.46
37	BD	81	C	C5'-C4'	-6.42	1.43	1.51
39	BF	56	C	C2'-C1'	6.42	1.60	1.53
41	BH	31	A	C4'-O4'	-6.42	1.37	1.45
85	AA	113	U	C2'-C1'	-6.42	1.46	1.53
85	AA	160	A	N3-C4	-6.42	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	536	C	O3'-P	-6.42	1.53	1.61
85	AA	1130	G	C2-N2	-6.42	1.28	1.34
85	AA	1763	G	P-O5'	-6.42	1.53	1.59
34	BA	12	G	N7-C5	-6.42	1.35	1.39
34	BA	927	A	C5-C4	-6.42	1.34	1.38
34	BA	1062	G	C2-N2	-6.42	1.28	1.34
34	BA	1246	G	C6-N1	-6.42	1.35	1.39
35	BB	411	A	C8-N7	-6.42	1.27	1.31
35	BB	579	A	C2'-C1'	-6.42	1.46	1.53
35	BB	1505	U	P-O5'	-6.42	1.53	1.59
40	BG	148	C	N1-C2	-6.42	1.33	1.40
85	AA	117	C	O3'-P	-6.42	1.53	1.61
85	AA	395	G	C6-N1	-6.42	1.35	1.39
85	AA	757	A	C2'-C1'	-6.42	1.46	1.53
85	AA	1122	U	C2'-C1'	-6.42	1.46	1.53
85	AA	1244	A	C5-C4	-6.42	1.34	1.38
85	AA	1456	A	C8-N7	-6.42	1.27	1.31
34	BA	425	G	N7-C5	-6.42	1.35	1.39
34	BA	1437	G	N1-C2	-6.42	1.32	1.37
34	BA	43	U	C2-N3	-6.41	1.33	1.37
34	BA	386	A	O3'-P	-6.41	1.53	1.61
34	BA	1409	A	O3'-P	-6.41	1.53	1.61
34	BA	1656	A	O3'-P	-6.41	1.53	1.61
34	BA	1706	A	C3'-C2'	-6.41	1.45	1.52
35	BB	852	G	C6-N1	-6.41	1.35	1.39
38	BE	43	A	C6-N1	-6.41	1.31	1.35
34	BA	33	C	C4'-C3'	-6.41	1.46	1.53
34	BA	1819	U	C2'-C1'	-6.41	1.46	1.53
34	BA	1837	U	N3-C4	-6.41	1.32	1.38
35	BB	104	G	C1'-N9	-6.41	1.37	1.46
35	BB	310	U	P-O5'	-6.41	1.53	1.59
35	BB	435	A	C8-N7	-6.41	1.27	1.31
35	BB	505	G	N7-C5	-6.41	1.35	1.39
35	BB	587	A	C3'-C2'	-6.41	1.45	1.52
39	BF	53	G	C2'-C1'	-6.41	1.46	1.53
85	AA	648	G	C5-C4	-6.41	1.33	1.38
85	AA	1153	G	C5-C6	-6.41	1.35	1.42
85	AA	1451	U	P-O5'	-6.41	1.53	1.59
85	AA	1554	C	C2-N3	-6.41	1.30	1.35
34	BA	611	A	C4'-C3'	-6.41	1.46	1.53
34	BA	714	G	O3'-P	-6.41	1.53	1.61
34	BA	881	C	C2-N3	-6.41	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	974	G	O3'-P	-6.41	1.53	1.61
34	BA	1014	A	C6-N1	-6.41	1.31	1.35
34	BA	1051	A	N9-C4	-6.41	1.34	1.37
34	BA	1114	G	N1-C2	-6.41	1.32	1.37
35	BB	528	G	N9-C4	-6.41	1.32	1.38
35	BB	1336	G	C5-C4	-6.41	1.33	1.38
35	BB	1485	G	N1-C2	-6.41	1.32	1.37
35	BB	1507	U	C4'-C3'	-6.41	1.46	1.53
36	BC	102	G	C1'-N9	-6.41	1.37	1.46
38	BE	161	G	C2'-C1'	-6.41	1.46	1.53
40	BG	117	C	O3'-P	-6.41	1.53	1.61
85	AA	6	G	O3'-P	-6.41	1.53	1.61
85	AA	157	G	C6-N1	-6.41	1.35	1.39
85	AA	943	U	C4-C5	-6.41	1.37	1.43
34	BA	151	A	C5'-C4'	6.41	1.59	1.51
34	BA	309	U	P-O5'	-6.41	1.53	1.59
34	BA	672	G	N7-C5	-6.41	1.35	1.39
34	BA	709	C	C3'-C2'	-6.41	1.45	1.52
34	BA	1033	G	C2-N2	-6.41	1.28	1.34
34	BA	1091	U	C3'-C2'	-6.41	1.45	1.52
34	BA	1486	U	C3'-C2'	-6.41	1.45	1.52
34	BA	1784	G	C2-N2	-6.41	1.28	1.34
35	BB	697	G	C1'-N9	-6.41	1.37	1.46
35	BB	1048	A	O3'-P	-6.41	1.53	1.61
35	BB	1483	A	C8-N7	-6.41	1.27	1.31
39	BF	28	C	C3'-C2'	-6.41	1.45	1.52
85	AA	665	A	C1'-N9	-6.41	1.37	1.46
85	AA	1199	C	N1-C6	-6.41	1.33	1.37
85	AA	1262	A	N7-C5	-6.41	1.35	1.39
34	BA	457	A	O3'-P	-6.41	1.53	1.61
34	BA	515	U	C1'-N1	-6.41	1.37	1.46
34	BA	1505	G	N3-C4	-6.41	1.30	1.35
34	BA	1641	G	C2-N3	-6.41	1.27	1.32
37	BD	37	G	O3'-P	-6.41	1.53	1.61
37	BD	74	A	N7-C5	-6.41	1.35	1.39
40	BG	116	G	P-O5'	-6.41	1.53	1.59
41	BH	21	G	N1-C2	-6.41	1.32	1.37
85	AA	104	C	C1'-N1	-6.41	1.37	1.46
85	AA	1238	U	C4'-C3'	-6.41	1.46	1.53
34	BA	910	U	C1'-N1	-6.41	1.37	1.46
34	BA	1016	A	N7-C5	-6.41	1.35	1.39
34	BA	1178	U	N3-C4	-6.41	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1497	A	O4'-C1'	-6.41	1.33	1.41
34	BA	1610	A	C4'-O4'	-6.41	1.37	1.45
35	BB	59	U	O4'-C1'	-6.41	1.33	1.41
35	BB	376	A	N3-C4	-6.41	1.31	1.34
40	BG	91	U	O3'-P	-6.41	1.53	1.61
41	BH	21	G	C2-N2	-6.41	1.28	1.34
41	BH	41	A	O3'-P	-6.41	1.53	1.61
85	AA	1215	A	C2'-C1'	-6.41	1.46	1.53
85	AA	1347	C	P-O5'	-6.41	1.53	1.59
34	BA	93	A	C3'-C2'	-6.40	1.45	1.52
34	BA	957	A	N3-C4	-6.40	1.31	1.34
35	BB	1163	U	O3'-P	-6.40	1.53	1.61
38	BE	104	G	C5'-C4'	6.40	1.59	1.51
85	AA	1493	A	C4'-O4'	-6.40	1.37	1.45
34	BA	253	U	N3-C4	-6.40	1.32	1.38
34	BA	588	C	C4'-O4'	-6.40	1.37	1.45
34	BA	1011	G	C8-N7	-6.40	1.27	1.30
34	BA	1201	G	N7-C5	-6.40	1.35	1.39
34	BA	1322	A	C4'-C3'	-6.40	1.46	1.53
34	BA	1584	G	N7-C5	-6.40	1.35	1.39
34	BA	1660	A	O3'-P	-6.40	1.53	1.61
35	BB	1161	G	N7-C5	-6.40	1.35	1.39
35	BB	1297	G	C4'-C3'	-6.40	1.46	1.53
37	BD	78	C	N3-C4	-6.40	1.29	1.33
85	AA	460	U	C3'-C2'	-6.40	1.45	1.52
85	AA	1502	A	C4'-C3'	-6.40	1.46	1.53
85	AA	1690	A	C1'-N9	-6.40	1.37	1.46
85	AA	2021	A	N7-C5	-6.40	1.35	1.39
34	BA	214	A	O4'-C1'	-6.40	1.33	1.41
34	BA	957	A	N9-C4	-6.40	1.34	1.37
34	BA	1295	U	O4'-C1'	-6.40	1.33	1.41
34	BA	1686	G	C6-N1	-6.40	1.35	1.39
34	BA	1712	U	P-O5'	-6.40	1.53	1.59
35	BB	417	A	N7-C5	-6.40	1.35	1.39
35	BB	710	A	C2'-C1'	-6.40	1.46	1.53
37	BD	9	C	C1'-N1	-6.40	1.37	1.46
39	BF	46	G	C2'-C1'	-6.40	1.46	1.53
40	BG	16	G	C5-C4	-6.40	1.33	1.38
40	BG	66	C	N1-C6	-6.40	1.33	1.37
40	BG	157	A	C8-N7	-6.40	1.27	1.31
40	BG	160	C	P-O5'	-6.40	1.53	1.59
85	AA	498	C	C3'-C2'	-6.40	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	835	C	C2'-C1'	-6.40	1.46	1.53
85	AA	1174	G	C2-N2	-6.40	1.28	1.34
85	AA	1519	A	N3-C4	-6.40	1.31	1.34
34	BA	990	G	C2-N2	-6.40	1.28	1.34
35	BB	670	G	C1'-N9	-6.40	1.37	1.46
35	BB	1280	U	N3-C4	-6.40	1.32	1.38
35	BB	1297	G	C6-N1	-6.40	1.35	1.39
38	BE	13	A	C3'-C2'	-6.40	1.45	1.52
38	BE	75	C	N1-C6	-6.40	1.33	1.37
85	AA	397	G	C6-N1	-6.40	1.35	1.39
85	AA	464	A	C5-C6	-6.40	1.35	1.41
85	AA	495	G	C2'-C1'	-6.40	1.46	1.53
85	AA	2196	G	C2'-C1'	-6.40	1.46	1.53
34	BA	1496	G	N7-C5	-6.40	1.35	1.39
35	BB	5	A	C3'-C2'	-6.40	1.45	1.52
35	BB	124	G	N3-C4	-6.40	1.30	1.35
35	BB	1123	A	C2'-C1'	-6.40	1.46	1.53
41	BH	38	G	N9-C8	-6.40	1.33	1.37
85	AA	709	A	C1'-N9	-6.40	1.37	1.46
85	AA	2114	U	P-O5'	-6.40	1.53	1.59
34	BA	128	C	C4'-C3'	-6.40	1.46	1.53
34	BA	572	G	C2'-C1'	6.40	1.60	1.53
34	BA	1050	A	C3'-C2'	-6.40	1.45	1.52
34	BA	1474	G	C1'-N9	-6.40	1.37	1.46
34	BA	1523	U	N3-C4	-6.40	1.32	1.38
41	BH	58	C	O3'-P	-6.40	1.53	1.61
85	AA	66	U	O3'-P	-6.40	1.53	1.61
85	AA	880	A	C6-N1	-6.40	1.31	1.35
34	BA	982	A	N3-C4	-6.39	1.31	1.34
34	BA	1312	A	N9-C4	-6.39	1.34	1.37
34	BA	1600	G	C2-N2	-6.39	1.28	1.34
35	BB	1197	G	N9-C4	-6.39	1.32	1.38
36	BC	59	A	C1'-N9	-6.39	1.37	1.46
37	BD	87	G	C3'-C2'	-6.39	1.45	1.52
85	AA	533	C	O3'-P	-6.39	1.53	1.61
85	AA	1509	A	C5-C6	-6.39	1.35	1.41
34	BA	306	G	C1'-N9	-6.39	1.37	1.46
34	BA	1564	A	C1'-N9	-6.39	1.38	1.46
34	BA	1800	G	C2-N2	-6.39	1.28	1.34
35	BB	1047	C	P-O5'	-6.39	1.53	1.59
35	BB	1434	G	C5-C4	-6.39	1.33	1.38
40	BG	73	U	C1'-N1	-6.39	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	11	A	N7-C5	-6.39	1.35	1.39
85	AA	88	G	N1-C2	-6.39	1.32	1.37
85	AA	105	A	C2'-C1'	-6.39	1.46	1.53
85	AA	155	U	P-O5'	-6.39	1.53	1.59
85	AA	1185	G	C2'-C1'	-6.39	1.46	1.53
85	AA	1272	G	N9-C4	-6.39	1.32	1.38
85	AA	1444	U	O3'-P	-6.39	1.53	1.61
85	AA	1925	A	O4'-C1'	-6.39	1.33	1.41
34	BA	88	C	C2'-C1'	-6.39	1.46	1.53
34	BA	185	A	O4'-C1'	-6.39	1.33	1.41
34	BA	742	C	O3'-P	-6.39	1.53	1.61
34	BA	946	A	C2'-C1'	-6.39	1.46	1.53
85	AA	268	A	C3'-C2'	-6.39	1.45	1.52
85	AA	388	G	P-O5'	-6.39	1.53	1.59
85	AA	776	C	O3'-P	-6.39	1.53	1.61
34	BA	475	A	N7-C5	-6.39	1.35	1.39
34	BA	531	C	C3'-C2'	-6.39	1.45	1.52
34	BA	1403	G	C2-N2	-6.39	1.28	1.34
34	BA	1552	C	C1'-N1	-6.39	1.38	1.46
34	BA	1684	A	C2'-C1'	-6.39	1.46	1.53
34	BA	1691	G	C1'-N9	-6.39	1.38	1.46
35	BB	1156	U	O3'-P	-6.39	1.53	1.61
35	BB	1288	G	C1'-N9	-6.39	1.38	1.46
37	BD	30	A	C5-C4	-6.39	1.34	1.38
38	BE	3	G	C6-N1	-6.39	1.35	1.39
40	BG	112	C	C2-N3	-6.39	1.30	1.35
85	AA	185	A	C3'-C2'	-6.39	1.45	1.52
85	AA	423	G	C3'-C2'	-6.39	1.45	1.52
85	AA	550	G	N9-C4	-6.39	1.32	1.38
85	AA	665	A	N9-C4	-6.39	1.34	1.37
85	AA	1198	U	C4'-C3'	-6.39	1.46	1.53
85	AA	1484	G	C1'-N9	-6.39	1.38	1.46
85	AA	1496	U	O3'-P	-6.39	1.53	1.61
86	AB	26	A	P-O5'	-6.39	1.53	1.59
35	BB	1516	C	C2-N3	-6.39	1.30	1.35
37	BD	115	A	N9-C4	-6.39	1.34	1.37
85	AA	706	U	C2'-C1'	-6.39	1.46	1.53
85	AA	1519	A	C2'-C1'	-6.39	1.46	1.53
85	AA	1752	C	O3'-P	-6.39	1.53	1.61
34	BA	51	C	C4'-C3'	-6.39	1.46	1.53
34	BA	275	C	C1'-N1	-6.39	1.38	1.46
34	BA	747	G	C6-N1	-6.39	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	907	A	C2'-C1'	-6.39	1.46	1.53
34	BA	1500	G	O3'-P	-6.39	1.53	1.61
34	BA	1503	U	P-O5'	-6.39	1.53	1.59
35	BB	374	A	P-O5'	-6.39	1.53	1.59
35	BB	1371	G	C5-C4	-6.39	1.33	1.38
35	BB	1538	G	C5-C4	-6.39	1.33	1.38
38	BE	161	G	C4'-O4'	-6.39	1.37	1.45
40	BG	17	A	C4'-O4'	-6.39	1.37	1.45
40	BG	42	A	N9-C4	-6.39	1.34	1.37
86	AB	51	U	O3'-P	-6.39	1.53	1.61
34	BA	1632	G	C2-N2	-6.38	1.28	1.34
34	BA	1667	G	C4'-C3'	-6.38	1.46	1.53
35	BB	1430	G	N1-C2	-6.38	1.32	1.37
41	BH	107	A	O3'-P	-6.38	1.53	1.61
85	AA	23	G	C4'-C3'	6.38	1.60	1.53
85	AA	367	A	O3'-P	-6.38	1.53	1.61
85	AA	1002	G	N7-C5	-6.38	1.35	1.39
85	AA	1999	C	C2'-C1'	-6.38	1.46	1.53
34	BA	244	A	C5-C4	-6.38	1.34	1.38
34	BA	629	G	N7-C5	-6.38	1.35	1.39
34	BA	958	G	C6-N1	-6.38	1.35	1.39
35	BB	104	G	O3'-P	-6.38	1.53	1.61
35	BB	1253	U	C1'-N1	-6.38	1.38	1.46
35	BB	1461	C	P-O5'	-6.38	1.53	1.59
40	BG	77	U	N1-C2	-6.38	1.32	1.38
40	BG	82	U	O4'-C1'	-6.38	1.33	1.41
85	AA	125	A	N9-C4	-6.38	1.34	1.37
85	AA	662	U	C2'-C1'	-6.38	1.46	1.53
85	AA	2123	U	C5'-C4'	-6.38	1.43	1.51
34	BA	933	U	C2'-C1'	-6.38	1.46	1.53
34	BA	1286	C	P-O5'	-6.38	1.53	1.59
34	BA	1556	A	N9-C8	-6.38	1.32	1.37
35	BB	389	G	C4'-C3'	-6.38	1.46	1.53
38	BE	195	G	C1'-N9	-6.38	1.38	1.46
85	AA	544	A	P-O5'	-6.38	1.53	1.59
85	AA	1128	G	O3'-P	-6.38	1.53	1.61
85	AA	1480	C	C2'-C1'	-6.38	1.46	1.53
85	AA	1505	G	C2'-C1'	-6.38	1.46	1.53
34	BA	1048	C	P-O5'	-6.38	1.53	1.59
34	BA	1101	A	O3'-P	-6.38	1.53	1.61
35	BB	370	A	N9-C4	-6.38	1.34	1.37
35	BB	1421	C	C4-N4	-6.38	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	38	C	C3'-C2'	-6.38	1.45	1.52
85	AA	247	G	C5-C6	-6.38	1.35	1.42
85	AA	435	A	C2'-C1'	-6.38	1.46	1.53
85	AA	1227	A	O3'-P	-6.38	1.53	1.61
34	BA	67	A	N7-C5	-6.38	1.35	1.39
34	BA	989	C	P-O5'	-6.38	1.53	1.59
35	BB	62	C	C2-N3	-6.38	1.30	1.35
35	BB	1246	C	C5'-C4'	-6.38	1.43	1.51
35	BB	1483	A	N3-C4	-6.38	1.31	1.34
37	BD	36	C	C4'-C3'	-6.38	1.46	1.53
38	BE	8	G	N9-C4	6.38	1.43	1.38
41	BH	10	U	O3'-P	-6.38	1.53	1.61
85	AA	1148	G	C1'-N9	-6.38	1.38	1.46
34	BA	10	G	N9-C8	-6.38	1.33	1.37
34	BA	1505	G	N9-C4	-6.38	1.32	1.38
34	BA	1610	A	C2'-C1'	-6.38	1.46	1.53
35	BB	32	C	C2'-C1'	-6.38	1.46	1.53
35	BB	92	C	O3'-P	-6.38	1.53	1.61
35	BB	1309	A	N7-C5	-6.38	1.35	1.39
35	BB	1522	G	C2-N2	-6.38	1.28	1.34
39	BF	46	G	N9-C4	-6.38	1.32	1.38
40	BG	94	G	C3'-C2'	-6.38	1.45	1.52
85	AA	166	C	C2-N3	-6.38	1.30	1.35
85	AA	180	A	N3-C4	-6.38	1.31	1.34
85	AA	429	G	C1'-N9	-6.38	1.38	1.46
85	AA	725	G	C6-N1	-6.38	1.35	1.39
85	AA	978	U	C3'-C2'	-6.38	1.45	1.52
85	AA	1525	C	C3'-C2'	-6.38	1.45	1.52
85	AA	1905	A	P-O5'	-6.38	1.53	1.59
34	BA	593	G	C3'-C2'	6.38	1.59	1.52
34	BA	1138	C	C2'-C1'	-6.38	1.46	1.53
34	BA	1524	G	C5-C4	-6.38	1.33	1.38
35	BB	596	C	C2-N3	-6.38	1.30	1.35
35	BB	1172	U	C1'-N1	-6.38	1.38	1.46
35	BB	1343	C	C1'-N1	-6.38	1.38	1.46
39	BF	4	A	N9-C8	-6.38	1.32	1.37
62	Bc	13	ARG	CD-NE	6.38	1.57	1.46
85	AA	103	U	N1-C2	-6.38	1.32	1.38
34	BA	686	U	C2-N3	-6.37	1.33	1.37
38	BE	29	C	P-O5'	-6.37	1.53	1.59
38	BE	155	C	O3'-P	-6.37	1.53	1.61
39	BF	40	U	O3'-P	-6.37	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1191	G	C5-C4	-6.37	1.33	1.38
85	AA	1295	G	N1-C2	-6.37	1.32	1.37
34	BA	237	A	C2'-C1'	-6.37	1.46	1.53
34	BA	1410	C	C2-N3	-6.37	1.30	1.35
34	BA	1708	A	N9-C8	-6.37	1.32	1.37
35	BB	435	A	P-O5'	-6.37	1.53	1.59
35	BB	486	G	N7-C5	-6.37	1.35	1.39
35	BB	565	U	C2'-C1'	-6.37	1.46	1.53
35	BB	686	A	C3'-C2'	-6.37	1.45	1.52
35	BB	1144	A	C4'-C3'	-6.37	1.46	1.53
35	BB	1308	G	C1'-N9	-6.37	1.38	1.46
38	BE	149	A	N3-C4	-6.37	1.31	1.34
40	BG	75	C	C2-N3	-6.37	1.30	1.35
40	BG	125	C	O3'-P	-6.37	1.53	1.61
41	BH	127	A	C3'-C2'	-6.37	1.45	1.52
85	AA	480	U	O4'-C1'	-6.37	1.33	1.41
85	AA	2190	U	C2'-C1'	-6.37	1.46	1.53
86	AB	71	G	C4'-C3'	-6.37	1.46	1.53
34	BA	45	A	C1'-N9	-6.37	1.38	1.46
34	BA	349	G	N3-C4	-6.37	1.30	1.35
34	BA	364	C	C2'-C1'	-6.37	1.46	1.53
34	BA	1400	A	P-O5'	-6.37	1.53	1.59
35	BB	1233	U	N1-C2	-6.37	1.32	1.38
85	AA	176	C	C1'-N1	-6.37	1.38	1.46
85	AA	1173	A	O3'-P	-6.37	1.53	1.61
34	BA	589	A	N7-C5	-6.37	1.35	1.39
34	BA	836	U	P-O5'	-6.37	1.53	1.59
34	BA	966	G	C3'-C2'	-6.37	1.45	1.52
34	BA	1028	A	C3'-C2'	-6.37	1.45	1.52
34	BA	1545	C	O4'-C1'	-6.37	1.33	1.41
35	BB	9	G	C2'-C1'	-6.37	1.46	1.53
35	BB	94	A	C5-C4	-6.37	1.34	1.38
35	BB	114	A	O3'-P	-6.37	1.53	1.61
35	BB	1094	A	O3'-P	-6.37	1.53	1.61
37	BD	97	U	C2'-C1'	-6.37	1.46	1.53
40	BG	89	A	C3'-C2'	-6.37	1.45	1.52
40	BG	121	C	P-O5'	-6.37	1.53	1.59
85	AA	1510	A	C2'-C1'	-6.37	1.46	1.53
85	AA	2186	U	N1-C2	-6.37	1.32	1.38
85	AA	2211	G	N9-C4	-6.37	1.32	1.38
34	BA	840	U	C3'-C2'	-6.37	1.45	1.52
34	BA	1033	G	N1-C2	-6.37	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1208	U	C2'-C1'	-6.37	1.46	1.53
34	BA	1670	A	C6-N1	-6.37	1.31	1.35
34	BA	1820	G	C1'-N9	-6.37	1.38	1.46
35	BB	90	G	C3'-C2'	-6.37	1.45	1.52
34	BA	35	U	C2'-C1'	-6.37	1.46	1.53
34	BA	441	A	P-O5'	-6.37	1.53	1.59
34	BA	1289	C	C4'-O4'	-6.37	1.37	1.45
34	BA	1735	G	N9-C4	-6.37	1.32	1.38
35	BB	1155	U	O3'-P	-6.37	1.53	1.61
40	BG	4	A	N3-C4	-6.37	1.31	1.34
85	AA	86	G	O3'-P	-6.37	1.53	1.61
85	AA	1521	U	C2'-C1'	-6.37	1.46	1.53
85	AA	2084	U	C2'-C1'	-6.37	1.46	1.53
34	BA	70	C	P-O5'	-6.36	1.53	1.59
34	BA	773	A	O3'-P	-6.36	1.53	1.61
34	BA	1161	G	N1-C2	-6.36	1.32	1.37
34	BA	1428	G	N1-C2	-6.36	1.32	1.37
40	BG	169	A	C5-C4	-6.36	1.34	1.38
41	BH	75	G	N7-C5	6.36	1.43	1.39
85	AA	42	G	C2'-C1'	-6.36	1.46	1.53
85	AA	117	C	C2'-C1'	-6.36	1.46	1.53
85	AA	157	G	C4'-C3'	-6.36	1.46	1.53
85	AA	400	G	N3-C4	-6.36	1.30	1.35
85	AA	453	G	N1-C2	-6.36	1.32	1.37
85	AA	880	A	N9-C4	-6.36	1.34	1.37
85	AA	1156	A	O3'-P	-6.36	1.53	1.61
85	AA	1271	U	N1-C2	-6.36	1.32	1.38
85	AA	1463	A	C8-N7	-6.36	1.27	1.31
86	AB	67	C	N3-C4	-6.36	1.29	1.33
34	BA	1109	G	C5-C4	-6.36	1.33	1.38
34	BA	1276	G	C5-C4	-6.36	1.33	1.38
34	BA	1456	C	C3'-C2'	-6.36	1.45	1.52
34	BA	1503	U	C1'-N1	-6.36	1.38	1.46
85	AA	2225	G	C2'-C1'	-6.36	1.46	1.53
34	BA	651	U	C3'-C2'	-6.36	1.45	1.52
35	BB	1225	A	N9-C4	-6.36	1.34	1.37
35	BB	1236	A	P-O5'	-6.36	1.53	1.59
35	BB	1293	C	C4'-C3'	-6.36	1.46	1.53
35	BB	1508	G	O3'-P	-6.36	1.53	1.61
40	BG	50	G	C4'-C3'	-6.36	1.46	1.53
85	AA	358	U	C3'-C2'	-6.36	1.45	1.52
85	AA	710	A	C5'-C4'	-6.36	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1112	G	C6-N1	-6.36	1.35	1.39
34	BA	197	A	P-O5'	-6.36	1.53	1.59
34	BA	416	A	P-O5'	-6.36	1.53	1.59
34	BA	808	U	C4'-C3'	-6.36	1.46	1.53
34	BA	859	G	N3-C4	-6.36	1.30	1.35
34	BA	1195	G	O3'-P	-6.36	1.53	1.61
34	BA	1707	C	N3-C4	-6.36	1.29	1.33
35	BB	728	A	C2'-C1'	-6.36	1.46	1.53
35	BB	951	U	P-O5'	-6.36	1.53	1.59
35	BB	1305	A	N3-C4	-6.36	1.31	1.34
35	BB	1418	C	N3-C4	-6.36	1.29	1.33
37	BD	4	U	C4'-C3'	-6.36	1.46	1.53
85	AA	188	G	C3'-C2'	-6.36	1.45	1.52
34	BA	733	G	O3'-P	-6.36	1.53	1.61
34	BA	825	G	O3'-P	-6.36	1.53	1.61
34	BA	973	U	C5'-C4'	-6.36	1.43	1.51
34	BA	1255	G	C1'-N9	-6.36	1.38	1.46
35	BB	1331	U	C3'-C2'	-6.36	1.45	1.52
35	BB	1446	C	C3'-C2'	-6.36	1.45	1.52
35	BB	1519	U	O3'-P	-6.36	1.53	1.61
35	BB	1540	U	C2-N3	-6.36	1.33	1.37
38	BE	203	C	O4'-C1'	-6.36	1.33	1.41
40	BG	26	G	C2'-C1'	-6.36	1.46	1.53
85	AA	732	G	O3'-P	-6.36	1.53	1.61
85	AA	1485	G	O4'-C1'	-6.36	1.33	1.41
85	AA	2217	A	O3'-P	-6.36	1.53	1.61
34	BA	606	G	C2-N3	6.36	1.37	1.32
36	BC	11	G	C2'-C1'	-6.36	1.46	1.53
37	BD	96	C	N3-C4	-6.36	1.29	1.33
40	BG	12	A	N7-C5	-6.36	1.35	1.39
41	BH	40	C	P-O5'	-6.36	1.53	1.59
85	AA	390	U	N1-C2	-6.36	1.32	1.38
85	AA	637	U	C3'-C2'	-6.36	1.45	1.52
85	AA	654	A	C2'-C1'	-6.36	1.46	1.53
85	AA	1891	U	N3-C4	-6.36	1.32	1.38
34	BA	718	U	C1'-N1	-6.35	1.38	1.46
34	BA	1519	G	N9-C4	-6.35	1.32	1.38
34	BA	1545	C	C2-N3	-6.35	1.30	1.35
35	BB	541	U	P-O5'	-6.35	1.53	1.59
35	BB	1304	U	P-O5'	-6.35	1.53	1.59
37	BD	116	C	C3'-C2'	-6.35	1.45	1.52
85	AA	78	A	P-O5'	-6.35	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1272	G	C6-N1	-6.35	1.35	1.39
85	AA	2138	G	C2-N2	-6.35	1.28	1.34
34	BA	428	C	C2'-C1'	-6.35	1.46	1.53
34	BA	472	G	O3'-P	-6.35	1.53	1.61
34	BA	624	G	C2'-C1'	-6.35	1.46	1.53
34	BA	928	C	C2-N3	-6.35	1.30	1.35
34	BA	1728	G	C1'-N9	-6.35	1.38	1.46
35	BB	372	U	N3-C4	-6.35	1.32	1.38
35	BB	1092	G	C5'-C4'	6.35	1.58	1.51
35	BB	1460	G	C1'-N9	-6.35	1.38	1.46
38	BE	111	C	C2'-C1'	-6.35	1.46	1.53
85	AA	148	G	C6-N1	-6.35	1.35	1.39
85	AA	198	U	O3'-P	-6.35	1.53	1.61
85	AA	486	G	C1'-N9	-6.35	1.38	1.46
85	AA	842	G	O3'-P	-6.35	1.53	1.61
85	AA	1180	C	C2'-C1'	-6.35	1.46	1.53
85	AA	1366	A	C2'-C1'	-6.35	1.46	1.53
85	AA	2238	C	C2'-C1'	-6.35	1.46	1.53
34	BA	359	G	C5'-C4'	6.35	1.58	1.51
34	BA	542	A	C2'-C1'	-6.35	1.46	1.53
34	BA	843	G	C3'-C2'	-6.35	1.45	1.52
37	BD	68	C	C2-N3	-6.35	1.30	1.35
85	AA	69	C	C3'-C2'	-6.35	1.45	1.52
85	AA	773	G	C5-C4	-6.35	1.33	1.38
34	BA	1559	C	C4'-C3'	-6.35	1.46	1.53
35	BB	575	C	N1-C6	-6.35	1.33	1.37
35	BB	1354	C	C2-N3	-6.35	1.30	1.35
41	BH	32	U	C4'-C3'	-6.35	1.46	1.53
41	BH	121	A	N3-C4	-6.35	1.31	1.34
85	AA	333	A	C1'-N9	-6.35	1.38	1.46
85	AA	569	A	P-O5'	-6.35	1.53	1.59
85	AA	991	G	N3-C4	-6.35	1.31	1.35
34	BA	1108	U	C2'-C1'	-6.35	1.46	1.53
34	BA	1445	U	O3'-P	-6.35	1.53	1.61
35	BB	542	A	C1'-N9	-6.35	1.38	1.46
35	BB	1265	U	O3'-P	-6.35	1.53	1.61
57	BX	87	TYR	CA-CB	6.35	1.68	1.53
85	AA	766	G	C6-N1	-6.35	1.35	1.39
85	AA	867	G	C3'-O3'	-6.35	1.33	1.42
85	AA	912	C	N1-C6	-6.35	1.33	1.37
85	AA	1263	G	N9-C8	-6.35	1.33	1.37
86	AB	15	G	C5'-C4'	6.35	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	767	U	O3'-P	-6.35	1.53	1.61
35	BB	790	A	N9-C4	-6.35	1.34	1.37
38	BE	33	C	C2'-C1'	-6.35	1.46	1.53
40	BG	10	U	C3'-C2'	-6.35	1.45	1.52
85	AA	1490	A	P-O5'	-6.35	1.53	1.59
85	AA	2039	G	C5-C4	-6.35	1.33	1.38
85	AA	2083	G	P-O5'	-6.35	1.53	1.59
34	BA	255	G	N9-C4	-6.34	1.32	1.38
34	BA	309	U	O3'-P	-6.34	1.53	1.61
34	BA	499	C	P-O5'	-6.34	1.53	1.59
34	BA	518	C	C4'-C3'	-6.34	1.46	1.53
34	BA	628	U	C1'-N1	-6.34	1.38	1.46
34	BA	1582	C	C1'-N1	-6.34	1.38	1.46
34	BA	1642	A	C4'-O4'	-6.34	1.37	1.45
35	BB	555	G	C1'-N9	-6.34	1.38	1.46
35	BB	786	A	C5-C4	-6.34	1.34	1.38
35	BB	1080	U	C1'-N1	-6.34	1.38	1.46
35	BB	1145	G	C5-C6	-6.34	1.36	1.42
35	BB	1272	G	N9-C4	-6.34	1.32	1.38
35	BB	1534	U	C2-N3	-6.34	1.33	1.37
38	BE	145	A	C2'-C1'	-6.34	1.46	1.53
40	BG	19	C	O3'-P	-6.34	1.53	1.61
85	AA	1198	U	P-O5'	-6.34	1.53	1.59
85	AA	1292	A	C8-N7	-6.34	1.27	1.31
85	AA	1297	G	C2'-C1'	-6.34	1.46	1.53
85	AA	2086	C	C2'-C1'	-6.34	1.46	1.53
34	BA	840	U	P-O5'	-6.34	1.53	1.59
34	BA	955	G	C2'-C1'	-6.34	1.46	1.53
34	BA	1088	G	O3'-P	-6.34	1.53	1.61
34	BA	1269	C	C2'-C1'	-6.34	1.46	1.53
35	BB	501	G	N1-C2	-6.34	1.32	1.37
35	BB	1336	G	N1-C2	-6.34	1.32	1.37
35	BB	1492	C	O4'-C1'	-6.34	1.33	1.41
36	BC	117	A	C1'-N9	-6.34	1.38	1.46
85	AA	2186	U	C2'-C1'	-6.34	1.46	1.53
34	BA	456	G	O3'-P	-6.34	1.53	1.61
34	BA	977	G	N9-C4	-6.34	1.32	1.38
34	BA	1487	U	O4'-C1'	-6.34	1.33	1.41
34	BA	1521	C	C2-N3	-6.34	1.30	1.35
34	BA	1582	C	C2'-C1'	-6.34	1.46	1.53
41	BH	41	A	N7-C5	-6.34	1.35	1.39
85	AA	178	U	O3'-P	-6.34	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	879	G	C5-C4	-6.34	1.33	1.38
85	AA	1710	C	P-O5'	-6.34	1.53	1.59
34	BA	1045	C	C4-N4	-6.34	1.28	1.33
34	BA	1601	C	C4'-O4'	-6.34	1.37	1.45
35	BB	38	C	C3'-C2'	-6.34	1.45	1.52
35	BB	439	G	N3-C4	-6.34	1.31	1.35
37	BD	93	G	N1-C2	-6.34	1.32	1.37
39	BF	2	G	N9-C8	-6.34	1.33	1.37
39	BF	53	G	P-O5'	-6.34	1.53	1.59
40	BG	166	C	C2'-C1'	-6.34	1.46	1.53
85	AA	541	A	C3'-C2'	-6.34	1.45	1.52
85	AA	1486	G	C4'-C3'	-6.34	1.46	1.53
85	AA	2070	C	O3'-P	-6.34	1.53	1.61
85	AA	2220	U	C4'-C3'	-6.34	1.46	1.53
85	AA	2222	G	N7-C5	-6.34	1.35	1.39
35	BB	608	A	C3'-C2'	-6.34	1.45	1.52
35	BB	1025	A	C3'-C2'	6.34	1.59	1.52
85	AA	79	G	C4'-C3'	-6.34	1.46	1.53
85	AA	1485	G	C5-C6	-6.34	1.36	1.42
85	AA	1508	A	N9-C4	-6.34	1.34	1.37
34	BA	115	U	C4'-O4'	-6.34	1.37	1.45
34	BA	455	A	C3'-C2'	-6.34	1.45	1.52
34	BA	690	G	N9-C4	-6.34	1.32	1.38
34	BA	1222	C	P-O5'	-6.34	1.53	1.59
34	BA	1711	G	C8-N7	-6.34	1.27	1.30
38	BE	112	G	C6-N1	-6.34	1.35	1.39
85	AA	462	A	N3-C4	-6.34	1.31	1.34
85	AA	1977	G	C3'-C2'	-6.34	1.45	1.52
35	BB	95	A	O3'-P	-6.33	1.53	1.61
85	AA	1289	U	C2-N3	-6.33	1.33	1.37
85	AA	1477	A	P-O5'	-6.33	1.53	1.59
34	BA	684	G	P-O5'	6.33	1.66	1.59
34	BA	957	A	C4'-C3'	-6.33	1.46	1.53
35	BB	681	G	C2'-C1'	-6.33	1.46	1.53
35	BB	827	U	C3'-C2'	-6.33	1.45	1.52
35	BB	1251	G	O4'-C1'	-6.33	1.33	1.41
35	BB	1424	G	N3-C4	-6.33	1.31	1.35
38	BE	31	A	N3-C4	-6.33	1.31	1.34
85	AA	923	A	C3'-C2'	-6.33	1.45	1.52
85	AA	1673	A	C5-C4	-6.33	1.34	1.38
34	BA	216	C	N1-C2	-6.33	1.33	1.40
34	BA	746	C	C2-N3	-6.33	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1253	G	O3'-P	-6.33	1.53	1.61
35	BB	72	G	C1'-N9	-6.33	1.38	1.46
35	BB	1426	G	N9-C4	6.33	1.43	1.38
38	BE	59	U	C1'-N1	-6.33	1.38	1.46
85	AA	104	C	P-O5'	-6.33	1.53	1.59
85	AA	450	A	C5'-C4'	-6.33	1.43	1.51
85	AA	499	G	C2-N2	-6.33	1.28	1.34
85	AA	629	A	P-O5'	-6.33	1.53	1.59
85	AA	720	A	N7-C5	-6.33	1.35	1.39
85	AA	2030	U	C2'-C1'	-6.33	1.46	1.53
85	AA	2225	G	C5-C4	-6.33	1.33	1.38
34	BA	139	U	N3-C4	-6.33	1.32	1.38
34	BA	747	G	C3'-C2'	-6.33	1.45	1.52
35	BB	804	U	C2'-C1'	-6.33	1.46	1.53
38	BE	202	C	C2'-C1'	-6.33	1.46	1.53
40	BG	80	G	C2'-C1'	-6.33	1.46	1.53
34	BA	129	U	O3'-P	-6.33	1.53	1.61
34	BA	354	G	C3'-C2'	-6.33	1.45	1.52
34	BA	545	U	O3'-P	-6.33	1.53	1.61
34	BA	915	A	O4'-C1'	-6.33	1.33	1.41
34	BA	974	G	C6-N1	-6.33	1.35	1.39
34	BA	1246	G	N9-C4	-6.33	1.32	1.38
34	BA	1690	U	N3-C4	-6.33	1.32	1.38
35	BB	1020	U	C2-N3	-6.33	1.33	1.37
35	BB	1297	G	C2'-C1'	-6.33	1.46	1.53
35	BB	1370	G	C4'-C3'	-6.33	1.46	1.53
36	BC	21	U	P-O5'	-6.33	1.53	1.59
38	BE	24	G	P-O5'	-6.33	1.53	1.59
38	BE	163	A	P-O5'	-6.33	1.53	1.59
39	BF	54	U	C5'-C4'	6.33	1.58	1.51
85	AA	103	U	P-O5'	-6.33	1.53	1.59
85	AA	284	C	P-O5'	-6.33	1.53	1.59
85	AA	579	U	O3'-P	-6.33	1.53	1.61
85	AA	1465	C	O4'-C1'	-6.33	1.33	1.41
34	BA	671	C	O3'-P	-6.33	1.53	1.61
34	BA	1460	U	C2'-C1'	-6.33	1.46	1.53
35	BB	1491	G	C2'-C1'	-6.33	1.46	1.53
85	AA	1872	G	N7-C5	-6.33	1.35	1.39
34	BA	148	G	O3'-P	-6.33	1.53	1.61
34	BA	351	A	C2'-C1'	-6.33	1.46	1.53
34	BA	612	U	P-O5'	-6.33	1.53	1.59
34	BA	742	C	O4'-C1'	-6.33	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	862	C	O3'-P	6.33	1.68	1.61
34	BA	925	G	N9-C4	-6.33	1.32	1.38
34	BA	1203	G	C2-N2	-6.33	1.28	1.34
34	BA	1347	G	P-O5'	-6.33	1.53	1.59
34	BA	1450	G	P-O5'	-6.33	1.53	1.59
34	BA	1820	G	C2-N2	-6.33	1.28	1.34
35	BB	16	G	C6-N1	-6.33	1.35	1.39
35	BB	498	G	C5-C4	-6.33	1.33	1.38
35	BB	1459	U	C2'-C1'	-6.33	1.46	1.53
36	BC	49	G	C2'-C1'	-6.33	1.46	1.53
40	BG	31	G	N7-C5	-6.33	1.35	1.39
41	BH	16	A	O3'-P	-6.33	1.53	1.61
85	AA	655	U	N1-C2	-6.33	1.32	1.38
85	AA	1473	U	O3'-P	-6.33	1.53	1.61
85	AA	1501	A	C2'-C1'	-6.33	1.46	1.53
85	AA	1793	A	O3'-P	-6.33	1.53	1.61
85	AA	2142	A	C8-N7	-6.33	1.27	1.31
85	AA	2231	G	O3'-P	-6.33	1.53	1.61
34	BA	58	A	N7-C5	-6.32	1.35	1.39
34	BA	484	A	C4'-O4'	-6.32	1.37	1.45
34	BA	720	A	N9-C8	-6.32	1.32	1.37
34	BA	726	G	C2'-C1'	-6.32	1.46	1.53
34	BA	1671	A	N3-C4	-6.32	1.31	1.34
35	BB	52	G	C5-C4	-6.32	1.33	1.38
35	BB	807	U	O3'-P	-6.32	1.53	1.61
35	BB	892	U	P-O5'	-6.32	1.53	1.59
35	BB	1027	U	C2-N3	-6.32	1.33	1.37
37	BD	42	A	O3'-P	-6.32	1.53	1.61
40	BG	64	C	C3'-C2'	-6.32	1.45	1.52
85	AA	57	G	C5'-C4'	-6.32	1.43	1.51
85	AA	1668	G	C2'-C1'	-6.32	1.46	1.53
34	BA	344	G	N7-C5	-6.32	1.35	1.39
34	BA	827	A	P-O5'	-6.32	1.53	1.59
34	BA	1015	G	C6-N1	-6.32	1.35	1.39
34	BA	1706	A	C6-N1	-6.32	1.31	1.35
35	BB	1195	A	C8-N7	-6.32	1.27	1.31
40	BG	1	G	C1'-N9	-6.32	1.38	1.46
86	AB	9	A	N9-C4	-6.32	1.34	1.37
34	BA	83	G	C2'-C1'	-6.32	1.46	1.53
34	BA	875	G	O4'-C1'	-6.32	1.33	1.41
34	BA	1255	G	N9-C8	-6.32	1.33	1.37
34	BA	1267	A	O4'-C1'	-6.32	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1724	G	C4'-O4'	-6.32	1.37	1.45
35	BB	664	A	N7-C5	-6.32	1.35	1.39
35	BB	1376	G	C5-C4	-6.32	1.33	1.38
35	BB	1449	G	C1'-N9	-6.32	1.38	1.46
36	BC	151	G	N9-C4	-6.32	1.32	1.38
38	BE	12	A	C5-C4	-6.32	1.34	1.38
38	BE	58	U	C2'-C1'	-6.32	1.46	1.53
40	BG	27	C	C2'-C1'	-6.32	1.46	1.53
85	AA	270	A	N9-C4	-6.32	1.34	1.37
85	AA	482	C	P-O5'	-6.32	1.53	1.59
85	AA	674	U	N3-C4	-6.32	1.32	1.38
85	AA	790	A	N7-C5	-6.32	1.35	1.39
85	AA	1520	A	C2'-C1'	-6.32	1.46	1.53
36	BC	49	G	P-O5'	-6.32	1.53	1.59
36	BC	102	G	N3-C4	-6.32	1.31	1.35
36	BC	152	C	C2'-C1'	-6.32	1.46	1.53
85	AA	273	C	C3'-C2'	-6.32	1.45	1.52
85	AA	1163	G	N9-C8	-6.32	1.33	1.37
85	AA	1221	G	C8-N7	-6.32	1.27	1.30
85	AA	1953	G	C2'-C1'	-6.32	1.46	1.53
85	AA	2155	U	O3'-P	-6.32	1.53	1.61
34	BA	193	C	C1'-N1	-6.32	1.38	1.46
34	BA	675	C	N1-C6	-6.32	1.33	1.37
34	BA	692	U	O4'-C1'	-6.32	1.33	1.41
34	BA	703	U	C2'-C1'	-6.32	1.46	1.53
34	BA	787	A	N3-C4	-6.32	1.31	1.34
34	BA	1531	G	C3'-C2'	-6.32	1.45	1.52
35	BB	1253	U	C2'-C1'	-6.32	1.46	1.53
35	BB	1262	A	N9-C4	-6.32	1.34	1.37
35	BB	1467	A	C4'-C3'	6.32	1.60	1.53
38	BE	94	U	C4'-C3'	-6.32	1.46	1.53
85	AA	194	U	O3'-P	-6.32	1.53	1.61
85	AA	442	G	C5'-C4'	-6.32	1.43	1.51
85	AA	1881	C	N1-C6	-6.32	1.33	1.37
34	BA	412	G	C2-N2	-6.32	1.28	1.34
34	BA	513	U	C4-O4	-6.32	1.18	1.23
34	BA	776	U	C2-N3	-6.32	1.33	1.37
34	BA	1039	G	C6-N1	-6.32	1.35	1.39
34	BA	1210	A	P-O5'	-6.32	1.53	1.59
34	BA	1401	C	O3'-P	-6.32	1.53	1.61
34	BA	1630	A	C4'-C3'	6.32	1.60	1.53
35	BB	26	C	C2'-C1'	-6.32	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	614	U	N3-C4	-6.32	1.32	1.38
35	BB	622	G	N9-C8	-6.32	1.33	1.37
35	BB	1425	A	P-O5'	-6.32	1.53	1.59
85	AA	1651	C	P-O5'	-6.32	1.53	1.59
85	AA	1797	U	C2'-C1'	-6.32	1.46	1.53
85	AA	2186	U	C1'-N1	-6.32	1.38	1.46
34	BA	748	C	C2-N3	-6.31	1.30	1.35
35	BB	538	A	C1'-N9	-6.31	1.38	1.46
35	BB	661	G	C2-N2	-6.31	1.28	1.34
35	BB	1352	C	C3'-C2'	-6.31	1.45	1.52
35	BB	1439	U	C2'-C1'	-6.31	1.46	1.53
35	BB	1466	A	N7-C5	-6.31	1.35	1.39
36	BC	62	A	O3'-P	-6.31	1.53	1.61
37	BD	23	A	C1'-N9	-6.31	1.38	1.46
34	BA	536	C	C3'-C2'	-6.31	1.45	1.52
34	BA	683	C	P-O5'	-6.31	1.53	1.59
34	BA	1035	A	N9-C4	-6.31	1.34	1.37
34	BA	1081	U	O3'-P	-6.31	1.53	1.61
34	BA	1644	A	C5-C4	-6.31	1.34	1.38
34	BA	1707	C	C2'-C1'	-6.31	1.46	1.53
34	BA	1708	A	O3'-P	-6.31	1.53	1.61
35	BB	402	G	C2'-C1'	-6.31	1.46	1.53
35	BB	472	C	C2-N3	-6.31	1.30	1.35
35	BB	878	G	C5'-C4'	6.31	1.58	1.51
35	BB	967	G	N1-C2	-6.31	1.32	1.37
35	BB	1057	G	N3-C4	-6.31	1.31	1.35
36	BC	14	G	O3'-P	-6.31	1.53	1.61
40	BG	94	G	N1-C2	-6.31	1.32	1.37
85	AA	97	A	N9-C8	-6.31	1.32	1.37
85	AA	289	G	C4'-O4'	6.31	1.53	1.45
85	AA	957	A	P-O5'	-6.31	1.53	1.59
85	AA	2093	U	P-O5'	-6.31	1.53	1.59
86	AB	2	C	C2'-C1'	-6.31	1.46	1.53
34	BA	1017	C	C1'-N1	-6.31	1.38	1.46
35	BB	16	G	N9-C4	-6.31	1.32	1.38
41	BH	19	G	C4'-C3'	-6.31	1.46	1.53
85	AA	2147	A	C5-C6	-6.31	1.35	1.41
34	BA	118	C	O4'-C1'	-6.31	1.33	1.41
34	BA	678	C	C4-N4	-6.31	1.28	1.33
34	BA	681	G	C8-N7	-6.31	1.27	1.30
34	BA	1546	C	C1'-N1	-6.31	1.38	1.46
35	BB	452	A	C5-C4	-6.31	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1161	G	C6-N1	-6.31	1.35	1.39
36	BC	108	A	C1'-N9	-6.31	1.38	1.46
40	BG	86	U	C4'-C3'	-6.31	1.46	1.53
40	BG	116	G	N3-C4	-6.31	1.31	1.35
85	AA	707	U	N3-C4	-6.31	1.32	1.38
85	AA	1282	A	C2'-C1'	-6.31	1.46	1.53
85	AA	1560	A	O3'-P	-6.31	1.53	1.61
85	AA	1654	G	C1'-N9	-6.31	1.38	1.46
85	AA	2122	A	C2'-C1'	-6.31	1.46	1.53
85	AA	2208	G	C3'-C2'	-6.31	1.45	1.52
34	BA	480	G	N7-C5	-6.31	1.35	1.39
34	BA	800	G	C3'-C2'	-6.31	1.45	1.52
34	BA	950	C	C2'-C1'	-6.31	1.46	1.53
34	BA	1062	G	N1-C2	-6.31	1.32	1.37
34	BA	1803	A	P-O5'	-6.31	1.53	1.59
36	BC	35	C	C2-N3	-6.31	1.30	1.35
40	BG	113	G	C5-C4	-6.31	1.33	1.38
85	AA	447	C	P-O5'	-6.31	1.53	1.59
85	AA	2176	U	C4'-O4'	-6.31	1.37	1.45
85	AA	2192	A	C1'-N9	-6.31	1.38	1.46
34	BA	952	G	C6-N1	-6.31	1.35	1.39
35	BB	996	G	N1-C2	-6.31	1.32	1.37
41	BH	21	G	C1'-N9	-6.31	1.38	1.46
34	BA	788	C	N1-C6	-6.30	1.33	1.37
34	BA	1073	G	C3'-C2'	-6.30	1.45	1.52
34	BA	1333	G	C2-N2	-6.30	1.28	1.34
34	BA	1412	G	C4'-C3'	-6.30	1.46	1.53
36	BC	59	A	P-O5'	-6.30	1.53	1.59
40	BG	71	C	C2'-C1'	-6.30	1.46	1.53
85	AA	381	A	O4'-C1'	-6.30	1.33	1.41
85	AA	506	G	C2'-C1'	-6.30	1.46	1.53
34	BA	246	G	C1'-N9	-6.30	1.38	1.46
34	BA	991	U	P-O5'	-6.30	1.53	1.59
34	BA	1451	A	P-O5'	-6.30	1.53	1.59
35	BB	1033	U	C3'-C2'	-6.30	1.45	1.52
35	BB	1421	C	C3'-C2'	-6.30	1.45	1.52
85	AA	626	G	C3'-C2'	-6.30	1.45	1.52
34	BA	429	G	N9-C4	-6.30	1.32	1.38
34	BA	574	U	P-O5'	-6.30	1.53	1.59
35	BB	44	C	O3'-P	-6.30	1.53	1.61
35	BB	126	C	N3-C4	-6.30	1.29	1.33
35	BB	542	A	N7-C5	-6.30	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	795	A	N7-C5	-6.30	1.35	1.39
35	BB	887	G	N9-C4	6.30	1.43	1.38
35	BB	1405	G	P-O5'	-6.30	1.53	1.59
39	BF	57	C	C1'-N1	-6.30	1.38	1.46
41	BH	13	C	P-O5'	-6.30	1.53	1.59
41	BH	21	G	O3'-P	-6.30	1.53	1.61
85	AA	369	A	C2'-C1'	-6.30	1.46	1.53
85	AA	1149	A	P-O5'	-6.30	1.53	1.59
85	AA	1459	C	O3'-P	-6.30	1.53	1.61
85	AA	2061	C	C2'-C1'	-6.30	1.46	1.53
86	AB	69	G	C2-N2	-6.30	1.28	1.34
34	BA	35	U	C2-N3	-6.30	1.33	1.37
34	BA	612	U	O3'-P	-6.30	1.53	1.61
34	BA	770	G	O3'-P	-6.30	1.53	1.61
34	BA	1082	U	O4'-C1'	-6.30	1.33	1.41
34	BA	1544	G	N3-C4	-6.30	1.31	1.35
35	BB	436	G	C8-N7	-6.30	1.27	1.30
36	BC	56	G	N7-C5	-6.30	1.35	1.39
36	BC	161	U	N3-C4	-6.30	1.32	1.38
37	BD	25	G	C3'-C2'	-6.30	1.45	1.52
37	BD	49	A	C6-N1	-6.30	1.31	1.35
38	BE	25	U	N1-C6	-6.30	1.32	1.38
40	BG	44	G	O3'-P	-6.30	1.53	1.61
40	BG	108	G	C3'-C2'	-6.30	1.45	1.52
85	AA	449	G	C5-C4	-6.30	1.33	1.38
85	AA	1526	G	C2-N2	-6.30	1.28	1.34
85	AA	2223	C	C2-N3	-6.30	1.30	1.35
35	BB	520	G	C1'-N9	-6.30	1.38	1.46
35	BB	607	G	N1-C2	-6.30	1.32	1.37
36	BC	76	C	N1-C6	-6.30	1.33	1.37
34	BA	762	A	O3'-P	-6.30	1.53	1.61
34	BA	843	G	C2'-C1'	-6.30	1.46	1.53
35	BB	265	C	P-O5'	-6.30	1.53	1.59
35	BB	841	U	C3'-C2'	-6.30	1.45	1.52
35	BB	1538	G	C2'-C1'	-6.30	1.46	1.53
36	BC	121	G	C5-C6	-6.30	1.36	1.42
85	AA	2	A	O3'-P	-6.30	1.53	1.61
85	AA	402	G	P-O5'	-6.30	1.53	1.59
85	AA	1296	G	C2'-C1'	-6.30	1.46	1.53
34	BA	1164	C	C4'-C3'	-6.29	1.46	1.53
34	BA	1466	U	N3-C4	-6.29	1.32	1.38
34	BA	1556	A	O4'-C1'	-6.29	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1706	A	C1'-N9	-6.29	1.38	1.46
85	AA	1129	A	C1'-N9	-6.29	1.38	1.46
85	AA	1501	A	C1'-N9	-6.29	1.38	1.46
34	BA	15	G	N1-C2	-6.29	1.32	1.37
34	BA	160	G	N9-C8	-6.29	1.33	1.37
34	BA	205	G	C5-C6	-6.29	1.36	1.42
34	BA	222	C	C2-N3	-6.29	1.30	1.35
34	BA	596	G	N1-C2	-6.29	1.32	1.37
34	BA	998	U	O3'-P	-6.29	1.53	1.61
34	BA	1477	C	N1-C6	-6.29	1.33	1.37
34	BA	1685	C	C4'-O4'	-6.29	1.37	1.45
35	BB	1048	A	N7-C5	-6.29	1.35	1.39
36	BC	88	A	C8-N7	-6.29	1.27	1.31
85	AA	107	A	N7-C5	-6.29	1.35	1.39
85	AA	1528	A	C1'-N9	-6.29	1.38	1.46
85	AA	1697	C	N1-C6	-6.29	1.33	1.37
85	AA	2012	G	N7-C5	-6.29	1.35	1.39
85	AA	2187	G	C5-C4	-6.29	1.33	1.38
34	BA	109	A	P-O5'	-6.29	1.53	1.59
34	BA	761	U	C4'-C3'	-6.29	1.46	1.53
34	BA	809	U	N3-C4	-6.29	1.32	1.38
34	BA	852	C	C2-N3	-6.29	1.30	1.35
34	BA	935	A	C2'-C1'	-6.29	1.46	1.53
34	BA	1273	U	P-O5'	-6.29	1.53	1.59
34	BA	1640	G	C5-C4	-6.29	1.33	1.38
35	BB	621	C	N1-C6	-6.29	1.33	1.37
35	BB	837	A	N3-C4	-6.29	1.31	1.34
35	BB	879	G	N7-C5	-6.29	1.35	1.39
35	BB	1110	G	C2'-C1'	-6.29	1.46	1.53
39	BF	41	U	C2'-C1'	-6.29	1.46	1.53
85	AA	386	G	C8-N7	-6.29	1.27	1.30
85	AA	523	U	O3'-P	-6.29	1.53	1.61
85	AA	1206	A	C5-C4	-6.29	1.34	1.38
34	BA	919	A	C2'-C1'	-6.29	1.46	1.53
34	BA	1052	G	C5-C6	-6.29	1.36	1.42
34	BA	1190	A	C1'-N9	-6.29	1.38	1.46
35	BB	601	U	C4'-C3'	-6.29	1.46	1.53
41	BH	106	G	N7-C5	-6.29	1.35	1.39
85	AA	585	G	N9-C4	-6.29	1.32	1.38
85	AA	867	G	C2'-C1'	-6.29	1.46	1.53
85	AA	2042	G	C1'-N9	-6.29	1.38	1.46
34	BA	1842	U	C3'-C2'	-6.29	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	55	C	O3'-P	-6.29	1.53	1.61
35	BB	1277	A	C6-N1	-6.29	1.31	1.35
35	BB	1396	G	C5-C4	-6.29	1.33	1.38
36	BC	113	G	C2-N2	-6.29	1.28	1.34
36	BC	163	A	C5-C4	-6.29	1.34	1.38
39	BF	57	C	O3'-P	-6.29	1.53	1.61
85	AA	18	C	O3'-P	-6.29	1.53	1.61
85	AA	79	G	C1'-N9	-6.29	1.38	1.46
85	AA	432	A	C3'-C2'	-6.29	1.45	1.52
85	AA	995	G	C2-N2	-6.29	1.28	1.34
34	BA	572	G	C5-C6	6.29	1.48	1.42
34	BA	764	G	N1-C2	-6.29	1.32	1.37
34	BA	1276	G	C2'-C1'	-6.29	1.46	1.53
35	BB	1201	G	O4'-C1'	-6.29	1.33	1.41
41	BH	106	G	C2'-C1'	-6.29	1.46	1.53
34	BA	456	G	C1'-N9	-6.29	1.38	1.46
34	BA	625	U	C2'-C1'	-6.29	1.46	1.53
34	BA	1096	C	C2'-C1'	-6.29	1.46	1.53
34	BA	1502	G	O3'-P	-6.29	1.53	1.61
34	BA	1668	C	C2'-C1'	-6.29	1.46	1.53
35	BB	775	U	C2'-C1'	-6.29	1.46	1.53
35	BB	1288	G	N9-C4	-6.29	1.32	1.38
35	BB	1359	G	N9-C8	-6.29	1.33	1.37
35	BB	1504	U	O3'-P	-6.29	1.53	1.61
85	AA	426	C	C3'-C2'	-6.29	1.45	1.52
85	AA	611	G	C5-C4	-6.29	1.33	1.38
85	AA	1460	G	O4'-C1'	-6.29	1.33	1.41
34	BA	83	G	N9-C8	-6.28	1.33	1.37
34	BA	107	C	O3'-P	-6.28	1.53	1.61
34	BA	364	C	C3'-C2'	-6.28	1.45	1.52
34	BA	971	G	N7-C5	-6.28	1.35	1.39
35	BB	104	G	C6-N1	-6.28	1.35	1.39
35	BB	459	U	P-O5'	-6.28	1.53	1.59
35	BB	810	G	N9-C8	-6.28	1.33	1.37
37	BD	91	U	N3-C4	-6.28	1.32	1.38
40	BG	162	A	O3'-P	-6.28	1.53	1.61
85	AA	164	G	C5'-C4'	-6.28	1.43	1.51
85	AA	543	A	N3-C4	-6.28	1.31	1.34
85	AA	626	G	C5'-C4'	-6.28	1.43	1.51
85	AA	1733	G	C4'-C3'	6.28	1.60	1.53
34	BA	341	U	C4'-O4'	-6.28	1.37	1.45
34	BA	1141	C	P-O5'	-6.28	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	28	C	C4'-O4'	-6.28	1.37	1.45
39	BF	4	A	N7-C5	-6.28	1.35	1.39
83	Bx	200	GLY	CA-C	-6.28	1.41	1.51
85	AA	779	G	C2'-C1'	-6.28	1.46	1.53
34	BA	14	G	C1'-N9	-6.28	1.38	1.46
34	BA	102	G	N7-C5	-6.28	1.35	1.39
34	BA	240	C	C3'-C2'	-6.28	1.45	1.52
34	BA	875	G	C3'-C2'	-6.28	1.45	1.52
34	BA	1003	A	N9-C8	-6.28	1.32	1.37
34	BA	1024	A	O3'-P	-6.28	1.53	1.61
34	BA	1226	G	N9-C8	-6.28	1.33	1.37
35	BB	528	G	O3'-P	-6.28	1.53	1.61
35	BB	902	C	O3'-P	-6.28	1.53	1.61
38	BE	143	A	O3'-P	-6.28	1.53	1.61
39	BF	35	C	C4-C5	-6.28	1.38	1.43
85	AA	17	C	O3'-P	-6.28	1.53	1.61
85	AA	93	G	C6-N1	-6.28	1.35	1.39
85	AA	1002	G	P-O5'	-6.28	1.53	1.59
85	AA	2141	G	N9-C8	-6.28	1.33	1.37
34	BA	366	G	C4'-C3'	-6.28	1.46	1.53
34	BA	890	G	C6-N1	-6.28	1.35	1.39
34	BA	1113	A	C3'-C2'	-6.28	1.45	1.52
34	BA	1458	A	O3'-P	-6.28	1.53	1.61
38	BE	165	U	C4'-C3'	-6.28	1.46	1.53
85	AA	116	G	O3'-P	-6.28	1.53	1.61
85	AA	1699	A	C2'-C1'	-6.28	1.46	1.53
34	BA	912	G	C6-N1	-6.28	1.35	1.39
34	BA	1062	G	C2'-C1'	-6.28	1.46	1.53
35	BB	404	A	C5-C4	-6.28	1.34	1.38
35	BB	1108	G	C5-C4	-6.28	1.33	1.38
38	BE	67	A	C3'-C2'	-6.28	1.45	1.52
38	BE	176	G	C6-N1	-6.28	1.35	1.39
85	AA	1035	C	C2'-C1'	-6.28	1.46	1.53
34	BA	151	A	C3'-C2'	6.28	1.59	1.52
34	BA	736	G	C8-N7	-6.28	1.27	1.30
34	BA	1279	U	O3'-P	-6.28	1.53	1.61
34	BA	1293	A	N3-C4	-6.28	1.31	1.34
34	BA	1312	A	C1'-N9	-6.28	1.38	1.46
34	BA	1560	U	C2'-C1'	-6.28	1.46	1.53
34	BA	1672	C	C2'-C1'	-6.28	1.46	1.53
34	BA	1700	C	C2-N3	-6.28	1.30	1.35
35	BB	96	A	C5-C6	-6.28	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	654	C	N1-C6	-6.28	1.33	1.37
35	BB	1102	U	C3'-C2'	-6.28	1.45	1.52
35	BB	1546	C	C2'-C1'	-6.28	1.46	1.53
41	BH	46	C	C2-N3	-6.28	1.30	1.35
85	AA	369	A	C3'-C2'	-6.28	1.45	1.52
85	AA	923	A	C3'-O3'	-6.28	1.33	1.42
36	BC	138	C	C5'-C4'	-6.27	1.43	1.51
39	BF	57	C	C5'-C4'	-6.27	1.43	1.51
85	AA	1289	U	C3'-C2'	-6.27	1.45	1.52
85	AA	2146	G	C4'-C3'	-6.27	1.46	1.53
34	BA	194	G	C4'-C3'	-6.27	1.46	1.53
34	BA	245	U	C3'-C2'	-6.27	1.45	1.52
34	BA	288	U	N3-C4	-6.27	1.32	1.38
34	BA	699	G	O3'-P	-6.27	1.53	1.61
34	BA	1292	A	C5-C4	-6.27	1.34	1.38
34	BA	1740	U	C2-N3	-6.27	1.33	1.37
35	BB	1115	G	C6-N1	-6.27	1.35	1.39
36	BC	52	A	N3-C4	-6.27	1.31	1.34
36	BC	121	G	N7-C5	-6.27	1.35	1.39
85	AA	126	U	C2'-C1'	-6.27	1.46	1.53
85	AA	672	U	C4'-C3'	-6.27	1.46	1.53
85	AA	927	A	C1'-N9	-6.27	1.38	1.46
4	A3	49	TYR	CB-CG	-6.27	1.42	1.51
34	BA	1283	U	C4'-C3'	-6.27	1.46	1.53
35	BB	1308	G	C2-N2	-6.27	1.28	1.34
35	BB	1459	U	N3-C4	-6.27	1.32	1.38
85	AA	696	G	P-O5'	-6.27	1.53	1.59
86	AB	24	G	C2-N2	-6.27	1.28	1.34
34	BA	401	A	O3'-P	-6.27	1.53	1.61
34	BA	490	A	C2'-C1'	-6.27	1.46	1.53
34	BA	979	G	C5-C6	-6.27	1.36	1.42
34	BA	1305	A	C6-N1	-6.27	1.31	1.35
35	BB	1507	U	C2'-C1'	-6.27	1.46	1.53
36	BC	112	G	C2'-C1'	-6.27	1.46	1.53
37	BD	117	U	O3'-P	-6.27	1.53	1.61
38	BE	176	G	C3'-C2'	-6.27	1.45	1.52
85	AA	21	U	P-O5'	-6.27	1.53	1.59
85	AA	57	G	C4'-C3'	-6.27	1.46	1.53
85	AA	407	G	N1-C2	-6.27	1.32	1.37
85	AA	580	C	C2'-C1'	-6.27	1.46	1.53
85	AA	2130	G	N1-C2	-6.27	1.32	1.37
85	AA	2242	U	P-O5'	-6.27	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	162	G	C5-C6	-6.27	1.36	1.42
34	BA	524	G	N9-C4	-6.27	1.32	1.38
34	BA	702	G	O3'-P	-6.27	1.53	1.61
34	BA	786	U	C4-C5	-6.27	1.38	1.43
34	BA	1155	U	C2'-C1'	-6.27	1.46	1.53
34	BA	1333	G	C5-C4	-6.27	1.33	1.38
34	BA	1579	G	C2'-C1'	-6.27	1.46	1.53
34	BA	1604	A	C1'-N9	-6.27	1.38	1.46
35	BB	12	G	C3'-C2'	-6.27	1.45	1.52
35	BB	421	U	P-O5'	-6.27	1.53	1.59
35	BB	1243	A	C3'-C2'	-6.27	1.45	1.52
35	BB	1469	A	N9-C4	-6.27	1.34	1.37
36	BC	50	C	C2-N3	-6.27	1.30	1.35
36	BC	92	C	C4'-C3'	-6.27	1.46	1.53
41	BH	23	G	C2-N2	-6.27	1.28	1.34
50	BQ	100	LYS	C-N	-6.27	1.22	1.34
85	AA	337	C	P-O5'	-6.27	1.53	1.59
85	AA	495	G	N7-C5	-6.27	1.35	1.39
85	AA	635	G	O3'-P	-6.27	1.53	1.61
85	AA	1179	A	N7-C5	-6.27	1.35	1.39
85	AA	1258	U	O3'-P	-6.27	1.53	1.61
85	AA	1449	C	C2'-C1'	-6.27	1.46	1.53
34	BA	461	A	C5-C4	-6.27	1.34	1.38
36	BC	163	A	C2'-C1'	-6.27	1.46	1.53
85	AA	472	A	N7-C5	-6.27	1.35	1.39
85	AA	867	G	C1'-N9	-6.27	1.38	1.46
34	BA	82	A	C4'-O4'	-6.26	1.37	1.45
34	BA	92	G	N1-C2	-6.26	1.32	1.37
34	BA	387	A	C1'-N9	-6.26	1.38	1.46
34	BA	1165	A	C2'-C1'	-6.26	1.46	1.53
34	BA	1320	A	O3'-P	-6.26	1.53	1.61
34	BA	1557	G	C5-C6	-6.26	1.36	1.42
34	BA	1563	G	C4'-C3'	-6.26	1.46	1.53
34	BA	1793	G	C2-N3	-6.26	1.27	1.32
35	BB	33	A	N3-C4	-6.26	1.31	1.34
35	BB	1075	A	O3'-P	-6.26	1.53	1.61
36	BC	128	U	C2-N3	-6.26	1.33	1.37
40	BG	88	G	C3'-C2'	-6.26	1.45	1.52
85	AA	80	G	C2-N2	-6.26	1.28	1.34
85	AA	241	U	C4'-C3'	-6.26	1.46	1.53
85	AA	333	A	C8-N7	-6.26	1.27	1.31
85	AA	418	G	C1'-N9	-6.26	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	431	G	N9-C4	-6.26	1.32	1.38
85	AA	666	A	P-O5'	-6.26	1.53	1.59
85	AA	758	C	C2-N3	-6.26	1.30	1.35
85	AA	1185	G	O3'-P	-6.26	1.53	1.61
34	BA	373	G	O3'-P	-6.26	1.53	1.61
34	BA	427	G	C3'-C2'	-6.26	1.45	1.52
34	BA	714	G	P-O5'	-6.26	1.53	1.59
34	BA	1546	C	C3'-C2'	-6.26	1.45	1.52
35	BB	503	G	O3'-P	-6.26	1.53	1.61
85	AA	352	G	C5-C4	-6.26	1.33	1.38
85	AA	443	A	C4'-C3'	-6.26	1.46	1.53
85	AA	595	A	O3'-P	-6.26	1.53	1.61
34	BA	122	U	C2-N3	-6.26	1.33	1.37
34	BA	432	A	P-O5'	-6.26	1.53	1.59
34	BA	849	G	O3'-P	-6.26	1.53	1.61
34	BA	865	C	N3-C4	6.26	1.38	1.33
34	BA	943	G	C2'-C1'	-6.26	1.46	1.53
35	BB	546	A	P-O5'	-6.26	1.53	1.59
35	BB	596	C	C4'-C3'	-6.26	1.46	1.53
35	BB	830	G	N9-C4	-6.26	1.32	1.38
35	BB	1284	U	N3-C4	-6.26	1.32	1.38
37	BD	77	A	N9-C8	-6.26	1.32	1.37
39	BF	58	U	C1'-N1	-6.26	1.38	1.46
85	AA	65	A	P-O5'	-6.26	1.53	1.59
85	AA	192	G	O3'-P	-6.26	1.53	1.61
85	AA	504	U	C3'-C2'	-6.26	1.45	1.52
85	AA	706	U	N3-C4	-6.26	1.32	1.38
85	AA	941	C	P-O5'	-6.26	1.53	1.59
85	AA	1251	G	C8-N7	-6.26	1.27	1.30
85	AA	1674	G	C5-C4	-6.26	1.33	1.38
85	AA	2201	A	N9-C8	-6.26	1.32	1.37
34	BA	367	G	C5-C6	-6.26	1.36	1.42
34	BA	794	G	C4'-C3'	-6.26	1.46	1.53
34	BA	986	G	C2'-C1'	-6.26	1.46	1.53
34	BA	1213	A	C8-N7	-6.26	1.27	1.31
35	BB	1391	G	N9-C4	-6.26	1.32	1.38
39	BF	30	C	P-O5'	-6.26	1.53	1.59
82	Bw	137	PRO	CA-C	-6.26	1.40	1.52
85	AA	395	G	C4'-O4'	-6.26	1.37	1.45
85	AA	2130	G	C5-C6	-6.26	1.36	1.42
34	BA	1688	G	C5-C4	-6.26	1.33	1.38
35	BB	702	G	C3'-C2'	-6.26	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	782	A	C4'-C3'	-6.26	1.46	1.53
35	BB	1233	U	P-O5'	-6.26	1.53	1.59
85	AA	759	G	C2'-C1'	-6.26	1.46	1.53
34	BA	263	G	O3'-P	-6.26	1.53	1.61
34	BA	991	U	C2'-C1'	-6.26	1.46	1.53
34	BA	1250	C	C3'-C2'	-6.26	1.45	1.52
34	BA	1514	A	C5-C4	-6.26	1.34	1.38
34	BA	1604	A	C2'-C1'	-6.26	1.46	1.53
34	BA	1637	G	C2'-C1'	-6.26	1.46	1.53
35	BB	1205	A	N9-C8	-6.26	1.32	1.37
39	BF	5	U	N3-C4	-6.26	1.32	1.38
85	AA	156	G	N1-C2	-6.26	1.32	1.37
85	AA	883	A	C4'-C3'	-6.26	1.46	1.53
85	AA	1508	A	C5-C4	-6.26	1.34	1.38
34	BA	1175	G	C2-N2	-6.25	1.28	1.34
34	BA	1416	C	C1'-N1	-6.25	1.38	1.46
34	BA	1498	A	P-O5'	-6.25	1.53	1.59
34	BA	1514	A	O3'-P	-6.25	1.53	1.61
35	BB	22	A	P-O5'	-6.25	1.53	1.59
35	BB	82	G	C3'-C2'	-6.25	1.45	1.52
35	BB	785	G	O3'-P	-6.25	1.53	1.61
40	BG	72	G	C1'-N9	-6.25	1.38	1.46
41	BH	13	C	C4'-C3'	-6.25	1.46	1.53
85	AA	9	U	P-O5'	-6.25	1.53	1.59
34	BA	15	G	C5-C4	-6.25	1.33	1.38
34	BA	855	C	C3'-C2'	-6.25	1.45	1.52
34	BA	966	G	N9-C8	-6.25	1.33	1.37
34	BA	1704	G	N9-C4	-6.25	1.32	1.38
34	BA	1800	G	C2-N3	-6.25	1.27	1.32
35	BB	1084	A	C1'-N9	-6.25	1.38	1.46
35	BB	1544	A	P-O5'	-6.25	1.53	1.59
36	BC	66	G	C5-C4	-6.25	1.33	1.38
40	BG	56	G	C4'-C3'	-6.25	1.46	1.53
40	BG	141	A	C5-C4	-6.25	1.34	1.38
85	AA	30	G	C1'-N9	-6.25	1.38	1.46
85	AA	2114	U	O3'-P	-6.25	1.53	1.61
85	AA	2204	A	P-O5'	-6.25	1.53	1.59
34	BA	793	A	N9-C8	-6.25	1.32	1.37
34	BA	1343	A	P-O5'	-6.25	1.53	1.59
34	BA	1711	G	C4'-C3'	-6.25	1.46	1.53
35	BB	367	C	P-O5'	-6.25	1.53	1.59
35	BB	564	U	O3'-P	-6.25	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	80	G	C2-N2	-6.25	1.28	1.34
39	BF	54	U	C4-C5	-6.25	1.38	1.43
41	BH	21	G	C6-N1	-6.25	1.35	1.39
85	AA	718	C	C2-N3	-6.25	1.30	1.35
85	AA	875	C	C2-N3	6.25	1.40	1.35
85	AA	1151	G	C2'-C1'	-6.25	1.46	1.53
85	AA	1223	A	C5-C4	-6.25	1.34	1.38
85	AA	1866	A	O3'-P	-6.25	1.53	1.61
34	BA	783	U	C2'-C1'	-6.25	1.46	1.53
34	BA	1062	G	C5-C4	-6.25	1.33	1.38
34	BA	1211	G	C4'-O4'	-6.25	1.37	1.45
40	BG	99	A	N7-C5	-6.25	1.35	1.39
85	AA	999	A	N9-C4	6.25	1.41	1.37
85	AA	1707	G	P-O5'	-6.25	1.53	1.59
85	AA	2156	C	P-O5'	-6.25	1.53	1.59
34	BA	173	U	C2-N3	-6.25	1.33	1.37
34	BA	196	A	N7-C5	-6.25	1.35	1.39
34	BA	521	C	C2'-C1'	-6.25	1.46	1.53
34	BA	794	G	N9-C8	-6.25	1.33	1.37
34	BA	1812	C	C2'-C1'	-6.25	1.46	1.53
35	BB	461	U	C4-C5	-6.25	1.38	1.43
35	BB	1117	G	P-O5'	-6.25	1.53	1.59
37	BD	101	A	C2'-C1'	-6.25	1.46	1.53
38	BE	90	G	P-O5'	-6.25	1.53	1.59
38	BE	197	A	O3'-P	-6.25	1.53	1.61
85	AA	9	U	C2'-C1'	-6.25	1.46	1.53
85	AA	24	U	C3'-C2'	-6.25	1.45	1.52
85	AA	107	A	N3-C4	-6.25	1.31	1.34
85	AA	109	G	C2'-C1'	-6.25	1.46	1.53
85	AA	395	G	N7-C5	-6.25	1.35	1.39
85	AA	442	G	C2-N2	-6.25	1.28	1.34
34	BA	406	G	N7-C5	-6.25	1.35	1.39
34	BA	416	A	O3'-P	-6.25	1.53	1.61
34	BA	496	G	C1'-N9	-6.25	1.38	1.46
34	BA	959	G	O4'-C1'	-6.25	1.33	1.41
35	BB	27	C	C3'-O3'	-6.25	1.33	1.42
35	BB	333	C	P-O5'	-6.25	1.53	1.59
35	BB	963	G	C3'-C2'	-6.25	1.45	1.52
35	BB	1125	A	C2'-C1'	-6.25	1.46	1.53
36	BC	62	A	C1'-N9	-6.25	1.38	1.46
85	AA	634	U	P-O5'	-6.25	1.53	1.59
34	BA	1210	A	N3-C4	-6.25	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1645	C	C2-N3	-6.25	1.30	1.35
35	BB	1046	C	C4'-C3'	-6.25	1.46	1.53
38	BE	20	C	N1-C6	-6.25	1.33	1.37
38	BE	91	G	C5-C4	-6.25	1.33	1.38
85	AA	1665	G	N7-C5	-6.25	1.35	1.39
34	BA	254	U	C2'-C1'	-6.24	1.46	1.53
34	BA	294	C	O3'-P	-6.24	1.53	1.61
34	BA	752	A	O4'-C1'	-6.24	1.33	1.41
34	BA	1240	G	C3'-C2'	-6.24	1.45	1.52
35	BB	377	A	N9-C4	-6.24	1.34	1.37
35	BB	533	U	C2'-C1'	-6.24	1.46	1.53
35	BB	551	C	C3'-C2'	-6.24	1.45	1.52
35	BB	629	C	O3'-P	-6.24	1.53	1.61
35	BB	635	A	C2'-C1'	-6.24	1.46	1.53
35	BB	677	U	C4'-C3'	-6.24	1.46	1.53
36	BC	112	G	N9-C4	-6.24	1.32	1.38
38	BE	50	G	N7-C5	-6.24	1.35	1.39
85	AA	860	C	N1-C2	6.24	1.46	1.40
85	AA	1221	G	C5-C4	-6.24	1.33	1.38
85	AA	1576	G	C2'-C1'	-6.24	1.46	1.53
85	AA	2016	A	C1'-N9	-6.24	1.38	1.46
85	AA	2114	U	C2'-C1'	-6.24	1.46	1.53
34	BA	221	G	C2-N2	-6.24	1.28	1.34
34	BA	1161	G	C5'-C4'	6.24	1.58	1.51
34	BA	1226	G	C6-N1	-6.24	1.35	1.39
34	BA	1708	A	P-O5'	-6.24	1.53	1.59
35	BB	490	G	C2-N2	-6.24	1.28	1.34
35	BB	976	U	N1-C6	-6.24	1.32	1.38
35	BB	1286	G	C3'-C2'	-6.24	1.45	1.52
37	BD	3	G	O4'-C1'	-6.24	1.33	1.41
34	BA	741	A	C4'-C3'	-6.24	1.46	1.53
34	BA	779	U	C2-N3	6.24	1.42	1.37
34	BA	1221	A	N9-C4	-6.24	1.34	1.37
34	BA	1427	U	C2'-C1'	-6.24	1.46	1.53
34	BA	1572	G	C1'-N9	-6.24	1.38	1.46
35	BB	659	C	C2-N3	-6.24	1.30	1.35
35	BB	1496	C	C2'-C1'	-6.24	1.46	1.53
35	BB	1502	U	O3'-P	-6.24	1.53	1.61
36	BC	102	G	N9-C8	-6.24	1.33	1.37
37	BD	40	C	O3'-P	-6.24	1.53	1.61
38	BE	91	G	O3'-P	-6.24	1.53	1.61
40	BG	63	U	C4'-C3'	-6.24	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	625	G	N7-C5	-6.24	1.35	1.39
34	BA	54	A	C2'-C1'	-6.24	1.46	1.53
34	BA	162	G	C1'-N9	-6.24	1.38	1.46
34	BA	210	G	C4'-C3'	6.24	1.60	1.53
34	BA	535	G	C2-N3	6.24	1.37	1.32
34	BA	1232	C	O3'-P	-6.24	1.53	1.61
34	BA	1720	U	O4'-C1'	-6.24	1.33	1.41
35	BB	77	A	O4'-C1'	-6.24	1.33	1.41
35	BB	1206	G	C1'-N9	-6.24	1.38	1.46
36	BC	104	A	C1'-N9	-6.24	1.38	1.46
38	BE	138	U	C2-N3	-6.24	1.33	1.37
41	BH	113	G	C2-N3	-6.24	1.27	1.32
85	AA	410	A	P-O5'	-6.24	1.53	1.59
85	AA	1109	G	C3'-C2'	-6.24	1.45	1.52
85	AA	1116	G	C1'-N9	-6.24	1.38	1.46
85	AA	1698	A	C1'-N9	-6.24	1.38	1.46
34	BA	334	G	C1'-N9	-6.24	1.38	1.46
34	BA	1419	A	N9-C4	-6.24	1.34	1.37
36	BC	118	U	C2-N3	-6.24	1.33	1.37
39	BF	55	A	P-O5'	-6.24	1.53	1.59
85	AA	101	C	O3'-P	-6.24	1.53	1.61
85	AA	107	A	P-O5'	-6.24	1.53	1.59
85	AA	340	G	C2'-C1'	-6.24	1.46	1.53
85	AA	1130	G	C1'-N9	-6.24	1.38	1.46
34	BA	27	G	P-O5'	-6.24	1.53	1.59
34	BA	39	C	N1-C6	-6.24	1.33	1.37
34	BA	525	A	N7-C5	-6.24	1.35	1.39
34	BA	629	G	N9-C8	-6.24	1.33	1.37
34	BA	1155	U	N1-C2	-6.24	1.32	1.38
35	BB	376	A	P-O5'	-6.24	1.53	1.59
35	BB	970	C	C3'-C2'	-6.24	1.45	1.52
35	BB	1394	A	C2'-C1'	-6.24	1.46	1.53
36	BC	40	A	N3-C4	-6.24	1.31	1.34
85	AA	129	U	O3'-P	-6.24	1.53	1.61
85	AA	276	C	C1'-N1	-6.24	1.38	1.46
85	AA	747	U	O3'-P	-6.24	1.53	1.61
85	AA	1670	U	N3-C4	-6.24	1.32	1.38
34	BA	439	A	C2'-C1'	-6.23	1.46	1.53
34	BA	458	G	C5'-C4'	-6.23	1.43	1.51
34	BA	887	U	O3'-P	-6.23	1.53	1.61
34	BA	890	G	C3'-C2'	-6.23	1.45	1.52
35	BB	86	A	C2'-C1'	-6.23	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1074	U	C2-N3	-6.23	1.33	1.37
85	AA	717	G	N1-C2	-6.23	1.32	1.37
34	BA	915	A	C1'-N9	-6.23	1.38	1.46
34	BA	1046	G	C5-C4	-6.23	1.33	1.38
34	BA	1135	U	C2-N3	-6.23	1.33	1.37
34	BA	1671	A	N7-C5	-6.23	1.35	1.39
35	BB	1067	G	O3'-P	-6.23	1.53	1.61
35	BB	1272	G	C5-C4	-6.23	1.33	1.38
40	BG	102	G	C2-N2	-6.23	1.28	1.34
85	AA	28	A	C5-C4	-6.23	1.34	1.38
85	AA	1703	A	C3'-C2'	-6.23	1.45	1.52
85	AA	1889	U	O3'-P	-6.23	1.53	1.61
85	AA	1948	A	C2'-C1'	-6.23	1.46	1.53
34	BA	729	C	C2-N3	-6.23	1.30	1.35
35	BB	608	A	C5-C4	-6.23	1.34	1.38
35	BB	1372	G	C5-C4	-6.23	1.33	1.38
36	BC	2	A	C5-C4	-6.23	1.34	1.38
39	BF	14	C	C3'-C2'	-6.23	1.45	1.52
40	BG	121	C	O3'-P	-6.23	1.53	1.61
41	BH	43	G	C2-N2	-6.23	1.28	1.34
85	AA	965	G	N9-C4	-6.23	1.32	1.38
85	AA	1293	U	C2-N3	-6.23	1.33	1.37
85	AA	1495	G	C5'-C4'	-6.23	1.43	1.51
85	AA	2192	A	C3'-C2'	-6.23	1.45	1.52
35	BB	1035	C	C3'-C2'	-6.23	1.45	1.52
35	BB	1487	G	N1-C2	-6.23	1.32	1.37
34	BA	9	A	C3'-C2'	-6.23	1.45	1.52
34	BA	373	G	P-O5'	-6.23	1.53	1.59
34	BA	484	A	C5-C4	-6.23	1.34	1.38
34	BA	744	G	C6-N1	-6.23	1.35	1.39
34	BA	946	A	C4'-C3'	-6.23	1.46	1.53
34	BA	1820	G	C2'-C1'	-6.23	1.46	1.53
35	BB	390	G	N1-C2	-6.23	1.32	1.37
35	BB	815	G	O3'-P	-6.23	1.53	1.61
35	BB	1102	U	O4'-C1'	-6.23	1.33	1.41
35	BB	1220	A	C1'-N9	-6.23	1.38	1.46
35	BB	1273	G	O3'-P	-6.23	1.53	1.61
38	BE	34	C	N1-C6	-6.23	1.33	1.37
40	BG	145	C	P-O5'	-6.23	1.53	1.59
85	AA	1221	G	C4'-C3'	-6.23	1.46	1.53
85	AA	1734	A	C1'-N9	-6.23	1.38	1.46
85	AA	2172	A	C2'-C1'	-6.23	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	523	A	P-O5'	-6.23	1.53	1.59
34	BA	864	G	C2-N3	-6.23	1.27	1.32
35	BB	101	U	C4'-C3'	-6.23	1.46	1.53
35	BB	1265	U	C2-N3	-6.23	1.33	1.37
35	BB	1314	G	C4'-C3'	-6.23	1.46	1.53
34	BA	43	U	O4'-C1'	-6.22	1.33	1.41
34	BA	220	U	C2'-C1'	-6.22	1.46	1.53
34	BA	726	G	C2-N2	-6.22	1.28	1.34
34	BA	1093	G	C5-C4	-6.22	1.33	1.38
34	BA	1098	G	C6-N1	-6.22	1.35	1.39
35	BB	570	A	C2'-C1'	-6.22	1.46	1.53
35	BB	622	G	C5-C4	-6.22	1.33	1.38
35	BB	634	A	C1'-N9	-6.22	1.38	1.46
35	BB	874	G	C3'-C2'	-6.22	1.46	1.52
85	AA	350	U	C2'-C1'	-6.22	1.46	1.53
85	AA	886	A	C3'-C2'	-6.22	1.46	1.52
85	AA	1923	A	O3'-P	-6.22	1.53	1.61
34	BA	1287	G	C5-C4	-6.22	1.33	1.38
34	BA	1468	U	C2-N3	-6.22	1.33	1.37
34	BA	1706	A	C6-N6	-6.22	1.28	1.33
35	BB	493	U	C2-N3	-6.22	1.33	1.37
35	BB	1196	A	N7-C5	-6.22	1.35	1.39
36	BC	61	A	N7-C5	-6.22	1.35	1.39
38	BE	197	A	N7-C5	-6.22	1.35	1.39
41	BH	15	A	C4'-C3'	-6.22	1.46	1.53
41	BH	55	C	C2'-C1'	-6.22	1.46	1.53
67	Bh	142	GLY	CA-C	-6.22	1.41	1.51
85	AA	397	G	N1-C2	-6.22	1.32	1.37
85	AA	664	C	P-O5'	-6.22	1.53	1.59
85	AA	924	A	C3'-C2'	-6.22	1.46	1.52
85	AA	1190	G	C1'-N9	-6.22	1.38	1.46
85	AA	1275	A	C6-N1	-6.22	1.31	1.35
85	AA	1477	A	C2'-C1'	-6.22	1.46	1.53
85	AA	1634	U	C2-N3	-6.22	1.33	1.37
85	AA	1669	G	C1'-N9	-6.22	1.38	1.46
85	AA	2141	G	C4'-O4'	-6.22	1.37	1.45
34	BA	399	G	N7-C5	-6.22	1.35	1.39
34	BA	1653	G	P-O5'	-6.22	1.53	1.59
40	BG	174	G	C5-C6	-6.22	1.36	1.42
85	AA	910	G	N9-C4	-6.22	1.32	1.38
85	AA	1679	U	C3'-C2'	-6.22	1.46	1.52
34	BA	18	G	N9-C8	-6.22	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	362	G	O3'-P	-6.22	1.53	1.61
34	BA	456	G	C3'-C2'	-6.22	1.46	1.52
34	BA	1069	U	O3'-P	-6.22	1.53	1.61
34	BA	1073	G	C2'-C1'	-6.22	1.46	1.53
85	AA	1	G	N3-C4	-6.22	1.31	1.35
85	AA	585	G	C2-N2	-6.22	1.28	1.34
34	BA	198	U	N1-C2	-6.22	1.32	1.38
34	BA	1195	G	O4'-C1'	-6.22	1.33	1.41
34	BA	1545	C	O3'-P	-6.22	1.53	1.61
35	BB	850	U	O4'-C1'	-6.22	1.33	1.41
34	BA	267	G	C3'-C2'	-6.22	1.46	1.52
34	BA	431	A	C1'-N9	-6.22	1.38	1.46
35	BB	450	A	C2'-C1'	-6.22	1.46	1.53
35	BB	734	A	O3'-P	-6.22	1.53	1.61
35	BB	1144	A	C6-N6	-6.22	1.28	1.33
35	BB	1153	G	N1-C2	-6.22	1.32	1.37
37	BD	104	C	C3'-C2'	-6.22	1.46	1.52
85	AA	419	A	C3'-C2'	-6.22	1.46	1.52
85	AA	555	C	O3'-P	-6.22	1.53	1.61
85	AA	2032	G	O3'-P	-6.22	1.53	1.61
34	BA	108	A	C8-N7	-6.21	1.27	1.31
34	BA	785	G	C2'-C1'	-6.21	1.46	1.53
35	BB	1133	C	C4'-C3'	-6.21	1.46	1.53
35	BB	1152	U	C2-N3	-6.21	1.33	1.37
35	BB	1414	A	N9-C8	-6.21	1.32	1.37
36	BC	55	U	N3-C4	-6.21	1.32	1.38
36	BC	104	A	N9-C4	-6.21	1.34	1.37
40	BG	173	C	N1-C6	-6.21	1.33	1.37
85	AA	1272	G	N3-C4	-6.21	1.31	1.35
34	BA	774	A	C5-C4	-6.21	1.34	1.38
34	BA	1140	A	O3'-P	-6.21	1.53	1.61
35	BB	112	G	N3-C4	-6.21	1.31	1.35
35	BB	813	C	C2-N3	-6.21	1.30	1.35
35	BB	1137	G	C2-N2	-6.21	1.28	1.34
85	AA	1668	G	N9-C4	-6.21	1.32	1.38
85	AA	1799	C	C2'-C1'	-6.21	1.46	1.53
34	BA	191	G	C1'-N9	-6.21	1.38	1.46
34	BA	239	C	P-O5'	-6.21	1.53	1.59
34	BA	1109	G	N1-C2	-6.21	1.32	1.37
34	BA	1197	U	C2-N3	-6.21	1.33	1.37
34	BA	1299	G	C3'-C2'	-6.21	1.46	1.52
34	BA	1515	U	C2'-C1'	-6.21	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	483	C	C1'-N1	-6.21	1.38	1.46
35	BB	628	A	N7-C5	-6.21	1.35	1.39
35	BB	1453	G	N9-C4	-6.21	1.32	1.38
38	BE	7	U	C2-N3	-6.21	1.33	1.37
38	BE	163	A	O3'-P	-6.21	1.53	1.61
40	BG	8	U	O3'-P	-6.21	1.53	1.61
85	AA	254	G	C2'-C1'	-6.21	1.46	1.53
85	AA	1170	C	O3'-P	-6.21	1.53	1.61
85	AA	1674	G	C1'-N9	-6.21	1.38	1.46
85	AA	2138	G	N9-C8	-6.21	1.33	1.37
34	BA	584	A	O3'-P	-6.21	1.53	1.61
36	BC	163	A	C1'-N9	-6.21	1.38	1.46
37	BD	61	C	C2-N3	-6.21	1.30	1.35
38	BE	35	A	N9-C4	-6.21	1.34	1.37
34	BA	273	G	P-O5'	-6.21	1.53	1.59
34	BA	324	C	O4'-C1'	-6.21	1.33	1.41
34	BA	566	G	C1'-N9	-6.21	1.38	1.46
34	BA	727	G	C1'-N9	-6.21	1.38	1.46
34	BA	1143	U	N3-C4	-6.21	1.32	1.38
35	BB	792	G	C2'-C1'	-6.21	1.46	1.53
35	BB	1104	A	C4'-O4'	-6.21	1.37	1.45
36	BC	90	U	P-O5'	-6.21	1.53	1.59
85	AA	24	U	C1'-N1	-6.21	1.38	1.46
85	AA	253	C	O3'-P	-6.21	1.53	1.61
34	BA	406	G	N3-C4	-6.21	1.31	1.35
35	BB	443	A	C5-C4	-6.21	1.34	1.38
35	BB	702	G	C2-N2	-6.21	1.28	1.34
35	BB	1134	G	C5-C6	-6.21	1.36	1.42
35	BB	1369	A	N3-C4	-6.21	1.31	1.34
35	BB	1445	A	N3-C4	-6.21	1.31	1.34
35	BB	1480	G	O3'-P	-6.21	1.53	1.61
38	BE	65	U	C4'-C3'	-6.21	1.46	1.53
39	BF	36	G	C3'-C2'	-6.21	1.46	1.52
85	AA	1102	C	P-O5'	-6.21	1.53	1.59
34	BA	418	G	N7-C5	-6.21	1.35	1.39
34	BA	897	U	C3'-C2'	-6.21	1.46	1.52
34	BA	1054	U	O4'-C1'	-6.21	1.33	1.41
34	BA	1546	C	C2-N3	-6.21	1.30	1.35
34	BA	1557	G	C3'-C2'	-6.21	1.46	1.52
35	BB	642	G	N7-C5	-6.21	1.35	1.39
23	AP	50	GLY	CA-C	-6.20	1.42	1.51
34	BA	127	U	O4'-C1'	-6.20	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	395	G	C4'-O4'	-6.20	1.37	1.45
34	BA	1035	A	O3'-P	-6.20	1.53	1.61
34	BA	1282	G	C5-C4	-6.20	1.34	1.38
35	BB	102	G	C6-N1	-6.20	1.35	1.39
35	BB	789	G	C2'-C1'	-6.20	1.46	1.53
35	BB	829	C	C3'-C2'	-6.20	1.46	1.52
35	BB	1200	A	N9-C4	6.20	1.41	1.37
39	BF	9	C	C2-N3	-6.20	1.30	1.35
40	BG	169	A	N9-C8	-6.20	1.32	1.37
85	AA	863	C	C2'-C1'	-6.20	1.46	1.53
85	AA	1036	A	O3'-P	-6.20	1.53	1.61
85	AA	1656	C	P-O5'	-6.20	1.53	1.59
85	AA	1823	G	C2'-C1'	-6.20	1.46	1.53
85	AA	1915	C	O3'-P	-6.20	1.53	1.61
85	AA	2105	G	C2-N2	-6.20	1.28	1.34
85	AA	2200	A	C2'-C1'	-6.20	1.46	1.53
85	AA	2203	C	C2-N3	-6.20	1.30	1.35
86	AB	14	A	C4'-C3'	6.20	1.59	1.53
34	BA	329	G	C6-N1	-6.20	1.35	1.39
34	BA	1256	A	P-O5'	-6.20	1.53	1.59
35	BB	43	G	C6-N1	-6.20	1.35	1.39
35	BB	652	G	P-O5'	-6.20	1.53	1.59
35	BB	1036	G	N9-C4	-6.20	1.32	1.38
35	BB	1063	C	C4'-C3'	-6.20	1.46	1.53
37	BD	69	U	O3'-P	-6.20	1.53	1.61
85	AA	1290	G	C2'-C1'	-6.20	1.46	1.53
85	AA	1583	U	O3'-P	-6.20	1.53	1.61
34	BA	422	C	C4'-C3'	-6.20	1.46	1.53
34	BA	1302	C	O3'-P	-6.20	1.53	1.61
35	BB	132	G	N9-C8	-6.20	1.33	1.37
35	BB	1070	G	C2-N2	-6.20	1.28	1.34
36	BC	57	C	C2-N3	-6.20	1.30	1.35
40	BG	105	A	C2'-C1'	-6.20	1.46	1.53
85	AA	377	U	N3-C4	-6.20	1.32	1.38
85	AA	637	U	C2-N3	-6.20	1.33	1.37
85	AA	1692	U	N3-C4	-6.20	1.32	1.38
85	AA	2226	U	O3'-P	-6.20	1.53	1.61
34	BA	41	U	C2'-C1'	-6.20	1.46	1.53
34	BA	98	A	P-O5'	-6.20	1.53	1.59
34	BA	358	A	C5-C4	-6.20	1.34	1.38
34	BA	383	G	C2-N2	-6.20	1.28	1.34
34	BA	418	G	C5-C4	-6.20	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	456	G	N7-C5	-6.20	1.35	1.39
34	BA	674	G	C2'-C1'	-6.20	1.46	1.53
34	BA	751	A	C8-N7	-6.20	1.27	1.31
34	BA	1428	G	N7-C5	-6.20	1.35	1.39
36	BC	119	G	C2'-C1'	-6.20	1.46	1.53
36	BC	133	C	C2'-C1'	-6.20	1.46	1.53
85	AA	10	G	C6-N1	-6.20	1.35	1.39
85	AA	451	G	P-O5'	-6.20	1.53	1.59
85	AA	537	G	O3'-P	-6.20	1.53	1.61
85	AA	877	G	C6-N1	-6.20	1.35	1.39
85	AA	1211	C	C1'-N1	-6.20	1.38	1.46
85	AA	1494	C	O3'-P	-6.20	1.53	1.61
85	AA	2220	U	P-O5'	-6.20	1.53	1.59
40	BG	179	C	P-O5'	-6.20	1.53	1.59
85	AA	1218	C	N1-C6	-6.20	1.33	1.37
85	AA	1462	A	N7-C5	-6.20	1.35	1.39
34	BA	151	A	N9-C4	6.20	1.41	1.37
34	BA	453	A	C3'-C2'	-6.20	1.46	1.52
35	BB	107	A	C3'-C2'	-6.20	1.46	1.52
35	BB	1347	C	O3'-P	-6.20	1.53	1.61
36	BC	21	U	C2-N3	-6.20	1.33	1.37
85	AA	492	C	C2'-C1'	-6.20	1.46	1.53
85	AA	506	G	C1'-N9	-6.20	1.38	1.46
85	AA	709	A	C4'-C3'	-6.20	1.46	1.53
85	AA	1110	A	C5-C4	-6.20	1.34	1.38
85	AA	1164	A	C3'-C2'	-6.20	1.46	1.52
85	AA	1203	G	P-O5'	-6.20	1.53	1.59
85	AA	2227	A	C1'-N9	-6.20	1.38	1.46
34	BA	510	U	O3'-P	-6.19	1.53	1.61
34	BA	764	G	C6-N1	-6.19	1.35	1.39
35	BB	114	A	C2'-C1'	-6.19	1.46	1.53
40	BG	21	C	C5'-C4'	6.19	1.58	1.51
85	AA	1476	C	C1'-N1	-6.19	1.38	1.46
85	AA	1492	U	C2'-C1'	-6.19	1.46	1.53
85	AA	2095	U	C2-N3	-6.19	1.33	1.37
34	BA	580	U	N1-C2	-6.19	1.32	1.38
34	BA	650	C	O3'-P	-6.19	1.53	1.61
34	BA	960	C	O3'-P	-6.19	1.53	1.61
34	BA	1261	G	C3'-C2'	-6.19	1.46	1.52
35	BB	75	A	C1'-N9	-6.19	1.38	1.46
35	BB	670	G	N9-C4	-6.19	1.32	1.38
40	BG	74	G	O3'-P	-6.19	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	123	C	C2-N3	-6.19	1.30	1.35
85	AA	1451	U	C2-N3	-6.19	1.33	1.37
85	AA	1500	C	P-O5'	-6.19	1.53	1.59
85	AA	1707	G	C2'-C1'	-6.19	1.46	1.53
34	BA	1147	C	C2'-C1'	-6.19	1.46	1.53
35	BB	402	G	C2-N2	-6.19	1.28	1.34
35	BB	546	A	O4'-C1'	-6.19	1.33	1.41
35	BB	1136	G	N7-C5	-6.19	1.35	1.39
35	BB	1213	U	O3'-P	-6.19	1.53	1.61
35	BB	1289	G	O3'-P	-6.19	1.53	1.61
36	BC	34	U	C4'-O4'	-6.19	1.37	1.45
38	BE	129	G	N1-C2	-6.19	1.32	1.37
40	BG	156	G	P-O5'	-6.19	1.53	1.59
85	AA	256	A	N9-C4	-6.19	1.34	1.37
85	AA	411	U	N3-C4	-6.19	1.32	1.38
85	AA	1659	C	O3'-P	-6.19	1.53	1.61
85	AA	1987	G	P-O5'	-6.19	1.53	1.59
35	BB	445	G	C2'-C1'	-6.19	1.46	1.53
35	BB	470	C	C3'-C2'	-6.19	1.46	1.52
35	BB	806	U	C4-O4	-6.19	1.18	1.23
36	BC	90	U	C3'-C2'	-6.19	1.46	1.52
36	BC	109	A	C1'-N9	-6.19	1.38	1.46
40	BG	74	G	C5-C4	-6.19	1.34	1.38
41	BH	36	C	C4'-O4'	-6.19	1.37	1.45
85	AA	405	C	P-O5'	-6.19	1.53	1.59
85	AA	1147	A	N7-C5	-6.19	1.35	1.39
34	BA	89	G	O4'-C1'	-6.19	1.33	1.41
34	BA	1409	A	C8-N7	-6.19	1.27	1.31
36	BC	152	C	C4'-O4'	-6.19	1.37	1.45
37	BD	13	A	O3'-P	-6.19	1.53	1.61
38	BE	32	U	N1-C2	-6.19	1.32	1.38
40	BG	35	G	C3'-C2'	-6.19	1.46	1.52
40	BG	73	U	N3-C4	-6.19	1.32	1.38
40	BG	112	C	C4'-C3'	-6.19	1.46	1.53
40	BG	132	U	C2'-C1'	-6.19	1.46	1.53
85	AA	181	A	P-O5'	-6.19	1.53	1.59
85	AA	775	C	C2-N3	-6.19	1.30	1.35
34	BA	32	A	P-O5'	-6.19	1.53	1.59
34	BA	419	U	O3'-P	-6.19	1.53	1.61
34	BA	689	C	O3'-P	-6.19	1.53	1.61
34	BA	1209	A	O3'-P	-6.19	1.53	1.61
34	BA	1590	G	C2-N2	-6.19	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1735	G	C5'-C4'	-6.19	1.44	1.51
34	BA	1842	U	O3'-P	-6.19	1.53	1.61
35	BB	73	G	C6-N1	-6.19	1.35	1.39
35	BB	421	U	C2'-C1'	-6.19	1.46	1.53
35	BB	575	C	O3'-P	-6.19	1.53	1.61
85	AA	42	G	C2-N2	-6.19	1.28	1.34
85	AA	392	G	C2-N2	-6.19	1.28	1.34
85	AA	464	A	C8-N7	-6.19	1.27	1.31
85	AA	2141	G	C5-C6	-6.19	1.36	1.42
34	BA	271	C	C5'-C4'	6.18	1.58	1.51
34	BA	697	A	C2'-C1'	-6.18	1.46	1.53
34	BA	730	C	C3'-C2'	-6.18	1.46	1.52
35	BB	479	U	C2-N3	-6.18	1.33	1.37
35	BB	504	C	N1-C2	-6.18	1.33	1.40
35	BB	544	C	C2-N3	-6.18	1.30	1.35
35	BB	788	U	C1'-N1	-6.18	1.38	1.46
35	BB	1159	U	C3'-C2'	-6.18	1.46	1.52
38	BE	34	C	C3'-C2'	-6.18	1.46	1.52
34	BA	72	U	C2-N3	-6.18	1.33	1.37
34	BA	352	G	C2'-C1'	-6.18	1.46	1.53
34	BA	482	C	C5'-C4'	-6.18	1.44	1.51
34	BA	484	A	C3'-C2'	-6.18	1.46	1.52
34	BA	749	G	N9-C4	-6.18	1.33	1.38
34	BA	1147	C	C3'-C2'	-6.18	1.46	1.52
34	BA	1230	G	C5-C4	-6.18	1.34	1.38
34	BA	1452	U	C4'-C3'	-6.18	1.46	1.53
34	BA	1671	A	C3'-C2'	-6.18	1.46	1.52
35	BB	456	A	C4'-C3'	-6.18	1.46	1.53
35	BB	1035	C	O3'-P	-6.18	1.53	1.61
40	BG	21	C	C4'-O4'	6.18	1.53	1.45
85	AA	15	U	C2-N3	-6.18	1.33	1.37
85	AA	325	C	O3'-P	-6.18	1.53	1.61
85	AA	943	U	N1-C6	-6.18	1.32	1.38
85	AA	1540	A	N7-C5	-6.18	1.35	1.39
35	BB	1296	A	C3'-C2'	-6.18	1.46	1.52
85	AA	1114	A	C1'-N9	-6.18	1.38	1.46
34	BA	53	G	N9-C4	-6.18	1.33	1.38
34	BA	467	A	C5-C4	-6.18	1.34	1.38
34	BA	1226	G	C4'-C3'	-6.18	1.46	1.53
34	BA	1652	G	N7-C5	-6.18	1.35	1.39
35	BB	501	G	N9-C8	-6.18	1.33	1.37
36	BC	59	A	C2'-C1'	-6.18	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	66	G	C2-N2	-6.18	1.28	1.34
37	BD	63	C	P-O5'	-6.18	1.53	1.59
38	BE	35	A	C4'-C3'	-6.18	1.46	1.53
85	AA	992	G	C3'-C2'	-6.18	1.46	1.52
85	AA	1298	G	N7-C5	-6.18	1.35	1.39
35	BB	670	G	C2'-C1'	-6.18	1.46	1.53
35	BB	877	A	C3'-C2'	-6.18	1.46	1.52
35	BB	1174	C	C2-N3	-6.18	1.30	1.35
85	AA	2054	G	N9-C8	-6.18	1.33	1.37
85	AA	2132	A	C1'-N9	-6.18	1.38	1.46
34	BA	124	G	C1'-N9	-6.18	1.38	1.46
34	BA	237	A	P-O5'	-6.18	1.53	1.59
34	BA	247	U	C3'-O3'	6.18	1.50	1.42
34	BA	324	C	C4'-O4'	-6.18	1.37	1.45
34	BA	621	G	C3'-C2'	-6.18	1.46	1.52
34	BA	719	G	C6-N1	-6.18	1.35	1.39
34	BA	885	A	C2'-C1'	-6.18	1.46	1.53
34	BA	1564	A	C5-C4	-6.18	1.34	1.38
34	BA	1679	C	N3-C4	-6.18	1.29	1.33
35	BB	507	G	C2'-C1'	-6.18	1.46	1.53
35	BB	617	C	C4-N4	-6.18	1.28	1.33
35	BB	949	G	O3'-P	-6.18	1.53	1.61
41	BH	68	G	P-O5'	-6.18	1.53	1.59
85	AA	501	A	N9-C4	-6.18	1.34	1.37
85	AA	526	G	N7-C5	-6.18	1.35	1.39
85	AA	900	G	N9-C4	-6.18	1.33	1.38
85	AA	1247	A	C5'-C4'	-6.18	1.44	1.51
85	AA	1283	C	C1'-N1	-6.18	1.38	1.46
85	AA	2005	U	O3'-P	-6.18	1.53	1.61
85	AA	2112	G	C3'-C2'	-6.18	1.46	1.52
34	BA	83	G	C8-N7	-6.17	1.27	1.30
34	BA	371	U	O3'-P	-6.17	1.53	1.61
34	BA	1668	C	C4'-C3'	-6.17	1.46	1.53
35	BB	122	U	C2'-C1'	-6.17	1.46	1.53
35	BB	788	U	O3'-P	-6.17	1.53	1.61
35	BB	1235	A	N7-C5	-6.17	1.35	1.39
35	BB	1267	C	C1'-N1	-6.17	1.38	1.46
36	BC	26	U	O4'-C1'	-6.17	1.33	1.41
37	BD	110	G	N9-C8	-6.17	1.33	1.37
38	BE	124	G	C4'-C3'	-6.17	1.46	1.53
40	BG	83	U	P-O5'	-6.17	1.53	1.59
40	BG	124	A	C1'-N9	-6.17	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	142	A	N3-C4	-6.17	1.31	1.34
85	AA	855	G	O3'-P	-6.17	1.53	1.61
85	AA	2142	A	O3'-P	-6.17	1.53	1.61
34	BA	586	G	C2'-C1'	-6.17	1.46	1.53
34	BA	1048	C	C2'-C1'	-6.17	1.46	1.53
35	BB	415	A	C8-N7	-6.17	1.27	1.31
35	BB	660	G	N7-C5	-6.17	1.35	1.39
35	BB	795	A	C5-C4	-6.17	1.34	1.38
35	BB	1111	C	C2-N3	-6.17	1.30	1.35
35	BB	1145	G	C2'-C1'	-6.17	1.46	1.53
37	BD	80	G	C2'-C1'	-6.17	1.46	1.53
85	AA	104	C	C3'-C2'	-6.17	1.46	1.52
34	BA	352	G	C6-N1	-6.17	1.35	1.39
34	BA	1197	U	O4'-C1'	-6.17	1.33	1.41
34	BA	1431	G	N7-C5	-6.17	1.35	1.39
35	BB	1132	A	C3'-C2'	-6.17	1.46	1.52
35	BB	1260	A	C5-C4	-6.17	1.34	1.38
35	BB	1470	G	C5-C6	-6.17	1.36	1.42
40	BG	52	A	C2'-C1'	-6.17	1.46	1.53
85	AA	518	A	O3'-P	-6.17	1.53	1.61
85	AA	759	G	C1'-N9	-6.17	1.38	1.46
85	AA	1143	C	C4'-O4'	-6.17	1.37	1.45
85	AA	1265	C	C3'-C2'	-6.17	1.46	1.52
85	AA	1295	G	N7-C5	-6.17	1.35	1.39
85	AA	1598	A	P-O5'	-6.17	1.53	1.59
34	BA	1105	A	C3'-O3'	6.17	1.50	1.42
34	BA	1195	G	N9-C8	-6.17	1.33	1.37
34	BA	1505	G	C2-N2	-6.17	1.28	1.34
34	BA	1529	G	N3-C4	-6.17	1.31	1.35
34	BA	1648	G	C2-N2	-6.17	1.28	1.34
35	BB	52	G	N9-C8	-6.17	1.33	1.37
85	AA	2178	A	N9-C4	-6.17	1.34	1.37
34	BA	50	G	C2-N2	-6.17	1.28	1.34
34	BA	241	U	C3'-C2'	-6.17	1.46	1.52
34	BA	1489	U	N1-C2	-6.17	1.32	1.38
35	BB	1459	U	O3'-P	-6.17	1.53	1.61
37	BD	87	G	N9-C8	-6.17	1.33	1.37
38	BE	34	C	C4'-C3'	-6.17	1.46	1.53
38	BE	45	G	O3'-P	-6.17	1.53	1.61
41	BH	43	G	C4'-O4'	-6.17	1.37	1.45
85	AA	256	A	O3'-P	-6.17	1.53	1.61
85	AA	286	C	C2'-C1'	-6.17	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2007	G	C2-N3	-6.17	1.27	1.32
85	AA	2137	A	O3'-P	-6.17	1.53	1.61
34	BA	1441	C	N3-C4	-6.17	1.29	1.33
38	BE	174	U	O3'-P	-6.17	1.53	1.61
85	AA	258	G	C2'-C1'	-6.17	1.46	1.53
85	AA	369	A	C1'-N9	-6.17	1.38	1.46
85	AA	717	G	C6-N1	-6.17	1.35	1.39
85	AA	2062	U	P-O5'	-6.17	1.53	1.59
86	AB	45	U	O3'-P	-6.17	1.53	1.61
34	BA	29	U	N3-C4	-6.17	1.32	1.38
34	BA	32	A	C3'-C2'	-6.17	1.46	1.52
34	BA	687	G	N1-C2	-6.17	1.32	1.37
34	BA	1564	A	C8-N7	-6.17	1.27	1.31
40	BG	154	C	P-O5'	-6.17	1.53	1.59
85	AA	449	G	C3'-C2'	-6.17	1.46	1.52
85	AA	1687	U	O3'-P	-6.17	1.53	1.61
34	BA	368	U	O3'-P	-6.16	1.53	1.61
34	BA	1254	C	C4'-C3'	-6.16	1.46	1.53
34	BA	1533	G	C5-C4	-6.16	1.34	1.38
35	BB	53	C	O3'-P	-6.16	1.53	1.61
35	BB	1089	A	C2'-C1'	-6.16	1.46	1.53
35	BB	1452	U	C2-N3	-6.16	1.33	1.37
36	BC	164	G	C1'-N9	-6.16	1.38	1.46
40	BG	119	A	O4'-C1'	-6.16	1.33	1.41
85	AA	279	C	P-O5'	-6.16	1.53	1.59
85	AA	316	C	O3'-P	-6.16	1.53	1.61
85	AA	718	C	O3'-P	-6.16	1.53	1.61
85	AA	1465	C	C2-N3	-6.16	1.30	1.35
85	AA	2152	C	C2'-C1'	-6.16	1.46	1.53
34	BA	141	G	N7-C5	-6.16	1.35	1.39
34	BA	602	G	C2-N3	-6.16	1.27	1.32
34	BA	909	G	C4'-O4'	-6.16	1.37	1.45
34	BA	931	G	N1-C2	-6.16	1.32	1.37
34	BA	934	G	C2'-C1'	-6.16	1.46	1.53
34	BA	1530	G	N9-C4	-6.16	1.33	1.38
35	BB	576	A	P-O5'	-6.16	1.53	1.59
35	BB	985	A	O3'-P	-6.16	1.53	1.61
39	BF	58	U	C2-N3	-6.16	1.33	1.37
34	BA	79	C	C1'-N1	-6.16	1.38	1.46
34	BA	248	G	C4'-C3'	6.16	1.59	1.53
34	BA	494	A	C5-C4	-6.16	1.34	1.38
34	BA	1218	G	C2'-C1'	-6.16	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1403	G	P-O5'	-6.16	1.53	1.59
35	BB	1173	C	O3'-P	-6.16	1.53	1.61
35	BB	1188	A	O3'-P	-6.16	1.53	1.61
35	BB	1355	C	P-O5'	-6.16	1.53	1.59
36	BC	136	G	N1-C2	-6.16	1.32	1.37
38	BE	30	C	C4-N4	-6.16	1.28	1.33
85	AA	516	G	C5-C4	-6.16	1.34	1.38
85	AA	1134	G	O3'-P	-6.16	1.53	1.61
34	BA	396	U	N1-C2	-6.16	1.33	1.38
34	BA	1241	U	N1-C2	-6.16	1.33	1.38
35	BB	518	G	C1'-N9	-6.16	1.38	1.46
35	BB	1026	G	C3'-O3'	6.16	1.50	1.42
35	BB	1032	U	N1-C2	-6.16	1.33	1.38
37	BD	71	G	C5-C4	-6.16	1.34	1.38
37	BD	87	G	C2-N2	-6.16	1.28	1.34
40	BG	51	U	C4'-O4'	-6.16	1.37	1.45
40	BG	102	G	N7-C5	-6.16	1.35	1.39
85	AA	696	G	C5-C4	-6.16	1.34	1.38
85	AA	815	G	C2-N3	6.16	1.37	1.32
85	AA	984	A	O3'-P	-6.16	1.53	1.61
85	AA	1558	U	O3'-P	-6.16	1.53	1.61
34	BA	447	U	C5'-C4'	-6.16	1.44	1.51
34	BA	1654	G	N1-C2	-6.16	1.32	1.37
34	BA	1703	A	C5-C4	-6.16	1.34	1.38
35	BB	135	C	C2'-C1'	-6.16	1.46	1.53
35	BB	1060	U	C4'-C3'	-6.16	1.46	1.53
40	BG	162	A	N7-C5	-6.16	1.35	1.39
85	AA	46	U	C2-N3	-6.16	1.33	1.37
85	AA	2231	G	C5'-C4'	6.16	1.58	1.51
34	BA	12	G	C5-C4	-6.16	1.34	1.38
34	BA	31	A	C5-C4	-6.16	1.34	1.38
34	BA	270	U	O3'-P	-6.16	1.53	1.61
34	BA	500	C	C2-N3	-6.16	1.30	1.35
34	BA	628	U	C2'-C1'	-6.16	1.46	1.53
34	BA	744	G	N1-C2	-6.16	1.32	1.37
34	BA	902	C	N1-C6	-6.16	1.33	1.37
34	BA	976	C	C3'-C2'	-6.16	1.46	1.52
35	BB	548	A	P-O5'	-6.16	1.53	1.59
35	BB	1052	G	C5-C4	-6.16	1.34	1.38
35	BB	1498	G	C2-N2	-6.16	1.28	1.34
36	BC	73	U	O3'-P	-6.16	1.53	1.61
41	BH	35	G	N9-C8	-6.16	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	11	A	C4'-C3'	-6.16	1.46	1.53
85	AA	484	G	C4'-C3'	-6.16	1.46	1.53
85	AA	1030	U	O3'-P	-6.16	1.53	1.61
85	AA	1141	U	P-O5'	-6.16	1.53	1.59
85	AA	1201	A	C2'-C1'	-6.16	1.46	1.53
85	AA	1279	A	N7-C5	-6.16	1.35	1.39
85	AA	1520	A	C5-C4	-6.16	1.34	1.38
85	AA	2150	G	C2-N2	-6.16	1.28	1.34
34	BA	1253	G	N3-C4	-6.15	1.31	1.35
38	BE	66	A	C3'-C2'	-6.15	1.46	1.52
40	BG	151	A	C3'-C2'	-6.15	1.46	1.52
85	AA	718	C	C3'-C2'	-6.15	1.46	1.52
85	AA	1515	A	N9-C4	-6.15	1.34	1.37
85	AA	1660	U	C2'-C1'	-6.15	1.46	1.53
34	BA	32	A	N7-C5	-6.15	1.35	1.39
34	BA	478	G	O3'-P	-6.15	1.53	1.61
34	BA	1240	G	C8-N7	-6.15	1.27	1.30
35	BB	100	A	C4'-C3'	-6.15	1.46	1.53
35	BB	541	U	C2'-C1'	-6.15	1.46	1.53
35	BB	1098	G	C2'-C1'	-6.15	1.46	1.53
35	BB	1372	G	N9-C4	-6.15	1.33	1.38
36	BC	133	C	O3'-P	-6.15	1.53	1.61
38	BE	21	C	C2-N3	-6.15	1.30	1.35
38	BE	126	G	C4'-C3'	6.15	1.59	1.53
41	BH	44	A	C5-C6	-6.15	1.35	1.41
85	AA	802	A	C5'-C4'	6.15	1.58	1.51
85	AA	1268	C	C2'-C1'	-6.15	1.46	1.53
85	AA	1518	A	C3'-C2'	-6.15	1.46	1.52
85	AA	2171	A	O3'-P	-6.15	1.53	1.61
34	BA	94	G	C2-N2	-6.15	1.28	1.34
34	BA	824	C	C2-N3	-6.15	1.30	1.35
34	BA	1368	G	P-O5'	-6.15	1.53	1.59
35	BB	1307	C	C2-N3	-6.15	1.30	1.35
36	BC	152	C	C1'-N1	-6.15	1.38	1.46
37	BD	92	G	N9-C8	-6.15	1.33	1.37
40	BG	93	U	C3'-C2'	-6.15	1.46	1.52
40	BG	125	C	P-O5'	-6.15	1.53	1.59
41	BH	64	U	C2-N3	-6.15	1.33	1.37
85	AA	256	A	C1'-N9	-6.15	1.38	1.46
85	AA	353	G	N9-C4	-6.15	1.33	1.38
85	AA	1902	C	P-O5'	-6.15	1.53	1.59
34	BA	1558	C	C2-N3	-6.15	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1084	A	N3-C4	-6.15	1.31	1.34
34	BA	293	A	N7-C5	-6.15	1.35	1.39
34	BA	624	G	O3'-P	-6.15	1.53	1.61
34	BA	949	C	C4'-C3'	-6.15	1.46	1.53
34	BA	1210	A	C5-C4	-6.15	1.34	1.38
34	BA	1333	G	C6-N1	-6.15	1.35	1.39
35	BB	572	G	O3'-P	-6.15	1.53	1.61
35	BB	1288	G	C3'-C2'	-6.15	1.46	1.52
40	BG	5	G	C4'-C3'	-6.15	1.46	1.53
40	BG	76	C	O4'-C1'	-6.15	1.33	1.41
85	AA	314	C	C4-C5	-6.15	1.38	1.43
85	AA	421	G	C2-N2	-6.15	1.28	1.34
85	AA	573	U	O3'-P	-6.15	1.53	1.61
85	AA	2179	C	C2-N3	-6.15	1.30	1.35
35	BB	75	A	C3'-C2'	-6.15	1.46	1.52
35	BB	87	G	C2'-C1'	-6.15	1.46	1.53
85	AA	452	A	N9-C4	-6.15	1.34	1.37
34	BA	340	U	C4'-C3'	-6.14	1.46	1.53
34	BA	860	G	N3-C4	-6.14	1.31	1.35
34	BA	1704	G	N9-C8	-6.14	1.33	1.37
35	BB	19	C	C3'-C2'	-6.14	1.46	1.52
35	BB	816	U	C2'-C1'	-6.14	1.46	1.53
35	BB	1108	G	C1'-N9	-6.14	1.38	1.46
35	BB	1147	G	N9-C4	-6.14	1.33	1.38
38	BE	175	U	C2-N3	-6.14	1.33	1.37
41	BH	43	G	C5-C4	-6.14	1.34	1.38
85	AA	430	G	O3'-P	-6.14	1.53	1.61
85	AA	672	U	C2-N3	-6.14	1.33	1.37
34	BA	184	C	O3'-P	-6.14	1.53	1.61
34	BA	203	U	C4'-C3'	-6.14	1.46	1.53
34	BA	302	A	P-O5'	-6.14	1.53	1.59
34	BA	655	U	P-O5'	-6.14	1.53	1.59
34	BA	982	A	N7-C5	-6.14	1.35	1.39
34	BA	1657	A	O3'-P	-6.14	1.53	1.61
34	BA	1693	U	C3'-C2'	-6.14	1.46	1.52
35	BB	126	C	C4-N4	-6.14	1.28	1.33
35	BB	412	A	P-O5'	-6.14	1.53	1.59
35	BB	436	G	C5-C6	-6.14	1.36	1.42
35	BB	553	U	C2-N3	-6.14	1.33	1.37
35	BB	1090	A	P-O5'	-6.14	1.53	1.59
85	AA	658	C	C3'-C2'	-6.14	1.46	1.52
85	AA	1129	A	C3'-C2'	-6.14	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1487	G	N1-C2	-6.14	1.32	1.37
34	BA	1722	U	O3'-P	-6.14	1.53	1.61
35	BB	495	A	C3'-C2'	-6.14	1.46	1.52
37	BD	26	C	C3'-C2'	-6.14	1.46	1.52
40	BG	115	C	C4'-C3'	-6.14	1.46	1.53
85	AA	46	U	P-O5'	-6.14	1.53	1.59
85	AA	141	A	C2'-C1'	-6.14	1.46	1.53
85	AA	821	U	O3'-P	-6.14	1.53	1.61
85	AA	997	U	C4'-C3'	-6.14	1.46	1.53
34	BA	319	C	C1'-N1	-6.14	1.38	1.46
34	BA	616	G	N7-C5	-6.14	1.35	1.39
34	BA	1265	G	C3'-C2'	-6.14	1.46	1.52
35	BB	365	U	P-O5'	-6.14	1.53	1.59
35	BB	1111	C	C3'-C2'	-6.14	1.46	1.52
40	BG	76	C	C2'-C1'	-6.14	1.46	1.53
41	BH	33	G	N7-C5	-6.14	1.35	1.39
64	Be	163	ARG	CD-NE	6.14	1.56	1.46
85	AA	681	G	C2'-C1'	-6.14	1.46	1.53
85	AA	1118	U	N3-C4	-6.14	1.32	1.38
85	AA	1820	G	O3'-P	-6.14	1.53	1.61
85	AA	1923	A	N3-C4	-6.14	1.31	1.34
85	AA	2117	U	C2'-C1'	-6.14	1.46	1.53
34	BA	956	G	C6-N1	-6.14	1.35	1.39
34	BA	1249	G	C2'-C1'	-6.14	1.46	1.53
35	BB	1441	C	P-O5'	-6.14	1.53	1.59
85	AA	9	U	C1'-N1	-6.14	1.38	1.46
85	AA	1808	G	N7-C5	-6.14	1.35	1.39
86	AB	62	C	P-O5'	-6.14	1.53	1.59
34	BA	237	A	N7-C5	-6.14	1.35	1.39
34	BA	681	G	O4'-C1'	-6.14	1.33	1.41
34	BA	690	G	C4'-O4'	-6.14	1.37	1.45
34	BA	1232	C	C2-N3	-6.14	1.30	1.35
35	BB	1023	G	N7-C5	-6.14	1.35	1.39
36	BC	63	G	O3'-P	-6.14	1.53	1.61
85	AA	628	C	P-O5'	-6.14	1.53	1.59
85	AA	1167	G	C2'-C1'	-6.14	1.46	1.53
34	BA	229	C	O3'-P	-6.13	1.53	1.61
34	BA	363	G	C5-C4	-6.13	1.34	1.38
34	BA	909	G	C6-N1	-6.13	1.35	1.39
34	BA	913	U	C2-N3	-6.13	1.33	1.37
34	BA	1663	U	C3'-C2'	-6.13	1.46	1.52
34	BA	1798	G	O4'-C1'	-6.13	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	462	G	C1'-N9	-6.13	1.38	1.46
85	AA	149	A	C1'-N9	-6.13	1.38	1.46
85	AA	741	G	C2-N2	-6.13	1.28	1.34
85	AA	811	A	C3'-C2'	-6.13	1.46	1.52
85	AA	868	A	N9-C4	-6.13	1.34	1.37
85	AA	1541	G	O4'-C1'	-6.13	1.33	1.41
85	AA	2138	G	P-O5'	-6.13	1.53	1.59
34	BA	217	C	O3'-P	-6.13	1.53	1.61
34	BA	407	A	C2'-C1'	-6.13	1.46	1.53
34	BA	741	A	N9-C8	-6.13	1.32	1.37
34	BA	1011	G	N7-C5	-6.13	1.35	1.39
35	BB	1235	A	C3'-C2'	-6.13	1.46	1.52
37	BD	1	G	N3-C4	-6.13	1.31	1.35
38	BE	126	G	C3'-O3'	6.13	1.50	1.42
85	AA	1834	U	P-O5'	-6.13	1.53	1.59
34	BA	89	G	O3'-P	-6.13	1.53	1.61
34	BA	111	U	O4'-C1'	-6.13	1.33	1.41
34	BA	143	A	C1'-N9	-6.13	1.38	1.46
34	BA	1036	G	N9-C8	-6.13	1.33	1.37
34	BA	1228	G	O3'-P	-6.13	1.53	1.61
35	BB	57	G	O3'-P	-6.13	1.53	1.61
35	BB	1139	A	C4'-C3'	-6.13	1.46	1.53
39	BF	4	A	N3-C4	-6.13	1.31	1.34
39	BF	23	G	C1'-N9	-6.13	1.38	1.46
34	BA	321	G	C1'-N9	-6.13	1.38	1.46
34	BA	1072	U	O3'-P	-6.13	1.53	1.61
34	BA	1506	C	C5'-C4'	6.13	1.58	1.51
35	BB	1484	A	C6-N6	-6.13	1.29	1.33
36	BC	146	U	C5'-C4'	-6.13	1.44	1.51
37	BD	56	G	N3-C4	-6.13	1.31	1.35
40	BG	55	A	O3'-P	-6.13	1.53	1.61
40	BG	101	G	O3'-P	-6.13	1.53	1.61
41	BH	29	G	C6-O6	-6.13	1.18	1.24
85	AA	1703	A	C5'-C4'	-6.13	1.44	1.51
34	BA	166	G	C5-C4	-6.13	1.34	1.38
34	BA	404	C	C2'-C1'	-6.13	1.46	1.53
34	BA	490	A	C5-C4	-6.13	1.34	1.38
34	BA	904	G	O3'-P	-6.13	1.53	1.61
35	BB	95	A	N9-C8	-6.13	1.32	1.37
35	BB	756	C	C2'-C1'	-6.13	1.46	1.53
35	BB	1184	C	C2'-C1'	-6.13	1.46	1.53
36	BC	122	A	N9-C4	-6.13	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	139	U	O4'-C1'	-6.13	1.33	1.41
38	BE	165	U	O3'-P	-6.13	1.53	1.61
40	BG	88	G	C2-N2	-6.13	1.28	1.34
85	AA	1595	G	P-O5'	-6.13	1.53	1.59
86	AB	28	G	P-O5'	-6.13	1.53	1.59
34	BA	381	A	C1'-N9	-6.13	1.38	1.46
34	BA	502	U	C5'-C4'	-6.13	1.44	1.51
34	BA	1296	U	C2-N3	-6.13	1.33	1.37
34	BA	1703	A	O3'-P	-6.13	1.53	1.61
34	BA	1798	G	C2'-C1'	-6.13	1.46	1.53
35	BB	655	U	C3'-C2'	-6.13	1.46	1.52
35	BB	984	U	P-O5'	-6.13	1.53	1.59
35	BB	1392	A	N9-C4	-6.13	1.34	1.37
39	BF	68	C	O3'-P	-6.13	1.53	1.61
40	BG	30	C	C4'-C3'	-6.13	1.46	1.53
40	BG	135	C	C1'-N1	-6.13	1.38	1.46
41	BH	5	G	C2'-C1'	-6.13	1.46	1.53
41	BH	65	G	O3'-P	-6.13	1.53	1.61
85	AA	453	G	O3'-P	-6.13	1.53	1.61
85	AA	687	G	C5-C6	-6.13	1.36	1.42
85	AA	849	A	C2'-C1'	-6.13	1.46	1.53
85	AA	1163	G	C6-N1	-6.13	1.35	1.39
85	AA	2130	G	C2'-C1'	-6.13	1.46	1.53
85	AA	2135	A	C2'-C1'	-6.13	1.46	1.53
34	BA	1004	U	O3'-P	-6.12	1.53	1.61
34	BA	1664	C	C3'-C2'	-6.12	1.46	1.52
35	BB	587	A	N7-C5	-6.12	1.35	1.39
35	BB	1005	A	O3'-P	-6.12	1.53	1.61
35	BB	1355	C	C3'-C2'	-6.12	1.46	1.52
40	BG	77	U	C4'-C3'	-6.12	1.46	1.53
41	BH	21	G	N9-C8	-6.12	1.33	1.37
85	AA	79	G	C2'-C1'	-6.12	1.46	1.53
85	AA	1095	C	C2'-C1'	-6.12	1.46	1.53
34	BA	795	G	O3'-P	-6.12	1.53	1.61
34	BA	1094	U	N3-C4	-6.12	1.32	1.38
36	BC	36	G	C5-C6	-6.12	1.36	1.42
40	BG	74	G	C3'-C2'	-6.12	1.46	1.52
85	AA	317	A	C2'-C1'	-6.12	1.46	1.53
85	AA	442	G	C2-N3	-6.12	1.27	1.32
85	AA	567	G	P-O5'	-6.12	1.53	1.59
85	AA	983	A	C8-N7	-6.12	1.27	1.31
85	AA	1154	A	C5'-C4'	6.12	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1355	U	C4'-C3'	6.12	1.59	1.53
85	AA	1839	G	N9-C4	-6.12	1.33	1.38
85	AA	1852	U	C2-N3	-6.12	1.33	1.37
85	AA	2176	U	O4'-C1'	-6.12	1.33	1.41
86	AB	26	A	C2'-C1'	-6.12	1.46	1.53
34	BA	63	A	C2'-C1'	-6.12	1.46	1.53
34	BA	131	A	C2'-C1'	-6.12	1.46	1.53
34	BA	446	U	P-O5'	-6.12	1.53	1.59
34	BA	732	A	C3'-C2'	-6.12	1.46	1.52
35	BB	28	G	C8-N7	-6.12	1.27	1.30
35	BB	113	C	O4'-C1'	-6.12	1.33	1.41
35	BB	384	A	N7-C5	-6.12	1.35	1.39
35	BB	395	U	O3'-P	-6.12	1.53	1.61
35	BB	766	G	O3'-P	-6.12	1.53	1.61
35	BB	1105	G	N3-C4	-6.12	1.31	1.35
35	BB	1328	C	P-O5'	-6.12	1.53	1.59
35	BB	1424	G	C5-C4	-6.12	1.34	1.38
40	BG	81	G	N7-C5	-6.12	1.35	1.39
40	BG	91	U	C2-N3	-6.12	1.33	1.37
85	AA	155	U	N3-C4	-6.12	1.32	1.38
85	AA	1265	C	C2-N3	-6.12	1.30	1.35
34	BA	1040	G	C1'-N9	-6.12	1.38	1.46
34	BA	1044	A	C1'-N9	-6.12	1.38	1.46
35	BB	415	A	O3'-P	-6.12	1.53	1.61
35	BB	1371	G	N7-C5	-6.12	1.35	1.39
41	BH	22	A	P-O5'	-6.12	1.53	1.59
85	AA	1548	A	N9-C4	-6.12	1.34	1.37
34	BA	11	U	N1-C2	-6.12	1.33	1.38
34	BA	324	C	C2'-C1'	-6.12	1.46	1.53
34	BA	373	G	C6-N1	-6.12	1.35	1.39
34	BA	698	U	C3'-C2'	-6.12	1.46	1.52
34	BA	818	G	C5-C4	-6.12	1.34	1.38
34	BA	971	G	C2'-C1'	-6.12	1.46	1.53
34	BA	1044	A	C3'-C2'	-6.12	1.46	1.52
34	BA	1462	U	C5'-C4'	-6.12	1.44	1.51
34	BA	1688	G	C1'-N9	-6.12	1.38	1.46
35	BB	431	U	C2-N3	-6.12	1.33	1.37
35	BB	511	A	N7-C5	-6.12	1.35	1.39
35	BB	975	G	N7-C5	-6.12	1.35	1.39
36	BC	69	U	C2'-C1'	-6.12	1.46	1.53
36	BC	113	G	C3'-C2'	-6.12	1.46	1.52
38	BE	172	U	C3'-C2'	-6.12	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	178	G	N1-C2	-6.12	1.32	1.37
85	AA	554	A	C2'-C1'	-6.12	1.46	1.53
85	AA	1305	A	N7-C5	-6.12	1.35	1.39
85	AA	1698	A	O3'-P	-6.12	1.53	1.61
34	BA	1817	G	N9-C4	-6.12	1.33	1.38
35	BB	51	U	O3'-P	-6.12	1.53	1.61
85	AA	77	C	N1-C6	6.12	1.40	1.37
85	AA	638	G	O3'-P	-6.12	1.53	1.61
85	AA	1157	U	C2-N3	-6.12	1.33	1.37
85	AA	1992	A	P-O5'	-6.12	1.53	1.59
34	BA	115	U	C1'-N1	-6.12	1.38	1.46
34	BA	316	G	C5-C4	-6.12	1.34	1.38
34	BA	722	A	O3'-P	-6.12	1.53	1.61
34	BA	882	G	C5-C4	-6.12	1.34	1.38
34	BA	969	A	C8-N7	-6.12	1.27	1.31
34	BA	1158	A	N3-C4	-6.12	1.31	1.34
34	BA	1527	G	N1-C2	-6.12	1.32	1.37
38	BE	26	G	C2'-C1'	-6.12	1.46	1.53
40	BG	123	C	C2'-C1'	-6.12	1.46	1.53
85	AA	400	G	C1'-N9	-6.12	1.38	1.46
85	AA	1545	U	C2-N3	-6.12	1.33	1.37
34	BA	98	A	N9-C8	-6.11	1.32	1.37
34	BA	900	A	N3-C4	-6.11	1.31	1.34
34	BA	1530	G	C5-C4	-6.11	1.34	1.38
35	BB	519	A	O3'-P	-6.11	1.53	1.61
35	BB	700	C	C2-N3	-6.11	1.30	1.35
35	BB	1090	A	O3'-P	-6.11	1.53	1.61
35	BB	1092	G	C2'-C1'	-6.11	1.46	1.53
35	BB	1249	G	C6-N1	-6.11	1.35	1.39
35	BB	1404	A	O3'-P	-6.11	1.53	1.61
38	BE	14	C	N3-C4	-6.11	1.29	1.33
40	BG	148	C	C4'-C3'	-6.11	1.46	1.53
41	BH	36	C	C4'-C3'	-6.11	1.46	1.53
85	AA	115	U	C3'-C2'	-6.11	1.46	1.52
85	AA	1177	G	C2-N2	-6.11	1.28	1.34
85	AA	1887	G	O3'-P	-6.11	1.53	1.61
85	AA	1910	A	N3-C4	-6.11	1.31	1.34
34	BA	943	G	C2-N3	-6.11	1.27	1.32
34	BA	1498	A	C1'-N9	-6.11	1.38	1.46
34	BA	1522	G	N1-C2	-6.11	1.32	1.37
35	BB	471	U	C2-N3	-6.11	1.33	1.37
35	BB	1272	G	C6-N1	-6.11	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	239	G	P-O5'	-6.11	1.53	1.59
34	BA	112	C	C4'-C3'	-6.11	1.46	1.53
34	BA	215	C	O3'-P	-6.11	1.53	1.61
34	BA	321	G	N9-C4	-6.11	1.33	1.38
34	BA	1232	C	N1-C6	-6.11	1.33	1.37
35	BB	23	U	C2'-C1'	-6.11	1.46	1.53
35	BB	616	U	C4'-C3'	-6.11	1.46	1.53
35	BB	684	U	N3-C4	-6.11	1.32	1.38
35	BB	1358	A	O3'-P	-6.11	1.53	1.61
37	BD	49	A	P-O5'	-6.11	1.53	1.59
40	BG	28	A	C4'-C3'	-6.11	1.46	1.53
85	AA	309	G	C2'-C1'	-6.11	1.46	1.53
85	AA	1197	U	C4'-C3'	-6.11	1.46	1.53
85	AA	2210	C	C3'-C2'	-6.11	1.46	1.52
85	AA	2226	U	C5'-C4'	6.11	1.58	1.51
34	BA	267	G	P-O5'	-6.11	1.53	1.59
34	BA	1470	G	C5-C4	-6.11	1.34	1.38
35	BB	643	G	C4'-C3'	-6.11	1.46	1.53
85	AA	2141	G	P-O5'	-6.11	1.53	1.59
34	BA	753	G	C4'-C3'	-6.11	1.46	1.53
34	BA	1273	U	N1-C2	-6.11	1.33	1.38
34	BA	1278	A	C5-C4	-6.11	1.34	1.38
34	BA	1639	U	C4'-O4'	-6.11	1.37	1.45
34	BA	1683	C	O3'-P	-6.11	1.53	1.61
34	BA	1688	G	O3'-P	-6.11	1.53	1.61
35	BB	665	A	C5-C4	-6.11	1.34	1.38
35	BB	1250	A	N9-C4	-6.11	1.34	1.37
35	BB	1333	U	O3'-P	-6.11	1.53	1.61
37	BD	6	C	C4'-C3'	-6.11	1.46	1.53
40	BG	15	G	C3'-C2'	-6.11	1.46	1.52
40	BG	178	G	C6-N1	-6.11	1.35	1.39
41	BH	27	A	C4'-C3'	6.11	1.59	1.53
85	AA	120	C	C2-N3	-6.11	1.30	1.35
85	AA	181	A	N9-C4	-6.11	1.34	1.37
85	AA	1506	U	O4'-C1'	-6.11	1.33	1.41
85	AA	1991	C	O3'-P	-6.11	1.53	1.61
85	AA	2194	U	C1'-N1	-6.11	1.38	1.46
34	BA	676	G	C2-N2	-6.11	1.28	1.34
34	BA	957	A	C1'-N9	-6.11	1.38	1.46
34	BA	1031	U	C2'-C1'	-6.11	1.46	1.53
34	BA	1405	A	O4'-C1'	-6.11	1.33	1.41
34	BA	1451	A	N9-C8	-6.11	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1641	G	N1-C2	-6.11	1.32	1.37
34	BA	1806	A	P-O5'	-6.11	1.53	1.59
35	BB	688	U	C3'-C2'	-6.11	1.46	1.52
35	BB	773	G	C1'-N9	-6.11	1.38	1.46
36	BC	167	U	N1-C2	-6.11	1.33	1.38
37	BD	109	U	O3'-P	-6.11	1.53	1.61
41	BH	27	A	C3'-O3'	6.11	1.50	1.42
85	AA	285	C	C5'-C4'	6.11	1.58	1.51
85	AA	377	U	C3'-C2'	-6.11	1.46	1.52
85	AA	1980	A	O3'-P	-6.11	1.53	1.61
35	BB	436	G	O3'-P	-6.10	1.53	1.61
35	BB	515	C	C3'-C2'	-6.10	1.46	1.52
36	BC	101	U	C4'-C3'	-6.10	1.46	1.53
38	BE	40	C	C4'-O4'	-6.10	1.37	1.45
85	AA	2017	U	C2'-C1'	-6.10	1.46	1.53
34	BA	67	A	N3-C4	-6.10	1.31	1.34
34	BA	88	C	C4'-C3'	-6.10	1.46	1.53
34	BA	681	G	C4'-O4'	-6.10	1.37	1.45
34	BA	794	G	N1-C2	-6.10	1.32	1.37
34	BA	886	G	C3'-C2'	-6.10	1.46	1.52
34	BA	1017	C	N1-C6	-6.10	1.33	1.37
34	BA	1214	U	C2-N3	-6.10	1.33	1.37
34	BA	1691	G	C5-C6	-6.10	1.36	1.42
35	BB	13	A	N9-C4	-6.10	1.34	1.37
35	BB	361	A	P-O5'	-6.10	1.53	1.59
35	BB	608	A	C2'-C1'	-6.10	1.46	1.53
35	BB	1176	G	C6-N1	-6.10	1.35	1.39
35	BB	1181	A	C5-C4	-6.10	1.34	1.38
35	BB	1286	G	C5-C4	-6.10	1.34	1.38
40	BG	154	C	C4'-C3'	-6.10	1.46	1.53
47	BN	34	PRO	CA-C	-6.10	1.40	1.52
85	AA	474	C	C5'-C4'	-6.10	1.44	1.51
85	AA	1212	C	O3'-P	-6.10	1.53	1.61
85	AA	1450	U	N3-C4	-6.10	1.32	1.38
85	AA	1712	A	P-O5'	-6.10	1.53	1.59
85	AA	1986	G	P-O5'	-6.10	1.53	1.59
34	BA	1634	A	C8-N7	-6.10	1.27	1.31
35	BB	1240	A	C4'-C3'	-6.10	1.46	1.53
41	BH	131	A	C2'-C1'	-6.10	1.46	1.53
34	BA	500	C	C1'-N1	-6.10	1.38	1.46
34	BA	943	G	C5-C4	-6.10	1.34	1.38
34	BA	1064	A	C1'-N9	-6.10	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1252	G	P-O5'	-6.10	1.53	1.59
34	BA	1433	U	O4'-C1'	-6.10	1.33	1.41
34	BA	1478	G	N7-C5	-6.10	1.35	1.39
34	BA	1693	U	C2'-C1'	-6.10	1.46	1.53
35	BB	8	U	O4'-C1'	-6.10	1.33	1.41
35	BB	43	G	N7-C5	-6.10	1.35	1.39
35	BB	261	C	O3'-P	-6.10	1.53	1.61
35	BB	699	U	C2-N3	-6.10	1.33	1.37
35	BB	882	U	O3'-P	-6.10	1.53	1.61
69	Bj	67	LEU	N-CA	-6.10	1.34	1.46
85	AA	1213	U	O4'-C1'	-6.10	1.33	1.41
34	BA	136	A	C5-C4	-6.10	1.34	1.38
34	BA	430	A	C1'-N9	-6.10	1.38	1.46
34	BA	603	U	C5'-C4'	-6.10	1.44	1.51
34	BA	720	A	C2'-C1'	-6.10	1.46	1.53
34	BA	730	C	N1-C6	-6.10	1.33	1.37
34	BA	1248	A	N9-C4	-6.10	1.34	1.37
34	BA	1531	G	C2-N2	-6.10	1.28	1.34
35	BB	12	G	C2'-C1'	-6.10	1.46	1.53
35	BB	164	U	P-O5'	-6.10	1.53	1.59
35	BB	1311	G	N1-C2	-6.10	1.32	1.37
35	BB	1460	G	N9-C4	-6.10	1.33	1.38
36	BC	47	C	O3'-P	-6.10	1.53	1.61
38	BE	49	A	C5-C4	-6.10	1.34	1.38
39	BF	34	C	O3'-P	-6.10	1.53	1.61
40	BG	12	A	O3'-P	-6.10	1.53	1.61
41	BH	36	C	C1'-N1	-6.10	1.38	1.46
85	AA	2091	C	C3'-C2'	-6.10	1.46	1.52
34	BA	102	G	N1-C2	-6.10	1.32	1.37
34	BA	432	A	C2'-C1'	-6.10	1.46	1.53
34	BA	1466	U	P-O5'	-6.10	1.53	1.59
85	AA	661	C	N1-C6	-6.10	1.33	1.37
85	AA	1708	A	N7-C5	-6.10	1.35	1.39
34	BA	305	C	C2'-C1'	-6.09	1.46	1.53
34	BA	339	G	N1-C2	-6.09	1.32	1.37
34	BA	732	A	P-O5'	-6.09	1.53	1.59
34	BA	868	C	C2'-C1'	-6.09	1.46	1.53
34	BA	911	G	C2-N2	-6.09	1.28	1.34
34	BA	974	G	C4'-C3'	-6.09	1.46	1.53
34	BA	1746	G	P-O5'	-6.09	1.53	1.59
35	BB	456	A	N3-C4	-6.09	1.31	1.34
35	BB	482	A	C8-N7	-6.09	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	792	G	C2-N3	-6.09	1.27	1.32
37	BD	2	G	P-O5'	-6.09	1.53	1.59
38	BE	47	U	N3-C4	-6.09	1.32	1.38
38	BE	92	C	O3'-P	-6.09	1.53	1.61
85	AA	915	G	N9-C4	-6.09	1.33	1.38
85	AA	1153	G	N9-C4	-6.09	1.33	1.38
85	AA	1857	G	O3'-P	-6.09	1.53	1.61
34	BA	42	A	C5-C4	-6.09	1.34	1.38
35	BB	122	U	C3'-C2'	-6.09	1.46	1.52
35	BB	416	U	C2-N3	-6.09	1.33	1.37
35	BB	1543	C	C2-N3	-6.09	1.30	1.35
85	AA	1107	A	C6-N1	-6.09	1.31	1.35
85	AA	1245	U	P-O5'	-6.09	1.53	1.59
34	BA	179	U	C4'-C3'	6.09	1.59	1.53
34	BA	253	U	O3'-P	-6.09	1.53	1.61
34	BA	1258	G	N3-C4	-6.09	1.31	1.35
34	BA	1736	A	C2'-C1'	-6.09	1.46	1.53
35	BB	43	G	C4'-C3'	-6.09	1.46	1.53
35	BB	1070	G	C1'-N9	-6.09	1.38	1.46
35	BB	1172	U	C3'-C2'	-6.09	1.46	1.52
35	BB	1374	U	O3'-P	-6.09	1.53	1.61
40	BG	65	C	C1'-N1	-6.09	1.38	1.46
40	BG	130	G	P-O5'	-6.09	1.53	1.59
85	AA	427	G	C2'-C1'	-6.09	1.46	1.53
34	BA	26	C	C1'-N1	-6.09	1.38	1.46
34	BA	127	U	C2-N3	-6.09	1.33	1.37
34	BA	582	U	O3'-P	-6.09	1.53	1.61
34	BA	774	A	C3'-C2'	-6.09	1.46	1.52
34	BA	784	C	C4-N4	-6.09	1.28	1.33
34	BA	854	A	C4'-C3'	-6.09	1.46	1.53
34	BA	1729	G	C3'-O3'	6.09	1.50	1.42
35	BB	630	A	C5-C4	-6.09	1.34	1.38
35	BB	709	G	O3'-P	-6.09	1.53	1.61
35	BB	1030	U	O3'-P	-6.09	1.53	1.61
35	BB	1417	C	C2'-C1'	-6.09	1.46	1.53
38	BE	50	G	C3'-C2'	-6.09	1.46	1.52
85	AA	8	U	C2'-C1'	-6.09	1.46	1.53
85	AA	537	G	C3'-C2'	-6.09	1.46	1.52
85	AA	553	G	C3'-C2'	-6.09	1.46	1.52
85	AA	889	G	C8-N7	-6.09	1.27	1.30
85	AA	916	A	N9-C4	-6.09	1.34	1.37
85	AA	1543	C	C4'-C3'	6.09	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	76	U	C4'-C3'	-6.09	1.46	1.53
34	BA	86	A	O3'-P	-6.09	1.53	1.61
36	BC	72	A	O3'-P	-6.09	1.53	1.61
34	BA	182	U	N3-C4	-6.09	1.32	1.38
34	BA	696	A	N9-C4	-6.09	1.34	1.37
34	BA	950	C	C3'-C2'	-6.09	1.46	1.52
34	BA	1161	G	C3'-C2'	-6.09	1.46	1.52
34	BA	1776	G	P-O5'	-6.09	1.53	1.59
35	BB	812	G	O3'-P	-6.09	1.53	1.61
35	BB	841	U	C2'-C1'	-6.09	1.46	1.53
35	BB	960	C	O3'-P	-6.09	1.53	1.61
35	BB	1470	G	C2-N2	-6.09	1.28	1.34
36	BC	14	G	C1'-N9	-6.09	1.38	1.46
37	BD	36	C	C3'-C2'	-6.09	1.46	1.52
38	BE	123	A	C3'-C2'	-6.09	1.46	1.52
38	BE	130	G	C6-N1	-6.09	1.35	1.39
85	AA	113	U	N1-C2	-6.09	1.33	1.38
85	AA	1217	U	O4'-C1'	-6.09	1.33	1.41
34	BA	492	G	C2'-C1'	-6.08	1.46	1.53
85	AA	365	G	C3'-C2'	-6.08	1.46	1.52
85	AA	943	U	P-O5'	-6.08	1.53	1.59
85	AA	1558	U	N3-C4	-6.08	1.32	1.38
34	BA	781	U	O3'-P	-6.08	1.53	1.61
34	BA	947	A	C2'-C1'	-6.08	1.46	1.53
34	BA	1190	A	C3'-C2'	-6.08	1.46	1.52
34	BA	1799	G	C3'-O3'	6.08	1.50	1.42
35	BB	35	G	N9-C4	-6.08	1.33	1.38
35	BB	143	G	P-O5'	-6.08	1.53	1.59
35	BB	1135	U	N1-C2	-6.08	1.33	1.38
40	BG	37	G	C2-N2	-6.08	1.28	1.34
85	AA	406	U	O3'-P	-6.08	1.53	1.61
85	AA	1561	A	C2'-C1'	-6.08	1.46	1.53
85	AA	2090	C	C3'-C2'	-6.08	1.46	1.52
34	BA	257	G	C2-N2	-6.08	1.28	1.34
34	BA	325	A	C8-N7	-6.08	1.27	1.31
34	BA	1175	G	N7-C5	-6.08	1.35	1.39
34	BA	1246	G	C3'-C2'	-6.08	1.46	1.52
34	BA	1432	C	C4-N4	-6.08	1.28	1.33
34	BA	1589	U	O3'-P	-6.08	1.53	1.61
34	BA	1649	A	C5-C4	-6.08	1.34	1.38
34	BA	1740	U	C2'-C1'	-6.08	1.46	1.53
35	BB	548	A	O3'-P	-6.08	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	727	U	P-O5'	-6.08	1.53	1.59
35	BB	1193	G	C1'-N9	-6.08	1.38	1.46
36	BC	71	A	C2'-C1'	-6.08	1.46	1.53
85	AA	157	G	P-O5'	-6.08	1.53	1.59
85	AA	159	G	P-O5'	-6.08	1.53	1.59
85	AA	363	A	C4'-C3'	-6.08	1.46	1.53
85	AA	585	G	N9-C8	-6.08	1.33	1.37
85	AA	2227	A	C2'-C1'	-6.08	1.46	1.53
34	BA	674	G	N9-C8	-6.08	1.33	1.37
34	BA	1410	C	C4'-C3'	-6.08	1.46	1.53
34	BA	1524	G	C2-N2	-6.08	1.28	1.34
35	BB	481	A	C6-N1	-6.08	1.31	1.35
35	BB	680	A	O3'-P	-6.08	1.53	1.61
35	BB	691	A	C5-C4	-6.08	1.34	1.38
34	BA	57	A	C4'-C3'	-6.08	1.46	1.53
34	BA	357	A	P-O5'	-6.08	1.53	1.59
34	BA	891	C	N1-C6	-6.08	1.33	1.37
34	BA	1119	A	O3'-P	-6.08	1.53	1.61
34	BA	1568	A	C1'-N9	-6.08	1.38	1.46
35	BB	806	U	N3-C4	-6.08	1.32	1.38
35	BB	806	U	C2'-C1'	-6.08	1.46	1.53
37	BD	95	G	O4'-C1'	-6.08	1.33	1.41
38	BE	9	C	O3'-P	-6.08	1.53	1.61
85	AA	312	G	C2'-C1'	-6.08	1.46	1.53
85	AA	1432	C	O3'-P	-6.08	1.53	1.61
85	AA	1855	U	C3'-C2'	-6.08	1.46	1.52
85	AA	1957	C	C2'-C1'	-6.08	1.46	1.53
85	AA	2105	G	C1'-N9	-6.08	1.38	1.46
85	AA	2237	G	C2-N2	-6.08	1.28	1.34
34	BA	385	U	C3'-C2'	-6.08	1.46	1.52
34	BA	869	C	N3-C4	6.08	1.38	1.33
35	BB	1159	U	N3-C4	-6.08	1.32	1.38
37	BD	77	A	C4'-C3'	-6.08	1.46	1.53
85	AA	1665	G	C2'-C1'	-6.08	1.46	1.53
34	BA	246	G	C4'-O4'	-6.08	1.37	1.45
34	BA	493	G	C4'-C3'	-6.08	1.46	1.53
34	BA	616	G	C5'-C4'	-6.08	1.44	1.51
34	BA	1312	A	N7-C5	-6.08	1.35	1.39
34	BA	1421	A	P-O5'	-6.08	1.53	1.59
34	BA	1451	A	N9-C4	-6.08	1.34	1.37
35	BB	505	G	C2'-C1'	-6.08	1.46	1.53
35	BB	702	G	C5-C4	-6.08	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	831	C	C4'-C3'	-6.08	1.46	1.53
35	BB	1410	G	N3-C4	-6.08	1.31	1.35
35	BB	1410	G	C3'-C2'	-6.08	1.46	1.52
37	BD	104	C	O3'-P	-6.08	1.53	1.61
39	BF	35	C	O3'-P	-6.08	1.53	1.61
85	AA	2096	G	N9-C8	-6.08	1.33	1.37
85	AA	2148	C	C4-N4	-6.08	1.28	1.33
34	BA	1291	A	C1'-N9	-6.07	1.38	1.46
34	BA	1574	C	P-O5'	-6.07	1.53	1.59
35	BB	1149	A	C2'-C1'	-6.07	1.46	1.53
36	BC	15	G	O3'-P	-6.07	1.53	1.61
37	BD	5	A	C2'-C1'	-6.07	1.46	1.53
85	AA	566	U	C2'-C1'	-6.07	1.46	1.53
85	AA	1105	G	O3'-P	-6.07	1.53	1.61
85	AA	2117	U	C3'-C2'	-6.07	1.46	1.52
85	AA	2188	C	C2-N3	-6.07	1.30	1.35
35	BB	133	G	C2'-C1'	-6.07	1.46	1.53
38	BE	36	U	N1-C2	6.07	1.44	1.38
40	BG	140	G	N9-C4	-6.07	1.33	1.38
41	BH	120	C	C2'-C1'	-6.07	1.46	1.53
85	AA	936	C	O4'-C1'	-6.07	1.33	1.41
35	BB	1079	G	C2-N2	-6.07	1.28	1.34
35	BB	1249	G	P-O5'	-6.07	1.53	1.59
36	BC	96	A	N9-C8	-6.07	1.32	1.37
38	BE	20	C	P-O5'	6.07	1.65	1.59
40	BG	47	G	O3'-P	-6.07	1.53	1.61
85	AA	459	C	C3'-C2'	-6.07	1.46	1.52
85	AA	669	G	O3'-P	-6.07	1.53	1.61
85	AA	893	G	N9-C4	-6.07	1.33	1.38
85	AA	1262	A	N3-C4	-6.07	1.31	1.34
85	AA	1813	C	P-O5'	-6.07	1.53	1.59
85	AA	1963	G	C4'-O4'	-6.07	1.37	1.45
34	BA	164	C	C2'-C1'	-6.07	1.46	1.53
35	BB	115	A	O3'-P	-6.07	1.53	1.61
35	BB	399	A	C5-C4	-6.07	1.34	1.38
85	AA	1892	G	C2'-C1'	-6.07	1.46	1.53
85	AA	2026	U	N1-C2	-6.07	1.33	1.38
34	BA	279	U	C2'-C1'	-6.07	1.46	1.53
34	BA	847	U	C5'-C4'	6.07	1.58	1.51
34	BA	1087	A	C2'-C1'	-6.07	1.46	1.53
34	BA	1278	A	C1'-N9	-6.07	1.38	1.46
34	BA	1521	C	P-O5'	-6.07	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	837	A	O4'-C1'	-6.07	1.33	1.41
35	BB	1136	G	C2-N2	-6.07	1.28	1.34
36	BC	122	A	C5-C4	-6.07	1.34	1.38
38	BE	137	A	C5-C4	-6.07	1.34	1.38
38	BE	173	G	P-O5'	-6.07	1.53	1.59
39	BF	46	G	C6-N1	-6.07	1.35	1.39
40	BG	114	A	C2'-C1'	-6.07	1.46	1.53
41	BH	33	G	N9-C8	-6.07	1.33	1.37
85	AA	398	U	C3'-C2'	-6.07	1.46	1.52
85	AA	1495	G	C5-C4	-6.07	1.34	1.38
85	AA	1504	A	N9-C8	-6.07	1.32	1.37
85	AA	1697	C	C2'-C1'	-6.07	1.46	1.53
85	AA	2062	U	C5'-C4'	-6.07	1.44	1.51
85	AA	2069	A	O3'-P	-6.07	1.53	1.61
85	AA	2094	U	C2-N3	-6.07	1.33	1.37
85	AA	2201	A	C5-C4	-6.07	1.34	1.38
86	AB	5	G	C3'-C2'	-6.07	1.46	1.52
34	BA	277	A	N9-C4	-6.07	1.34	1.37
34	BA	1333	G	N9-C8	-6.07	1.33	1.37
35	BB	131	A	N1-C2	-6.07	1.28	1.34
35	BB	1015	U	O3'-P	-6.07	1.53	1.61
35	BB	1091	C	O3'-P	-6.07	1.53	1.61
38	BE	170	U	C4'-O4'	-6.07	1.37	1.45
38	BE	203	C	O3'-P	-6.07	1.53	1.61
85	AA	897	A	N7-C5	-6.07	1.35	1.39
85	AA	1877	G	C4'-C3'	-6.07	1.46	1.53
34	BA	489	A	C2'-C1'	-6.06	1.46	1.53
34	BA	1653	G	N1-C2	-6.06	1.32	1.37
37	BD	94	C	C4'-C3'	-6.06	1.46	1.53
37	BD	97	U	C3'-C2'	-6.06	1.46	1.52
85	AA	1257	A	P-O5'	-6.06	1.53	1.59
34	BA	373	G	C2-N3	-6.06	1.27	1.32
34	BA	674	G	O3'-P	-6.06	1.53	1.61
35	BB	1109	A	C5-C4	-6.06	1.34	1.38
35	BB	1462	G	C5'-C4'	6.06	1.58	1.51
35	BB	1512	C	N1-C6	6.06	1.40	1.37
35	BB	1523	U	O3'-P	-6.06	1.53	1.61
85	AA	422	G	C1'-N9	-6.06	1.38	1.46
85	AA	924	A	O3'-P	-6.06	1.53	1.61
85	AA	2098	A	N7-C5	-6.06	1.35	1.39
85	AA	2111	C	O3'-P	-6.06	1.53	1.61
34	BA	438	A	C2'-C1'	-6.06	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1028	A	C5'-C4'	-6.06	1.44	1.51
35	BB	448	G	N3-C4	-6.06	1.31	1.35
35	BB	1404	A	C8-N7	-6.06	1.27	1.31
37	BD	54	A	O3'-P	-6.06	1.53	1.61
45	BL	112	GLY	CA-C	-6.06	1.42	1.51
85	AA	37	U	O3'-P	-6.06	1.53	1.61
34	BA	89	G	C3'-C2'	-6.06	1.46	1.52
34	BA	277	A	C2'-C1'	-6.06	1.46	1.53
34	BA	438	A	C4'-C3'	6.06	1.59	1.53
34	BA	1312	A	C4'-O4'	-6.06	1.37	1.45
34	BA	1403	G	O3'-P	-6.06	1.53	1.61
35	BB	585	U	O3'-P	-6.06	1.53	1.61
35	BB	1076	U	C2-N3	-6.06	1.33	1.37
35	BB	1079	G	C6-N1	-6.06	1.35	1.39
38	BE	128	G	N1-C2	-6.06	1.32	1.37
85	AA	19	A	C1'-N9	-6.06	1.38	1.46
85	AA	356	U	N1-C2	-6.06	1.33	1.38
85	AA	732	G	C4'-C3'	-6.06	1.46	1.53
85	AA	1228	A	C8-N7	-6.06	1.27	1.31
34	BA	236	A	C4'-C3'	-6.06	1.46	1.53
34	BA	655	U	O4'-C1'	-6.06	1.33	1.41
34	BA	1057	C	C4'-C3'	-6.06	1.46	1.53
34	BA	1323	G	C1'-N9	-6.06	1.38	1.46
35	BB	582	G	O3'-P	-6.06	1.53	1.61
35	BB	666	A	O4'-C1'	-6.06	1.33	1.41
35	BB	1330	A	C2'-C1'	-6.06	1.46	1.53
36	BC	68	A	C3'-C2'	-6.06	1.46	1.52
38	BE	114	G	P-O5'	-6.06	1.53	1.59
40	BG	34	A	O3'-P	-6.06	1.53	1.61
59	BZ	80	ASP	N-CA	-6.06	1.34	1.46
85	AA	206	U	P-O5'	-6.06	1.53	1.59
85	AA	504	U	C4'-O4'	-6.06	1.37	1.45
85	AA	1253	G	C1'-N9	-6.06	1.38	1.46
85	AA	1858	G	O3'-P	-6.06	1.53	1.61
34	BA	517	A	N9-C8	-6.06	1.32	1.37
34	BA	524	G	N7-C5	-6.06	1.35	1.39
34	BA	557	U	P-OP2	-6.06	1.38	1.49
34	BA	627	U	O3'-P	-6.06	1.53	1.61
34	BA	1522	G	C8-N7	-6.06	1.27	1.30
34	BA	1731	A	C8-N7	-6.06	1.27	1.31
35	BB	563	A	O3'-P	-6.06	1.53	1.61
35	BB	1258	G	C5-C4	-6.06	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1462	G	N1-C2	-6.06	1.32	1.37
34	BA	409	A	N7-C5	-6.05	1.35	1.39
34	BA	563	A	C4'-C3'	-6.05	1.46	1.53
34	BA	1390	C	P-O5'	-6.05	1.53	1.59
34	BA	1547	G	C5-C4	-6.05	1.34	1.38
35	BB	42	A	C1'-N9	-6.05	1.38	1.46
35	BB	688	U	N3-C4	-6.05	1.33	1.38
35	BB	832	C	O3'-P	-6.05	1.53	1.61
35	BB	973	G	N9-C4	6.05	1.42	1.38
35	BB	1311	G	C5-C4	-6.05	1.34	1.38
35	BB	1439	U	C2-N3	-6.05	1.33	1.37
38	BE	124	G	C5-C4	-6.05	1.34	1.38
39	BF	27	G	P-O5'	-6.05	1.53	1.59
85	AA	867	G	C2-N2	-6.05	1.28	1.34
85	AA	982	G	N3-C4	-6.05	1.31	1.35
85	AA	1112	G	C8-N7	-6.05	1.27	1.30
85	AA	1498	C	C3'-C2'	-6.05	1.46	1.52
85	AA	1505	G	C5-C4	-6.05	1.34	1.38
85	AA	1645	G	O3'-P	-6.05	1.53	1.61
85	AA	2105	G	C6-N1	-6.05	1.35	1.39
34	BA	790	G	C5-C6	-6.05	1.36	1.42
34	BA	901	C	C4'-O4'	-6.05	1.37	1.45
34	BA	1292	A	N3-C4	-6.05	1.31	1.34
34	BA	1584	G	P-O5'	-6.05	1.53	1.59
66	Bg	61	PRO	CA-C	-6.05	1.40	1.52
85	AA	681	G	C5-C4	-6.05	1.34	1.38
85	AA	1283	C	N3-C4	-6.05	1.29	1.33
34	BA	401	A	C5-C4	-6.05	1.34	1.38
34	BA	406	G	C1'-N9	-6.05	1.38	1.46
35	BB	72	G	N3-C4	-6.05	1.31	1.35
35	BB	1350	A	C2'-C1'	-6.05	1.46	1.53
35	BB	1414	A	C6-N1	-6.05	1.31	1.35
36	BC	144	C	C4'-O4'	-6.05	1.37	1.45
36	BC	162	C	N3-C4	-6.05	1.29	1.33
38	BE	178	G	C2-N2	-6.05	1.28	1.34
85	AA	513	G	N7-C5	-6.05	1.35	1.39
85	AA	742	U	N3-C4	-6.05	1.33	1.38
85	AA	2047	U	P-O5'	-6.05	1.53	1.59
34	BA	565	U	C2'-C1'	-6.05	1.46	1.53
34	BA	580	U	N3-C4	-6.05	1.33	1.38
34	BA	750	C	P-O5'	-6.05	1.53	1.59
34	BA	1034	U	C2'-C1'	-6.05	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1816	G	O3'-P	-6.05	1.53	1.61
35	BB	889	U	O3'-P	-6.05	1.53	1.61
36	BC	109	A	P-O5'	-6.05	1.53	1.59
37	BD	78	C	C4'-C3'	-6.05	1.46	1.53
69	Bj	45	THR	C-N	-6.05	1.22	1.34
85	AA	252	G	C5-C6	-6.05	1.36	1.42
85	AA	833	U	O3'-P	-6.05	1.53	1.61
85	AA	1255	C	C3'-C2'	-6.05	1.46	1.52
34	BA	414	A	C4'-O4'	-6.05	1.37	1.45
34	BA	1255	G	C3'-C2'	-6.05	1.46	1.52
35	BB	1161	G	N3-C4	-6.05	1.31	1.35
85	AA	2175	U	C3'-C2'	-6.05	1.46	1.52
34	BA	1827	C	C4-N4	-6.05	1.28	1.33
35	BB	488	G	N9-C4	-6.05	1.33	1.38
35	BB	753	A	P-O5'	-6.05	1.53	1.59
40	BG	32	U	O3'-P	-6.05	1.53	1.61
40	BG	131	U	C2'-C1'	-6.05	1.46	1.53
85	AA	133	G	C3'-C2'	-6.05	1.46	1.52
85	AA	1177	G	C2'-C1'	-6.05	1.46	1.53
85	AA	2191	C	N1-C2	-6.05	1.34	1.40
34	BA	432	A	C3'-C2'	-6.04	1.46	1.52
34	BA	1631	U	C2'-C1'	-6.04	1.46	1.53
38	BE	14	C	O3'-P	-6.04	1.53	1.61
85	AA	1367	C	C4'-C3'	-6.04	1.46	1.53
34	BA	140	C	C2'-C1'	-6.04	1.46	1.53
34	BA	401	A	C6-N6	-6.04	1.29	1.33
34	BA	454	G	C3'-C2'	-6.04	1.46	1.52
34	BA	536	C	O3'-P	-6.04	1.53	1.61
34	BA	772	G	C5'-C4'	6.04	1.58	1.51
34	BA	1203	G	C5-C6	-6.04	1.36	1.42
34	BA	1670	A	C4'-C3'	-6.04	1.46	1.53
35	BB	261	C	P-O5'	-6.04	1.53	1.59
35	BB	661	G	C4'-C3'	-6.04	1.46	1.53
35	BB	1286	G	C6-N1	-6.04	1.35	1.39
38	BE	51	C	O3'-P	-6.04	1.53	1.61
40	BG	108	G	O3'-P	-6.04	1.53	1.61
41	BH	43	G	N3-C4	-6.04	1.31	1.35
41	BH	133	U	N3-C4	-6.04	1.33	1.38
85	AA	421	G	C2'-C1'	-6.04	1.46	1.53
85	AA	678	A	C5-C4	-6.04	1.34	1.38
85	AA	776	C	C2-N3	-6.04	1.30	1.35
85	AA	795	C	N1-C6	-6.04	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1155	A	O3'-P	-6.04	1.53	1.61
85	AA	2009	A	O3'-P	-6.04	1.53	1.61
34	BA	327	G	C6-N1	-6.04	1.35	1.39
34	BA	375	C	N1-C6	-6.04	1.33	1.37
34	BA	413	A	C4'-C3'	-6.04	1.46	1.53
34	BA	782	C	C4'-C3'	-6.04	1.46	1.53
35	BB	403	U	P-O5'	-6.04	1.53	1.59
35	BB	1035	C	C5'-C4'	-6.04	1.44	1.51
35	BB	1191	G	C2-N2	-6.04	1.28	1.34
38	BE	3	G	N3-C4	-6.04	1.31	1.35
40	BG	134	U	C2'-C1'	-6.04	1.46	1.53
41	BH	10	U	C2-N3	-6.04	1.33	1.37
85	AA	27	U	C4'-C3'	6.04	1.59	1.53
85	AA	335	G	C2-N2	-6.04	1.28	1.34
85	AA	355	G	P-O5'	-6.04	1.53	1.59
85	AA	497	G	C2'-C1'	-6.04	1.46	1.53
85	AA	1142	G	C1'-N9	-6.04	1.38	1.46
85	AA	1558	U	C2'-C1'	-6.04	1.46	1.53
35	BB	802	G	C2-N2	-6.04	1.28	1.34
35	BB	971	A	C3'-C2'	-6.04	1.46	1.52
37	BD	72	U	C3'-C2'	-6.04	1.46	1.52
38	BE	191	U	C2-N3	-6.04	1.33	1.37
40	BG	8	U	N1-C6	-6.04	1.32	1.38
85	AA	706	U	C3'-C2'	-6.04	1.46	1.52
85	AA	1701	G	P-O5'	-6.04	1.53	1.59
85	AA	1794	U	C1'-N1	-6.04	1.38	1.46
85	AA	1844	A	C1'-N9	-6.04	1.38	1.46
34	BA	593	G	C6-N1	-6.04	1.35	1.39
34	BA	866	C	N1-C6	6.04	1.40	1.37
34	BA	1063	G	O3'-P	-6.04	1.53	1.61
34	BA	1210	A	C8-N7	-6.04	1.27	1.31
35	BB	869	G	N9-C4	-6.04	1.33	1.38
35	BB	1280	U	P-O5'	-6.04	1.53	1.59
36	BC	1	A	O3'-P	-6.04	1.53	1.61
36	BC	161	U	O3'-P	-6.04	1.53	1.61
38	BE	26	G	C3'-C2'	-6.04	1.46	1.52
40	BG	25	G	C5-C4	-6.04	1.34	1.38
85	AA	113	U	C2-N3	-6.04	1.33	1.37
85	AA	464	A	C5-C4	-6.04	1.34	1.38
85	AA	635	G	C2-N2	-6.04	1.28	1.34
85	AA	1228	A	N7-C5	-6.04	1.35	1.39
85	AA	1854	U	O3'-P	-6.04	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1024	A	C2'-C1'	-6.04	1.46	1.53
34	BA	1209	A	P-O5'	-6.04	1.53	1.59
35	BB	1133	C	C3'-C2'	-6.04	1.46	1.52
35	BB	1254	G	C1'-N9	-6.04	1.38	1.46
38	BE	12	A	N7-C5	-6.04	1.35	1.39
85	AA	2104	C	P-O5'	-6.04	1.53	1.59
34	BA	93	A	C5-C4	-6.04	1.34	1.38
34	BA	100	A	P-O5'	-6.04	1.53	1.59
34	BA	820	C	C2-N3	-6.04	1.30	1.35
34	BA	857	C	C5'-C4'	-6.04	1.44	1.51
34	BA	1067	G	C2'-C1'	-6.04	1.46	1.53
34	BA	1556	A	C8-N7	-6.04	1.27	1.31
35	BB	59	U	N1-C2	-6.04	1.33	1.38
35	BB	125	G	C2-N2	-6.04	1.28	1.34
35	BB	1086	G	C8-N7	-6.04	1.27	1.30
35	BB	1094	A	C2'-C1'	-6.04	1.46	1.53
38	BE	11	A	N7-C5	-6.04	1.35	1.39
38	BE	136	G	C1'-N9	-6.04	1.38	1.46
39	BF	36	G	C2'-C1'	-6.04	1.46	1.53
85	AA	95	U	C3'-C2'	-6.04	1.46	1.52
85	AA	1269	A	C4'-C3'	-6.04	1.46	1.53
34	BA	372	U	O4'-C1'	-6.03	1.33	1.41
34	BA	769	U	C2'-C1'	-6.03	1.46	1.53
34	BA	791	A	N7-C5	-6.03	1.35	1.39
34	BA	1834	A	C6-N1	-6.03	1.31	1.35
35	BB	685	G	O3'-P	-6.03	1.53	1.61
36	BC	109	A	O3'-P	-6.03	1.53	1.61
85	AA	141	A	O3'-P	-6.03	1.53	1.61
85	AA	717	G	C3'-C2'	-6.03	1.46	1.52
85	AA	1209	U	C3'-C2'	-6.03	1.46	1.52
85	AA	1436	A	C5'-C4'	6.03	1.58	1.51
85	AA	1578	G	O3'-P	-6.03	1.53	1.61
85	AA	1713	A	C2'-C1'	-6.03	1.46	1.53
34	BA	606	G	C6-N1	-6.03	1.35	1.39
34	BA	953	G	C2-N2	-6.03	1.28	1.34
35	BB	134	G	C2-N2	-6.03	1.28	1.34
35	BB	1500	U	O3'-P	-6.03	1.53	1.61
36	BC	6	G	N7-C5	-6.03	1.35	1.39
85	AA	423	G	C6-N1	-6.03	1.35	1.39
85	AA	1463	A	N7-C5	-6.03	1.35	1.39
34	BA	1496	G	C5'-C4'	-6.03	1.44	1.51
34	BA	1837	U	C3'-C2'	-6.03	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	19	C	P-O5'	-6.03	1.53	1.59
35	BB	102	G	C3'-C2'	-6.03	1.46	1.52
35	BB	409	U	C3'-C2'	-6.03	1.46	1.52
35	BB	422	U	O3'-P	-6.03	1.53	1.61
35	BB	651	G	C2-N2	-6.03	1.28	1.34
35	BB	1136	G	C2-N3	-6.03	1.27	1.32
35	BB	1336	G	N7-C5	-6.03	1.35	1.39
39	BF	40	U	C3'-C2'	6.03	1.59	1.52
40	BG	121	C	C4-N4	-6.03	1.28	1.33
85	AA	112	A	O4'-C1'	-6.03	1.33	1.41
85	AA	395	G	C4'-C3'	-6.03	1.46	1.53
85	AA	615	A	C2'-C1'	-6.03	1.46	1.53
85	AA	730	G	C2-N2	-6.03	1.28	1.34
85	AA	794	A	C3'-C2'	-6.03	1.46	1.52
85	AA	1000	U	C4'-O4'	-6.03	1.37	1.45
85	AA	2149	C	O3'-P	-6.03	1.53	1.61
34	BA	12	G	N1-C2	-6.03	1.32	1.37
34	BA	233	U	N3-C4	-6.03	1.33	1.38
34	BA	1110	A	N9-C8	-6.03	1.32	1.37
35	BB	36	U	C2-N3	-6.03	1.33	1.37
85	AA	1356	U	P-O5'	-6.03	1.53	1.59
85	AA	1600	G	C2'-C1'	-6.03	1.46	1.53
85	AA	2025	A	N9-C4	-6.03	1.34	1.37
34	BA	60	A	C3'-C2'	-6.03	1.46	1.52
34	BA	177	G	O3'-P	-6.03	1.53	1.61
34	BA	731	A	N7-C5	-6.03	1.35	1.39
34	BA	1696	G	C1'-N9	-6.03	1.38	1.46
35	BB	28	G	N1-C2	-6.03	1.32	1.37
35	BB	545	C	C4-N4	-6.03	1.28	1.33
35	BB	1262	A	O3'-P	-6.03	1.53	1.61
40	BG	54	G	N9-C4	-6.03	1.33	1.38
85	AA	14	C	O3'-P	-6.03	1.53	1.61
85	AA	499	G	P-O5'	-6.03	1.53	1.59
85	AA	634	U	C3'-C2'	-6.03	1.46	1.52
85	AA	1736	U	C3'-O3'	6.03	1.50	1.42
85	AA	1825	A	N7-C5	-6.03	1.35	1.39
34	BA	335	C	C2-N3	-6.03	1.30	1.35
34	BA	582	U	C1'-N1	-6.03	1.38	1.46
34	BA	904	G	P-O5'	-6.03	1.53	1.59
34	BA	985	C	C4'-C3'	-6.03	1.46	1.53
34	BA	1609	U	N3-C4	-6.03	1.33	1.38
34	BA	1703	A	N3-C4	-6.03	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1722	U	C2-N3	-6.03	1.33	1.37
35	BB	845	C	P-O5'	-6.03	1.53	1.59
35	BB	1455	A	C5'-C4'	6.03	1.58	1.51
36	BC	122	A	C1'-N9	-6.03	1.38	1.46
38	BE	12	A	N3-C4	-6.03	1.31	1.34
85	AA	542	G	C2-N2	-6.03	1.28	1.34
85	AA	763	U	N1-C2	-6.03	1.33	1.38
85	AA	1004	G	C3'-C2'	-6.03	1.46	1.52
85	AA	1130	G	O3'-P	-6.03	1.53	1.61
85	AA	1658	G	O3'-P	-6.03	1.53	1.61
34	BA	990	G	P-O5'	-6.02	1.53	1.59
35	BB	488	G	C4'-O4'	-6.02	1.37	1.45
40	BG	114	A	P-O5'	-6.02	1.53	1.59
85	AA	54	C	C2'-C1'	-6.02	1.46	1.53
85	AA	317	A	C1'-N9	-6.02	1.38	1.46
85	AA	455	G	N3-C4	-6.02	1.31	1.35
85	AA	2062	U	C2-N3	-6.02	1.33	1.37
34	BA	114	U	C4'-C3'	6.02	1.59	1.53
34	BA	344	G	C1'-N9	-6.02	1.38	1.46
34	BA	364	C	C2-N3	-6.02	1.30	1.35
34	BA	409	A	C4'-C3'	-6.02	1.46	1.53
34	BA	916	A	O3'-P	-6.02	1.53	1.61
34	BA	1577	U	N3-C4	-6.02	1.33	1.38
35	BB	7	C	N3-C4	-6.02	1.29	1.33
35	BB	612	A	C5-C4	-6.02	1.34	1.38
35	BB	1213	U	C4'-O4'	-6.02	1.37	1.45
36	BC	106	G	C3'-C2'	-6.02	1.46	1.52
73	Bn	39	TYR	C-N	-6.02	1.22	1.34
85	AA	165	C	C1'-N1	-6.02	1.38	1.46
85	AA	709	A	C6-N6	-6.02	1.29	1.33
85	AA	739	C	O3'-P	-6.02	1.53	1.61
85	AA	1825	A	O3'-P	-6.02	1.53	1.61
34	BA	165	C	C2'-C1'	-6.02	1.46	1.53
34	BA	617	G	C1'-N9	-6.02	1.38	1.46
34	BA	688	G	C2-N2	-6.02	1.28	1.34
34	BA	1011	G	C5-C6	-6.02	1.36	1.42
34	BA	1531	G	N1-C2	-6.02	1.32	1.37
35	BB	546	A	O3'-P	-6.02	1.53	1.61
35	BB	702	G	C2'-C1'	-6.02	1.46	1.53
39	BF	29	U	C3'-C2'	-6.02	1.46	1.52
41	BH	121	A	C4'-C3'	-6.02	1.46	1.53
85	AA	286	C	O3'-P	-6.02	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1482	C	C3'-C2'	-6.02	1.46	1.52
85	AA	1598	A	C2'-C1'	-6.02	1.46	1.53
34	BA	301	U	C4'-C3'	-6.02	1.46	1.53
34	BA	458	G	C3'-C2'	-6.02	1.46	1.52
34	BA	542	A	N3-C4	-6.02	1.31	1.34
34	BA	633	G	C2'-C1'	-6.02	1.46	1.53
34	BA	858	C	C2-N3	-6.02	1.30	1.35
34	BA	992	A	P-O5'	-6.02	1.53	1.59
34	BA	1109	G	C6-N1	-6.02	1.35	1.39
34	BA	1660	A	N3-C4	-6.02	1.31	1.34
34	BA	1719	G	O3'-P	-6.02	1.53	1.61
35	BB	583	G	C2-N2	-6.02	1.28	1.34
38	BE	129	G	N3-C4	-6.02	1.31	1.35
85	AA	293	A	C3'-C2'	-6.02	1.46	1.52
85	AA	427	G	O3'-P	-6.02	1.53	1.61
85	AA	1242	A	N9-C4	-6.02	1.34	1.37
85	AA	1984	A	C2'-C1'	-6.02	1.46	1.53
34	BA	312	U	C3'-C2'	-6.02	1.46	1.52
34	BA	1249	G	P-O5'	-6.02	1.53	1.59
34	BA	1527	G	C5-C4	-6.02	1.34	1.38
35	BB	134	G	N9-C4	-6.02	1.33	1.38
36	BC	155	C	C4'-C3'	-6.02	1.46	1.53
37	BD	48	G	C4'-O4'	-6.02	1.37	1.45
38	BE	36	U	O3'-P	-6.02	1.53	1.61
41	BH	135	U	N3-C4	-6.02	1.33	1.38
85	AA	87	C	P-O5'	-6.02	1.53	1.59
85	AA	537	G	N9-C4	-6.02	1.33	1.38
85	AA	1060	U	O3'-P	-6.02	1.53	1.61
85	AA	1106	A	N3-C4	-6.02	1.31	1.34
85	AA	2142	A	C3'-C2'	-6.02	1.46	1.52
35	BB	116	G	O3'-P	-6.02	1.53	1.61
35	BB	663	G	C4'-C3'	-6.02	1.46	1.53
37	BD	93	G	C5-C4	-6.02	1.34	1.38
38	BE	19	G	C2-N3	-6.02	1.27	1.32
85	AA	76	G	C4'-C3'	-6.02	1.46	1.53
85	AA	640	C	C3'-C2'	-6.02	1.46	1.52
85	AA	896	C	O3'-P	-6.02	1.53	1.61
85	AA	1967	A	P-O5'	-6.02	1.53	1.59
85	AA	1978	G	C2'-C1'	-6.02	1.46	1.53
34	BA	446	U	C4'-C3'	-6.01	1.46	1.53
34	BA	625	U	C2-N3	-6.01	1.33	1.37
34	BA	747	G	C1'-N9	-6.01	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1321	A	C3'-C2'	-6.01	1.46	1.52
35	BB	370	A	C4'-C3'	-6.01	1.46	1.53
35	BB	704	G	O3'-P	-6.01	1.53	1.61
35	BB	777	C	C4-C5	-6.01	1.38	1.43
35	BB	1164	U	C2-N3	-6.01	1.33	1.37
35	BB	1380	G	N3-C4	-6.01	1.31	1.35
35	BB	1468	A	C3'-C2'	-6.01	1.46	1.52
35	BB	1513	U	C2-N3	-6.01	1.33	1.37
36	BC	9	G	C2-N2	-6.01	1.28	1.34
37	BD	60	C	C3'-C2'	-6.01	1.46	1.52
38	BE	50	G	N9-C8	-6.01	1.33	1.37
38	BE	85	G	O3'-P	-6.01	1.53	1.61
40	BG	62	C	O3'-P	-6.01	1.53	1.61
41	BH	106	G	P-O5'	-6.01	1.53	1.59
85	AA	362	G	N9-C4	-6.01	1.33	1.38
85	AA	423	G	C2-N2	-6.01	1.28	1.34
34	BA	1533	G	N7-C5	-6.01	1.35	1.39
35	BB	29	C	C4'-C3'	6.01	1.59	1.53
38	BE	138	U	P-O5'	-6.01	1.53	1.59
85	AA	450	A	C2'-C1'	-6.01	1.46	1.53
85	AA	869	A	N1-C2	-6.01	1.28	1.34
85	AA	1611	A	C4'-C3'	-6.01	1.46	1.53
85	AA	2008	G	C5-C4	-6.01	1.34	1.38
34	BA	106	U	N1-C2	-6.01	1.33	1.38
34	BA	329	G	C5-C4	-6.01	1.34	1.38
34	BA	1338	G	C2-N2	-6.01	1.28	1.34
34	BA	1482	A	O3'-P	-6.01	1.53	1.61
34	BA	1671	A	C6-N1	-6.01	1.31	1.35
35	BB	1102	U	N1-C2	-6.01	1.33	1.38
35	BB	1264	U	C3'-C2'	-6.01	1.46	1.52
85	AA	1883	C	N1-C6	-6.01	1.33	1.37
34	BA	734	G	O3'-P	-6.01	1.53	1.61
34	BA	1344	G	O3'-P	-6.01	1.53	1.61
34	BA	1833	G	C2-N2	-6.01	1.28	1.34
35	BB	22	A	C1'-N9	-6.01	1.38	1.46
35	BB	660	G	C2'-C1'	-6.01	1.46	1.53
35	BB	700	C	C2'-C1'	-6.01	1.46	1.53
38	BE	161	G	N7-C5	-6.01	1.35	1.39
40	BG	58	G	O4'-C1'	-6.01	1.33	1.41
40	BG	153	C	C2-N3	-6.01	1.30	1.35
85	AA	100	A	C5-C4	-6.01	1.34	1.38
85	AA	995	G	C2-N3	-6.01	1.27	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1270	C	C2'-C1'	-6.01	1.46	1.53
85	AA	2097	U	O3'-P	-6.01	1.53	1.61
34	BA	27	G	C2-N2	-6.01	1.28	1.34
34	BA	1276	G	N7-C5	-6.01	1.35	1.39
35	BB	1497	C	C2-N3	-6.01	1.30	1.35
36	BC	66	G	C6-N1	-6.01	1.35	1.39
38	BE	10	G	C3'-C2'	6.01	1.59	1.52
85	AA	18	C	C2'-C1'	-6.01	1.46	1.53
86	AB	4	C	O3'-P	-6.01	1.53	1.61
34	BA	65	A	C5'-C4'	6.01	1.58	1.51
34	BA	191	G	C4'-C3'	-6.01	1.46	1.53
34	BA	1723	U	C2-N3	-6.01	1.33	1.37
35	BB	517	G	C6-N1	-6.01	1.35	1.39
35	BB	619	A	P-O5'	-6.01	1.53	1.59
35	BB	1230	A	O3'-P	-6.01	1.53	1.61
85	AA	1150	G	N9-C8	-6.01	1.33	1.37
34	BA	116	G	C1'-N9	-6.00	1.38	1.46
34	BA	766	A	C6-N1	-6.00	1.31	1.35
34	BA	1500	G	C2-N3	6.00	1.37	1.32
35	BB	986	C	O3'-P	-6.00	1.53	1.61
35	BB	1480	G	P-O5'	-6.00	1.53	1.59
85	AA	662	U	C2-N3	-6.00	1.33	1.37
85	AA	703	U	C2'-C1'	-6.00	1.46	1.53
85	AA	1127	G	O4'-C1'	-6.00	1.33	1.41
85	AA	2100	A	P-O5'	-6.00	1.53	1.59
85	AA	2104	C	O3'-P	-6.00	1.53	1.61
34	BA	436	U	C2-N3	-6.00	1.33	1.37
34	BA	599	U	N3-C4	-6.00	1.33	1.38
34	BA	685	C	C2'-C1'	-6.00	1.46	1.53
34	BA	910	U	P-O5'	-6.00	1.53	1.59
34	BA	962	U	C3'-C2'	-6.00	1.46	1.52
34	BA	1174	A	C3'-C2'	-6.00	1.46	1.52
34	BA	1506	C	O3'-P	-6.00	1.53	1.61
34	BA	1550	G	O4'-C1'	-6.00	1.33	1.41
34	BA	1604	A	P-O5'	-6.00	1.53	1.59
35	BB	593	A	N7-C5	-6.00	1.35	1.39
35	BB	1456	G	N7-C5	-6.00	1.35	1.39
35	BB	1511	U	P-O5'	-6.00	1.53	1.59
36	BC	2	A	N9-C8	-6.00	1.32	1.37
40	BG	5	G	C2-N2	-6.00	1.28	1.34
85	AA	408	C	N3-C4	-6.00	1.29	1.33
85	AA	994	A	N9-C4	-6.00	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1665	G	P-O5'	-6.00	1.53	1.59
85	AA	2171	A	C3'-C2'	-6.00	1.46	1.52
34	BA	395	G	C3'-C2'	-6.00	1.46	1.52
34	BA	695	A	C1'-N9	-6.00	1.38	1.46
34	BA	718	U	C3'-C2'	-6.00	1.46	1.52
34	BA	1035	A	P-O5'	-6.00	1.53	1.59
34	BA	1233	U	C2-N3	-6.00	1.33	1.37
34	BA	1412	G	C2'-C1'	-6.00	1.46	1.53
34	BA	1438	C	C2-N3	-6.00	1.30	1.35
35	BB	408	U	C4'-O4'	-6.00	1.37	1.45
35	BB	1239	A	C1'-N9	-6.00	1.38	1.46
40	BG	119	A	O3'-P	-6.00	1.53	1.61
85	AA	396	U	C4'-O4'	-6.00	1.37	1.45
85	AA	666	A	O3'-P	-6.00	1.53	1.61
85	AA	1251	G	N7-C5	-6.00	1.35	1.39
85	AA	1262	A	C1'-N9	-6.00	1.38	1.46
85	AA	1472	G	O3'-P	-6.00	1.53	1.61
85	AA	1482	C	C2-N3	-6.00	1.30	1.35
34	BA	87	G	C6-N1	-6.00	1.35	1.39
34	BA	196	A	C8-N7	-6.00	1.27	1.31
34	BA	1532	G	C3'-C2'	-6.00	1.46	1.52
85	AA	446	C	C2-N3	-6.00	1.30	1.35
85	AA	989	U	O5'-C5'	-6.00	1.33	1.42
85	AA	1434	U	O3'-P	-6.00	1.53	1.61
34	BA	176	G	C3'-C2'	-6.00	1.46	1.52
34	BA	544	U	C3'-C2'	-6.00	1.46	1.52
34	BA	697	A	C3'-C2'	-6.00	1.46	1.52
34	BA	787	A	C2'-C1'	-6.00	1.46	1.53
35	BB	117	A	P-O5'	-6.00	1.53	1.59
35	BB	692	G	N1-C2	-6.00	1.32	1.37
35	BB	1308	G	O3'-P	-6.00	1.53	1.61
35	BB	1494	G	C3'-C2'	-6.00	1.46	1.52
35	BB	1510	G	C2'-C1'	-6.00	1.46	1.53
36	BC	54	G	N7-C5	-6.00	1.35	1.39
36	BC	153	C	C2-N3	-6.00	1.30	1.35
85	AA	296	A	C3'-C2'	-6.00	1.46	1.52
85	AA	1506	U	C4'-O4'	-6.00	1.37	1.45
34	BA	243	C	C2-N3	-6.00	1.30	1.35
34	BA	572	G	C3'-C2'	6.00	1.59	1.52
34	BA	972	C	C2'-C1'	-6.00	1.46	1.53
34	BA	1000	G	C5-C4	-6.00	1.34	1.38
34	BA	1163	G	C2-N2	-6.00	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1532	G	C5-C4	-6.00	1.34	1.38
35	BB	21	C	C3'-C2'	-6.00	1.46	1.52
35	BB	775	U	C2-N3	-6.00	1.33	1.37
35	BB	896	C	P-O5'	-6.00	1.53	1.59
35	BB	1015	U	N3-C4	-6.00	1.33	1.38
35	BB	1207	C	C2-N3	-6.00	1.30	1.35
35	BB	1319	U	O3'-P	-6.00	1.53	1.61
39	BF	23	G	N9-C8	-6.00	1.33	1.37
40	BG	67	A	C4'-C3'	-6.00	1.46	1.52
40	BG	136	G	N9-C4	-6.00	1.33	1.38
85	AA	258	G	P-O5'	-6.00	1.53	1.59
85	AA	636	G	N7-C5	-6.00	1.35	1.39
85	AA	645	C	C2'-C1'	-6.00	1.46	1.53
85	AA	1925	A	C4'-C3'	-6.00	1.46	1.52
34	BA	590	U	O3'-P	-6.00	1.53	1.61
35	BB	626	C	C2'-C1'	-6.00	1.46	1.53
35	BB	1099	U	C2'-C1'	-6.00	1.46	1.53
36	BC	157	U	C2'-C1'	-6.00	1.46	1.53
37	BD	110	G	C8-N7	-6.00	1.27	1.30
40	BG	75	C	N1-C6	-6.00	1.33	1.37
85	AA	539	A	C8-N7	-6.00	1.27	1.31
85	AA	1107	A	N9-C4	6.00	1.41	1.37
85	AA	2204	A	C5-C4	-6.00	1.34	1.38
34	BA	73	G	C4'-O4'	-5.99	1.37	1.45
34	BA	85	C	P-O5'	-5.99	1.53	1.59
34	BA	127	U	O3'-P	-5.99	1.53	1.61
34	BA	492	G	O3'-P	-5.99	1.53	1.61
34	BA	755	G	C1'-N9	-5.99	1.38	1.46
34	BA	1299	G	C2-N3	-5.99	1.27	1.32
34	BA	1530	G	N3-C4	-5.99	1.31	1.35
35	BB	622	G	N3-C4	-5.99	1.31	1.35
35	BB	690	C	C4'-C3'	-5.99	1.46	1.52
36	BC	69	U	C2-N3	-5.99	1.33	1.37
38	BE	193	A	P-O5'	-5.99	1.53	1.59
40	BG	31	G	N3-C4	-5.99	1.31	1.35
40	BG	35	G	N7-C5	-5.99	1.35	1.39
41	BH	115	A	N7-C5	-5.99	1.35	1.39
85	AA	5	U	N3-C4	-5.99	1.33	1.38
85	AA	1166	C	C3'-C2'	-5.99	1.46	1.52
34	BA	10	G	O4'-C1'	-5.99	1.33	1.41
34	BA	41	U	C4'-C3'	-5.99	1.46	1.52
34	BA	694	G	N1-C2	-5.99	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	731	A	O3'-P	-5.99	1.53	1.61
34	BA	1466	U	N1-C2	-5.99	1.33	1.38
35	BB	631	G	C5-C6	-5.99	1.36	1.42
35	BB	1045	G	N3-C4	-5.99	1.31	1.35
35	BB	1220	A	C5-C6	-5.99	1.35	1.41
41	BH	48	G	P-O5'	-5.99	1.53	1.59
85	AA	717	G	O3'-P	-5.99	1.53	1.61
34	BA	62	A	C1'-N9	-5.99	1.38	1.46
34	BA	147	U	C4'-C3'	-5.99	1.46	1.52
35	BB	988	G	N9-C8	-5.99	1.33	1.37
35	BB	1049	G	C3'-C2'	-5.99	1.46	1.52
40	BG	158	A	N3-C4	-5.99	1.31	1.34
85	AA	162	A	C4'-C3'	-5.99	1.46	1.52
85	AA	540	A	N9-C4	-5.99	1.34	1.37
85	AA	650	G	N9-C4	-5.99	1.33	1.38
85	AA	914	U	O3'-P	-5.99	1.53	1.61
34	BA	64	A	C4'-O4'	-5.99	1.37	1.45
34	BA	280	A	O3'-P	-5.99	1.53	1.61
34	BA	736	G	O4'-C1'	-5.99	1.33	1.41
34	BA	807	U	O4'-C1'	-5.99	1.33	1.41
34	BA	1199	U	P-O5'	-5.99	1.53	1.59
34	BA	1592	U	C2'-C1'	-5.99	1.46	1.53
34	BA	1609	U	C1'-N1	-5.99	1.38	1.46
34	BA	1665	G	N7-C5	-5.99	1.35	1.39
35	BB	490	G	C5-C6	-5.99	1.36	1.42
35	BB	557	C	C2'-C1'	-5.99	1.46	1.53
35	BB	814	A	O3'-P	-5.99	1.53	1.61
35	BB	1353	G	C3'-C2'	-5.99	1.46	1.52
36	BC	46	G	C6-N1	-5.99	1.35	1.39
36	BC	71	A	C3'-C2'	-5.99	1.46	1.52
40	BG	165	C	C2-N3	-5.99	1.30	1.35
41	BH	7	C	C2'-C1'	-5.99	1.46	1.53
85	AA	393	C	P-O5'	-5.99	1.53	1.59
85	AA	418	G	C2'-C1'	-5.99	1.46	1.53
34	BA	425	G	C2'-C1'	-5.99	1.46	1.53
34	BA	1719	G	C5-C4	-5.99	1.34	1.38
35	BB	97	U	P-O5'	-5.99	1.53	1.59
35	BB	1154	C	P-O5'	-5.99	1.53	1.59
36	BC	123	G	C2-N3	-5.99	1.27	1.32
40	BG	3	G	N9-C4	-5.99	1.33	1.38
34	BA	378	C	C4-N4	-5.99	1.28	1.33
34	BA	790	G	C8-N7	-5.99	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1634	A	C6-N1	-5.99	1.31	1.35
34	BA	1668	C	C4'-O4'	-5.99	1.37	1.45
35	BB	522	A	C4'-O4'	-5.99	1.37	1.45
35	BB	1197	G	C2'-C1'	-5.99	1.46	1.53
37	BD	99	G	C2'-C1'	-5.99	1.46	1.53
38	BE	72	C	C2'-C1'	-5.99	1.46	1.53
85	AA	109	G	N9-C4	5.99	1.42	1.38
85	AA	2205	A	C2'-C1'	-5.99	1.46	1.53
34	BA	25	C	O3'-P	-5.98	1.53	1.61
34	BA	1295	U	C3'-C2'	-5.98	1.46	1.52
35	BB	658	G	C5-C4	-5.98	1.34	1.38
39	BF	11	C	P-O5'	5.98	1.65	1.59
41	BH	72	G	C3'-C2'	-5.98	1.46	1.52
85	AA	275	A	C2'-C1'	-5.98	1.46	1.53
85	AA	315	U	P-O5'	-5.98	1.53	1.59
85	AA	869	A	C1'-N9	-5.98	1.38	1.46
85	AA	1852	U	C4'-C3'	5.98	1.59	1.53
85	AA	2196	G	C1'-N9	-5.98	1.38	1.46
86	AB	68	C	N1-C6	-5.98	1.33	1.37
34	BA	233	U	P-O5'	-5.98	1.53	1.59
34	BA	373	G	N1-C2	-5.98	1.32	1.37
34	BA	568	G	C2'-C1'	-5.98	1.46	1.53
34	BA	615	A	N3-C4	-5.98	1.31	1.34
34	BA	699	G	C2'-C1'	-5.98	1.46	1.53
34	BA	789	U	C2-N3	-5.98	1.33	1.37
34	BA	1075	U	C2-N3	-5.98	1.33	1.37
34	BA	1289	C	C2-N3	-5.98	1.30	1.35
34	BA	1544	G	C5-C4	-5.98	1.34	1.38
34	BA	1585	A	O4'-C1'	-5.98	1.33	1.41
35	BB	94	A	C2'-C1'	-5.98	1.46	1.53
35	BB	826	G	N7-C5	-5.98	1.35	1.39
35	BB	1354	C	C3'-C2'	-5.98	1.46	1.52
35	BB	1534	U	O3'-P	-5.98	1.53	1.61
40	BG	116	G	N7-C5	-5.98	1.35	1.39
85	AA	1277	C	O4'-C1'	-5.98	1.33	1.41
85	AA	1437	G	C1'-N9	-5.98	1.38	1.46
85	AA	2204	A	C3'-C2'	-5.98	1.46	1.52
34	BA	371	U	C4'-O4'	-5.98	1.37	1.45
34	BA	710	A	C1'-N9	-5.98	1.38	1.46
34	BA	1022	C	C1'-N1	-5.98	1.38	1.46
34	BA	1507	C	C2-N3	-5.98	1.30	1.35
35	BB	1145	G	N3-C4	-5.98	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	118	U	O3'-P	-5.98	1.53	1.61
37	BD	28	C	O3'-P	-5.98	1.53	1.61
38	BE	192	A	C6-N1	-5.98	1.31	1.35
40	BG	115	C	P-O5'	-5.98	1.53	1.59
85	AA	885	A	N9-C4	5.98	1.41	1.37
85	AA	1580	A	N9-C4	-5.98	1.34	1.37
85	AA	1753	A	C3'-O3'	5.98	1.50	1.42
85	AA	2058	C	C2-N3	-5.98	1.30	1.35
34	BA	44	U	C4'-O4'	-5.98	1.37	1.45
34	BA	1431	G	N9-C8	-5.98	1.33	1.37
35	BB	505	G	N9-C4	5.98	1.42	1.38
35	BB	1172	U	C4'-O4'	-5.98	1.37	1.45
35	BB	1274	G	N3-C4	-5.98	1.31	1.35
38	BE	147	G	N9-C8	-5.98	1.33	1.37
38	BE	158	U	C2-N3	-5.98	1.33	1.37
41	BH	4	U	N1-C6	-5.98	1.32	1.38
71	Bl	39	TYR	CB-CG	-5.98	1.42	1.51
85	AA	379	U	C1'-N1	-5.98	1.38	1.46
85	AA	413	G	C5-C4	-5.98	1.34	1.38
85	AA	1669	G	C5-C4	-5.98	1.34	1.38
34	BA	228	A	P-O5'	-5.98	1.53	1.59
34	BA	559	C	N1-C6	-5.98	1.33	1.37
34	BA	783	U	N3-C4	-5.98	1.33	1.38
34	BA	909	G	N1-C2	-5.98	1.32	1.37
34	BA	1036	G	C5-C6	-5.98	1.36	1.42
34	BA	1333	G	N9-C4	-5.98	1.33	1.38
34	BA	1839	G	C1'-N9	-5.98	1.38	1.46
35	BB	791	A	N7-C5	-5.98	1.35	1.39
35	BB	1202	G	C4'-C3'	-5.98	1.46	1.52
35	BB	1323	U	O3'-P	-5.98	1.53	1.61
35	BB	1427	A	C1'-N9	-5.98	1.38	1.46
35	BB	1479	C	C2'-C1'	-5.98	1.46	1.53
37	BD	7	G	C2'-C1'	-5.98	1.46	1.53
40	BG	34	A	C2'-C1'	-5.98	1.46	1.53
41	BH	15	A	C2'-C1'	-5.98	1.46	1.53
85	AA	48	G	C2'-C1'	-5.98	1.46	1.53
85	AA	760	U	O3'-P	-5.98	1.53	1.61
85	AA	2208	G	C5'-C4'	-5.98	1.44	1.51
34	BA	1508	C	N3-C4	-5.98	1.29	1.33
34	BA	1552	C	N1-C6	-5.98	1.33	1.37
35	BB	424	U	O3'-P	-5.98	1.53	1.61
34	BA	28	C	C3'-C2'	-5.97	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	57	A	C1'-N9	-5.97	1.38	1.46
34	BA	118	C	C2-N3	-5.97	1.30	1.35
34	BA	1000	G	C4'-C3'	-5.97	1.46	1.52
34	BA	1196	C	P-O5'	-5.97	1.53	1.59
35	BB	408	U	C4'-C3'	-5.97	1.46	1.52
35	BB	1057	G	C5-C4	-5.97	1.34	1.38
35	BB	1120	A	C3'-C2'	-5.97	1.46	1.52
35	BB	1177	U	C2-N3	-5.97	1.33	1.37
35	BB	1183	U	P-O5'	-5.97	1.53	1.59
35	BB	1258	G	C6-N1	-5.97	1.35	1.39
36	BC	16	A	C4'-C3'	-5.97	1.46	1.52
37	BD	111	U	N3-C4	-5.97	1.33	1.38
40	BG	46	G	C1'-N9	-5.97	1.38	1.46
85	AA	311	U	C3'-C2'	-5.97	1.46	1.52
85	AA	461	G	O3'-P	-5.97	1.53	1.61
85	AA	976	G	O3'-P	-5.97	1.53	1.61
85	AA	976	G	N9-C4	-5.97	1.33	1.38
85	AA	1458	G	O3'-P	-5.97	1.53	1.61
85	AA	1598	A	C4'-C3'	-5.97	1.46	1.52
34	BA	234	A	C5'-C4'	-5.97	1.44	1.51
34	BA	332	U	O3'-P	-5.97	1.53	1.61
34	BA	1516	G	N9-C4	-5.97	1.33	1.38
34	BA	1588	U	C3'-C2'	-5.97	1.46	1.52
34	BA	1596	C	O3'-P	-5.97	1.53	1.61
35	BB	386	G	N7-C5	-5.97	1.35	1.39
35	BB	464	C	C2'-C1'	-5.97	1.46	1.53
35	BB	483	C	C2'-C1'	-5.97	1.46	1.53
35	BB	1525	G	P-O5'	-5.97	1.53	1.59
36	BC	67	U	O4'-C1'	-5.97	1.33	1.41
36	BC	86	U	N1-C2	5.97	1.44	1.38
37	BD	25	G	N7-C5	-5.97	1.35	1.39
38	BE	136	G	P-O5'	-5.97	1.53	1.59
38	BE	140	G	N1-C2	-5.97	1.32	1.37
38	BE	170	U	O3'-P	-5.97	1.53	1.61
40	BG	60	A	O3'-P	-5.97	1.53	1.61
40	BG	171	A	O3'-P	-5.97	1.53	1.61
85	AA	130	G	C5'-C4'	-5.97	1.44	1.51
85	AA	312	G	C8-N7	-5.97	1.27	1.30
85	AA	1325	C	O3'-P	-5.97	1.53	1.61
85	AA	1527	G	C2'-C1'	-5.97	1.46	1.53
34	BA	1112	U	O3'-P	-5.97	1.53	1.61
34	BA	1134	A	C2'-C1'	-5.97	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1486	U	C2-N3	-5.97	1.33	1.37
34	BA	1644	A	C8-N7	-5.97	1.27	1.31
35	BB	424	U	P-O5'	-5.97	1.53	1.59
35	BB	1335	G	N1-C2	-5.97	1.32	1.37
85	AA	147	G	P-O5'	-5.97	1.53	1.59
85	AA	1707	G	O3'-P	-5.97	1.53	1.61
34	BA	257	G	C8-N7	-5.97	1.27	1.30
34	BA	448	U	O3'-P	-5.97	1.53	1.61
34	BA	540	G	C5-C4	-5.97	1.34	1.38
34	BA	953	G	N9-C4	-5.97	1.33	1.38
34	BA	1203	G	C1'-N9	-5.97	1.38	1.46
34	BA	1435	A	C5-C4	-5.97	1.34	1.38
34	BA	1827	C	C3'-C2'	-5.97	1.46	1.52
35	BB	121	A	N9-C8	-5.97	1.32	1.37
35	BB	514	G	N1-C2	-5.97	1.32	1.37
35	BB	712	U	O3'-P	-5.97	1.53	1.61
36	BC	71	A	N9-C4	-5.97	1.34	1.37
37	BD	84	U	N3-C4	-5.97	1.33	1.38
85	AA	714	U	N3-C4	-5.97	1.33	1.38
85	AA	744	C	C4-C5	-5.97	1.38	1.43
85	AA	807	A	C4'-C3'	-5.97	1.46	1.52
85	AA	1129	A	C2'-C1'	-5.97	1.46	1.53
85	AA	1282	A	P-O5'	-5.97	1.53	1.59
85	AA	1364	U	C2'-C1'	-5.97	1.46	1.53
85	AA	1555	G	C6-N1	-5.97	1.35	1.39
85	AA	1952	C	C2'-C1'	-5.97	1.46	1.53
34	BA	1197	U	N3-C4	-5.97	1.33	1.38
34	BA	1201	G	C2'-C1'	-5.97	1.46	1.53
35	BB	64	U	N1-C2	-5.97	1.33	1.38
35	BB	1147	G	C5'-C4'	-5.97	1.44	1.51
38	BE	192	A	C8-N7	-5.97	1.27	1.31
85	AA	1927	G	C2-N3	-5.97	1.27	1.32
34	BA	344	G	C8-N7	-5.97	1.27	1.30
34	BA	810	A	O3'-P	-5.97	1.53	1.61
34	BA	1122	G	P-O5'	-5.97	1.53	1.59
34	BA	1266	A	N3-C4	-5.97	1.31	1.34
35	BB	522	A	P-O5'	-5.97	1.53	1.59
35	BB	1298	C	N3-C4	-5.97	1.29	1.33
34	BA	527	C	C3'-C2'	-5.96	1.46	1.52
34	BA	1062	G	C5-C6	-5.96	1.36	1.42
34	BA	1260	G	C2-N2	-5.96	1.28	1.34
34	BA	1643	U	P-O5'	-5.96	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1682	A	C2'-C1'	-5.96	1.46	1.53
34	BA	1687	A	C4'-O4'	-5.96	1.37	1.45
35	BB	65	A	C2'-C1'	-5.96	1.46	1.53
35	BB	93	A	C5-C6	-5.96	1.35	1.41
35	BB	571	C	C1'-N1	-5.96	1.38	1.46
35	BB	628	A	C6-N1	-5.96	1.31	1.35
36	BC	18	G	P-O5'	-5.96	1.53	1.59
38	BE	17	U	C1'-N1	-5.96	1.38	1.46
38	BE	96	G	C6-N1	-5.96	1.35	1.39
40	BG	93	U	N3-C4	-5.96	1.33	1.38
85	AA	65	A	N9-C8	-5.96	1.32	1.37
85	AA	74	U	O3'-P	-5.96	1.53	1.61
85	AA	359	A	C3'-C2'	-5.96	1.46	1.52
85	AA	483	G	N9-C8	-5.96	1.33	1.37
85	AA	519	A	C5-C4	-5.96	1.34	1.38
85	AA	931	G	C2-N2	-5.96	1.28	1.34
85	AA	1560	A	P-O5'	-5.96	1.53	1.59
85	AA	1933	G	C4'-C3'	5.96	1.59	1.53
85	AA	2039	G	C2'-C1'	-5.96	1.46	1.53
35	BB	71	A	C3'-C2'	-5.96	1.46	1.52
35	BB	87	G	N7-C5	-5.96	1.35	1.39
35	BB	833	G	C2-N3	-5.96	1.27	1.32
40	BG	19	C	C3'-C2'	-5.96	1.46	1.52
41	BH	105	U	C4'-C3'	-5.96	1.46	1.52
85	AA	660	G	O3'-P	-5.96	1.53	1.61
34	BA	684	G	C4'-C3'	5.96	1.59	1.53
34	BA	731	A	N9-C4	-5.96	1.34	1.37
34	BA	877	U	C2'-C1'	-5.96	1.46	1.53
34	BA	1363	A	N9-C4	-5.96	1.34	1.37
34	BA	1540	C	P-O5'	-5.96	1.53	1.59
34	BA	1668	C	O4'-C1'	-5.96	1.33	1.41
35	BB	637	G	P-O5'	-5.96	1.53	1.59
35	BB	1228	A	C2'-C1'	-5.96	1.46	1.53
35	BB	1413	U	N3-C4	-5.96	1.33	1.38
85	AA	252	G	N9-C4	-5.96	1.33	1.38
85	AA	574	U	P-O5'	-5.96	1.53	1.59
85	AA	684	G	N1-C2	-5.96	1.32	1.37
85	AA	778	C	C3'-C2'	-5.96	1.46	1.52
85	AA	811	A	C5-C4	-5.96	1.34	1.38
85	AA	1992	A	C6-N1	-5.96	1.31	1.35
34	BA	622	G	P-O5'	-5.96	1.53	1.59
34	BA	629	G	C6-N1	-5.96	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1838	U	C3'-C2'	-5.96	1.46	1.52
35	BB	607	G	C6-N1	-5.96	1.35	1.39
35	BB	772	U	O3'-P	-5.96	1.53	1.61
37	BD	27	A	C3'-C2'	-5.96	1.46	1.52
85	AA	185	A	C8-N7	-5.96	1.27	1.31
85	AA	375	C	C2-N3	-5.96	1.30	1.35
85	AA	963	U	C3'-C2'	-5.96	1.46	1.52
85	AA	1108	U	O3'-P	-5.96	1.53	1.61
85	AA	2132	A	C5-C4	-5.96	1.34	1.38
34	BA	103	G	N9-C8	-5.96	1.33	1.37
34	BA	603	U	C4-C5	-5.96	1.38	1.43
34	BA	1072	U	C2'-C1'	-5.96	1.46	1.53
34	BA	1148	U	C2-N3	-5.96	1.33	1.37
34	BA	1452	U	C2-N3	-5.96	1.33	1.37
34	BA	1519	G	C5-C4	-5.96	1.34	1.38
35	BB	74	U	C2-N3	-5.96	1.33	1.37
35	BB	1092	G	C3'-C2'	-5.96	1.46	1.52
36	BC	145	G	C1'-N9	-5.96	1.38	1.46
85	AA	159	G	C5-C4	-5.96	1.34	1.38
85	AA	868	A	C3'-C2'	-5.96	1.46	1.52
34	BA	1252	G	N9-C8	-5.96	1.33	1.37
35	BB	118	A	C5-C4	-5.96	1.34	1.38
35	BB	567	G	C2-N2	-5.96	1.28	1.34
35	BB	1061	G	N3-C4	-5.96	1.31	1.35
36	BC	116	C	N1-C6	-5.96	1.33	1.37
38	BE	64	A	C5-C4	-5.96	1.34	1.38
40	BG	148	C	O4'-C1'	-5.96	1.33	1.41
41	BH	68	G	N7-C5	-5.96	1.35	1.39
85	AA	1510	A	C3'-C2'	-5.96	1.46	1.52
85	AA	1622	G	O3'-P	-5.96	1.54	1.61
85	AA	1813	C	O3'-P	-5.96	1.54	1.61
85	AA	1894	G	O4'-C1'	-5.96	1.33	1.41
85	AA	1960	C	C2'-C1'	-5.96	1.46	1.53
85	AA	2086	C	C4'-C3'	-5.96	1.46	1.52
35	BB	648	G	C4'-O4'	-5.96	1.37	1.45
35	BB	1407	U	C2'-C1'	-5.96	1.46	1.53
40	BG	107	U	C1'-N1	-5.96	1.38	1.46
41	BH	131	A	N3-C4	-5.96	1.31	1.34
85	AA	431	G	C2-N3	-5.96	1.27	1.32
85	AA	497	G	C2-N2	-5.96	1.28	1.34
85	AA	1618	G	N9-C4	-5.96	1.33	1.38
34	BA	185	A	N9-C4	-5.95	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	201	A	N9-C4	-5.95	1.34	1.37
34	BA	532	C	C3'-C2'	-5.95	1.46	1.52
34	BA	557	U	C2'-O2'	5.95	1.49	1.41
34	BA	804	G	C5'-C4'	-5.95	1.44	1.51
34	BA	1195	G	N9-C4	-5.95	1.33	1.38
35	BB	1396	G	P-O5'	-5.95	1.53	1.59
35	BB	1437	U	C2'-C1'	-5.95	1.46	1.53
37	BD	5	A	C5-C4	-5.95	1.34	1.38
38	BE	129	G	C5-C6	-5.95	1.36	1.42
38	BE	141	A	C5-C4	-5.95	1.34	1.38
85	AA	333	A	N7-C5	-5.95	1.35	1.39
85	AA	693	A	C6-N1	-5.95	1.31	1.35
85	AA	966	G	O3'-P	-5.95	1.54	1.61
34	BA	146	G	P-O5'	-5.95	1.53	1.59
35	BB	442	U	C4'-O4'	-5.95	1.37	1.45
35	BB	1045	G	C2-N2	-5.95	1.28	1.34
35	BB	1336	G	C2-N2	-5.95	1.28	1.34
38	BE	121	G	P-O5'	-5.95	1.53	1.59
85	AA	412	G	C6-N1	-5.95	1.35	1.39
35	BB	968	C	P-O5'	-5.95	1.53	1.59
35	BB	1144	A	P-O5'	-5.95	1.53	1.59
36	BC	79	A	C1'-N9	-5.95	1.38	1.46
38	BE	46	G	N9-C4	-5.95	1.33	1.38
85	AA	400	G	C2-N3	-5.95	1.27	1.32
85	AA	993	G	N7-C5	-5.95	1.35	1.39
85	AA	1243	G	C5-C4	-5.95	1.34	1.38
34	BA	955	G	C5-C4	-5.95	1.34	1.38
34	BA	1094	U	C1'-N1	-5.95	1.38	1.46
34	BA	1310	C	C4-N4	-5.95	1.28	1.33
35	BB	1212	C	O3'-P	-5.95	1.54	1.61
37	BD	99	G	C5-C6	-5.95	1.36	1.42
85	AA	557	G	C3'-C2'	-5.95	1.46	1.52
85	AA	824	C	P-O5'	-5.95	1.53	1.59
85	AA	1142	G	C3'-C2'	-5.95	1.46	1.52
34	BA	445	C	P-O5'	-5.95	1.53	1.59
35	BB	78	C	P-O5'	-5.95	1.53	1.59
35	BB	580	A	C4'-C3'	5.95	1.59	1.53
36	BC	90	U	C2'-C1'	-5.95	1.46	1.53
85	AA	167	A	C3'-C2'	-5.95	1.46	1.52
85	AA	373	G	C5-C4	-5.95	1.34	1.38
85	AA	1499	G	N9-C8	-5.95	1.33	1.37
85	AA	1619	A	N9-C4	-5.95	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	20	A	C5-C6	-5.95	1.35	1.41
34	BA	609	G	C5-C4	-5.95	1.34	1.38
34	BA	1414	C	O3'-P	-5.95	1.54	1.61
34	BA	1474	G	C5-C4	-5.95	1.34	1.38
35	BB	498	G	O3'-P	-5.95	1.54	1.61
35	BB	678	U	C4'-C3'	-5.95	1.46	1.52
35	BB	802	G	O3'-P	-5.95	1.54	1.61
35	BB	1271	A	C2'-C1'	-5.95	1.46	1.53
36	BC	154	A	C5-C4	-5.95	1.34	1.38
37	BD	44	U	N3-C4	-5.95	1.33	1.38
38	BE	184	G	O3'-P	-5.95	1.54	1.61
85	AA	991	G	C2-N2	-5.95	1.28	1.34
85	AA	1158	U	O3'-P	-5.95	1.54	1.61
34	BA	1640	G	C2-N2	-5.94	1.28	1.34
34	BA	1656	A	C8-N7	-5.94	1.27	1.31
35	BB	1045	G	C3'-C2'	-5.94	1.46	1.52
85	AA	1125	G	N9-C8	-5.94	1.33	1.37
85	AA	1864	G	N3-C4	-5.94	1.31	1.35
34	BA	78	U	C2-N3	-5.94	1.33	1.37
34	BA	106	U	P-O5'	-5.94	1.53	1.59
34	BA	301	U	C3'-C2'	-5.94	1.46	1.52
34	BA	339	G	N9-C4	-5.94	1.33	1.38
34	BA	679	U	C1'-N1	-5.94	1.38	1.46
35	BB	372	U	C3'-C2'	-5.94	1.46	1.52
35	BB	874	G	C2'-C1'	-5.94	1.46	1.53
35	BB	1058	U	N3-C4	-5.94	1.33	1.38
35	BB	1488	G	C5-C4	-5.94	1.34	1.38
41	BH	130	G	P-O5'	-5.94	1.53	1.59
85	AA	873	U	C3'-O3'	5.94	1.50	1.42
85	AA	1448	A	C4'-C3'	-5.94	1.46	1.52
85	AA	1884	A	O3'-P	-5.94	1.54	1.61
34	BA	56	G	N9-C8	-5.94	1.33	1.37
34	BA	440	A	C2'-C1'	-5.94	1.46	1.53
34	BA	737	U	C3'-C2'	-5.94	1.46	1.52
34	BA	961	C	C2-N3	-5.94	1.30	1.35
34	BA	990	G	N1-C2	-5.94	1.32	1.37
34	BA	996	U	N3-C4	-5.94	1.33	1.38
34	BA	1327	G	N9-C8	-5.94	1.33	1.37
34	BA	1768	G	C2'-C1'	-5.94	1.46	1.53
35	BB	450	A	C3'-C2'	-5.94	1.46	1.52
35	BB	496	C	C4'-C3'	-5.94	1.46	1.52
35	BB	1101	C	P-O5'	-5.94	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1469	A	C2'-C1'	-5.94	1.46	1.53
36	BC	36	G	N3-C4	-5.94	1.31	1.35
38	BE	68	U	N3-C4	-5.94	1.33	1.38
85	AA	352	G	N7-C5	-5.94	1.35	1.39
85	AA	1162	A	O3'-P	-5.94	1.54	1.61
85	AA	1227	A	C5-C4	-5.94	1.34	1.38
85	AA	1471	G	C6-O6	-5.94	1.18	1.24
34	BA	114	U	C4'-O4'	-5.94	1.37	1.45
38	BE	130	G	O3'-P	-5.94	1.54	1.61
40	BG	169	A	C8-N7	-5.94	1.27	1.31
85	AA	1369	U	O3'-P	-5.94	1.54	1.61
34	BA	40	A	N9-C4	-5.94	1.34	1.37
34	BA	306	G	O3'-P	-5.94	1.54	1.61
34	BA	741	A	O4'-C1'	-5.94	1.33	1.41
34	BA	786	U	N1-C6	-5.94	1.32	1.38
34	BA	907	A	P-O5'	-5.94	1.53	1.59
34	BA	1098	G	N9-C4	-5.94	1.33	1.38
34	BA	1100	A	O3'-P	-5.94	1.54	1.61
34	BA	1274	A	N3-C4	-5.94	1.31	1.34
35	BB	627	G	C2-N2	-5.94	1.28	1.34
35	BB	1038	G	C5-C4	-5.94	1.34	1.38
35	BB	1384	A	P-O5'	-5.94	1.53	1.59
35	BB	1444	U	C2'-C1'	-5.94	1.46	1.53
36	BC	56	G	C1'-N9	-5.94	1.38	1.46
38	BE	46	G	O4'-C1'	-5.94	1.33	1.41
38	BE	53	U	C2'-C1'	-5.94	1.46	1.53
38	BE	166	G	C3'-C2'	-5.94	1.46	1.52
85	AA	34	G	C6-N1	-5.94	1.35	1.39
85	AA	526	G	C5'-C4'	-5.94	1.44	1.51
85	AA	693	A	C3'-C2'	5.94	1.59	1.52
85	AA	929	G	N7-C5	-5.94	1.35	1.39
85	AA	1523	G	C5-C4	-5.94	1.34	1.38
85	AA	1648	G	O3'-P	-5.94	1.54	1.61
34	BA	905	A	O3'-P	-5.94	1.54	1.61
34	BA	1550	G	C4'-C3'	-5.94	1.46	1.52
35	BB	1161	G	C2-N3	-5.94	1.28	1.32
36	BC	25	C	C4-C5	-5.94	1.38	1.43
85	AA	390	U	C1'-N1	-5.94	1.38	1.46
85	AA	1202	G	C6-N1	-5.94	1.35	1.39
34	BA	433	G	C5-C4	-5.93	1.34	1.38
34	BA	579	U	N1-C2	-5.93	1.33	1.38
34	BA	585	G	C5-C6	-5.93	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	754	G	C2-N2	-5.93	1.28	1.34
35	BB	103	C	O3'-P	-5.93	1.54	1.61
35	BB	714	U	N3-C4	-5.93	1.33	1.38
35	BB	785	G	N9-C8	-5.93	1.33	1.37
35	BB	812	G	C6-N1	-5.93	1.35	1.39
35	BB	891	U	O3'-P	-5.93	1.54	1.61
35	BB	1050	A	N7-C5	-5.93	1.35	1.39
35	BB	1430	G	N7-C5	-5.93	1.35	1.39
38	BE	107	U	C5'-C4'	5.93	1.58	1.51
85	AA	1859	C	O3'-P	-5.93	1.54	1.61
34	BA	236	A	C4'-O4'	-5.93	1.37	1.45
34	BA	244	A	C2'-C1'	-5.93	1.46	1.53
34	BA	790	G	C6-N1	-5.93	1.35	1.39
34	BA	1472	G	C5-C4	-5.93	1.34	1.38
34	BA	1714	A	C1'-N9	-5.93	1.38	1.46
35	BB	314	A	O3'-P	-5.93	1.54	1.61
35	BB	449	C	N3-C4	-5.93	1.29	1.33
35	BB	1082	A	C5-C4	-5.93	1.34	1.38
35	BB	1426	G	C3'-C2'	-5.93	1.46	1.52
40	BG	138	C	C3'-C2'	-5.93	1.46	1.52
40	BG	152	G	C2'-C1'	-5.93	1.46	1.53
85	AA	378	A	C6-N6	-5.93	1.29	1.33
85	AA	1130	G	N7-C5	-5.93	1.35	1.39
85	AA	1220	A	C4'-C3'	-5.93	1.46	1.52
85	AA	1496	U	O4'-C1'	-5.93	1.33	1.41
85	AA	1544	G	C3'-C2'	-5.93	1.46	1.52
85	AA	1869	U	C2'-C1'	-5.93	1.46	1.53
85	AA	2217	A	C1'-N9	-5.93	1.38	1.46
34	BA	40	A	N3-C4	-5.93	1.31	1.34
34	BA	419	U	N1-C2	-5.93	1.33	1.38
34	BA	493	G	C2-N2	-5.93	1.28	1.34
34	BA	1023	G	C6-N1	-5.93	1.35	1.39
35	BB	439	G	C5-C4	-5.93	1.34	1.38
35	BB	1037	A	N9-C4	-5.93	1.34	1.37
35	BB	1155	U	N3-C4	-5.93	1.33	1.38
38	BE	13	A	C1'-N9	-5.93	1.38	1.46
39	BF	67	A	O3'-P	-5.93	1.54	1.61
85	AA	277	G	C1'-N9	-5.93	1.38	1.46
85	AA	2016	A	C2'-C1'	-5.93	1.46	1.53
34	BA	442	G	N9-C4	-5.93	1.33	1.38
34	BA	956	G	O3'-P	-5.93	1.54	1.61
34	BA	1017	C	C2'-C1'	-5.93	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	497	C	C3'-C2'	-5.93	1.46	1.52
36	BC	154	A	C8-N7	-5.93	1.27	1.31
38	BE	20	C	C4'-C3'	-5.93	1.46	1.52
85	AA	877	G	C5-C4	-5.93	1.34	1.38
34	BA	1542	A	C5-C4	-5.93	1.34	1.38
35	BB	673	C	N1-C6	-5.93	1.33	1.37
35	BB	1220	A	C5-C4	-5.93	1.34	1.38
40	BG	80	G	C1'-N9	-5.93	1.38	1.46
85	AA	90	A	O3'-P	-5.93	1.54	1.61
85	AA	1006	C	C3'-C2'	-5.93	1.46	1.52
86	AB	19	G	C2-N2	-5.93	1.28	1.34
34	BA	148	G	N9-C4	-5.93	1.33	1.38
34	BA	331	G	N7-C5	-5.93	1.35	1.39
34	BA	471	U	C2'-C1'	-5.93	1.46	1.53
34	BA	496	G	C2-N2	-5.93	1.28	1.34
34	BA	626	G	C6-N1	-5.93	1.35	1.39
34	BA	633	G	C3'-C2'	-5.93	1.46	1.52
34	BA	675	C	C4-C5	-5.93	1.38	1.43
35	BB	775	U	O3'-P	-5.93	1.54	1.61
35	BB	1192	C	C4'-C3'	-5.93	1.46	1.52
38	BE	149	A	N9-C8	-5.93	1.33	1.37
40	BG	48	U	C2'-C1'	-5.93	1.46	1.53
85	AA	747	U	C2-N3	-5.93	1.33	1.37
85	AA	1630	U	O3'-P	-5.93	1.54	1.61
85	AA	2129	U	C4'-C3'	-5.93	1.46	1.52
34	BA	187	G	C6-N1	-5.92	1.35	1.39
34	BA	353	U	P-O5'	-5.92	1.53	1.59
34	BA	426	A	N9-C8	-5.92	1.33	1.37
34	BA	745	A	C4'-C3'	-5.92	1.46	1.52
34	BA	757	G	C3'-C2'	-5.92	1.46	1.52
34	BA	992	A	C5-C6	-5.92	1.35	1.41
34	BA	1251	A	C5-C4	-5.92	1.34	1.38
34	BA	1257	U	N1-C2	-5.92	1.33	1.38
34	BA	1542	A	C2'-C1'	-5.92	1.46	1.53
35	BB	79	U	C3'-C2'	-5.92	1.46	1.52
35	BB	789	G	N9-C4	-5.92	1.33	1.38
35	BB	812	G	C1'-N9	-5.92	1.38	1.46
35	BB	1357	C	C2-N3	-5.92	1.31	1.35
37	BD	93	G	C2-N2	-5.92	1.28	1.34
40	BG	25	G	N9-C4	-5.92	1.33	1.38
85	AA	69	C	P-O5'	-5.92	1.53	1.59
85	AA	379	U	C2-N3	-5.92	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1169	A	P-O5'	-5.92	1.53	1.59
85	AA	1695	G	N3-C4	-5.92	1.31	1.35
34	BA	184	C	C5'-C4'	-5.92	1.44	1.51
35	BB	377	A	C1'-N9	-5.92	1.38	1.46
34	BA	140	C	C4'-O4'	-5.92	1.37	1.45
34	BA	678	C	N1-C6	-5.92	1.33	1.37
34	BA	1324	G	N7-C5	-5.92	1.35	1.39
34	BA	1529	G	N7-C5	-5.92	1.35	1.39
34	BA	1654	G	P-O5'	-5.92	1.53	1.59
35	BB	372	U	C4'-C3'	-5.92	1.46	1.52
35	BB	793	A	O3'-P	-5.92	1.54	1.61
35	BB	806	U	C3'-C2'	-5.92	1.46	1.52
35	BB	1442	C	O3'-P	-5.92	1.54	1.61
85	AA	32	U	N1-C2	-5.92	1.33	1.38
85	AA	562	C	P-O5'	-5.92	1.53	1.59
85	AA	631	G	C1'-N9	-5.92	1.38	1.46
34	BA	1097	G	C6-N1	-5.92	1.35	1.39
34	BA	162	G	N3-C4	-5.92	1.31	1.35
34	BA	939	C	N3-C4	-5.92	1.29	1.33
34	BA	1087	A	C1'-N9	-5.92	1.38	1.46
34	BA	1520	A	C1'-N9	-5.92	1.38	1.46
34	BA	1627	U	C5'-C4'	5.92	1.58	1.51
34	BA	1655	G	C2-N2	-5.92	1.28	1.34
35	BB	480	C	O3'-P	-5.92	1.54	1.61
35	BB	618	U	C1'-N1	-5.92	1.38	1.46
35	BB	1052	G	C5-C6	-5.92	1.36	1.42
35	BB	1199	A	C4'-O4'	-5.92	1.37	1.45
35	BB	1238	A	P-O5'	-5.92	1.53	1.59
37	BD	94	C	C3'-C2'	-5.92	1.46	1.52
41	BH	41	A	C8-N7	-5.92	1.27	1.31
83	Bx	47	PHE	C-N	5.92	1.43	1.33
85	AA	194	U	C3'-C2'	-5.92	1.46	1.52
85	AA	739	C	C3'-C2'	-5.92	1.46	1.52
85	AA	1533	C	O3'-P	-5.92	1.54	1.61
85	AA	1541	G	C5-C4	-5.92	1.34	1.38
85	AA	2007	G	C6-N1	-5.92	1.35	1.39
34	BA	208	A	N9-C4	5.92	1.41	1.37
34	BA	936	A	C5-C4	-5.92	1.34	1.38
34	BA	1114	G	N7-C5	-5.92	1.35	1.39
34	BA	1780	U	C2'-C1'	-5.92	1.46	1.53
35	BB	35	G	C3'-C2'	-5.92	1.46	1.52
35	BB	596	C	C1'-N1	-5.92	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	664	A	C4'-O4'	-5.92	1.37	1.45
35	BB	1526	C	P-O5'	-5.92	1.53	1.59
37	BD	118	C	P-O5'	-5.92	1.53	1.59
39	BF	17	U	C2-N3	-5.92	1.33	1.37
41	BH	130	G	N7-C5	-5.92	1.35	1.39
85	AA	548	G	O3'-P	-5.92	1.54	1.61
85	AA	782	G	C2'-C1'	-5.92	1.46	1.53
34	BA	421	G	C2'-C1'	-5.92	1.46	1.53
34	BA	755	G	C2-N3	-5.92	1.28	1.32
35	BB	1099	U	N3-C4	-5.92	1.33	1.38
35	BB	1371	G	P-O5'	-5.92	1.53	1.59
38	BE	146	U	C3'-C2'	-5.92	1.46	1.52
40	BG	31	G	C5-C6	-5.92	1.36	1.42
41	BH	19	G	C5-C4	-5.92	1.34	1.38
85	AA	432	A	O4'-C1'	-5.92	1.33	1.41
34	BA	14	G	C2-N2	-5.91	1.28	1.34
34	BA	244	A	C1'-N9	-5.91	1.38	1.46
34	BA	1221	A	N1-C2	-5.91	1.29	1.34
34	BA	1226	G	N7-C5	-5.91	1.35	1.39
34	BA	1342	C	O3'-P	-5.91	1.54	1.61
34	BA	1836	A	C5-C4	-5.91	1.34	1.38
35	BB	545	C	C4-C5	-5.91	1.38	1.43
35	BB	1151	A	N3-C4	-5.91	1.31	1.34
35	BB	1235	A	C1'-N9	-5.91	1.38	1.46
36	BC	4	G	N3-C4	-5.91	1.31	1.35
85	AA	276	C	O3'-P	-5.91	1.54	1.61
85	AA	361	U	C2-N3	-5.91	1.33	1.37
85	AA	489	C	C4-N4	-5.91	1.28	1.33
85	AA	767	A	C5'-C4'	5.91	1.58	1.51
85	AA	2145	G	P-O5'	-5.91	1.53	1.59
34	BA	691	A	O3'-P	-5.91	1.54	1.61
35	BB	618	U	O3'-P	-5.91	1.54	1.61
35	BB	1146	C	C4'-C3'	-5.91	1.46	1.52
35	BB	1159	U	C1'-N1	-5.91	1.38	1.46
35	BB	1258	G	N3-C4	-5.91	1.31	1.35
35	BB	1271	A	C6-N1	-5.91	1.31	1.35
40	BG	84	U	C2'-C1'	-5.91	1.46	1.53
85	AA	992	G	C5-C4	-5.91	1.34	1.38
85	AA	1129	A	N9-C4	-5.91	1.34	1.37
85	AA	1913	G	O3'-P	-5.91	1.54	1.61
85	AA	2071	U	C3'-C2'	-5.91	1.46	1.52
34	BA	112	C	C1'-N1	-5.91	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	181	G	C1'-N9	-5.91	1.38	1.46
34	BA	590	U	C3'-C2'	-5.91	1.46	1.52
34	BA	814	C	C1'-N1	-5.91	1.38	1.46
34	BA	1224	A	C5-C4	-5.91	1.34	1.38
35	BB	417	A	C2'-C1'	-5.91	1.46	1.53
35	BB	1415	G	N9-C4	-5.91	1.33	1.38
35	BB	1424	G	C4'-C3'	-5.91	1.46	1.52
38	BE	53	U	C4-C5	-5.91	1.38	1.43
38	BE	115	U	C2-N3	-5.91	1.33	1.37
40	BG	22	G	C3'-O3'	-5.91	1.33	1.42
85	AA	355	G	C1'-N9	-5.91	1.38	1.46
85	AA	679	A	N3-C4	-5.91	1.31	1.34
85	AA	774	C	C3'-C2'	-5.91	1.46	1.52
85	AA	802	A	O3'-P	-5.91	1.54	1.61
85	AA	1298	G	C6-N1	-5.91	1.35	1.39
85	AA	1528	A	N9-C8	-5.91	1.33	1.37
34	BA	444	A	C5-C4	-5.91	1.34	1.38
35	BB	473	U	O3'-P	-5.91	1.54	1.61
35	BB	833	G	C2-N2	-5.91	1.28	1.34
35	BB	1394	A	C5-C4	-5.91	1.34	1.38
37	BD	21	G	C6-N1	-5.91	1.35	1.39
39	BF	48	G	C8-N7	-5.91	1.27	1.30
40	BG	76	C	N3-C4	5.91	1.38	1.33
85	AA	477	U	C2'-C1'	-5.91	1.46	1.53
85	AA	622	G	N9-C8	-5.91	1.33	1.37
85	AA	945	A	C4'-C3'	-5.91	1.46	1.52
85	AA	1258	U	C2'-C1'	-5.91	1.46	1.53
85	AA	1844	A	C2'-C1'	-5.91	1.46	1.53
34	BA	1332	U	C1'-N1	-5.91	1.38	1.46
34	BA	1437	G	C2-N2	-5.91	1.28	1.34
35	BB	100	A	C3'-C2'	-5.91	1.46	1.52
35	BB	510	A	C6-N1	-5.91	1.31	1.35
35	BB	616	U	C3'-C2'	-5.91	1.46	1.52
85	AA	742	U	O3'-P	-5.91	1.54	1.61
85	AA	764	U	O3'-P	-5.91	1.54	1.61
85	AA	2130	G	C2-N2	-5.91	1.28	1.34
34	BA	121	A	C4'-O4'	-5.91	1.37	1.45
34	BA	473	A	C2'-C1'	-5.91	1.46	1.53
34	BA	479	U	C2-N3	-5.91	1.33	1.37
34	BA	540	G	O3'-P	-5.91	1.54	1.61
34	BA	707	C	C3'-C2'	-5.91	1.46	1.52
34	BA	900	A	O4'-C1'	-5.91	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1048	C	O3'-P	-5.91	1.54	1.61
34	BA	1548	A	C4'-C3'	-5.91	1.46	1.52
35	BB	426	A	C5-C4	-5.91	1.34	1.38
35	BB	518	G	C3'-C2'	-5.91	1.46	1.52
35	BB	691	A	O3'-P	-5.91	1.54	1.61
35	BB	853	U	P-O5'	-5.91	1.53	1.59
35	BB	1407	U	C4'-C3'	-5.91	1.46	1.52
37	BD	98	G	C1'-N9	-5.91	1.38	1.46
39	BF	62	U	C1'-N1	-5.91	1.38	1.46
85	AA	146	U	C2-N3	-5.91	1.33	1.37
85	AA	704	A	P-O5'	-5.91	1.53	1.59
85	AA	1511	C	N1-C6	-5.91	1.33	1.37
85	AA	1986	G	O3'-P	-5.91	1.54	1.61
34	BA	1193	A	C1'-N9	-5.90	1.38	1.46
34	BA	1418	G	C5-C6	-5.90	1.36	1.42
35	BB	790	A	N7-C5	-5.90	1.35	1.39
85	AA	168	A	C3'-C2'	-5.90	1.46	1.52
85	AA	424	A	C5-C4	-5.90	1.34	1.38
85	AA	696	G	N9-C4	-5.90	1.33	1.38
85	AA	2035	C	C4'-C3'	-5.90	1.46	1.52
34	BA	129	U	C2'-C1'	-5.90	1.46	1.53
34	BA	683	C	C3'-O3'	5.90	1.50	1.42
34	BA	1149	C	C3'-C2'	-5.90	1.46	1.52
34	BA	1190	A	N9-C4	-5.90	1.34	1.37
35	BB	488	G	N9-C8	-5.90	1.33	1.37
35	BB	1124	G	C5-C6	-5.90	1.36	1.42
38	BE	194	A	C6-N1	-5.90	1.31	1.35
40	BG	174	G	C4'-C3'	-5.90	1.46	1.52
85	AA	378	A	C5-C4	-5.90	1.34	1.38
85	AA	515	C	C4'-C3'	-5.90	1.46	1.52
85	AA	879	G	C4'-C3'	-5.90	1.46	1.52
34	BA	293	A	N9-C8	-5.90	1.33	1.37
34	BA	655	U	C3'-C2'	-5.90	1.46	1.52
34	BA	934	G	N3-C4	-5.90	1.31	1.35
34	BA	1287	G	N3-C4	-5.90	1.31	1.35
34	BA	1405	A	C4'-C3'	-5.90	1.46	1.52
34	BA	1452	U	O3'-P	-5.90	1.54	1.61
35	BB	1227	G	C4'-C3'	-5.90	1.46	1.52
35	BB	1353	G	C6-N1	-5.90	1.35	1.39
38	BE	140	G	N9-C8	-5.90	1.33	1.37
85	AA	55	A	C5-C4	-5.90	1.34	1.38
85	AA	103	U	N3-C4	-5.90	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	174	U	P-O5'	-5.90	1.53	1.59
85	AA	686	U	C2-N3	-5.90	1.33	1.37
85	AA	730	G	C2'-C1'	-5.90	1.46	1.53
85	AA	1000	U	C1'-N1	-5.90	1.38	1.46
85	AA	1671	G	C2'-C1'	-5.90	1.46	1.53
85	AA	1931	C	C5'-C4'	5.90	1.58	1.51
34	BA	187	G	N1-C2	-5.90	1.33	1.37
34	BA	848	U	O3'-P	-5.90	1.54	1.61
34	BA	888	G	C3'-C2'	-5.90	1.46	1.52
34	BA	1069	U	C2-N3	-5.90	1.33	1.37
34	BA	1412	G	P-O5'	-5.90	1.53	1.59
35	BB	29	C	O3'-P	-5.90	1.54	1.61
35	BB	693	U	N1-C2	-5.90	1.33	1.38
35	BB	1197	G	P-O5'	-5.90	1.53	1.59
40	BG	106	G	N3-C4	-5.90	1.31	1.35
85	AA	572	G	C2-N3	-5.90	1.28	1.32
85	AA	2200	A	C4'-C3'	-5.90	1.46	1.52
86	AB	7	A	O3'-P	-5.90	1.54	1.61
34	BA	42	A	C1'-N9	-5.90	1.38	1.46
35	BB	1003	G	O3'-P	-5.90	1.54	1.61
35	BB	1186	A	N9-C4	-5.90	1.34	1.37
35	BB	1281	G	N3-C4	-5.90	1.31	1.35
35	BB	1401	G	C5-C4	-5.90	1.34	1.38
36	BC	10	C	C1'-N1	-5.90	1.38	1.46
38	BE	160	C	C4'-C3'	-5.90	1.46	1.52
39	BF	8	C	P-O5'	-5.90	1.53	1.59
85	AA	113	U	O3'-P	-5.90	1.54	1.61
85	AA	403	G	O3'-P	-5.90	1.54	1.61
85	AA	1856	G	C1'-N9	-5.90	1.38	1.46
34	BA	419	U	C3'-C2'	-5.90	1.46	1.52
34	BA	484	A	N7-C5	-5.90	1.35	1.39
34	BA	487	A	C6-N6	-5.90	1.29	1.33
34	BA	755	G	O4'-C1'	-5.90	1.33	1.41
34	BA	849	G	C1'-N9	-5.90	1.38	1.46
34	BA	1126	U	P-O5'	-5.90	1.53	1.59
34	BA	1252	G	C3'-C2'	-5.90	1.46	1.52
34	BA	1590	G	C4'-C3'	-5.90	1.46	1.52
35	BB	895	U	N1-C2	5.90	1.43	1.38
85	AA	57	G	C2-N2	-5.90	1.28	1.34
85	AA	475	A	O4'-C1'	-5.90	1.33	1.41
85	AA	764	U	N3-C4	-5.90	1.33	1.38
85	AA	917	A	O3'-P	-5.90	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2000	C	O3'-P	-5.90	1.54	1.61
85	AA	2123	U	C4'-O4'	-5.90	1.37	1.45
85	AA	2130	G	C8-N7	-5.90	1.27	1.30
25	AR	51	ASP	N-CA	-5.89	1.34	1.46
34	BA	255	G	C2-N2	-5.89	1.28	1.34
34	BA	392	A	P-O5'	-5.89	1.53	1.59
34	BA	487	A	O3'-P	-5.89	1.54	1.61
34	BA	1049	G	C2-N2	-5.89	1.28	1.34
34	BA	1415	C	C2'-C1'	-5.89	1.46	1.53
35	BB	602	G	N7-C5	-5.89	1.35	1.39
35	BB	1133	C	N3-C4	-5.89	1.29	1.33
36	BC	147	G	C5-C6	-5.89	1.36	1.42
38	BE	11	A	N9-C4	-5.89	1.34	1.37
49	BP	93	ARG	N-CA	-5.89	1.34	1.46
85	AA	430	G	C6-N1	-5.89	1.35	1.39
85	AA	784	C	C3'-C2'	-5.89	1.46	1.52
85	AA	1099	U	N3-C4	-5.89	1.33	1.38
85	AA	1248	U	C2-N3	-5.89	1.33	1.37
85	AA	1306	U	O3'-P	-5.89	1.54	1.61
85	AA	1456	A	P-O5'	-5.89	1.53	1.59
85	AA	2157	G	C2-N2	-5.89	1.28	1.34
34	BA	851	C	C3'-C2'	-5.89	1.46	1.52
34	BA	854	A	C2'-C1'	-5.89	1.46	1.53
34	BA	1262	A	O3'-P	-5.89	1.54	1.61
34	BA	1516	G	N9-C8	-5.89	1.33	1.37
34	BA	1544	G	C1'-N9	-5.89	1.38	1.46
35	BB	615	A	C5-C4	-5.89	1.34	1.38
35	BB	1187	G	C2'-C1'	-5.89	1.46	1.53
35	BB	1537	C	O3'-P	-5.89	1.54	1.61
38	BE	41	C	C3'-C2'	-5.89	1.46	1.52
38	BE	59	U	N3-C4	-5.89	1.33	1.38
38	BE	160	C	C4-N4	-5.89	1.28	1.33
39	BF	10	A	P-O5'	-5.89	1.53	1.59
85	AA	708	G	C5-C4	-5.89	1.34	1.38
85	AA	918	U	N3-C4	-5.89	1.33	1.38
34	BA	420	A	C2'-C1'	-5.89	1.46	1.53
34	BA	490	A	N9-C8	-5.89	1.33	1.37
34	BA	1424	G	N3-C4	-5.89	1.31	1.35
34	BA	1803	A	C8-N7	-5.89	1.27	1.31
35	BB	123	U	C2-N3	-5.89	1.33	1.37
35	BB	818	U	O3'-P	-5.89	1.54	1.61
85	AA	248	U	C2'-C1'	-5.89	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	588	G	N9-C4	-5.89	1.33	1.38
85	AA	621	U	C2-N3	-5.89	1.33	1.37
85	AA	2127	G	C8-N7	-5.89	1.27	1.30
34	BA	112	C	N1-C6	-5.89	1.33	1.37
34	BA	331	G	C2'-C1'	-5.89	1.46	1.53
34	BA	699	G	C3'-C2'	-5.89	1.46	1.52
34	BA	1505	G	C2'-C1'	-5.89	1.46	1.53
34	BA	1590	G	N9-C4	-5.89	1.33	1.38
35	BB	104	G	P-O5'	-5.89	1.53	1.59
35	BB	465	C	C1'-N1	-5.89	1.38	1.46
35	BB	693	U	C2-N3	-5.89	1.33	1.37
35	BB	1197	G	O3'-P	-5.89	1.54	1.61
35	BB	1226	G	C2-N3	-5.89	1.28	1.32
35	BB	1259	A	O3'-P	-5.89	1.54	1.61
35	BB	1477	C	O3'-P	-5.89	1.54	1.61
35	BB	1511	U	O4'-C1'	-5.89	1.33	1.41
38	BE	210	G	P-O5'	-5.89	1.53	1.59
85	AA	324	U	O3'-P	-5.89	1.54	1.61
85	AA	879	G	N7-C5	-5.89	1.35	1.39
85	AA	1274	A	N3-C4	-5.89	1.31	1.34
85	AA	1698	A	C5-C4	-5.89	1.34	1.38
85	AA	1912	U	O3'-P	-5.89	1.54	1.61
34	BA	272	A	N3-C4	-5.89	1.31	1.34
34	BA	878	G	O3'-P	-5.89	1.54	1.61
34	BA	1245	C	C1'-N1	-5.89	1.38	1.46
34	BA	1741	G	C6-N1	-5.89	1.35	1.39
35	BB	1386	C	C2-N3	-5.89	1.31	1.35
35	BB	1430	G	N9-C4	-5.89	1.33	1.38
38	BE	91	G	C3'-C2'	-5.89	1.46	1.52
40	BG	156	G	C1'-N9	-5.89	1.38	1.46
85	AA	665	A	O3'-P	-5.89	1.54	1.61
85	AA	863	C	C2-N3	-5.89	1.31	1.35
34	BA	220	U	N3-C4	-5.89	1.33	1.38
34	BA	429	G	N9-C8	-5.89	1.33	1.37
34	BA	682	A	P-O5'	-5.89	1.53	1.59
34	BA	711	C	C2'-C1'	-5.89	1.46	1.53
34	BA	1331	G	C5-C4	-5.89	1.34	1.38
35	BB	269	A	C2'-C1'	-5.89	1.46	1.53
35	BB	1039	A	O3'-P	-5.89	1.54	1.61
36	BC	73	U	P-O5'	-5.89	1.53	1.59
36	BC	128	U	N3-C4	-5.89	1.33	1.38
38	BE	5	A	C5-C4	-5.89	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	BF	44	C	C4'-C3'	-5.89	1.46	1.52
40	BG	137	G	C3'-C2'	-5.89	1.46	1.52
85	AA	111	A	N7-C5	-5.89	1.35	1.39
85	AA	133	G	C2-N2	-5.89	1.28	1.34
85	AA	404	A	C1'-N9	-5.89	1.38	1.46
85	AA	747	U	P-O5'	-5.89	1.53	1.59
85	AA	1136	A	C8-N7	-5.89	1.27	1.31
85	AA	1734	A	N9-C4	5.89	1.41	1.37
85	AA	1978	G	C2-N2	-5.89	1.28	1.34
85	AA	2028	G	O3'-P	-5.89	1.54	1.61
34	BA	432	A	C8-N7	-5.88	1.27	1.31
34	BA	573	U	C2'-C1'	-5.88	1.46	1.53
34	BA	684	G	C6-N1	-5.88	1.35	1.39
34	BA	1457	C	O3'-P	-5.88	1.54	1.61
35	BB	695	U	C2-N3	-5.88	1.33	1.37
35	BB	1094	A	N9-C4	-5.88	1.34	1.37
35	BB	1268	C	O3'-P	-5.88	1.54	1.61
85	AA	159	G	N9-C8	-5.88	1.33	1.37
85	AA	258	G	N9-C4	-5.88	1.33	1.38
85	AA	318	A	C4'-O4'	-5.88	1.38	1.45
85	AA	678	A	N7-C5	-5.88	1.35	1.39
34	BA	713	C	C2-N3	-5.88	1.31	1.35
34	BA	896	U	O3'-P	-5.88	1.54	1.61
35	BB	1169	A	O3'-P	-5.88	1.54	1.61
85	AA	693	A	N3-C4	-5.88	1.31	1.34
85	AA	2031	C	C4'-C3'	-5.88	1.46	1.52
85	AA	2178	A	O3'-P	-5.88	1.54	1.61
34	BA	168	U	C3'-C2'	-5.88	1.46	1.52
34	BA	187	G	C1'-N9	-5.88	1.38	1.46
34	BA	759	A	C8-N7	-5.88	1.27	1.31
34	BA	860	G	N9-C8	-5.88	1.33	1.37
34	BA	1200	U	C2'-C1'	-5.88	1.46	1.53
35	BB	60	A	C5-C4	-5.88	1.34	1.38
35	BB	657	A	C6-N1	-5.88	1.31	1.35
35	BB	697	G	N1-C2	-5.88	1.33	1.37
35	BB	1086	G	N1-C2	-5.88	1.33	1.37
36	BC	18	G	C3'-C2'	-5.88	1.46	1.52
36	BC	86	U	C4'-C3'	5.88	1.59	1.53
39	BF	38	C	C2-N3	-5.88	1.31	1.35
39	BF	65	U	C4'-O4'	-5.88	1.38	1.45
85	AA	111	A	C6-N1	-5.88	1.31	1.35
85	AA	940	G	C8-N7	-5.88	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	608	G	P-O5'	5.88	1.65	1.59
34	BA	1288	U	O3'-P	-5.88	1.54	1.61
34	BA	1403	G	C1'-N9	-5.88	1.38	1.46
35	BB	679	G	N1-C2	-5.88	1.33	1.37
34	BA	242	U	C3'-C2'	-5.88	1.46	1.52
34	BA	841	G	C6-N1	-5.88	1.35	1.39
34	BA	1030	C	P-O5'	-5.88	1.53	1.59
34	BA	1285	G	N7-C5	-5.88	1.35	1.39
34	BA	1347	G	C2-N2	-5.88	1.28	1.34
34	BA	1605	G	C4'-C3'	-5.88	1.46	1.52
34	BA	1816	G	N9-C4	-5.88	1.33	1.38
35	BB	1299	G	C2-N2	-5.88	1.28	1.34
36	BC	11	G	N1-C2	-5.88	1.33	1.37
37	BD	99	G	C2-N2	-5.88	1.28	1.34
38	BE	199	A	O3'-P	-5.88	1.54	1.61
40	BG	131	U	C1'-N1	-5.88	1.38	1.46
41	BH	134	U	C4'-C3'	-5.88	1.46	1.52
85	AA	336	C	C2'-C1'	-5.88	1.46	1.53
85	AA	656	U	O3'-P	-5.88	1.54	1.61
85	AA	1257	A	C3'-C2'	-5.88	1.46	1.52
85	AA	2126	U	C4'-O4'	-5.88	1.38	1.45
34	BA	745	A	C6-N1	-5.88	1.31	1.35
34	BA	1345	U	O3'-P	-5.88	1.54	1.61
35	BB	468	U	C3'-C2'	-5.88	1.46	1.52
35	BB	613	C	C3'-C2'	-5.88	1.46	1.52
38	BE	15	A	C3'-C2'	-5.88	1.46	1.52
40	BG	115	C	C2-N3	-5.88	1.31	1.35
41	BH	13	C	N1-C2	-5.88	1.34	1.40
85	AA	395	G	C5-C6	-5.88	1.36	1.42
85	AA	816	A	O3'-P	-5.88	1.54	1.61
85	AA	1268	C	C3'-C2'	-5.88	1.46	1.52
85	AA	1938	G	C2'-C1'	-5.88	1.46	1.53
85	AA	2145	G	N7-C5	-5.88	1.35	1.39
34	BA	280	A	C8-N7	-5.88	1.27	1.31
34	BA	1025	A	N9-C8	-5.88	1.33	1.37
35	BB	527	U	O3'-P	-5.88	1.54	1.61
35	BB	1459	U	C2-N3	-5.88	1.33	1.37
40	BG	168	A	C5-C4	-5.88	1.34	1.38
41	BH	45	G	C8-N7	-5.88	1.27	1.30
85	AA	358	U	O3'-P	-5.88	1.54	1.61
85	AA	463	G	N9-C8	-5.88	1.33	1.37
34	BA	351	A	C6-N6	-5.87	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1311	G	C5-C4	-5.87	1.34	1.38
34	BA	1379	G	N3-C4	-5.87	1.31	1.35
34	BA	1716	A	N3-C4	-5.87	1.31	1.34
35	BB	135	C	C1'-N1	-5.87	1.38	1.46
35	BB	544	C	C3'-C2'	-5.87	1.46	1.52
35	BB	1250	A	C5-C4	-5.87	1.34	1.38
37	BD	54	A	C8-N7	-5.87	1.27	1.31
38	BE	148	C	C3'-C2'	-5.87	1.46	1.52
85	AA	464	A	O3'-P	-5.87	1.54	1.61
85	AA	607	U	C2'-C1'	-5.87	1.46	1.53
85	AA	669	G	C6-N1	-5.87	1.35	1.39
85	AA	1921	G	C3'-C2'	-5.87	1.46	1.52
85	AA	2230	U	C3'-O3'	5.87	1.50	1.42
34	BA	588	C	O3'-P	-5.87	1.54	1.61
34	BA	1555	G	C4'-C3'	-5.87	1.46	1.52
35	BB	41	A	P-O5'	-5.87	1.53	1.59
35	BB	44	C	C2'-C1'	-5.87	1.46	1.53
35	BB	94	A	N9-C8	-5.87	1.33	1.37
35	BB	127	U	N1-C6	-5.87	1.32	1.38
35	BB	822	G	C2-N3	5.87	1.37	1.32
35	BB	1353	G	O3'-P	-5.87	1.54	1.61
40	BG	14	G	C2-N2	-5.87	1.28	1.34
85	AA	72	C	C2'-C1'	-5.87	1.46	1.53
85	AA	586	G	O3'-P	-5.87	1.54	1.61
85	AA	705	G	C2'-C1'	-5.87	1.46	1.53
85	AA	1162	A	C1'-N9	-5.87	1.38	1.46
85	AA	1480	C	C1'-N1	-5.87	1.38	1.46
34	BA	410	G	N9-C4	-5.87	1.33	1.38
34	BA	884	G	O3'-P	-5.87	1.54	1.61
34	BA	1160	U	N1-C2	-5.87	1.33	1.38
34	BA	1272	U	C4'-C3'	-5.87	1.46	1.52
34	BA	1490	U	C1'-N1	-5.87	1.38	1.46
34	BA	1567	G	C6-N1	-5.87	1.35	1.39
35	BB	87	G	N3-C4	-5.87	1.31	1.35
35	BB	386	G	C2'-C1'	-5.87	1.46	1.53
38	BE	28	C	C4'-C3'	-5.87	1.46	1.52
85	AA	400	G	C4'-O4'	-5.87	1.38	1.45
85	AA	442	G	C8-N7	-5.87	1.27	1.30
85	AA	1447	U	C2-N3	-5.87	1.33	1.37
34	BA	3	G	N7-C5	-5.87	1.35	1.39
34	BA	27	G	N7-C5	-5.87	1.35	1.39
34	BA	177	G	N9-C4	-5.87	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	242	U	C2'-C1'	-5.87	1.46	1.53
34	BA	348	U	N3-C4	-5.87	1.33	1.38
34	BA	686	U	C2'-C1'	-5.87	1.46	1.53
34	BA	1093	G	N7-C5	-5.87	1.35	1.39
35	BB	6	A	O3'-P	-5.87	1.54	1.61
35	BB	435	A	C2'-C1'	-5.87	1.46	1.53
35	BB	443	A	P-O5'	-5.87	1.53	1.59
35	BB	659	C	O4'-C1'	-5.87	1.34	1.41
35	BB	801	G	C2'-C1'	-5.87	1.46	1.53
35	BB	1169	A	C2'-C1'	-5.87	1.46	1.53
35	BB	1422	G	C2-N3	-5.87	1.28	1.32
35	BB	1445	A	C6-N1	-5.87	1.31	1.35
41	BH	37	U	N1-C2	-5.87	1.33	1.38
85	AA	12	U	C4'-C3'	-5.87	1.46	1.52
85	AA	242	G	N9-C4	-5.87	1.33	1.38
85	AA	1120	G	O3'-P	-5.87	1.54	1.61
34	BA	295	G	N9-C8	-5.87	1.33	1.37
34	BA	1781	A	N7-C5	-5.87	1.35	1.39
35	BB	1180	G	C3'-C2'	-5.87	1.46	1.52
35	BB	1396	G	C6-N1	-5.87	1.35	1.39
40	BG	161	C	O4'-C1'	-5.87	1.34	1.41
41	BH	104	U	O4'-C1'	-5.87	1.34	1.41
85	AA	375	C	O3'-P	-5.87	1.54	1.61
85	AA	1885	A	N7-C5	-5.87	1.35	1.39
34	BA	168	U	C2'-C1'	-5.87	1.46	1.53
34	BA	421	G	C6-N1	-5.87	1.35	1.39
34	BA	764	G	C4'-C3'	5.87	1.59	1.53
34	BA	961	C	C4'-C3'	-5.87	1.46	1.52
34	BA	1807	G	C5-C6	-5.87	1.36	1.42
35	BB	651	G	O3'-P	-5.87	1.54	1.61
35	BB	1263	A	C1'-N9	-5.87	1.38	1.46
35	BB	1359	G	C5-C6	-5.87	1.36	1.42
35	BB	1381	U	P-O5'	-5.87	1.53	1.59
36	BC	91	G	C5-C4	-5.87	1.34	1.38
36	BC	154	A	N9-C4	-5.87	1.34	1.37
37	BD	9	C	P-O5'	-5.87	1.53	1.59
40	BG	175	G	N7-C5	-5.87	1.35	1.39
41	BH	20	A	C5'-C4'	-5.87	1.44	1.51
48	BO	208	MET	C-N	-5.87	1.23	1.34
85	AA	105	A	N7-C5	-5.87	1.35	1.39
85	AA	430	G	N9-C4	-5.87	1.33	1.38
85	AA	571	G	C5'-C4'	5.87	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	582	A	C3'-C2'	-5.87	1.46	1.52
85	AA	1274	A	P-O5'	-5.87	1.53	1.59
85	AA	1914	U	P-O5'	-5.87	1.53	1.59
85	AA	2020	C	C5'-C4'	-5.87	1.44	1.51
85	AA	2195	A	P-O5'	-5.87	1.53	1.59
34	BA	401	A	N9-C8	-5.86	1.33	1.37
34	BA	526	C	C1'-N1	-5.86	1.38	1.46
34	BA	614	A	N9-C4	-5.86	1.34	1.37
34	BA	621	G	C6-N1	-5.86	1.35	1.39
34	BA	722	A	C8-N7	-5.86	1.27	1.31
34	BA	1195	G	C5-C4	-5.86	1.34	1.38
34	BA	1638	U	P-O5'	-5.86	1.53	1.59
34	BA	1638	U	N3-C4	-5.86	1.33	1.38
35	BB	24	C	P-O5'	-5.86	1.53	1.59
35	BB	56	U	C3'-C2'	-5.86	1.46	1.52
35	BB	1087	A	N3-C4	-5.86	1.31	1.34
35	BB	1119	G	N9-C4	-5.86	1.33	1.38
35	BB	1299	G	N7-C5	-5.86	1.35	1.39
38	BE	47	U	C3'-C2'	-5.86	1.46	1.52
38	BE	98	C	C3'-C2'	-5.86	1.46	1.52
40	BG	27	C	C2-N3	-5.86	1.31	1.35
85	AA	339	A	C3'-C2'	-5.86	1.46	1.52
85	AA	794	A	P-O5'	-5.86	1.53	1.59
85	AA	1247	A	C1'-N9	-5.86	1.38	1.46
34	BA	81	C	C2-N3	-5.86	1.31	1.35
34	BA	906	A	O4'-C1'	-5.86	1.34	1.41
34	BA	1276	G	C3'-C2'	-5.86	1.46	1.52
34	BA	1440	C	N1-C6	-5.86	1.33	1.37
35	BB	1367	U	N3-C4	-5.86	1.33	1.38
40	BG	88	G	C5-C4	-5.86	1.34	1.38
85	AA	462	A	P-O5'	-5.86	1.53	1.59
85	AA	2067	A	P-O5'	-5.86	1.53	1.59
34	BA	816	G	N1-C2	-5.86	1.33	1.37
34	BA	1466	U	C4'-C3'	-5.86	1.46	1.52
35	BB	546	A	C2'-C1'	-5.86	1.47	1.53
35	BB	833	G	P-O5'	-5.86	1.53	1.59
35	BB	1165	A	C3'-C2'	-5.86	1.46	1.52
35	BB	1467	A	C8-N7	-5.86	1.27	1.31
38	BE	88	G	N7-C5	-5.86	1.35	1.39
38	BE	188	C	C2'-C1'	-5.86	1.47	1.53
85	AA	447	C	N3-C4	-5.86	1.29	1.33
85	AA	823	C	C3'-C2'	-5.86	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	67	A	N9-C8	-5.86	1.33	1.37
34	BA	209	A	C5-C4	-5.86	1.34	1.38
34	BA	795	G	C2'-C1'	-5.86	1.47	1.53
37	BD	65	G	N9-C8	-5.86	1.33	1.37
34	BA	362	G	C2'-C1'	-5.86	1.47	1.53
34	BA	574	U	C1'-N1	5.86	1.57	1.48
34	BA	585	G	C8-N7	-5.86	1.27	1.30
34	BA	751	A	C5-C4	-5.86	1.34	1.38
34	BA	975	A	C1'-N9	-5.86	1.38	1.46
34	BA	1475	G	C6-N1	-5.86	1.35	1.39
34	BA	1590	G	C2'-C1'	-5.86	1.47	1.53
35	BB	425	G	C5-C4	-5.86	1.34	1.38
35	BB	462	G	O3'-P	-5.86	1.54	1.61
35	BB	731	U	O3'-P	-5.86	1.54	1.61
35	BB	1450	G	C5-C4	-5.86	1.34	1.38
35	BB	1494	G	C6-N1	-5.86	1.35	1.39
36	BC	4	G	P-O5'	-5.86	1.53	1.59
36	BC	30	U	C4'-O4'	-5.86	1.38	1.45
38	BE	105	A	N7-C5	-5.86	1.35	1.39
39	BF	51	C	C4'-C3'	5.86	1.59	1.53
41	BH	63	G	N9-C4	5.86	1.42	1.38
85	AA	9	U	C3'-C2'	-5.86	1.46	1.52
85	AA	322	A	C5-C4	-5.86	1.34	1.38
85	AA	1978	G	C5-C4	-5.86	1.34	1.38
34	BA	148	G	N9-C8	-5.86	1.33	1.37
34	BA	389	U	N3-C4	-5.86	1.33	1.38
34	BA	540	G	C3'-C2'	-5.86	1.46	1.52
34	BA	874	G	C2-N3	5.86	1.37	1.32
34	BA	1311	G	N1-C2	-5.86	1.33	1.37
34	BA	1532	G	C2-N2	-5.86	1.28	1.34
34	BA	1653	G	C2-N2	-5.86	1.28	1.34
34	BA	1678	U	C2'-C1'	-5.86	1.47	1.53
35	BB	998	G	C3'-C2'	-5.86	1.46	1.52
35	BB	1281	G	C1'-N9	-5.86	1.38	1.46
35	BB	1347	C	C4'-C3'	-5.86	1.46	1.52
35	BB	1363	A	C1'-N9	-5.86	1.38	1.46
35	BB	1424	G	C2'-C1'	-5.86	1.47	1.53
41	BH	10	U	P-O5'	-5.86	1.53	1.59
85	AA	282	C	P-O5'	-5.86	1.53	1.59
85	AA	522	A	O3'-P	-5.86	1.54	1.61
85	AA	588	G	O4'-C1'	-5.86	1.34	1.41
85	AA	775	C	C2'-C1'	-5.86	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	817	G	C6-N1	-5.86	1.35	1.39
85	AA	1541	G	C5'-C4'	-5.86	1.44	1.51
34	BA	95	C	O4'-C1'	-5.85	1.34	1.41
34	BA	570	G	P-O5'	-5.85	1.53	1.59
34	BA	988	U	C3'-C2'	-5.85	1.46	1.52
35	BB	467	G	C1'-N9	-5.85	1.38	1.46
37	BD	73	U	C1'-N1	-5.85	1.38	1.46
41	BH	35	G	C2'-C1'	-5.85	1.47	1.53
85	AA	1833	C	O3'-P	-5.85	1.54	1.61
86	AB	63	G	N9-C4	-5.85	1.33	1.38
34	BA	349	G	C2-N2	-5.85	1.28	1.34
34	BA	491	U	C1'-N1	-5.85	1.38	1.46
34	BA	496	G	C3'-C2'	-5.85	1.46	1.52
34	BA	754	G	N3-C4	-5.85	1.31	1.35
34	BA	859	G	O3'-P	-5.85	1.54	1.61
34	BA	906	A	C6-N1	-5.85	1.31	1.35
34	BA	1131	G	C2'-C1'	-5.85	1.47	1.53
34	BA	1435	A	C4'-O4'	-5.85	1.38	1.45
34	BA	1454	G	C2-N3	-5.85	1.28	1.32
34	BA	1539	A	C2'-C1'	-5.85	1.47	1.53
34	BA	1572	G	C2-N2	-5.85	1.28	1.34
35	BB	58	G	N9-C8	-5.85	1.33	1.37
35	BB	130	G	N1-C2	-5.85	1.33	1.37
35	BB	658	G	N9-C8	-5.85	1.33	1.37
35	BB	1103	A	C6-N1	-5.85	1.31	1.35
35	BB	1425	A	C1'-N9	-5.85	1.38	1.46
36	BC	163	A	N7-C5	-5.85	1.35	1.39
37	BD	16	U	C1'-N1	-5.85	1.38	1.46
38	BE	89	G	P-O5'	-5.85	1.53	1.59
38	BE	111	C	N1-C2	-5.85	1.34	1.40
39	BF	3	A	C2'-C1'	-5.85	1.47	1.53
85	AA	631	G	P-O5'	-5.85	1.53	1.59
85	AA	696	G	C2-N2	-5.85	1.28	1.34
85	AA	1221	G	N1-C2	-5.85	1.33	1.37
34	BA	327	G	C4'-C3'	-5.85	1.46	1.52
34	BA	1652	G	C2-N2	-5.85	1.28	1.34
34	BA	1833	G	P-O5'	-5.85	1.53	1.59
35	BB	634	A	C5'-C4'	-5.85	1.44	1.51
36	BC	90	U	C2-N3	-5.85	1.33	1.37
85	AA	31	C	C1'-N1	-5.85	1.38	1.46
85	AA	1509	A	N9-C4	-5.85	1.34	1.37
34	BA	900	A	P-O5'	-5.85	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1033	G	N7-C5	-5.85	1.35	1.39
34	BA	1496	G	C6-N1	-5.85	1.35	1.39
35	BB	361	A	N9-C4	-5.85	1.34	1.37
35	BB	644	A	C1'-N9	-5.85	1.38	1.46
35	BB	1081	U	C3'-C2'	-5.85	1.46	1.52
35	BB	1335	G	C6-N1	-5.85	1.35	1.39
35	BB	1478	G	P-O5'	-5.85	1.53	1.59
36	BC	109	A	N7-C5	-5.85	1.35	1.39
37	BD	107	G	C3'-C2'	-5.85	1.46	1.52
40	BG	71	C	C3'-C2'	-5.85	1.46	1.52
85	AA	102	A	C5-C4	-5.85	1.34	1.38
85	AA	388	G	N9-C4	-5.85	1.33	1.38
85	AA	403	G	C5-C4	-5.85	1.34	1.38
85	AA	740	A	P-O5'	-5.85	1.53	1.59
85	AA	757	A	C3'-C2'	-5.85	1.46	1.52
85	AA	960	G	N3-C4	-5.85	1.31	1.35
85	AA	992	G	C4'-C3'	-5.85	1.46	1.52
85	AA	1237	A	C4'-C3'	-5.85	1.46	1.52
85	AA	1786	G	C2'-C1'	-5.85	1.47	1.53
85	AA	1825	A	P-O5'	-5.85	1.53	1.59
85	AA	2103	C	C2'-C1'	-5.85	1.47	1.53
85	AA	2201	A	C3'-C2'	-5.85	1.46	1.52
34	BA	346	A	N3-C4	-5.85	1.31	1.34
34	BA	661	C	C2-N3	-5.85	1.31	1.35
34	BA	832	C	O3'-P	-5.85	1.54	1.61
34	BA	1220	C	C4-N4	-5.85	1.28	1.33
34	BA	1648	G	C3'-C2'	-5.85	1.46	1.52
35	BB	654	C	C2'-C1'	-5.85	1.47	1.53
35	BB	1328	C	C5'-C4'	5.85	1.58	1.51
35	BB	1469	A	C5-C4	-5.85	1.34	1.38
36	BC	155	C	C3'-C2'	-5.85	1.46	1.52
36	BC	167	U	P-O5'	-5.85	1.53	1.59
37	BD	88	U	C2'-C1'	-5.85	1.47	1.53
39	BF	25	G	C5-C4	-5.85	1.34	1.38
40	BG	97	G	C2-N2	-5.85	1.28	1.34
85	AA	363	A	C4'-O4'	-5.85	1.38	1.45
85	AA	1784	G	O3'-P	-5.85	1.54	1.61
34	BA	346	A	P-O5'	-5.85	1.53	1.59
34	BA	969	A	O4'-C1'	-5.85	1.34	1.41
35	BB	126	C	C2'-C1'	-5.85	1.47	1.53
35	BB	317	C	P-O5'	-5.85	1.53	1.59
35	BB	1547	U	C2'-C1'	-5.85	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	506	G	C5-C6	-5.85	1.36	1.42
85	AA	526	G	C3'-C2'	-5.85	1.46	1.52
85	AA	1170	C	C2-N3	-5.85	1.31	1.35
34	BA	444	A	C1'-N9	-5.84	1.38	1.46
34	BA	830	U	P-O5'	-5.84	1.53	1.59
34	BA	911	G	O3'-P	-5.84	1.54	1.61
34	BA	918	U	O3'-P	-5.84	1.54	1.61
35	BB	38	C	C2-N3	-5.84	1.31	1.35
35	BB	502	C	C3'-C2'	-5.84	1.46	1.52
35	BB	537	A	O3'-P	-5.84	1.54	1.61
35	BB	700	C	N1-C6	-5.84	1.33	1.37
35	BB	828	G	C6-N1	-5.84	1.35	1.39
35	BB	1406	C	N3-C4	-5.84	1.29	1.33
36	BC	105	C	O3'-P	-5.84	1.54	1.61
38	BE	89	G	O3'-P	-5.84	1.54	1.61
41	BH	121	A	C6-N1	-5.84	1.31	1.35
59	BZ	40	TYR	CB-CG	-5.84	1.42	1.51
85	AA	78	A	O3'-P	-5.84	1.54	1.61
85	AA	272	C	P-O5'	-5.84	1.53	1.59
85	AA	502	A	O3'-P	-5.84	1.54	1.61
85	AA	768	C	C3'-C2'	-5.84	1.46	1.52
85	AA	789	A	P-O5'	5.84	1.65	1.59
85	AA	1850	G	O3'-P	-5.84	1.54	1.61
85	AA	1896	G	P-O5'	-5.84	1.53	1.59
85	AA	2119	C	N1-C2	5.84	1.46	1.40
34	BA	1698	C	C2'-C1'	-5.84	1.47	1.53
35	BB	545	C	P-O5'	-5.84	1.53	1.59
35	BB	568	A	P-O5'	-5.84	1.53	1.59
36	BC	94	C	C3'-C2'	-5.84	1.46	1.52
36	BC	108	A	O3'-P	-5.84	1.54	1.61
41	BH	4	U	N1-C2	-5.84	1.33	1.38
85	AA	1350	A	O3'-P	-5.84	1.54	1.61
85	AA	1907	U	P-O5'	-5.84	1.53	1.59
34	BA	339	G	N3-C4	-5.84	1.31	1.35
34	BA	1509	U	O3'-P	-5.84	1.54	1.61
34	BA	1714	A	C2'-C1'	-5.84	1.47	1.53
35	BB	704	G	C5'-C4'	-5.84	1.44	1.51
35	BB	806	U	C1'-N1	-5.84	1.38	1.46
35	BB	1484	A	C2'-C1'	-5.84	1.47	1.53
39	BF	25	G	N9-C4	-5.84	1.33	1.38
85	AA	146	U	C2'-C1'	-5.84	1.47	1.53
85	AA	590	U	P-O5'	-5.84	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1220	A	C6-N1	-5.84	1.31	1.35
34	BA	12	G	C8-N7	-5.84	1.27	1.30
34	BA	1723	U	C1'-N1	5.84	1.57	1.48
35	BB	1507	U	C2-N3	-5.84	1.33	1.37
85	AA	420	C	C2'-C1'	-5.84	1.47	1.53
85	AA	910	G	C3'-C2'	-5.84	1.46	1.52
34	BA	506	U	C4'-C3'	-5.84	1.46	1.52
34	BA	907	A	C3'-C2'	-5.84	1.46	1.52
34	BA	1381	A	C2'-C1'	-5.84	1.47	1.53
35	BB	25	A	C5-C4	-5.84	1.34	1.38
35	BB	780	U	C2-N3	-5.84	1.33	1.37
35	BB	1222	A	C2'-C1'	-5.84	1.47	1.53
85	AA	10	G	P-O5'	-5.84	1.53	1.59
85	AA	484	G	C1'-N9	-5.84	1.38	1.46
85	AA	695	A	C2'-C1'	-5.84	1.47	1.53
34	BA	340	U	N3-C4	-5.84	1.33	1.38
34	BA	454	G	C6-N1	-5.84	1.35	1.39
34	BA	472	G	N3-C4	-5.84	1.31	1.35
34	BA	853	A	O4'-C1'	-5.84	1.34	1.41
34	BA	1510	C	N3-C4	-5.84	1.29	1.33
35	BB	486	G	C1'-N9	-5.84	1.38	1.46
35	BB	1156	U	C3'-C2'	-5.84	1.46	1.52
35	BB	1226	G	P-O5'	-5.84	1.53	1.59
37	BD	59	G	C6-N1	-5.84	1.35	1.39
38	BE	139	U	C1'-N1	-5.84	1.38	1.46
40	BG	155	A	C2'-C1'	-5.84	1.47	1.53
85	AA	211	C	C1'-N1	-5.84	1.38	1.46
85	AA	663	C	P-O5'	-5.84	1.53	1.59
85	AA	1215	A	C5'-C4'	-5.84	1.44	1.51
85	AA	1450	U	C4'-C3'	-5.84	1.46	1.52
85	AA	1792	C	C2'-C1'	-5.84	1.47	1.53
85	AA	1925	A	P-O5'	-5.84	1.53	1.59
85	AA	1961	U	C3'-C2'	-5.84	1.46	1.52
85	AA	1974	C	N1-C6	5.84	1.40	1.37
85	AA	2207	A	P-O5'	-5.84	1.53	1.59
86	AB	10	G	C2'-C1'	-5.84	1.47	1.53
34	BA	569	C	C2'-C1'	-5.83	1.47	1.53
34	BA	1798	G	N9-C8	-5.83	1.33	1.37
35	BB	119	G	C2'-C1'	-5.83	1.47	1.53
35	BB	538	A	O3'-P	-5.83	1.54	1.61
35	BB	1500	U	N1-C2	-5.83	1.33	1.38
85	AA	1492	U	C2-N3	-5.83	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1992	A	N9-C4	-5.83	1.34	1.37
34	BA	1033	G	C5-C4	-5.83	1.34	1.38
34	BA	1150	A	C6-N1	-5.83	1.31	1.35
34	BA	1403	G	C2'-C1'	-5.83	1.47	1.53
34	BA	1718	C	C4'-O4'	-5.83	1.38	1.45
34	BA	1781	A	P-O5'	-5.83	1.53	1.59
34	BA	1800	G	C8-N7	-5.83	1.27	1.30
35	BB	1306	G	N9-C4	-5.83	1.33	1.38
35	BB	1466	A	P-O5'	-5.83	1.53	1.59
36	BC	123	G	C5-C4	-5.83	1.34	1.38
37	BD	35	C	O3'-P	-5.83	1.54	1.61
85	AA	545	A	N3-C4	-5.83	1.31	1.34
85	AA	555	C	C2-N3	-5.83	1.31	1.35
85	AA	665	A	C6-N1	-5.83	1.31	1.35
85	AA	2120	C	C2'-C1'	-5.83	1.47	1.53
85	AA	2127	G	C2-N2	-5.83	1.28	1.34
34	BA	66	C	C2'-C1'	-5.83	1.47	1.53
34	BA	115	U	N3-C4	-5.83	1.33	1.38
34	BA	248	G	C8-N7	-5.83	1.27	1.30
34	BA	604	G	C2'-C1'	-5.83	1.47	1.53
34	BA	1223	C	C2'-O2'	-5.83	1.34	1.41
34	BA	1411	C	C4'-C3'	-5.83	1.46	1.52
35	BB	372	U	C1'-N1	-5.83	1.38	1.46
35	BB	639	A	N7-C5	-5.83	1.35	1.39
37	BD	12	U	C1'-N1	-5.83	1.38	1.46
38	BE	92	C	C2-N3	-5.83	1.31	1.35
38	BE	164	C	O3'-P	-5.83	1.54	1.61
40	BG	35	G	N9-C4	-5.83	1.33	1.38
85	AA	1276	A	N9-C4	-5.83	1.34	1.37
85	AA	1510	A	O3'-P	-5.83	1.54	1.61
34	BA	721	A	N9-C4	-5.83	1.34	1.37
35	BB	73	G	N1-C2	-5.83	1.33	1.37
35	BB	788	U	O4'-C1'	-5.83	1.34	1.41
85	AA	1167	G	C1'-N9	-5.83	1.38	1.46
34	BA	626	G	N9-C4	5.83	1.42	1.38
34	BA	825	G	N9-C4	-5.83	1.33	1.38
34	BA	882	G	C6-N1	5.83	1.43	1.39
34	BA	1148	U	C5'-C4'	-5.83	1.44	1.51
34	BA	1671	A	C1'-N9	-5.83	1.38	1.46
35	BB	785	G	N1-C2	-5.83	1.33	1.37
35	BB	1036	G	C2'-C1'	-5.83	1.47	1.53
37	BD	50	A	C2'-C1'	-5.83	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	204	U	C4'-C3'	-5.83	1.46	1.52
74	Bo	78	THR	CA-C	-5.83	1.37	1.52
85	AA	928	U	N1-C6	-5.83	1.32	1.38
34	BA	367	G	C3'-O3'	5.83	1.50	1.42
35	BB	396	C	C2'-C1'	-5.83	1.47	1.53
38	BE	168	C	O3'-P	-5.83	1.54	1.61
85	AA	710	A	N9-C4	-5.83	1.34	1.37
85	AA	944	C	C2'-C1'	-5.83	1.47	1.53
85	AA	1182	A	C1'-N9	-5.83	1.38	1.46
85	AA	1531	G	N7-C5	-5.83	1.35	1.39
34	BA	201	A	C4'-C3'	-5.83	1.46	1.52
34	BA	203	U	N3-C4	-5.83	1.33	1.38
34	BA	416	A	C1'-N9	-5.83	1.38	1.46
34	BA	1019	C	P-O5'	-5.83	1.53	1.59
34	BA	1555	G	C6-N1	-5.83	1.35	1.39
34	BA	1610	A	C5'-C4'	-5.83	1.44	1.51
35	BB	1431	G	N1-C2	-5.83	1.33	1.37
35	BB	1485	G	C6-N1	-5.83	1.35	1.39
36	BC	155	C	N1-C2	-5.83	1.34	1.40
40	BG	129	G	P-O5'	-5.83	1.53	1.59
85	AA	565	G	C2'-C1'	-5.83	1.47	1.53
34	BA	30	A	N9-C4	-5.82	1.34	1.37
34	BA	87	G	C1'-N9	-5.82	1.38	1.46
34	BA	258	C	C4-N4	-5.82	1.28	1.33
34	BA	431	A	P-O5'	-5.82	1.53	1.59
34	BA	462	C	C3'-C2'	-5.82	1.46	1.52
34	BA	474	A	C5-C4	-5.82	1.34	1.38
35	BB	473	U	C4'-C3'	-5.82	1.46	1.52
35	BB	664	A	C5'-C4'	-5.82	1.44	1.51
85	AA	244	G	C1'-N9	-5.82	1.38	1.46
85	AA	500	C	C1'-N1	-5.82	1.38	1.46
85	AA	1668	G	N9-C8	-5.82	1.33	1.37
34	BA	499	C	C1'-N1	-5.82	1.38	1.46
34	BA	1683	C	C4-N4	-5.82	1.28	1.33
35	BB	574	G	C4'-C3'	5.82	1.59	1.53
36	BC	45	C	C2-N3	-5.82	1.31	1.35
36	BC	48	A	C5-C4	-5.82	1.34	1.38
40	BG	180	C	O3'-P	-5.82	1.54	1.61
85	AA	358	U	P-O5'	-5.82	1.53	1.59
85	AA	1865	C	P-O5'	-5.82	1.53	1.59
85	AA	1972	A	O3'-P	-5.82	1.54	1.61
85	AA	2132	A	C5'-C4'	-5.82	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	547	C	O4'-C1'	-5.82	1.34	1.41
34	BA	1189	A	C2'-C1'	-5.82	1.47	1.53
34	BA	1221	A	C6-N1	-5.82	1.31	1.35
34	BA	1718	C	C1'-N1	-5.82	1.38	1.46
35	BB	460	C	C3'-C2'	-5.82	1.46	1.52
35	BB	552	C	C2-N3	-5.82	1.31	1.35
35	BB	666	A	C1'-N9	-5.82	1.38	1.46
35	BB	707	G	C5'-C4'	5.82	1.58	1.51
35	BB	767	A	C4'-C3'	-5.82	1.46	1.52
37	BD	105	G	N9-C8	-5.82	1.33	1.37
38	BE	130	G	C3'-C2'	-5.82	1.46	1.52
39	BF	34	C	O4'-C1'	-5.82	1.34	1.41
85	AA	622	G	N1-C2	-5.82	1.33	1.37
85	AA	1117	G	C5-C4	-5.82	1.34	1.38
85	AA	1531	G	C5-C6	-5.82	1.36	1.42
85	AA	2073	U	P-O5'	-5.82	1.53	1.59
34	BA	1211	G	P-O5'	5.82	1.65	1.59
34	BA	1412	G	C8-N7	-5.82	1.27	1.30
35	BB	1269	A	P-O5'	-5.82	1.53	1.59
36	BC	103	A	C1'-N9	-5.82	1.38	1.46
37	BD	97	U	C4'-C3'	-5.82	1.46	1.52
37	BD	111	U	C3'-C2'	-5.82	1.46	1.52
38	BE	6	A	N3-C4	-5.82	1.31	1.34
41	BH	27	A	N3-C4	-5.82	1.31	1.34
85	AA	501	A	C3'-C2'	-5.82	1.46	1.52
85	AA	532	G	C2'-C1'	-5.82	1.47	1.53
85	AA	754	C	O3'-P	-5.82	1.54	1.61
34	BA	794	G	C3'-C2'	-5.82	1.46	1.52
34	BA	1592	U	N3-C4	-5.82	1.33	1.38
34	BA	1703	A	C4'-O4'	-5.82	1.38	1.45
35	BB	5	A	C5'-C4'	5.82	1.58	1.51
35	BB	60	A	O3'-P	-5.82	1.54	1.61
35	BB	87	G	C3'-C2'	-5.82	1.46	1.52
35	BB	347	G	P-O5'	-5.82	1.53	1.59
35	BB	427	U	C2'-C1'	-5.82	1.47	1.53
35	BB	597	C	N1-C6	-5.82	1.33	1.37
35	BB	1332	G	N7-C5	-5.82	1.35	1.39
35	BB	1333	U	C2'-C1'	-5.82	1.47	1.53
36	BC	9	G	N9-C8	-5.82	1.33	1.37
38	BE	149	A	P-O5'	-5.82	1.53	1.59
39	BF	33	C	P-O5'	-5.82	1.53	1.59
41	BH	99	G	C2-N3	-5.82	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
79	Bt	39	GLY	CA-C	-5.82	1.42	1.51
85	AA	46	U	O3'-P	-5.82	1.54	1.61
85	AA	154	U	O3'-P	-5.82	1.54	1.61
85	AA	257	U	N3-C4	-5.82	1.33	1.38
85	AA	428	G	C3'-C2'	-5.82	1.46	1.52
85	AA	1158	U	C3'-C2'	-5.82	1.46	1.52
85	AA	1681	G	C4'-O4'	-5.82	1.38	1.45
85	AA	1993	C	C3'-O3'	5.82	1.50	1.42
34	BA	948	C	C4'-C3'	-5.82	1.46	1.52
34	BA	1013	A	N3-C4	-5.82	1.31	1.34
34	BA	1331	G	C3'-C2'	-5.82	1.46	1.52
34	BA	1371	U	P-O5'	-5.82	1.53	1.59
34	BA	1564	A	C5'-C4'	-5.82	1.44	1.51
34	BA	1585	A	C2'-C1'	-5.82	1.47	1.53
34	BA	1685	C	O4'-C1'	-5.82	1.34	1.41
35	BB	694	C	C3'-C2'	-5.82	1.46	1.52
37	BD	107	G	C6-N1	-5.82	1.35	1.39
85	AA	105	A	C5-C4	-5.82	1.34	1.38
85	AA	154	U	C2'-C1'	-5.82	1.47	1.53
85	AA	244	G	C2'-C1'	-5.82	1.47	1.53
85	AA	293	A	O3'-P	-5.82	1.54	1.61
85	AA	614	U	O4'-C1'	-5.82	1.34	1.41
85	AA	1549	G	N3-C4	-5.82	1.31	1.35
85	AA	1901	G	C6-N1	-5.82	1.35	1.39
86	AB	19	G	N3-C4	-5.82	1.31	1.35
34	BA	58	A	N3-C4	-5.81	1.31	1.34
34	BA	476	U	N3-C4	-5.81	1.33	1.38
34	BA	566	G	N3-C4	-5.81	1.31	1.35
34	BA	678	C	C4-C5	-5.81	1.38	1.43
34	BA	854	A	N9-C4	-5.81	1.34	1.37
85	AA	2043	A	P-O5'	-5.81	1.53	1.59
34	BA	520	G	C6-N1	-5.81	1.35	1.39
34	BA	523	A	C3'-C2'	-5.81	1.46	1.52
34	BA	1016	A	C1'-N9	-5.81	1.38	1.46
34	BA	1050	A	C5-C4	-5.81	1.34	1.38
34	BA	1399	A	C1'-N9	-5.81	1.38	1.46
34	BA	1409	A	C1'-N9	-5.81	1.38	1.46
34	BA	1539	A	N7-C5	-5.81	1.35	1.39
34	BA	1594	G	P-O5'	-5.81	1.53	1.59
35	BB	90	G	C5-C4	-5.81	1.34	1.38
38	BE	2	G	C2'-C1'	-5.81	1.47	1.53
41	BH	68	G	C6-N1	-5.81	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	724	A	P-O5'	-5.81	1.53	1.59
85	AA	942	A	O3'-P	-5.81	1.54	1.61
85	AA	1010	U	P-O5'	-5.81	1.53	1.59
85	AA	1243	G	N7-C5	-5.81	1.35	1.39
85	AA	1731	G	C2-N2	-5.81	1.28	1.34
34	BA	410	G	C5-C4	-5.81	1.34	1.38
34	BA	721	A	C5-C4	-5.81	1.34	1.38
34	BA	1070	G	C6-N1	-5.81	1.35	1.39
35	BB	550	G	C6-N1	-5.81	1.35	1.39
35	BB	956	G	C2'-C1'	-5.81	1.47	1.53
36	BC	121	G	C2-N2	-5.81	1.28	1.34
40	BG	57	A	O3'-P	-5.81	1.54	1.61
85	AA	447	C	C4-N4	-5.81	1.28	1.33
85	AA	533	C	N1-C2	-5.81	1.34	1.40
85	AA	654	A	C4'-O4'	-5.81	1.38	1.45
34	BA	63	A	C6-N6	-5.81	1.29	1.33
34	BA	1064	A	C2'-C1'	-5.81	1.47	1.53
34	BA	1198	U	C5'-C4'	5.81	1.58	1.51
34	BA	1258	G	P-O5'	-5.81	1.53	1.59
35	BB	102	G	C2-N2	-5.81	1.28	1.34
35	BB	623	A	C5-C4	-5.81	1.34	1.38
36	BC	78	G	C1'-N9	-5.81	1.38	1.46
36	BC	126	G	N7-C5	-5.81	1.35	1.39
39	BF	52	A	C1'-N9	-5.81	1.38	1.46
40	BG	88	G	N1-C2	-5.81	1.33	1.37
40	BG	92	U	O3'-P	-5.81	1.54	1.61
41	BH	7	C	C4-N4	-5.81	1.28	1.33
85	AA	460	U	N3-C4	-5.81	1.33	1.38
85	AA	2073	U	N3-C4	-5.81	1.33	1.38
34	BA	1467	U	N3-C4	-5.81	1.33	1.38
34	BA	1673	G	C1'-N9	-5.81	1.38	1.46
35	BB	373	C	C4-N4	-5.81	1.28	1.33
36	BC	28	C	C1'-N1	-5.81	1.38	1.46
36	BC	91	G	C6-N1	-5.81	1.35	1.39
38	BE	160	C	C3'-C2'	-5.81	1.46	1.52
41	BH	122	U	C2'-C1'	-5.81	1.47	1.53
85	AA	418	G	N9-C8	-5.81	1.33	1.37
85	AA	527	A	N9-C8	-5.81	1.33	1.37
85	AA	692	U	C2-N3	-5.81	1.33	1.37
85	AA	1373	U	C3'-C2'	-5.81	1.46	1.52
85	AA	1971	G	C2'-C1'	-5.81	1.47	1.53
34	BA	1291	A	C3'-C2'	-5.81	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	88	U	N3-C4	-5.81	1.33	1.38
35	BB	651	G	P-O5'	-5.81	1.53	1.59
36	BC	143	C	P-O5'	-5.81	1.53	1.59
85	AA	706	U	O3'-P	-5.81	1.54	1.61
85	AA	1289	U	O3'-P	-5.81	1.54	1.61
34	BA	71	G	N3-C4	-5.80	1.31	1.35
34	BA	341	U	N3-C4	-5.80	1.33	1.38
34	BA	804	G	N1-C2	-5.80	1.33	1.37
34	BA	1235	C	C4-N4	-5.80	1.28	1.33
34	BA	1778	U	P-O5'	-5.80	1.53	1.59
34	BA	1833	G	C5-C4	-5.80	1.34	1.38
34	BA	1846	G	C6-N1	-5.80	1.35	1.39
35	BB	99	G	C2'-C1'	-5.80	1.47	1.53
35	BB	783	U	C3'-C2'	-5.80	1.46	1.52
35	BB	833	G	N7-C5	-5.80	1.35	1.39
35	BB	975	G	N1-C2	-5.80	1.33	1.37
35	BB	1456	G	N9-C8	-5.80	1.33	1.37
36	BC	110	A	P-O5'	-5.80	1.53	1.59
38	BE	140	G	C2-N2	-5.80	1.28	1.34
39	BF	23	G	P-O5'	5.80	1.65	1.59
71	Bl	111	ARG	CD-NE	5.80	1.56	1.46
85	AA	36	U	N3-C4	-5.80	1.33	1.38
85	AA	363	A	C5'-C4'	-5.80	1.44	1.51
85	AA	622	G	C5-C4	-5.80	1.34	1.38
85	AA	1117	G	C6-N1	-5.80	1.35	1.39
85	AA	1295	G	C6-N1	-5.80	1.35	1.39
85	AA	1735	U	N1-C2	5.80	1.43	1.38
85	AA	2088	U	O3'-P	-5.80	1.54	1.61
34	BA	144	C	C1'-N1	-5.80	1.38	1.46
35	BB	1131	C	C4'-C3'	-5.80	1.46	1.52
37	BD	4	U	N3-C4	-5.80	1.33	1.38
85	AA	151	A	N3-C4	-5.80	1.31	1.34
34	BA	588	C	O4'-C1'	-5.80	1.34	1.41
34	BA	1225	A	P-O5'	-5.80	1.53	1.59
34	BA	1301	G	P-O5'	-5.80	1.53	1.59
34	BA	1728	G	C8-N7	-5.80	1.27	1.30
34	BA	1808	A	C5-C4	-5.80	1.34	1.38
35	BB	68	G	C4'-O4'	-5.80	1.38	1.45
35	BB	560	C	C3'-C2'	-5.80	1.46	1.52
35	BB	642	G	C1'-N9	-5.80	1.38	1.46
35	BB	1148	U	C5'-C4'	-5.80	1.44	1.51
35	BB	1268	C	C2-N3	-5.80	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	4	G	C1'-N9	-5.80	1.38	1.46
36	BC	121	G	P-O5'	-5.80	1.53	1.59
38	BE	47	U	C2'-C1'	-5.80	1.47	1.53
39	BF	32	G	N9-C4	-5.80	1.33	1.38
85	AA	110	U	C2-N3	-5.80	1.33	1.37
85	AA	238	C	O3'-P	-5.80	1.54	1.61
85	AA	265	A	C4'-C3'	5.80	1.59	1.53
85	AA	585	G	P-O5'	-5.80	1.53	1.59
85	AA	670	C	P-O5'	-5.80	1.53	1.59
85	AA	860	C	C2'-C1'	-5.80	1.47	1.53
34	BA	15	G	C2-N3	-5.80	1.28	1.32
34	BA	261	A	O3'-P	-5.80	1.54	1.61
34	BA	456	G	C6-N1	-5.80	1.35	1.39
34	BA	982	A	C8-N7	-5.80	1.27	1.31
34	BA	1202	G	C5'-C4'	-5.80	1.44	1.51
34	BA	1827	C	C2-N3	-5.80	1.31	1.35
36	BC	54	G	O3'-P	-5.80	1.54	1.61
37	BD	53	U	P-O5'	-5.80	1.53	1.59
37	BD	54	A	C2'-C1'	-5.80	1.47	1.53
37	BD	76	U	C2-N3	-5.80	1.33	1.37
38	BE	26	G	N7-C5	-5.80	1.35	1.39
40	BG	61	A	C5-C4	-5.80	1.34	1.38
85	AA	392	G	N1-C2	-5.80	1.33	1.37
85	AA	1513	U	O3'-P	-5.80	1.54	1.61
85	AA	1924	C	O3'-P	-5.80	1.54	1.61
34	BA	1020	A	P-O5'	-5.80	1.53	1.59
34	BA	1338	G	C2'-C1'	-5.80	1.47	1.53
34	BA	1437	G	N9-C4	-5.80	1.33	1.38
35	BB	104	G	N9-C4	-5.80	1.33	1.38
35	BB	434	A	N3-C4	-5.80	1.31	1.34
35	BB	1334	C	N3-C4	-5.80	1.29	1.33
35	BB	1524	G	C1'-N9	-5.80	1.38	1.46
36	BC	37	U	C4'-C3'	-5.80	1.46	1.52
37	BD	30	A	P-O5'	-5.80	1.53	1.59
34	BA	93	A	O4'-C1'	-5.80	1.34	1.41
34	BA	183	G	N1-C2	-5.80	1.33	1.37
34	BA	716	C	C3'-C2'	-5.80	1.46	1.52
34	BA	1039	G	C5'-C4'	-5.80	1.44	1.51
34	BA	1102	A	C5-C4	-5.80	1.34	1.38
34	BA	1189	A	C6-N1	-5.80	1.31	1.35
34	BA	1602	A	P-O5'	-5.80	1.53	1.59
34	BA	1603	A	N9-C8	-5.80	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1645	C	C3'-C2'	-5.80	1.46	1.52
35	BB	11	A	C3'-C2'	-5.80	1.46	1.52
35	BB	31	U	P-O5'	-5.80	1.53	1.59
35	BB	54	U	C2'-C1'	-5.80	1.47	1.53
35	BB	392	G	C3'-C2'	-5.80	1.46	1.52
35	BB	706	G	C5-C4	-5.80	1.34	1.38
35	BB	1049	G	C5-C4	-5.80	1.34	1.38
35	BB	1233	U	O3'-P	-5.80	1.54	1.61
35	BB	1424	G	O4'-C1'	-5.80	1.34	1.41
40	BG	17	A	C1'-N9	-5.80	1.38	1.46
40	BG	62	C	C3'-C2'	-5.80	1.46	1.52
85	AA	157	G	N9-C8	-5.80	1.33	1.37
85	AA	1472	G	C3'-C2'	-5.80	1.46	1.52
34	BA	1138	C	P-O5'	-5.79	1.53	1.59
34	BA	1451	A	C6-N6	-5.79	1.29	1.33
36	BC	169	G	N9-C4	-5.79	1.33	1.38
39	BF	53	G	C4'-O4'	-5.79	1.38	1.45
34	BA	557	U	C5-C6	-5.79	1.28	1.34
34	BA	720	A	C5-C6	-5.79	1.35	1.41
35	BB	417	A	O3'-P	-5.79	1.54	1.61
35	BB	448	G	C5-C4	-5.79	1.34	1.38
35	BB	487	A	C3'-C2'	-5.79	1.46	1.52
35	BB	518	G	C2'-C1'	-5.79	1.47	1.53
35	BB	520	G	O3'-P	-5.79	1.54	1.61
35	BB	1431	G	C1'-N9	-5.79	1.38	1.46
85	AA	28	A	C2'-C1'	-5.79	1.47	1.53
85	AA	133	G	C2'-C1'	-5.79	1.47	1.53
85	AA	422	G	C2-N2	-5.79	1.28	1.34
85	AA	972	G	C4'-C3'	5.79	1.59	1.53
85	AA	2006	G	C2-N2	-5.79	1.28	1.34
85	AA	2177	C	C1'-N1	-5.79	1.38	1.46
34	BA	1325	G	C5-C4	-5.79	1.34	1.38
35	BB	1263	A	C2'-C1'	-5.79	1.47	1.53
35	BB	1416	A	C2'-C1'	-5.79	1.47	1.53
35	BB	1511	U	C2'-C1'	-5.79	1.47	1.53
36	BC	95	A	C4'-C3'	-5.79	1.46	1.52
38	BE	61	A	C5-C4	-5.79	1.34	1.38
41	BH	114	G	N3-C4	-5.79	1.31	1.35
85	AA	408	C	C3'-C2'	-5.79	1.46	1.52
85	AA	441	C	C4-N4	-5.79	1.28	1.33
85	AA	819	G	O3'-P	-5.79	1.54	1.61
85	AA	830	A	C1'-N9	-5.79	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	877	G	C6-O6	-5.79	1.19	1.24
85	AA	1162	A	C3'-C2'	-5.79	1.46	1.52
85	AA	1273	C	P-O5'	-5.79	1.53	1.59
85	AA	2233	A	O3'-P	-5.79	1.54	1.61
34	BA	68	A	N9-C8	-5.79	1.33	1.37
34	BA	116	G	O3'-P	-5.79	1.54	1.61
34	BA	1315	C	C3'-C2'	-5.79	1.46	1.52
38	BE	163	A	C6-N1	-5.79	1.31	1.35
40	BG	44	G	C2-N2	-5.79	1.28	1.34
85	AA	92	G	C4'-C3'	-5.79	1.46	1.52
85	AA	1549	G	O4'-C1'	-5.79	1.34	1.41
85	AA	1614	G	O3'-P	-5.79	1.54	1.61
34	BA	103	G	N1-C2	-5.79	1.33	1.37
34	BA	124	G	C2'-C1'	-5.79	1.47	1.53
34	BA	215	C	P-O5'	-5.79	1.53	1.59
34	BA	220	U	O3'-P	-5.79	1.54	1.61
34	BA	565	U	C1'-N1	-5.79	1.38	1.46
34	BA	805	A	N7-C5	-5.79	1.35	1.39
34	BA	939	C	C4-C5	-5.79	1.38	1.43
34	BA	985	C	C2'-C1'	-5.79	1.47	1.53
34	BA	1456	C	C4'-O4'	-5.79	1.38	1.45
34	BA	1557	G	N1-C2	-5.79	1.33	1.37
34	BA	1693	U	C2-N3	-5.79	1.33	1.37
35	BB	641	C	P-O5'	-5.79	1.53	1.59
35	BB	1398	A	N3-C4	-5.79	1.31	1.34
85	AA	269	G	N7-C5	-5.79	1.35	1.39
85	AA	2131	C	C2-N3	-5.79	1.31	1.35
85	AA	629	A	N7-C5	-5.79	1.35	1.39
85	AA	861	G	N3-C4	-5.79	1.31	1.35
85	AA	1217	U	P-O5'	-5.79	1.53	1.59
85	AA	1243	G	C2-N2	-5.79	1.28	1.34
85	AA	2169	C	N3-C4	-5.79	1.29	1.33
34	BA	819	G	O3'-P	-5.79	1.54	1.61
34	BA	1088	G	N9-C8	-5.79	1.33	1.37
34	BA	1164	C	C3'-C2'	-5.79	1.46	1.52
34	BA	1213	A	C5-C6	-5.79	1.35	1.41
34	BA	1409	A	N3-C4	-5.79	1.31	1.34
34	BA	1497	A	C3'-C2'	5.79	1.59	1.52
34	BA	1670	A	C2'-C1'	-5.79	1.47	1.53
34	BA	1675	C	C5'-C4'	-5.79	1.44	1.51
35	BB	1198	C	C2-N3	-5.79	1.31	1.35
38	BE	55	C	C3'-O3'	5.79	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	10	U	O3'-P	-5.79	1.54	1.61
41	BH	129	G	O3'-P	-5.79	1.54	1.61
85	AA	693	A	P-O5'	-5.79	1.53	1.59
85	AA	1856	G	C3'-C2'	-5.79	1.46	1.52
34	BA	116	G	C2'-C1'	-5.78	1.47	1.53
34	BA	388	A	N3-C4	-5.78	1.31	1.34
34	BA	513	U	C1'-N1	-5.78	1.38	1.46
34	BA	703	U	N3-C4	-5.78	1.33	1.38
34	BA	795	G	C5-C6	-5.78	1.36	1.42
34	BA	1533	G	C2-N2	-5.78	1.28	1.34
34	BA	1603	A	P-O5'	-5.78	1.53	1.59
35	BB	625	A	N7-C5	-5.78	1.35	1.39
35	BB	1203	C	P-O5'	-5.78	1.53	1.59
35	BB	1248	A	C4'-C3'	-5.78	1.46	1.52
35	BB	1318	U	P-O5'	-5.78	1.53	1.59
38	BE	10	G	C4'-O4'	5.78	1.53	1.45
38	BE	37	C	C2'-C1'	-5.78	1.47	1.53
38	BE	49	A	N7-C5	-5.78	1.35	1.39
40	BG	1	G	C5-C6	-5.78	1.36	1.42
40	BG	86	U	C4-C5	-5.78	1.38	1.43
41	BH	33	G	C5-C4	-5.78	1.34	1.38
85	AA	111	A	N3-C4	-5.78	1.31	1.34
85	AA	362	G	C3'-C2'	-5.78	1.46	1.52
85	AA	682	C	C4'-C3'	-5.78	1.46	1.52
85	AA	887	A	O4'-C1'	-5.78	1.34	1.41
85	AA	1271	U	C2-N3	-5.78	1.33	1.37
34	BA	1492	G	C6-N1	-5.78	1.35	1.39
35	BB	813	C	O3'-P	-5.78	1.54	1.61
35	BB	1461	C	C4'-O4'	-5.78	1.38	1.45
40	BG	65	C	C4'-O4'	-5.78	1.38	1.45
85	AA	1249	U	O3'-P	-5.78	1.54	1.61
85	AA	1581	C	O3'-P	-5.78	1.54	1.61
85	AA	2094	U	C3'-C2'	-5.78	1.46	1.52
34	BA	142	A	C8-N7	-5.78	1.27	1.31
34	BA	580	U	C4'-O4'	-5.78	1.38	1.45
34	BA	966	G	C2-N2	-5.78	1.28	1.34
34	BA	1005	C	P-O5'	-5.78	1.53	1.59
34	BA	1078	U	N1-C2	-5.78	1.33	1.38
34	BA	1203	G	C5'-C4'	-5.78	1.44	1.51
34	BA	1514	A	N9-C4	-5.78	1.34	1.37
34	BA	1655	G	C2'-C1'	-5.78	1.47	1.53
34	BA	1706	A	O3'-P	-5.78	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1802	C	C3'-C2'	-5.78	1.46	1.52
35	BB	19	C	C4'-O4'	-5.78	1.38	1.45
35	BB	115	A	C6-N1	5.78	1.39	1.35
35	BB	979	G	C2-N2	-5.78	1.28	1.34
35	BB	1097	U	N3-C4	-5.78	1.33	1.38
40	BG	134	U	C3'-C2'	-5.78	1.46	1.52
71	Bl	42	GLY	CA-C	-5.78	1.42	1.51
85	AA	433	U	O3'-P	-5.78	1.54	1.61
85	AA	622	G	O3'-P	-5.78	1.54	1.61
85	AA	704	A	C5-C4	-5.78	1.34	1.38
85	AA	843	U	O3'-P	-5.78	1.54	1.61
85	AA	1144	G	N7-C5	-5.78	1.35	1.39
85	AA	1190	G	O4'-C1'	-5.78	1.34	1.41
85	AA	2089	G	C5-C4	-5.78	1.34	1.38
85	AA	2174	G	N3-C4	-5.78	1.31	1.35
34	BA	434	U	C2'-C1'	-5.78	1.47	1.53
34	BA	482	C	C1'-N1	-5.78	1.38	1.46
34	BA	1290	A	C2'-C1'	-5.78	1.47	1.53
35	BB	1292	G	C3'-C2'	-5.78	1.46	1.52
38	BE	142	A	N9-C8	-5.78	1.33	1.37
85	AA	165	C	C5'-C4'	-5.78	1.44	1.51
85	AA	1675	U	P-O5'	-5.78	1.53	1.59
34	BA	33	C	P-O5'	-5.78	1.53	1.59
34	BA	375	C	C2'-C1'	-5.78	1.47	1.53
34	BA	517	A	C2'-C1'	-5.78	1.47	1.53
34	BA	720	A	N3-C4	-5.78	1.31	1.34
34	BA	823	G	C2'-C1'	-5.78	1.47	1.53
35	BB	765	G	O3'-P	-5.78	1.54	1.61
85	AA	1172	A	O3'-P	-5.78	1.54	1.61
85	AA	1498	C	O3'-P	-5.78	1.54	1.61
85	AA	1689	G	N9-C4	-5.78	1.33	1.38
85	AA	1711	C	C1'-N1	-5.78	1.38	1.46
34	BA	94	G	P-O5'	-5.78	1.53	1.59
34	BA	326	A	O4'-C1'	-5.78	1.34	1.41
34	BA	583	G	O3'-P	-5.78	1.54	1.61
34	BA	955	G	N7-C5	-5.78	1.35	1.39
34	BA	1023	G	C5-C4	-5.78	1.34	1.38
34	BA	1203	G	C8-N7	-5.78	1.27	1.30
35	BB	1224	C	C2'-C1'	-5.78	1.47	1.53
35	BB	1465	U	C3'-C2'	-5.78	1.46	1.52
38	BE	48	G	C2-N2	-5.78	1.28	1.34
40	BG	35	G	C2-N2	-5.78	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	125	A	N3-C4	-5.78	1.31	1.34
85	AA	210	G	C6-O6	-5.78	1.19	1.24
85	AA	493	A	C1'-N9	-5.78	1.38	1.46
85	AA	680	U	N3-C4	-5.78	1.33	1.38
85	AA	1242	A	N3-C4	-5.78	1.31	1.34
85	AA	1948	A	P-O5'	-5.78	1.53	1.59
85	AA	2085	C	C5'-C4'	-5.78	1.44	1.51
34	BA	14	G	C2'-C1'	-5.77	1.47	1.53
34	BA	261	A	P-O5'	-5.77	1.53	1.59
34	BA	728	A	C5-C4	-5.77	1.34	1.38
34	BA	768	G	C2'-C1'	-5.77	1.47	1.53
34	BA	1077	G	N7-C5	-5.77	1.35	1.39
35	BB	817	C	C5'-C4'	5.77	1.58	1.51
35	BB	1068	G	C2-N2	-5.77	1.28	1.34
85	AA	670	C	O3'-P	-5.77	1.54	1.61
85	AA	1462	A	O3'-P	-5.77	1.54	1.61
34	BA	809	U	C4'-C3'	-5.77	1.46	1.52
34	BA	1025	A	C2'-C1'	-5.77	1.47	1.53
34	BA	1092	U	C4'-C3'	-5.77	1.46	1.52
34	BA	1194	G	C1'-N9	-5.77	1.38	1.46
34	BA	1202	G	C2'-C1'	-5.77	1.47	1.53
34	BA	1713	U	N1-C2	-5.77	1.33	1.38
35	BB	629	C	C2'-C1'	-5.77	1.47	1.53
35	BB	697	G	C5-C4	-5.77	1.34	1.38
35	BB	1276	U	O3'-P	-5.77	1.54	1.61
37	BD	56	G	C2'-C1'	-5.77	1.47	1.53
85	AA	327	G	C4'-C3'	5.77	1.59	1.53
85	AA	636	G	O3'-P	-5.77	1.54	1.61
85	AA	925	G	C2-N2	-5.77	1.28	1.34
85	AA	2146	G	C2-N3	-5.77	1.28	1.32
34	BA	230	A	P-O5'	-5.77	1.53	1.59
34	BA	452	A	N3-C4	-5.77	1.31	1.34
34	BA	1600	G	O4'-C1'	-5.77	1.34	1.41
34	BA	1623	U	C2'-C1'	-5.77	1.47	1.53
34	BA	1685	C	C5'-C4'	-5.77	1.44	1.51
35	BB	4	C	C1'-N1	5.77	1.57	1.48
35	BB	283	A	P-O5'	-5.77	1.53	1.59
35	BB	1538	G	P-O5'	-5.77	1.53	1.59
85	AA	2221	A	O3'-P	-5.77	1.54	1.61
34	BA	791	A	N3-C4	-5.77	1.31	1.34
34	BA	966	G	C6-N1	-5.77	1.35	1.39
34	BA	1013	A	N7-C5	-5.77	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1268	C	O3'-P	-5.77	1.54	1.61
35	BB	1235	A	C5-C4	-5.77	1.34	1.38
40	BG	170	G	O3'-P	-5.77	1.54	1.61
41	BH	42	U	O3'-P	-5.77	1.54	1.61
85	AA	540	A	O3'-P	-5.77	1.54	1.61
85	AA	565	G	N7-C5	-5.77	1.35	1.39
85	AA	690	G	C5'-C4'	-5.77	1.44	1.51
85	AA	1156	A	C8-N7	-5.77	1.27	1.31
85	AA	1541	G	C2-N2	-5.77	1.28	1.34
34	BA	467	A	C8-N7	-5.77	1.27	1.31
34	BA	714	G	C2-N2	-5.77	1.28	1.34
34	BA	1420	A	N7-C5	-5.77	1.35	1.39
35	BB	421	U	C3'-C2'	-5.77	1.46	1.52
35	BB	858	U	P-O5'	-5.77	1.53	1.59
35	BB	1263	A	O3'-P	-5.77	1.54	1.61
38	BE	108	U	C3'-O3'	-5.77	1.34	1.42
85	AA	914	U	C2'-C1'	-5.77	1.47	1.53
85	AA	1440	C	C3'-C2'	-5.77	1.46	1.52
34	BA	263	G	C2'-C1'	-5.77	1.47	1.53
34	BA	517	A	C8-N7	-5.77	1.27	1.31
34	BA	1672	C	N3-C4	-5.77	1.29	1.33
35	BB	832	C	C2-N3	-5.77	1.31	1.35
35	BB	1004	A	N7-C5	-5.77	1.35	1.39
35	BB	1040	C	C5'-C4'	5.77	1.58	1.51
35	BB	1106	G	N1-C2	-5.77	1.33	1.37
36	BC	42	G	C5-C4	-5.77	1.34	1.38
49	BP	19	PRO	N-CD	-5.77	1.39	1.47
66	Bg	81	TYR	CB-CG	-5.77	1.43	1.51
35	BB	779	C	C2'-C1'	-5.76	1.47	1.53
35	BB	1193	G	C3'-C2'	-5.76	1.46	1.52
40	BG	176	G	N9-C8	-5.76	1.33	1.37
85	AA	373	G	C4'-C3'	-5.76	1.46	1.52
85	AA	621	U	P-O5'	-5.76	1.53	1.59
85	AA	1061	C	O3'-P	-5.76	1.54	1.61
85	AA	1293	U	O3'-P	-5.76	1.54	1.61
85	AA	2140	U	N3-C4	-5.76	1.33	1.38
34	BA	257	G	C5-C6	-5.76	1.36	1.42
34	BA	702	G	N1-C2	-5.76	1.33	1.37
34	BA	1709	A	C1'-N9	-5.76	1.38	1.46
37	BD	110	G	N1-C2	-5.76	1.33	1.37
41	BH	59	G	N9-C4	-5.76	1.33	1.38
85	AA	648	G	C3'-C2'	-5.76	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1673	A	C1'-N9	-5.76	1.38	1.46
85	AA	1929	G	C4'-C3'	-5.76	1.46	1.52
85	AA	2105	G	C5-C4	-5.76	1.34	1.38
34	BA	191	G	C3'-C2'	-5.76	1.46	1.52
34	BA	331	G	C2-N2	-5.76	1.28	1.34
34	BA	1560	U	O4'-C1'	-5.76	1.34	1.41
35	BB	113	C	C5'-C4'	-5.76	1.44	1.51
35	BB	399	A	C2'-C1'	-5.76	1.47	1.53
38	BE	187	G	O3'-P	-5.76	1.54	1.61
40	BG	73	U	C3'-C2'	-5.76	1.46	1.52
40	BG	176	G	C2-N2	-5.76	1.28	1.34
41	BH	11	C	C2-N3	-5.76	1.31	1.35
85	AA	515	C	C4-N4	-5.76	1.28	1.33
85	AA	1253	G	N9-C8	-5.76	1.33	1.37
85	AA	1778	C	P-O5'	-5.76	1.53	1.59
85	AA	1850	G	C2'-C1'	-5.76	1.47	1.53
34	BA	844	U	C4'-C3'	-5.76	1.46	1.52
34	BA	1692	U	C2'-C1'	-5.76	1.47	1.53
34	BA	1782	C	C3'-C2'	-5.76	1.46	1.52
35	BB	391	G	O3'-P	-5.76	1.54	1.61
35	BB	1059	U	C3'-C2'	-5.76	1.46	1.52
35	BB	1070	G	C5-C4	-5.76	1.34	1.38
35	BB	1292	G	N7-C5	-5.76	1.35	1.39
36	BC	39	G	C2-N2	-5.76	1.28	1.34
36	BC	61	A	C1'-N9	-5.76	1.38	1.46
40	BG	124	A	C3'-C2'	-5.76	1.46	1.52
41	BH	21	G	C5'-C4'	-5.76	1.44	1.51
85	AA	386	G	N9-C8	-5.76	1.33	1.37
85	AA	544	A	C3'-C2'	-5.76	1.46	1.52
85	AA	705	G	N9-C4	-5.76	1.33	1.38
85	AA	934	A	C2'-C1'	-5.76	1.47	1.53
85	AA	1893	G	P-O5'	-5.76	1.53	1.59
85	AA	1996	A	C5'-C4'	5.76	1.58	1.51
34	BA	49	A	N9-C8	-5.76	1.33	1.37
34	BA	458	G	O3'-P	-5.76	1.54	1.61
34	BA	1117	G	N1-C2	-5.76	1.33	1.37
34	BA	1315	C	C1'-N1	-5.76	1.38	1.46
34	BA	1818	A	N3-C4	-5.76	1.31	1.34
35	BB	390	G	P-O5'	-5.76	1.53	1.59
36	BC	12	A	N3-C4	-5.76	1.31	1.34
85	AA	54	C	O3'-P	-5.76	1.54	1.61
34	BA	210	G	C5-C4	-5.76	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1648	G	N9-C4	-5.76	1.33	1.38
34	BA	1805	C	C2'-C1'	-5.76	1.47	1.53
35	BB	1036	G	C2-N3	-5.76	1.28	1.32
35	BB	1134	G	C8-N7	-5.76	1.27	1.30
35	BB	1397	G	C1'-N9	-5.76	1.38	1.46
35	BB	1478	G	C6-N1	-5.76	1.35	1.39
36	BC	15	G	N3-C4	-5.76	1.31	1.35
38	BE	146	U	C1'-N1	-5.76	1.38	1.46
39	BF	70	A	C2'-C1'	-5.76	1.47	1.53
85	AA	261	U	C1'-N1	-5.76	1.38	1.46
85	AA	338	G	C2'-C1'	-5.76	1.47	1.53
85	AA	499	G	C1'-N9	-5.76	1.38	1.46
85	AA	1240	A	C2'-C1'	-5.76	1.47	1.53
85	AA	1289	U	N3-C4	-5.76	1.33	1.38
85	AA	1850	G	P-O5'	-5.76	1.53	1.59
34	BA	441	A	C1'-N9	-5.75	1.38	1.46
34	BA	792	A	C1'-N9	-5.75	1.38	1.46
34	BA	820	C	C4-N4	-5.75	1.28	1.33
34	BA	1052	G	C3'-C2'	-5.75	1.46	1.52
34	BA	1780	U	P-O5'	-5.75	1.53	1.59
35	BB	488	G	C1'-N9	-5.75	1.38	1.46
35	BB	1020	U	C1'-N1	-5.75	1.38	1.46
36	BC	55	U	C4'-C3'	-5.75	1.46	1.52
36	BC	97	U	C4'-C3'	-5.75	1.46	1.52
40	BG	34	A	C1'-N9	-5.75	1.38	1.46
85	AA	2002	A	N7-C5	-5.75	1.35	1.39
85	AA	2218	G	C4'-O4'	-5.75	1.38	1.45
34	BA	116	G	C5'-C4'	-5.75	1.44	1.51
34	BA	951	C	C2'-C1'	-5.75	1.47	1.53
35	BB	61	A	P-O5'	-5.75	1.53	1.59
35	BB	127	U	C2'-O2'	-5.75	1.34	1.41
35	BB	1057	G	C6-N1	-5.75	1.35	1.39
35	BB	1118	G	C6-N1	-5.75	1.35	1.39
35	BB	1162	A	N7-C5	-5.75	1.35	1.39
35	BB	1421	C	C2'-C1'	-5.75	1.47	1.53
36	BC	67	U	C3'-C2'	-5.75	1.46	1.52
41	BH	14	C	C2'-C1'	-5.75	1.47	1.53
41	BH	129	G	N3-C4	-5.75	1.31	1.35
85	AA	383	C	C4-N4	-5.75	1.28	1.33
85	AA	532	G	C6-N1	-5.75	1.35	1.39
85	AA	669	G	P-O5'	-5.75	1.53	1.59
85	AA	700	U	C2'-C1'	-5.75	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1621	U	C4'-C3'	-5.75	1.46	1.52
85	AA	1873	U	C5'-C4'	5.75	1.58	1.51
85	AA	1974	C	P-O5'	-5.75	1.53	1.59
85	AA	2038	C	C3'-C2'	-5.75	1.46	1.52
34	BA	976	C	O3'-P	-5.75	1.54	1.61
34	BA	1105	A	N3-C4	-5.75	1.31	1.34
34	BA	1707	C	C1'-N1	-5.75	1.38	1.46
35	BB	401	U	C4'-C3'	-5.75	1.46	1.52
35	BB	615	A	C3'-C2'	-5.75	1.46	1.52
36	BC	159	U	O3'-P	-5.75	1.54	1.61
85	AA	103	U	C3'-C2'	-5.75	1.46	1.52
85	AA	471	U	C4'-C3'	-5.75	1.46	1.52
85	AA	588	G	C2-N2	-5.75	1.28	1.34
85	AA	631	G	N9-C4	-5.75	1.33	1.38
85	AA	927	A	C6-N6	-5.75	1.29	1.33
85	AA	1146	C	O3'-P	-5.75	1.54	1.61
85	AA	1825	A	N3-C4	-5.75	1.31	1.34
85	AA	2244	G	N9-C4	-5.75	1.33	1.38
34	BA	45	A	N9-C8	-5.75	1.33	1.37
34	BA	538	G	O3'-P	-5.75	1.54	1.61
34	BA	1484	A	C2'-C1'	-5.75	1.47	1.53
35	BB	425	G	N7-C5	-5.75	1.35	1.39
35	BB	897	C	P-O5'	-5.75	1.53	1.59
36	BC	66	G	P-O5'	-5.75	1.54	1.59
41	BH	31	A	O4'-C1'	-5.75	1.34	1.41
85	AA	365	G	O4'-C1'	-5.75	1.34	1.41
85	AA	1154	A	O3'-P	-5.75	1.54	1.61
34	BA	108	A	C3'-C2'	-5.75	1.46	1.52
34	BA	202	A	C1'-N9	-5.75	1.38	1.46
34	BA	260	A	N7-C5	-5.75	1.35	1.39
34	BA	397	A	C3'-C2'	-5.75	1.46	1.52
34	BA	467	A	C1'-N9	-5.75	1.38	1.46
34	BA	521	C	C4-N4	-5.75	1.28	1.33
34	BA	1355	G	C8-N7	-5.75	1.27	1.30
34	BA	1464	C	C2-N3	-5.75	1.31	1.35
34	BA	1847	G	C6-N1	-5.75	1.35	1.39
35	BB	890	U	P-O5'	-5.75	1.54	1.59
35	BB	960	C	P-O5'	-5.75	1.54	1.59
38	BE	87	U	C4-C5	-5.75	1.38	1.43
40	BG	81	G	N9-C4	-5.75	1.33	1.38
65	Bf	280	HIS	CB-CG	-5.75	1.39	1.50
85	AA	911	A	O3'-P	-5.75	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1217	U	C3'-C2'	-5.75	1.46	1.52
85	AA	2091	C	O3'-P	-5.75	1.54	1.61
34	BA	118	C	N3-C4	-5.75	1.29	1.33
34	BA	990	G	N7-C5	-5.75	1.35	1.39
34	BA	1653	G	N9-C8	-5.75	1.33	1.37
35	BB	585	U	N3-C4	-5.75	1.33	1.38
35	BB	1306	G	N9-C8	-5.75	1.33	1.37
35	BB	1319	U	C2'-C1'	-5.75	1.47	1.53
35	BB	1327	U	N1-C6	-5.75	1.32	1.38
39	BF	28	C	P-O5'	-5.75	1.54	1.59
40	BG	6	A	O3'-P	-5.75	1.54	1.61
34	BA	433	G	C4'-C3'	5.75	1.59	1.53
34	BA	1287	G	N7-C5	-5.75	1.35	1.39
34	BA	1787	U	N3-C4	-5.75	1.33	1.38
85	AA	964	C	C3'-O3'	5.75	1.50	1.42
85	AA	1940	A	P-O5'	-5.75	1.54	1.59
34	BA	8	G	C5-C4	-5.74	1.34	1.38
34	BA	1289	C	C1'-N1	-5.74	1.38	1.46
35	BB	26	C	C4'-C3'	-5.74	1.46	1.52
35	BB	1315	C	N1-C6	-5.74	1.33	1.37
37	BD	11	A	C6-N6	-5.74	1.29	1.33
38	BE	124	G	N7-C5	-5.74	1.35	1.39
41	BH	120	C	O3'-P	-5.74	1.54	1.61
85	AA	394	C	O3'-P	-5.74	1.54	1.61
85	AA	605	A	C3'-C2'	-5.74	1.46	1.52
85	AA	1641	A	C2'-C1'	-5.74	1.47	1.53
34	BA	332	U	P-O5'	-5.74	1.54	1.59
34	BA	367	G	P-O5'	-5.74	1.54	1.59
34	BA	697	A	N9-C4	-5.74	1.34	1.37
34	BA	1534	U	C1'-N1	-5.74	1.38	1.46
77	Br	133	PRO	CA-C	-5.74	1.41	1.52
85	AA	1285	C	C2-N3	-5.74	1.31	1.35
85	AA	1464	G	N1-C2	-5.74	1.33	1.37
34	BA	50	G	C2'-C1'	-5.74	1.47	1.53
34	BA	627	U	P-O5'	-5.74	1.54	1.59
34	BA	728	A	C3'-C2'	-5.74	1.46	1.52
34	BA	1004	U	N3-C4	-5.74	1.33	1.38
34	BA	1580	U	C2'-C1'	-5.74	1.47	1.53
35	BB	707	G	C2'-C1'	-5.74	1.47	1.53
38	BE	123	A	C2'-C1'	-5.74	1.47	1.53
40	BG	168	A	P-O5'	-5.74	1.54	1.59
41	BH	84	A	N3-C4	-5.74	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
65	Bf	295	PRO	CA-C	-5.74	1.41	1.52
85	AA	110	U	P-O5'	-5.74	1.54	1.59
85	AA	355	G	C3'-C2'	-5.74	1.46	1.52
85	AA	391	G	P-O5'	-5.74	1.54	1.59
85	AA	916	A	C2'-C1'	-5.74	1.47	1.53
85	AA	1143	C	O4'-C1'	-5.74	1.34	1.41
85	AA	1565	G	C2-N2	-5.74	1.28	1.34
85	AA	1960	C	O3'-P	-5.74	1.54	1.61
34	BA	666	C	C2-N3	-5.74	1.31	1.35
34	BA	956	G	C2-N2	-5.74	1.28	1.34
34	BA	1013	A	C8-N7	-5.74	1.27	1.31
34	BA	1163	G	P-O5'	-5.74	1.54	1.59
35	BB	31	U	C2'-C1'	-5.74	1.47	1.53
35	BB	664	A	N9-C8	-5.74	1.33	1.37
35	BB	1493	A	C3'-C2'	-5.74	1.46	1.52
36	BC	36	G	C2-N3	-5.74	1.28	1.32
40	BG	180	C	C4'-C3'	-5.74	1.46	1.52
85	AA	422	G	C6-N1	-5.74	1.35	1.39
85	AA	749	C	C2-N3	-5.74	1.31	1.35
85	AA	1584	U	C2'-C1'	-5.74	1.47	1.53
85	AA	2081	A	N9-C4	-5.74	1.34	1.37
34	BA	236	A	C8-N7	-5.74	1.27	1.31
35	BB	128	C	C3'-C2'	-5.74	1.46	1.52
35	BB	394	A	C3'-C2'	-5.74	1.46	1.52
35	BB	399	A	C4'-C3'	-5.74	1.46	1.52
35	BB	604	C	C5'-C4'	-5.74	1.44	1.51
35	BB	762	C	P-O5'	-5.74	1.54	1.59
35	BB	1048	A	C3'-C2'	-5.74	1.46	1.52
37	BD	108	G	O4'-C1'	-5.74	1.34	1.41
34	BA	255	G	C1'-N9	-5.74	1.38	1.46
34	BA	439	A	C1'-N9	-5.74	1.38	1.46
34	BA	799	A	C8-N7	-5.74	1.27	1.31
34	BA	799	A	C5'-C4'	5.74	1.58	1.51
34	BA	960	C	C4'-C3'	-5.74	1.46	1.52
34	BA	1176	C	O4'-C1'	-5.74	1.34	1.41
34	BA	1228	G	N7-C5	-5.74	1.35	1.39
35	BB	399	A	N9-C8	-5.74	1.33	1.37
35	BB	446	U	O4'-C1'	-5.74	1.34	1.41
35	BB	622	G	C1'-N9	-5.74	1.38	1.46
35	BB	679	G	C3'-C2'	-5.74	1.46	1.52
35	BB	811	C	C2-N3	-5.74	1.31	1.35
38	BE	45	G	C3'-C2'	-5.74	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	509	C	C3'-C2'	-5.74	1.46	1.52
85	AA	754	C	C2'-C1'	-5.74	1.47	1.53
85	AA	975	G	C1'-N9	-5.74	1.38	1.46
85	AA	1561	A	C1'-N9	-5.74	1.38	1.46
85	AA	1702	G	C2-N2	-5.74	1.28	1.34
85	AA	1858	G	C2'-C1'	-5.74	1.47	1.53
85	AA	2013	A	C3'-C2'	-5.74	1.46	1.52
34	BA	1033	G	C3'-C2'	-5.73	1.46	1.52
35	BB	1221	G	C6-N1	-5.73	1.35	1.39
35	BB	1378	U	C4'-C3'	-5.73	1.46	1.52
38	BE	82	C	C3'-O3'	5.73	1.50	1.42
85	AA	1307	U	P-O5'	-5.73	1.54	1.59
85	AA	1462	A	C6-N1	-5.73	1.31	1.35
34	BA	155	U	C2'-C1'	-5.73	1.47	1.53
34	BA	243	C	O3'-P	-5.73	1.54	1.61
35	BB	568	A	O3'-P	-5.73	1.54	1.61
37	BD	2	G	C6-N1	-5.73	1.35	1.39
37	BD	7	G	C4'-C3'	-5.73	1.46	1.52
38	BE	20	C	N3-C4	-5.73	1.29	1.33
40	BG	92	U	P-O5'	-5.73	1.54	1.59
41	BH	10	U	C5'-C4'	-5.73	1.44	1.51
85	AA	380	C	O3'-P	-5.73	1.54	1.61
85	AA	504	U	C4'-C3'	-5.73	1.46	1.52
85	AA	799	G	C2'-C1'	-5.73	1.47	1.53
85	AA	897	A	C4'-C3'	-5.73	1.46	1.52
85	AA	1292	A	C2'-C1'	-5.73	1.47	1.53
85	AA	1540	A	N3-C4	-5.73	1.31	1.34
85	AA	2054	G	C4'-C3'	-5.73	1.46	1.52
34	BA	365	A	C3'-C2'	-5.73	1.46	1.52
34	BA	1119	A	C2'-C1'	-5.73	1.47	1.53
34	BA	1585	A	N3-C4	-5.73	1.31	1.34
34	BA	1702	G	N9-C4	-5.73	1.33	1.38
35	BB	376	A	C6-N6	-5.73	1.29	1.33
35	BB	1296	A	C4'-C3'	-5.73	1.46	1.52
35	BB	1350	A	C4'-C3'	-5.73	1.46	1.52
37	BD	44	U	C2'-C1'	-5.73	1.47	1.53
34	BA	36	A	C5'-C4'	-5.73	1.44	1.51
34	BA	461	A	C8-N7	-5.73	1.27	1.31
34	BA	967	C	P-O5'	-5.73	1.54	1.59
34	BA	1510	C	C1'-N1	-5.73	1.38	1.46
85	AA	450	A	C8-N7	-5.73	1.27	1.31
85	AA	684	G	C2-N2	-5.73	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1984	A	C8-N7	-5.73	1.27	1.31
34	BA	1007	G	N9-C8	-5.73	1.33	1.37
34	BA	1832	A	C5-C4	-5.73	1.34	1.38
35	BB	132	G	O4'-C1'	-5.73	1.34	1.41
35	BB	844	G	C6-N1	-5.73	1.35	1.39
37	BD	95	G	C1'-N9	-5.73	1.38	1.46
40	BG	23	C	O5'-C5'	-5.73	1.33	1.42
85	AA	9	U	O3'-P	-5.73	1.54	1.61
85	AA	153	C	O3'-P	-5.73	1.54	1.61
85	AA	728	U	O3'-P	-5.73	1.54	1.61
85	AA	1671	G	C3'-C2'	-5.73	1.46	1.52
34	BA	680	C	C2-N3	-5.73	1.31	1.35
34	BA	1114	G	C2-N2	-5.73	1.28	1.34
34	BA	1379	G	P-O5'	-5.73	1.54	1.59
34	BA	1620	U	O3'-P	-5.73	1.54	1.61
35	BB	20	U	C2'-C1'	-5.73	1.47	1.53
35	BB	1495	U	C3'-C2'	-5.73	1.46	1.52
35	BB	1516	C	O3'-P	-5.73	1.54	1.61
38	BE	127	G	N9-C8	-5.73	1.33	1.37
85	AA	283	A	P-O5'	-5.73	1.54	1.59
85	AA	895	C	C4'-C3'	-5.73	1.46	1.52
85	AA	2193	A	C4'-O4'	-5.73	1.38	1.45
34	BA	557	U	C3'-O3'	5.72	1.50	1.42
34	BA	1061	A	C2'-C1'	-5.72	1.47	1.53
34	BA	1208	U	C3'-C2'	-5.72	1.46	1.52
34	BA	1817	G	C2'-C1'	-5.72	1.47	1.53
40	BG	155	A	C5-C4	-5.72	1.34	1.38
41	BH	120	C	O4'-C1'	-5.72	1.34	1.41
85	AA	1852	U	C5'-C4'	5.72	1.58	1.51
34	BA	195	G	C4'-C3'	-5.72	1.46	1.52
34	BA	202	A	C5-C4	-5.72	1.34	1.38
34	BA	465	A	N3-C4	-5.72	1.31	1.34
34	BA	979	G	N9-C8	-5.72	1.33	1.37
34	BA	1195	G	C3'-C2'	-5.72	1.46	1.52
35	BB	439	G	C6-N1	-5.72	1.35	1.39
35	BB	448	G	C6-N1	-5.72	1.35	1.39
35	BB	1019	C	N1-C6	-5.72	1.33	1.37
35	BB	1041	A	N3-C4	-5.72	1.31	1.34
36	BC	59	A	C3'-C2'	-5.72	1.46	1.52
40	BG	61	A	C6-N1	5.72	1.39	1.35
40	BG	147	U	O3'-P	-5.72	1.54	1.61
41	BH	54	U	C3'-C2'	-5.72	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	735	G	P-O5'	-5.72	1.54	1.59
85	AA	1130	G	O4'-C1'	-5.72	1.34	1.41
85	AA	2229	G	C2-N2	-5.72	1.28	1.34
34	BA	346	A	C2'-C1'	-5.72	1.47	1.53
34	BA	649	A	N7-C5	-5.72	1.35	1.39
34	BA	710	A	C3'-C2'	-5.72	1.46	1.52
34	BA	1152	A	C4'-O4'	-5.72	1.38	1.45
34	BA	1788	U	C3'-C2'	-5.72	1.46	1.52
35	BB	1272	G	C1'-N9	-5.72	1.38	1.46
41	BH	39	G	C2-N2	-5.72	1.28	1.34
85	AA	49	C	C2-N3	-5.72	1.31	1.35
85	AA	430	G	C2-N2	-5.72	1.28	1.34
85	AA	721	C	P-O5'	-5.72	1.54	1.59
85	AA	861	G	N9-C4	-5.72	1.33	1.38
85	AA	1595	G	N9-C4	-5.72	1.33	1.38
34	BA	214	A	O3'-P	-5.72	1.54	1.61
34	BA	252	A	C5-C4	-5.72	1.34	1.38
34	BA	272	A	P-O5'	-5.72	1.54	1.59
35	BB	139	G	O3'-P	-5.72	1.54	1.61
35	BB	404	A	N7-C5	-5.72	1.35	1.39
35	BB	586	U	O4'-C1'	-5.72	1.34	1.41
35	BB	1123	A	O3'-P	-5.72	1.54	1.61
35	BB	1282	G	C5'-C4'	-5.72	1.44	1.51
85	AA	164	G	C2-N2	-5.72	1.28	1.34
85	AA	622	G	C3'-C2'	-5.72	1.46	1.52
85	AA	1689	G	C2'-C1'	-5.72	1.47	1.53
34	BA	1521	C	C2'-C1'	-5.72	1.47	1.53
38	BE	166	G	N9-C8	-5.72	1.33	1.37
40	BG	182	G	C2'-C1'	-5.72	1.47	1.53
85	AA	191	C	C2-N3	-5.72	1.31	1.35
85	AA	2048	C	C3'-C2'	-5.72	1.46	1.52
34	BA	99	G	O4'-C1'	-5.72	1.34	1.41
34	BA	267	G	C5-C4	-5.72	1.34	1.38
34	BA	387	A	N3-C4	-5.72	1.31	1.34
34	BA	406	G	O3'-P	-5.72	1.54	1.61
34	BA	424	U	O3'-P	-5.72	1.54	1.61
34	BA	727	G	C2-N2	-5.72	1.28	1.34
34	BA	889	U	N1-C6	-5.72	1.32	1.38
34	BA	1215	U	C3'-C2'	-5.72	1.46	1.52
34	BA	1219	G	C5-C4	-5.72	1.34	1.38
34	BA	1335	A	C5'-C4'	-5.72	1.44	1.51
34	BA	1546	C	C4'-C3'	-5.72	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1681	U	C2-N3	-5.72	1.33	1.37
35	BB	57	G	C2'-C1'	-5.72	1.47	1.53
35	BB	93	A	C8-N7	-5.72	1.27	1.31
35	BB	577	U	N3-C4	-5.72	1.33	1.38
35	BB	794	G	N1-C2	-5.72	1.33	1.37
35	BB	1086	G	C3'-C2'	-5.72	1.46	1.52
35	BB	1335	G	N3-C4	-5.72	1.31	1.35
36	BC	88	A	C1'-N9	-5.72	1.38	1.46
37	BD	100	A	O3'-P	-5.72	1.54	1.61
40	BG	95	U	O3'-P	-5.72	1.54	1.61
41	BH	54	U	C2-N3	-5.72	1.33	1.37
85	AA	164	G	C1'-N9	-5.72	1.38	1.46
85	AA	176	C	C3'-C2'	-5.72	1.46	1.52
85	AA	189	G	N1-C2	-5.72	1.33	1.37
85	AA	1139	G	C5-C4	-5.72	1.34	1.38
85	AA	1181	U	C2'-C1'	-5.72	1.47	1.53
85	AA	1587	C	O3'-P	-5.72	1.54	1.61
85	AA	1762	G	O3'-P	-5.72	1.54	1.61
34	BA	188	C	O3'-P	-5.71	1.54	1.61
34	BA	488	C	C5'-C4'	5.71	1.58	1.51
34	BA	1395	C	O3'-P	-5.71	1.54	1.61
34	BA	1669	C	N1-C6	-5.71	1.33	1.37
35	BB	1401	G	C1'-N9	-5.71	1.38	1.46
36	BC	46	G	C1'-N9	-5.71	1.38	1.46
37	BD	17	G	N9-C4	-5.71	1.33	1.38
37	BD	68	C	C3'-C2'	-5.71	1.46	1.52
39	BF	32	G	C5-C6	-5.71	1.36	1.42
40	BG	9	G	N9-C8	-5.71	1.33	1.37
85	AA	57	G	N9-C4	5.71	1.42	1.38
85	AA	76	G	C2'-C1'	-5.71	1.47	1.53
85	AA	247	G	C8-N7	-5.71	1.27	1.30
85	AA	1202	G	P-O5'	-5.71	1.54	1.59
85	AA	1612	C	O3'-P	-5.71	1.54	1.61
85	AA	2227	A	C3'-C2'	-5.71	1.46	1.52
85	AA	2248	A	P-O5'	-5.71	1.54	1.59
34	BA	409	A	O4'-C1'	-5.71	1.34	1.41
34	BA	784	C	C4'-O4'	-5.71	1.38	1.45
34	BA	1448	G	C1'-N9	-5.71	1.38	1.46
35	BB	18	A	C3'-C2'	-5.71	1.46	1.52
35	BB	1062	G	C1'-N9	-5.71	1.38	1.46
40	BG	178	G	C2-N2	-5.71	1.28	1.34
85	AA	84	C	C3'-C2'	-5.71	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1794	U	O4'-C1'	-5.71	1.34	1.41
85	AA	2134	U	O3'-P	-5.71	1.54	1.61
34	BA	97	A	C8-N7	-5.71	1.27	1.31
34	BA	111	U	C2-N3	-5.71	1.33	1.37
34	BA	383	G	C5-C4	-5.71	1.34	1.38
34	BA	493	G	N1-C2	-5.71	1.33	1.37
34	BA	668	G	N7-C5	-5.71	1.35	1.39
34	BA	938	C	O3'-P	-5.71	1.54	1.61
34	BA	960	C	N1-C6	-5.71	1.33	1.37
34	BA	1073	G	O3'-P	-5.71	1.54	1.61
34	BA	1490	U	O4'-C1'	-5.71	1.34	1.41
34	BA	1647	G	C6-N1	-5.71	1.35	1.39
34	BA	1655	G	N1-C2	-5.71	1.33	1.37
35	BB	372	U	P-O5'	-5.71	1.54	1.59
35	BB	522	A	N9-C4	-5.71	1.34	1.37
35	BB	545	C	O3'-P	-5.71	1.54	1.61
35	BB	1176	G	C3'-C2'	-5.71	1.46	1.52
36	BC	123	G	C3'-C2'	-5.71	1.46	1.52
37	BD	15	U	C2-N3	-5.71	1.33	1.37
40	BG	130	G	C4'-C3'	-5.71	1.46	1.52
85	AA	233	C	C2'-C1'	-5.71	1.47	1.53
85	AA	275	A	O3'-P	-5.71	1.54	1.61
85	AA	328	U	C2'-C1'	-5.71	1.47	1.53
85	AA	782	G	N9-C4	-5.71	1.33	1.38
85	AA	2002	A	P-O5'	-5.71	1.54	1.59
85	AA	2137	A	C2'-C1'	-5.71	1.47	1.53
34	BA	1077	G	O3'-P	-5.71	1.54	1.61
34	BA	1434	U	C4'-C3'	-5.71	1.46	1.52
36	BC	123	G	C6-N1	5.71	1.43	1.39
39	BF	54	U	C3'-O3'	5.71	1.50	1.42
85	AA	1828	C	C2'-C1'	-5.71	1.47	1.53
85	AA	1892	G	C1'-N9	-5.71	1.38	1.46
34	BA	171	U	C2'-C1'	-5.71	1.47	1.53
34	BA	212	A	O3'-P	-5.71	1.54	1.61
34	BA	595	U	C5'-C4'	5.71	1.58	1.51
34	BA	797	A	O3'-P	-5.71	1.54	1.61
34	BA	908	G	C1'-N9	-5.71	1.38	1.46
34	BA	951	C	O3'-P	-5.71	1.54	1.61
34	BA	1062	G	C8-N7	-5.71	1.27	1.30
34	BA	1070	G	N9-C8	-5.71	1.33	1.37
34	BA	1253	G	C2'-C1'	-5.71	1.47	1.53
34	BA	1581	G	N9-C8	-5.71	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	63	A	C1'-N9	-5.71	1.38	1.46
35	BB	102	G	C4'-C3'	-5.71	1.46	1.52
35	BB	1145	G	C6-N1	-5.71	1.35	1.39
35	BB	1156	U	C2-N3	-5.71	1.33	1.37
35	BB	1259	A	C8-N7	-5.71	1.27	1.31
35	BB	1289	G	C3'-C2'	-5.71	1.46	1.52
35	BB	1329	G	N7-C5	-5.71	1.35	1.39
35	BB	1390	U	P-O5'	-5.71	1.54	1.59
35	BB	1449	G	C5-C6	-5.71	1.36	1.42
35	BB	1466	A	C8-N7	-5.71	1.27	1.31
36	BC	13	U	O3'-P	-5.71	1.54	1.61
39	BF	4	A	C5-C4	-5.71	1.34	1.38
85	AA	982	G	C4'-C3'	-5.71	1.46	1.52
85	AA	1676	G	C2-N2	-5.71	1.28	1.34
34	BA	28	C	C2'-C1'	-5.71	1.47	1.53
34	BA	243	C	C2'-C1'	-5.71	1.47	1.53
34	BA	790	G	N3-C4	-5.71	1.31	1.35
34	BA	1203	G	C3'-C2'	-5.71	1.46	1.52
35	BB	392	G	N9-C8	-5.71	1.33	1.37
35	BB	457	U	C3'-C2'	-5.71	1.46	1.52
35	BB	663	G	C8-N7	-5.71	1.27	1.30
35	BB	773	G	O4'-C1'	-5.71	1.34	1.41
35	BB	798	A	N9-C4	-5.71	1.34	1.37
36	BC	10	C	C5'-C4'	5.71	1.58	1.51
36	BC	62	A	C2'-C1'	-5.71	1.47	1.53
85	AA	125	A	P-O5'	-5.71	1.54	1.59
85	AA	885	A	C5'-C4'	5.71	1.58	1.51
85	AA	1094	G	C2'-C1'	-5.71	1.47	1.53
85	AA	1123	C	C3'-C2'	-5.71	1.46	1.52
85	AA	1464	G	O3'-P	-5.71	1.54	1.61
85	AA	1473	U	C3'-C2'	-5.71	1.46	1.52
34	BA	245	U	C2'-C1'	-5.71	1.47	1.53
34	BA	876	C	C2-N3	-5.71	1.31	1.35
34	BA	1839	G	C5-C4	-5.71	1.34	1.38
40	BG	79	U	N3-C4	-5.71	1.33	1.38
40	BG	181	C	C3'-C2'	-5.71	1.46	1.52
85	AA	698	G	N3-C4	-5.71	1.31	1.35
85	AA	931	G	N9-C8	-5.71	1.33	1.37
85	AA	1123	C	C2'-C1'	-5.71	1.47	1.53
85	AA	2011	C	C1'-N1	-5.71	1.38	1.46
34	BA	67	A	C5-C4	-5.70	1.34	1.38
34	BA	205	G	C8-N7	-5.70	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	330	A	C3'-C2'	-5.70	1.46	1.52
34	BA	886	G	C6-N1	-5.70	1.35	1.39
34	BA	1018	U	C2'-C1'	-5.70	1.47	1.53
34	BA	1036	G	C5-C4	-5.70	1.34	1.38
35	BB	439	G	C3'-C2'	-5.70	1.46	1.52
35	BB	700	C	C3'-C2'	-5.70	1.46	1.52
35	BB	1086	G	C5-C6	-5.70	1.36	1.42
35	BB	1153	G	C8-N7	-5.70	1.27	1.30
35	BB	1362	G	N3-C4	-5.70	1.31	1.35
35	BB	1454	G	O3'-P	-5.70	1.54	1.61
35	BB	1526	C	C2-N3	-5.70	1.31	1.35
36	BC	80	A	C2'-C1'	-5.70	1.47	1.53
37	BD	118	C	C3'-C2'	-5.70	1.46	1.52
40	BG	175	G	C2-N2	-5.70	1.28	1.34
85	AA	618	A	P-O5'	-5.70	1.54	1.59
85	AA	2098	A	C8-N7	-5.70	1.27	1.31
34	BA	242	U	O3'-P	-5.70	1.54	1.61
35	BB	539	G	P-O5'	-5.70	1.54	1.59
35	BB	1322	A	N7-C5	-5.70	1.35	1.39
85	AA	451	G	C6-N1	-5.70	1.35	1.39
34	BA	324	C	P-O5'	-5.70	1.54	1.59
34	BA	460	G	C6-N1	-5.70	1.35	1.39
34	BA	503	C	P-O5'	-5.70	1.54	1.59
34	BA	763	U	C4-C5	-5.70	1.38	1.43
34	BA	1418	G	C2'-C1'	-5.70	1.47	1.53
34	BA	1807	G	C3'-C2'	-5.70	1.46	1.52
35	BB	1080	U	C3'-C2'	-5.70	1.46	1.52
36	BC	5	U	C4'-C3'	-5.70	1.46	1.52
36	BC	58	G	C5-C4	-5.70	1.34	1.38
41	BH	32	U	N3-C4	-5.70	1.33	1.38
85	AA	258	G	N1-C2	-5.70	1.33	1.37
85	AA	707	U	C2'-C1'	-5.70	1.47	1.53
85	AA	880	A	P-O5'	-5.70	1.54	1.59
85	AA	1695	G	C5-C4	-5.70	1.34	1.38
85	AA	2145	G	N9-C4	-5.70	1.33	1.38
85	AA	2249	U	O3'-P	-5.70	1.54	1.61
34	BA	265	A	O3'-P	-5.70	1.54	1.61
34	BA	631	G	O3'-P	-5.70	1.54	1.61
34	BA	1442	A	N3-C4	5.70	1.38	1.34
34	BA	1557	G	O4'-C1'	-5.70	1.34	1.41
34	BA	1735	G	N1-C2	-5.70	1.33	1.37
34	BA	1748	G	P-O5'	-5.70	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1842	U	C2-N3	-5.70	1.33	1.37
35	BB	1271	A	C5-C4	-5.70	1.34	1.38
35	BB	1343	C	C2-N3	-5.70	1.31	1.35
35	BB	1346	A	C3'-C2'	-5.70	1.46	1.52
35	BB	1366	C	P-O5'	-5.70	1.54	1.59
59	BZ	60	PHE	CB-CG	-5.70	1.41	1.51
85	AA	442	G	C5-C6	-5.70	1.36	1.42
85	AA	1469	G	C6-N1	5.70	1.43	1.39
85	AA	1814	U	P-O5'	-5.70	1.54	1.59
85	AA	2061	C	O3'-P	-5.70	1.54	1.61
85	AA	2209	U	C2-N3	-5.70	1.33	1.37
85	AA	2228	G	C5-C4	-5.70	1.34	1.38
34	BA	672	G	C2-N2	-5.70	1.28	1.34
35	BB	9	G	O3'-P	-5.70	1.54	1.61
35	BB	619	A	C1'-N9	-5.70	1.38	1.46
35	BB	876	G	O3'-P	-5.70	1.54	1.61
35	BB	878	G	N9-C4	-5.70	1.33	1.38
35	BB	1054	G	C1'-N9	-5.70	1.38	1.46
35	BB	1210	U	O3'-P	-5.70	1.54	1.61
35	BB	1254	G	O3'-P	-5.70	1.54	1.61
36	BC	5	U	N1-C2	-5.70	1.33	1.38
37	BD	1	G	N1-C2	-5.70	1.33	1.37
41	BH	52	G	C4'-C3'	-5.70	1.46	1.52
85	AA	687	G	C2-N2	-5.70	1.28	1.34
85	AA	929	G	C8-N7	-5.70	1.27	1.30
34	BA	1481	U	P-O5'	-5.70	1.54	1.59
34	BA	1699	A	C3'-C2'	-5.70	1.46	1.52
35	BB	713	U	C2'-C1'	-5.70	1.47	1.53
35	BB	1314	G	C2'-C1'	-5.70	1.47	1.53
35	BB	1398	A	C2'-C1'	-5.70	1.47	1.53
38	BE	199	A	N9-C8	-5.70	1.33	1.37
40	BG	51	U	O3'-P	-5.70	1.54	1.61
85	AA	367	A	C8-N7	-5.70	1.27	1.31
85	AA	543	A	C1'-N9	-5.70	1.38	1.46
85	AA	1675	U	C2'-C1'	-5.70	1.47	1.53
85	AA	2187	G	C1'-N9	-5.70	1.38	1.46
34	BA	1302	C	C4-N4	-5.69	1.28	1.33
34	BA	1413	G	C2-N2	-5.69	1.28	1.34
34	BA	1543	A	N3-C4	-5.69	1.31	1.34
35	BB	134	G	C5-C4	-5.69	1.34	1.38
35	BB	663	G	C5-C4	-5.69	1.34	1.38
85	AA	672	U	C3'-C2'	-5.69	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	993	G	C5-C4	-5.69	1.34	1.38
85	AA	1246	G	C5-C4	-5.69	1.34	1.38
85	AA	1263	G	C8-N7	-5.69	1.27	1.30
85	AA	2006	G	C3'-C2'	-5.69	1.46	1.52
34	BA	941	G	C4'-C3'	-5.69	1.46	1.52
34	BA	1023	G	C8-N7	-5.69	1.27	1.30
34	BA	1039	G	N1-C2	-5.69	1.33	1.37
34	BA	1211	G	C5-C6	-5.69	1.36	1.42
34	BA	1286	C	C4-N4	-5.69	1.28	1.33
35	BB	1341	U	C3'-C2'	-5.69	1.46	1.52
35	BB	1489	A	N7-C5	-5.69	1.35	1.39
36	BC	63	G	C2'-C1'	-5.69	1.47	1.53
38	BE	196	C	C3'-C2'	-5.69	1.46	1.52
40	BG	148	C	C2-N3	-5.69	1.31	1.35
41	BH	57	A	O3'-P	-5.69	1.54	1.61
41	BH	107	A	C6-N1	-5.69	1.31	1.35
85	AA	435	A	N3-C4	-5.69	1.31	1.34
85	AA	2096	G	C1'-N9	-5.69	1.38	1.46
34	BA	519	G	N9-C8	-5.69	1.33	1.37
34	BA	525	A	P-O5'	-5.69	1.54	1.59
34	BA	801	U	N3-C4	-5.69	1.33	1.38
34	BA	1006	G	O4'-C1'	-5.69	1.34	1.41
34	BA	1449	U	N1-C2	-5.69	1.33	1.38
34	BA	1808	A	C5'-C4'	-5.69	1.44	1.51
35	BB	463	C	C2-N3	-5.69	1.31	1.35
35	BB	584	A	C3'-C2'	-5.69	1.46	1.52
35	BB	786	A	N3-C4	-5.69	1.31	1.34
35	BB	855	G	P-O5'	-5.69	1.54	1.59
35	BB	1257	A	N7-C5	-5.69	1.35	1.39
36	BC	26	U	N3-C4	-5.69	1.33	1.38
36	BC	160	C	C1'-N1	-5.69	1.38	1.46
38	BE	147	G	C2'-C1'	-5.69	1.47	1.53
41	BH	40	C	C4-N4	-5.69	1.28	1.33
65	Bf	139	GLY	CA-C	-5.69	1.42	1.51
85	AA	94	C	N1-C6	-5.69	1.33	1.37
85	AA	156	G	O3'-P	-5.69	1.54	1.61
85	AA	1549	G	C2-N2	-5.69	1.28	1.34
85	AA	2238	C	C1'-N1	-5.69	1.38	1.46
34	BA	233	U	C3'-C2'	-5.69	1.46	1.52
34	BA	783	U	C3'-C2'	-5.69	1.46	1.52
34	BA	1643	U	N1-C2	-5.69	1.33	1.38
34	BA	1814	U	C4'-C3'	-5.69	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	509	A	C2'-C1'	-5.69	1.47	1.53
40	BG	177	U	C1'-N1	-5.69	1.38	1.46
85	AA	130	G	C6-N1	-5.69	1.35	1.39
85	AA	166	C	C3'-C2'	-5.69	1.46	1.52
34	BA	167	U	C3'-C2'	-5.69	1.46	1.52
34	BA	762	A	C5-C4	-5.69	1.34	1.38
34	BA	941	G	N1-C2	-5.69	1.33	1.37
34	BA	1035	A	C2'-C1'	-5.69	1.47	1.53
34	BA	1141	C	C3'-C2'	-5.69	1.46	1.52
34	BA	1313	U	C4'-C3'	-5.69	1.46	1.52
34	BA	1661	U	C2'-C1'	-5.69	1.47	1.53
35	BB	79	U	N3-C4	-5.69	1.33	1.38
35	BB	402	G	C3'-C2'	-5.69	1.46	1.52
35	BB	470	C	P-O5'	-5.69	1.54	1.59
35	BB	1061	G	C2-N2	-5.69	1.28	1.34
36	BC	31	A	N3-C4	-5.69	1.31	1.34
36	BC	103	A	N7-C5	-5.69	1.35	1.39
37	BD	98	G	C2-N2	-5.69	1.28	1.34
40	BG	150	A	C5-C4	-5.69	1.34	1.38
85	AA	252	G	C5-C4	-5.69	1.34	1.38
85	AA	678	A	O3'-P	-5.69	1.54	1.61
85	AA	708	G	N3-C4	-5.69	1.31	1.35
85	AA	984	A	C3'-C2'	-5.69	1.46	1.52
85	AA	1199	C	C3'-C2'	-5.69	1.46	1.52
34	BA	478	G	C5-C4	-5.69	1.34	1.38
34	BA	1116	G	N1-C2	-5.69	1.33	1.37
34	BA	1651	C	C4'-C3'	-5.69	1.46	1.52
35	BB	99	G	O3'-P	-5.69	1.54	1.61
35	BB	671	A	C5'-C4'	5.69	1.58	1.51
36	BC	9	G	N9-C4	-5.69	1.33	1.38
85	AA	625	G	C3'-C2'	-5.69	1.46	1.52
85	AA	1633	A	C1'-N9	-5.69	1.38	1.46
85	AA	2135	A	C1'-N9	-5.69	1.38	1.46
34	BA	228	A	O3'-P	-5.68	1.54	1.61
34	BA	388	A	C6-N1	-5.68	1.31	1.35
34	BA	967	C	C2-N3	-5.68	1.31	1.35
34	BA	1048	C	C3'-C2'	-5.68	1.46	1.52
34	BA	1578	A	O4'-C1'	-5.68	1.34	1.41
34	BA	1692	U	N3-C4	-5.68	1.33	1.38
35	BB	11	A	C5-C4	-5.68	1.34	1.38
35	BB	43	G	C8-N7	-5.68	1.27	1.30
35	BB	421	U	N3-C4	-5.68	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	459	U	C2-N3	-5.68	1.33	1.37
35	BB	484	G	N1-C2	-5.68	1.33	1.37
35	BB	656	A	O3'-P	-5.68	1.54	1.61
35	BB	699	U	O3'-P	-5.68	1.54	1.61
35	BB	830	G	C6-N1	-5.68	1.35	1.39
35	BB	1068	G	C1'-N9	-5.68	1.38	1.46
37	BD	8	A	C5-C4	-5.68	1.34	1.38
38	BE	140	G	N7-C5	-5.68	1.35	1.39
40	BG	143	C	N1-C6	-5.68	1.33	1.37
85	AA	622	G	P-O5'	-5.68	1.54	1.59
85	AA	976	G	C5-C4	-5.68	1.34	1.38
34	BA	90	G	N9-C4	-5.68	1.33	1.38
34	BA	547	C	C2'-O2'	-5.68	1.34	1.41
34	BA	1547	G	C2-N2	-5.68	1.28	1.34
34	BA	1605	G	O4'-C1'	-5.68	1.34	1.41
35	BB	20	U	C3'-C2'	-5.68	1.46	1.52
35	BB	475	A	O3'-P	-5.68	1.54	1.61
35	BB	658	G	C2-N2	-5.68	1.28	1.34
35	BB	830	G	C4'-C3'	-5.68	1.46	1.52
35	BB	1453	G	N9-C8	-5.68	1.33	1.37
38	BE	43	A	O3'-P	-5.68	1.54	1.61
41	BH	59	G	C2-N2	-5.68	1.28	1.34
85	AA	68	A	C1'-N9	-5.68	1.38	1.46
85	AA	515	C	C4'-O4'	-5.68	1.38	1.45
85	AA	579	U	P-O5'	-5.68	1.54	1.59
85	AA	678	A	N9-C4	-5.68	1.34	1.37
85	AA	932	A	C2'-C1'	-5.68	1.47	1.53
85	AA	1178	A	P-O5'	-5.68	1.54	1.59
85	AA	1621	U	O3'-P	-5.68	1.54	1.61
85	AA	2114	U	C2-N3	-5.68	1.33	1.37
34	BA	925	G	C2'-C1'	-5.68	1.47	1.53
35	BB	67	A	N9-C4	-5.68	1.34	1.37
35	BB	377	A	C5-C4	-5.68	1.34	1.38
36	BC	53	A	C4'-C3'	-5.68	1.46	1.52
40	BG	178	G	C1'-N9	-5.68	1.38	1.46
85	AA	639	C	C4'-O4'	-5.68	1.38	1.45
85	AA	709	A	N9-C8	-5.68	1.33	1.37
85	AA	1062	U	P-O5'	-5.68	1.54	1.59
34	BA	250	G	C5'-C4'	5.68	1.58	1.51
34	BA	414	A	C6-N6	-5.68	1.29	1.33
34	BA	564	C	N1-C6	-5.68	1.33	1.37
34	BA	767	U	N1-C2	-5.68	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1072	U	C1'-N1	-5.68	1.38	1.46
34	BA	1301	G	N1-C2	-5.68	1.33	1.37
34	BA	1435	A	O4'-C1'	-5.68	1.34	1.41
35	BB	1053	G	N1-C2	-5.68	1.33	1.37
35	BB	1291	G	C2'-C1'	-5.68	1.47	1.53
36	BC	52	A	C3'-O3'	-5.68	1.34	1.42
36	BC	103	A	P-O5'	-5.68	1.54	1.59
38	BE	161	G	O3'-P	-5.68	1.54	1.61
85	AA	70	U	C1'-N1	-5.68	1.38	1.46
85	AA	1189	A	C5-C4	-5.68	1.34	1.38
85	AA	1458	G	C5-C4	-5.68	1.34	1.38
34	BA	36	A	C5-C4	-5.68	1.34	1.38
35	BB	527	U	C4-C5	-5.68	1.38	1.43
35	BB	1344	U	N3-C4	-5.68	1.33	1.38
85	AA	1111	A	P-O5'	-5.68	1.54	1.59
85	AA	1174	G	C2'-C1'	-5.68	1.47	1.53
34	BA	50	G	O3'-P	-5.68	1.54	1.61
34	BA	245	U	N3-C4	-5.68	1.33	1.38
34	BA	398	G	C1'-N9	-5.68	1.39	1.46
34	BA	1364	G	P-O5'	-5.68	1.54	1.59
34	BA	1425	G	C8-N7	-5.68	1.27	1.30
35	BB	416	U	C2'-C1'	-5.68	1.47	1.53
35	BB	568	A	C1'-N9	-5.68	1.39	1.46
35	BB	1103	A	N9-C4	-5.68	1.34	1.37
35	BB	1119	G	C4'-C3'	-5.68	1.46	1.52
38	BE	96	G	N9-C8	-5.68	1.33	1.37
38	BE	138	U	C2'-C1'	-5.68	1.47	1.53
40	BG	111	C	C2-N3	-5.68	1.31	1.35
85	AA	910	G	N1-C2	-5.68	1.33	1.37
85	AA	1532	G	C2'-C1'	-5.68	1.47	1.53
85	AA	1652	A	P-O5'	-5.68	1.54	1.59
34	BA	471	U	C5'-C4'	-5.67	1.44	1.51
34	BA	734	G	C1'-N9	-5.67	1.39	1.46
34	BA	820	C	C1'-N1	-5.67	1.39	1.46
34	BA	1556	A	N7-C5	-5.67	1.35	1.39
34	BA	1847	G	N7-C5	-5.67	1.35	1.39
35	BB	620	G	C2-N2	-5.67	1.28	1.34
35	BB	1247	C	O3'-P	-5.67	1.54	1.61
35	BB	1409	G	C1'-N9	-5.67	1.39	1.46
36	BC	67	U	N3-C4	-5.67	1.33	1.38
37	BD	57	C	C3'-C2'	-5.67	1.46	1.52
38	BE	7	U	N1-C6	-5.67	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	25	A	N7-C5	-5.67	1.35	1.39
85	AA	637	U	N1-C2	-5.67	1.33	1.38
85	AA	993	G	P-O5'	-5.67	1.54	1.59
85	AA	1496	U	C2'-C1'	-5.67	1.47	1.53
85	AA	1586	C	O3'-P	-5.67	1.54	1.61
85	AA	1995	U	O3'-P	-5.67	1.54	1.61
85	AA	2163	G	C2'-C1'	-5.67	1.47	1.53
34	BA	1290	A	O3'-P	-5.67	1.54	1.61
34	BA	320	G	C1'-N9	-5.67	1.39	1.46
34	BA	457	A	N7-C5	-5.67	1.35	1.39
34	BA	1013	A	P-O5'	-5.67	1.54	1.59
34	BA	1229	G	N3-C4	-5.67	1.31	1.35
34	BA	1323	G	N9-C8	-5.67	1.33	1.37
34	BA	1581	G	C3'-C2'	5.67	1.59	1.52
34	BA	1653	G	C6-N1	-5.67	1.35	1.39
35	BB	1251	G	C3'-C2'	-5.67	1.46	1.52
38	BE	90	G	C2-N2	-5.67	1.28	1.34
40	BG	137	G	C2-N2	-5.67	1.28	1.34
40	BG	173	C	C3'-C2'	-5.67	1.46	1.52
85	AA	82	A	C3'-C2'	-5.67	1.46	1.52
85	AA	418	G	N9-C4	-5.67	1.33	1.38
85	AA	565	G	O3'-P	-5.67	1.54	1.61
85	AA	926	C	C2-N3	-5.67	1.31	1.35
85	AA	1719	C	C4-N4	-5.67	1.28	1.33
85	AA	1911	A	N9-C4	-5.67	1.34	1.37
34	BA	8	G	C6-N1	-5.67	1.35	1.39
34	BA	1475	G	N9-C8	-5.67	1.33	1.37
34	BA	1658	G	C1'-N9	-5.67	1.39	1.46
35	BB	562	A	C4'-O4'	-5.67	1.38	1.45
35	BB	1136	G	O4'-C1'	-5.67	1.34	1.41
40	BG	40	G	C5-C4	-5.67	1.34	1.38
85	AA	642	G	C2'-C1'	-5.67	1.47	1.53
85	AA	1897	A	N9-C4	5.67	1.41	1.37
34	BA	293	A	N3-C4	-5.67	1.31	1.34
34	BA	375	C	C2-N3	-5.67	1.31	1.35
34	BA	1323	G	N3-C4	-5.67	1.31	1.35
34	BA	1817	G	C2-N2	-5.67	1.28	1.34
35	BB	473	U	P-O5'	-5.67	1.54	1.59
35	BB	707	G	C6-N1	-5.67	1.35	1.39
35	BB	842	G	C6-N1	-5.67	1.35	1.39
35	BB	1116	U	O3'-P	-5.67	1.54	1.61
35	BB	1364	C	C1'-N1	-5.67	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1500	U	C2-N3	-5.67	1.33	1.37
35	BB	1509	G	C4'-C3'	-5.67	1.46	1.52
38	BE	192	A	N3-C4	-5.67	1.31	1.34
85	AA	195	C	C2'-C1'	-5.67	1.47	1.53
85	AA	1435	C	C4-N4	-5.67	1.28	1.33
85	AA	2040	A	N9-C4	-5.67	1.34	1.37
85	AA	2083	G	C4'-O4'	-5.67	1.38	1.45
85	AA	2113	U	O3'-P	-5.67	1.54	1.61
34	BA	144	C	N1-C6	-5.67	1.33	1.37
34	BA	673	U	C4'-C3'	5.67	1.59	1.53
34	BA	702	G	C1'-N9	-5.67	1.39	1.46
34	BA	928	C	O3'-P	-5.67	1.54	1.61
34	BA	983	A	C5-C4	-5.67	1.34	1.38
34	BA	1604	A	C5-C4	-5.67	1.34	1.38
34	BA	1691	G	C2'-C1'	-5.67	1.47	1.53
34	BA	1847	G	N9-C4	-5.67	1.33	1.38
35	BB	562	A	C1'-N9	-5.67	1.39	1.46
35	BB	751	A	P-O5'	-5.67	1.54	1.59
35	BB	765	G	C2'-C1'	-5.67	1.47	1.53
35	BB	1061	G	N1-C2	-5.67	1.33	1.37
35	BB	1154	C	C2'-C1'	-5.67	1.47	1.53
35	BB	1179	C	C2'-C1'	-5.67	1.47	1.53
35	BB	1388	A	C5'-C4'	-5.67	1.44	1.51
40	BG	66	C	C4'-O4'	-5.67	1.38	1.45
42	BI	49	HIS	CB-CG	-5.67	1.39	1.50
85	AA	487	G	C2-N2	-5.67	1.28	1.34
85	AA	625	G	O3'-P	-5.67	1.54	1.61
85	AA	1298	G	C2'-C1'	-5.67	1.47	1.53
85	AA	2051	G	O3'-P	-5.67	1.54	1.61
85	AA	2196	G	C2-N2	-5.67	1.28	1.34
34	BA	810	A	C5-C4	-5.67	1.34	1.38
34	BA	1260	G	C5'-C4'	-5.67	1.44	1.51
40	BG	115	C	C2'-C1'	-5.67	1.47	1.53
85	AA	257	U	C2'-C1'	-5.67	1.47	1.53
85	AA	1848	G	C2-N2	-5.67	1.28	1.34
7	A6	18	PHE	CB-CG	-5.66	1.41	1.51
34	BA	278	U	C3'-C2'	-5.66	1.46	1.52
34	BA	649	A	N9-C4	-5.66	1.34	1.37
34	BA	1097	G	N9-C8	-5.66	1.33	1.37
34	BA	1103	G	N9-C8	-5.66	1.33	1.37
34	BA	1643	U	C3'-C2'	-5.66	1.46	1.52
34	BA	1706	A	C4'-C3'	5.66	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1739	G	P-O5'	-5.66	1.54	1.59
35	BB	649	A	C3'-C2'	-5.66	1.46	1.52
35	BB	1095	G	N1-C2	-5.66	1.33	1.37
35	BB	1361	A	O3'-P	-5.66	1.54	1.61
35	BB	1408	G	N3-C4	-5.66	1.31	1.35
36	BC	109	A	C2'-C1'	-5.66	1.47	1.53
36	BC	115	G	N1-C2	-5.66	1.33	1.37
37	BD	119	U	P-O5'	-5.66	1.54	1.59
41	BH	48	G	C6-N1	-5.66	1.35	1.39
41	BH	75	G	N3-C4	-5.66	1.31	1.35
85	AA	16	G	N9-C4	-5.66	1.33	1.38
85	AA	76	G	N9-C4	-5.66	1.33	1.38
85	AA	247	G	N7-C5	-5.66	1.35	1.39
85	AA	267	U	C5'-C4'	5.66	1.58	1.51
85	AA	299	A	C5-C4	-5.66	1.34	1.38
85	AA	646	C	C2-N3	-5.66	1.31	1.35
85	AA	808	A	N7-C5	-5.66	1.35	1.39
34	BA	3	G	C2-N2	-5.66	1.28	1.34
34	BA	32	A	C1'-N9	-5.66	1.39	1.46
34	BA	108	A	C5-C4	-5.66	1.34	1.38
34	BA	183	G	C5-C4	-5.66	1.34	1.38
34	BA	381	A	C2'-C1'	-5.66	1.47	1.53
34	BA	1056	C	C2'-C1'	-5.66	1.47	1.53
34	BA	1138	C	C3'-C2'	-5.66	1.46	1.52
34	BA	1274	A	C5-C6	-5.66	1.35	1.41
34	BA	1365	U	O3'-P	-5.66	1.54	1.61
35	BB	425	G	P-O5'	-5.66	1.54	1.59
35	BB	716	G	N9-C4	5.66	1.42	1.38
37	BD	32	A	C2'-C1'	-5.66	1.47	1.53
85	AA	1102	C	C2'-C1'	-5.66	1.47	1.53
85	AA	1467	U	N1-C2	-5.66	1.33	1.38
85	AA	1505	G	O3'-P	-5.66	1.54	1.61
34	BA	255	G	C6-N1	-5.66	1.35	1.39
34	BA	366	G	C2-N2	-5.66	1.28	1.34
34	BA	803	U	N3-C4	-5.66	1.33	1.38
34	BA	1001	G	C3'-C2'	-5.66	1.46	1.52
35	BB	130	G	C2-N2	-5.66	1.28	1.34
35	BB	585	U	C3'-C2'	-5.66	1.46	1.52
35	BB	1286	G	N3-C4	-5.66	1.31	1.35
85	AA	229	U	C2-N3	-5.66	1.33	1.37
85	AA	691	U	C3'-C2'	-5.66	1.46	1.52
85	AA	986	U	C3'-C2'	-5.66	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1925	A	N3-C4	-5.66	1.31	1.34
34	BA	146	G	N9-C8	-5.66	1.33	1.37
34	BA	213	A	C5-C4	-5.66	1.34	1.38
34	BA	339	G	N9-C8	-5.66	1.33	1.37
34	BA	409	A	C1'-N9	-5.66	1.39	1.46
34	BA	571	G	N9-C8	5.66	1.41	1.37
34	BA	682	A	C2'-C1'	-5.66	1.47	1.53
34	BA	850	C	C4-N4	-5.66	1.28	1.33
34	BA	953	G	O4'-C1'	-5.66	1.34	1.41
34	BA	996	U	P-O5'	-5.66	1.54	1.59
34	BA	1589	U	C2'-C1'	-5.66	1.47	1.53
34	BA	1646	U	C4'-O4'	-5.66	1.38	1.45
35	BB	402	G	N1-C2	-5.66	1.33	1.37
35	BB	1021	C	C2-N3	-5.66	1.31	1.35
35	BB	1287	U	O3'-P	-5.66	1.54	1.61
35	BB	1450	G	C1'-N9	-5.66	1.39	1.46
36	BC	64	U	C3'-C2'	-5.66	1.46	1.52
39	BF	45	G	N1-C2	-5.66	1.33	1.37
40	BG	142	A	N9-C8	-5.66	1.33	1.37
41	BH	70	U	C2'-C1'	-5.66	1.47	1.53
85	AA	348	G	P-O5'	-5.66	1.54	1.59
85	AA	532	G	C2-N3	-5.66	1.28	1.32
85	AA	1809	G	C2-N2	-5.66	1.28	1.34
34	BA	1044	A	C5-C4	-5.66	1.34	1.38
34	BA	1172	C	C1'-N1	-5.66	1.39	1.46
34	BA	1302	C	C2-N3	-5.66	1.31	1.35
35	BB	58	G	N7-C5	-5.66	1.35	1.39
35	BB	584	A	N3-C4	-5.66	1.31	1.34
36	BC	160	C	C4'-O4'	-5.66	1.38	1.45
85	AA	1490	A	C4'-O4'	-5.66	1.38	1.45
85	AA	2175	U	C4'-C3'	-5.66	1.46	1.52
34	BA	197	A	N7-C5	-5.66	1.35	1.39
34	BA	1704	G	C2-N2	-5.66	1.28	1.34
34	BA	1841	A	C5-C4	-5.66	1.34	1.38
35	BB	255	A	C5'-C4'	5.66	1.58	1.51
35	BB	646	U	C2-N3	-5.66	1.33	1.37
35	BB	828	G	C5-C4	-5.66	1.34	1.38
35	BB	1155	U	C1'-N1	-5.66	1.39	1.46
35	BB	1189	C	N1-C6	-5.66	1.33	1.37
36	BC	67	U	C2'-C1'	-5.66	1.47	1.53
38	BE	88	G	C1'-N9	-5.66	1.39	1.46
38	BE	129	G	N9-C8	-5.66	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	59	G	C8-N7	-5.66	1.27	1.30
64	Be	113	VAL	CA-C	-5.66	1.38	1.52
85	AA	749	C	C2'-C1'	-5.66	1.47	1.53
85	AA	773	G	N9-C8	-5.66	1.33	1.37
85	AA	1596	A	O3'-P	-5.66	1.54	1.61
85	AA	1999	C	O3'-P	-5.66	1.54	1.61
85	AA	2235	C	C3'-C2'	-5.66	1.46	1.52
34	BA	268	U	C2-N3	-5.65	1.33	1.37
34	BA	454	G	N3-C4	-5.65	1.31	1.35
34	BA	868	C	C4'-O4'	5.65	1.52	1.45
35	BB	1336	G	O3'-P	-5.65	1.54	1.61
36	BC	118	U	C2'-C1'	-5.65	1.47	1.53
40	BG	164	U	C4'-C3'	-5.65	1.46	1.52
85	AA	21	U	C3'-C2'	-5.65	1.46	1.52
85	AA	1185	G	C2-N2	-5.65	1.28	1.34
34	BA	15	G	C2'-C1'	-5.65	1.47	1.53
34	BA	63	A	P-O5'	-5.65	1.54	1.59
34	BA	155	U	N3-C4	-5.65	1.33	1.38
34	BA	273	G	C6-N1	-5.65	1.35	1.39
34	BA	986	G	C2-N2	-5.65	1.28	1.34
34	BA	1723	U	N3-C4	-5.65	1.33	1.38
35	BB	1108	G	C2-N2	-5.65	1.28	1.34
37	BD	99	G	P-O5'	-5.65	1.54	1.59
38	BE	85	G	C2'-C1'	-5.65	1.47	1.53
39	BF	32	G	N9-C8	-5.65	1.33	1.37
41	BH	118	U	C4'-O4'	-5.65	1.38	1.45
85	AA	20	G	C5'-C4'	-5.65	1.44	1.51
85	AA	316	C	C2'-C1'	-5.65	1.47	1.53
85	AA	442	G	P-O5'	-5.65	1.54	1.59
85	AA	1241	A	N3-C4	-5.65	1.31	1.34
85	AA	1357	U	C2'-C1'	-5.65	1.47	1.53
85	AA	1795	C	P-O5'	-5.65	1.54	1.59
85	AA	2062	U	C4'-O4'	-5.65	1.38	1.45
34	BA	314	A	C2'-C1'	5.65	1.59	1.53
34	BA	542	A	C4'-C3'	-5.65	1.46	1.52
34	BA	979	G	C5-C4	-5.65	1.34	1.38
34	BA	1011	G	C3'-C2'	-5.65	1.46	1.52
34	BA	1145	U	C3'-C2'	-5.65	1.46	1.52
34	BA	1261	G	O3'-P	-5.65	1.54	1.61
36	BC	7	U	O3'-P	-5.65	1.54	1.61
37	BD	95	G	N9-C8	-5.65	1.33	1.37
38	BE	60	C	C4'-C3'	-5.65	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	109	C	C5'-C4'	5.65	1.58	1.51
38	BE	149	A	C2'-C1'	-5.65	1.47	1.53
38	BE	154	A	C2'-C1'	-5.65	1.47	1.53
38	BE	208	G	C5'-C4'	5.65	1.58	1.51
39	BF	48	G	C3'-C2'	-5.65	1.46	1.52
41	BH	2	U	C2-N3	-5.65	1.33	1.37
63	Bd	17	HIS	CB-CG	-5.65	1.39	1.50
85	AA	181	A	C8-N7	-5.65	1.27	1.31
85	AA	456	A	C4'-O4'	-5.65	1.38	1.45
85	AA	493	A	O4'-C1'	-5.65	1.34	1.41
85	AA	1192	C	O3'-P	-5.65	1.54	1.61
85	AA	1199	C	C1'-N1	-5.65	1.39	1.46
85	AA	1504	A	N3-C4	-5.65	1.31	1.34
85	AA	1520	A	C8-N7	-5.65	1.27	1.31
85	AA	2086	C	C4-C5	-5.65	1.38	1.43
85	AA	2138	G	C3'-C2'	-5.65	1.46	1.52
34	BA	234	A	C5-C4	-5.65	1.34	1.38
34	BA	1239	G	N7-C5	-5.65	1.35	1.39
34	BA	1286	C	N3-C4	-5.65	1.29	1.33
35	BB	373	C	N3-C4	-5.65	1.29	1.33
40	BG	1	G	C5-C4	-5.65	1.34	1.38
41	BH	74	G	N7-C5	5.65	1.42	1.39
85	AA	1557	U	O4'-C1'	-5.65	1.34	1.41
85	AA	1846	G	O3'-P	-5.65	1.54	1.61
34	BA	1050	A	N3-C4	-5.65	1.31	1.34
34	BA	1560	U	C4'-C3'	-5.65	1.47	1.52
34	BA	1640	G	N7-C5	-5.65	1.35	1.39
35	BB	58	G	C2-N2	-5.65	1.28	1.34
35	BB	1108	G	P-O5'	-5.65	1.54	1.59
36	BC	94	C	C2'-C1'	-5.65	1.47	1.53
36	BC	149	A	C2'-C1'	-5.65	1.47	1.53
38	BE	203	C	C2-N3	-5.65	1.31	1.35
39	BF	23	G	C6-N1	-5.65	1.35	1.39
40	BG	46	G	C5-C4	-5.65	1.34	1.38
47	BN	113	GLY	CA-C	-5.65	1.42	1.51
85	AA	278	C	O3'-P	-5.65	1.54	1.61
85	AA	1092	G	P-O5'	-5.65	1.54	1.59
85	AA	1134	G	C2-N2	-5.65	1.28	1.34
85	AA	1672	G	C3'-C2'	-5.65	1.46	1.52
34	BA	91	C	C1'-N1	-5.65	1.39	1.46
34	BA	387	A	C6-N1	-5.65	1.31	1.35
34	BA	1123	G	C6-N1	-5.65	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1562	G	C2-N2	-5.65	1.28	1.34
34	BA	1639	U	O4'-C1'	-5.65	1.34	1.41
40	BG	132	U	N1-C2	-5.65	1.33	1.38
85	AA	1517	G	N7-C5	-5.65	1.35	1.39
34	BA	88	C	N3-C4	-5.64	1.29	1.33
34	BA	957	A	C3'-C2'	-5.64	1.46	1.52
34	BA	1378	A	N9-C4	-5.64	1.34	1.37
34	BA	1784	G	C2'-C1'	-5.64	1.47	1.53
35	BB	449	C	O3'-P	-5.64	1.54	1.61
35	BB	487	A	O4'-C1'	-5.64	1.34	1.41
35	BB	548	A	N3-C4	-5.64	1.31	1.34
35	BB	826	G	C3'-C2'	-5.64	1.46	1.52
35	BB	997	G	C2'-C1'	-5.64	1.47	1.53
35	BB	1095	G	O3'-P	-5.64	1.54	1.61
35	BB	1221	G	N3-C4	-5.64	1.31	1.35
35	BB	1313	C	N1-C6	-5.64	1.33	1.37
36	BC	18	G	C1'-N9	-5.64	1.39	1.46
36	BC	19	A	C8-N7	-5.64	1.27	1.31
38	BE	202	C	C2-N3	-5.64	1.31	1.35
39	BF	56	C	C5'-C4'	-5.64	1.44	1.51
40	BG	14	G	O4'-C1'	-5.64	1.34	1.41
85	AA	93	G	C2'-C1'	-5.64	1.47	1.53
85	AA	887	A	O3'-P	-5.64	1.54	1.61
85	AA	1683	U	O3'-P	-5.64	1.54	1.61
85	AA	1879	U	C2-N3	-5.64	1.33	1.37
85	AA	1913	G	N7-C5	-5.64	1.35	1.39
34	BA	805	A	N9-C8	-5.64	1.33	1.37
34	BA	970	U	C3'-C2'	-5.64	1.46	1.52
34	BA	1182	U	P-O5'	-5.64	1.54	1.59
34	BA	1806	A	N7-C5	-5.64	1.35	1.39
35	BB	565	U	C2-N3	-5.64	1.33	1.37
35	BB	1161	G	C3'-C2'	-5.64	1.46	1.52
35	BB	1423	U	N3-C4	-5.64	1.33	1.38
35	BB	1514	G	C3'-C2'	-5.64	1.46	1.52
35	BB	1518	U	C2'-C1'	-5.64	1.47	1.53
36	BC	148	C	C2'-C1'	-5.64	1.47	1.53
37	BD	93	G	N9-C8	-5.64	1.33	1.37
40	BG	56	G	N7-C5	-5.64	1.35	1.39
41	BH	15	A	C1'-N9	-5.64	1.39	1.46
85	AA	440	U	C1'-N1	-5.64	1.39	1.46
85	AA	465	A	O3'-P	-5.64	1.54	1.61
85	AA	649	C	C3'-C2'	-5.64	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	865	G	C1'-N9	-5.64	1.39	1.46
85	AA	1529	A	P-O5'	-5.64	1.54	1.59
85	AA	2053	A	N3-C4	-5.64	1.31	1.34
85	AA	2193	A	C5-C4	-5.64	1.34	1.38
34	BA	622	G	O3'-P	-5.64	1.54	1.61
34	BA	930	A	C5-C4	-5.64	1.34	1.38
34	BA	1607	U	C5'-C4'	-5.64	1.44	1.51
34	BA	1616	A	C6-N1	5.64	1.39	1.35
35	BB	61	A	C4'-C3'	-5.64	1.47	1.52
35	BB	1157	G	C2'-C1'	-5.64	1.47	1.53
41	BH	59	G	N7-C5	-5.64	1.35	1.39
85	AA	452	A	O4'-C1'	-5.64	1.34	1.41
85	AA	958	C	O3'-P	-5.64	1.54	1.61
85	AA	1148	G	O3'-P	-5.64	1.54	1.61
85	AA	2125	A	N3-C4	-5.64	1.31	1.34
34	BA	37	A	N7-C5	-5.64	1.35	1.39
34	BA	437	G	C4'-C3'	-5.64	1.47	1.52
34	BA	1193	A	C5-C4	-5.64	1.34	1.38
34	BA	1239	G	C2-N2	-5.64	1.28	1.34
34	BA	1413	G	P-O5'	-5.64	1.54	1.59
34	BA	1601	C	C1'-N1	-5.64	1.39	1.46
35	BB	610	U	O4'-C1'	-5.64	1.34	1.41
36	BC	109	A	C5-C4	-5.64	1.34	1.38
38	BE	12	A	P-O5'	-5.64	1.54	1.59
40	BG	72	G	C2-N2	-5.64	1.28	1.34
40	BG	87	G	N9-C8	-5.64	1.33	1.37
40	BG	110	U	C5'-C4'	5.64	1.58	1.51
85	AA	13	U	O3'-P	-5.64	1.54	1.61
85	AA	418	G	C2-N2	-5.64	1.28	1.34
85	AA	442	G	O4'-C1'	-5.64	1.34	1.41
85	AA	631	G	O4'-C1'	-5.64	1.34	1.41
85	AA	1096	G	O3'-P	-5.64	1.54	1.61
85	AA	1187	G	C3'-C2'	-5.64	1.46	1.52
85	AA	1570	A	C2'-C1'	-5.64	1.47	1.53
35	BB	1033	U	N3-C4	-5.64	1.33	1.38
40	BG	24	A	C5'-C4'	-5.64	1.44	1.51
85	AA	382	G	C6-N1	-5.64	1.35	1.39
85	AA	819	G	N9-C4	5.64	1.42	1.38
34	BA	1804	A	C5-C6	-5.64	1.35	1.41
35	BB	1119	G	C2-N2	-5.64	1.28	1.34
35	BB	1379	U	C2-N3	-5.64	1.33	1.37
39	BF	31	U	C3'-C2'	-5.64	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	157	A	C6-N6	-5.64	1.29	1.33
41	BH	43	G	C6-N1	-5.64	1.35	1.39
85	AA	149	A	C5-C4	-5.64	1.34	1.38
85	AA	421	G	C1'-N9	-5.64	1.39	1.46
85	AA	506	G	N7-C5	-5.64	1.35	1.39
85	AA	1107	A	C3'-C2'	-5.64	1.46	1.52
85	AA	1109	G	C2-N2	-5.64	1.28	1.34
85	AA	1879	U	C3'-C2'	-5.64	1.46	1.52
34	BA	189	G	O3'-P	-5.63	1.54	1.61
34	BA	363	G	C6-N1	-5.63	1.35	1.39
34	BA	768	G	O3'-P	-5.63	1.54	1.61
34	BA	801	U	C3'-C2'	-5.63	1.46	1.52
34	BA	925	G	C3'-C2'	-5.63	1.46	1.52
34	BA	1490	U	C2-N3	-5.63	1.33	1.37
34	BA	1674	G	C6-N1	-5.63	1.35	1.39
35	BB	487	A	N9-C8	-5.63	1.33	1.37
35	BB	493	U	O3'-P	-5.63	1.54	1.61
35	BB	550	G	N7-C5	-5.63	1.35	1.39
35	BB	614	U	C4'-O4'	-5.63	1.38	1.45
35	BB	1109	A	C3'-C2'	-5.63	1.46	1.52
35	BB	1194	A	N3-C4	-5.63	1.31	1.34
36	BC	136	G	C5-C4	-5.63	1.34	1.38
38	BE	12	A	N9-C8	-5.63	1.33	1.37
39	BF	31	U	C4'-C3'	-5.63	1.47	1.52
40	BG	158	A	N7-C5	-5.63	1.35	1.39
41	BH	123	G	C5-C4	-5.63	1.34	1.38
85	AA	1363	U	P-O5'	-5.63	1.54	1.59
85	AA	2056	C	C2-N3	-5.63	1.31	1.35
85	AA	2150	G	N3-C4	-5.63	1.31	1.35
34	BA	89	G	C1'-N9	-5.63	1.39	1.46
34	BA	896	U	C1'-N1	5.63	1.57	1.48
34	BA	1439	C	C2-N3	-5.63	1.31	1.35
34	BA	1502	G	C8-N7	-5.63	1.27	1.30
34	BA	1602	A	C1'-N9	-5.63	1.39	1.46
35	BB	506	G	N1-C2	-5.63	1.33	1.37
35	BB	797	C	C4'-C3'	5.63	1.59	1.53
35	BB	1000	U	P-O5'	-5.63	1.54	1.59
35	BB	1021	C	C3'-C2'	-5.63	1.46	1.52
35	BB	1180	G	C6-N1	-5.63	1.35	1.39
36	BC	38	U	C2-N3	-5.63	1.33	1.37
39	BF	14	C	C4'-O4'	-5.63	1.38	1.45
85	AA	1230	U	C1'-N1	-5.63	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	568	G	C6-N1	-5.63	1.35	1.39
34	BA	773	A	N3-C4	-5.63	1.31	1.34
34	BA	773	A	N7-C5	-5.63	1.35	1.39
35	BB	463	C	C3'-C2'	-5.63	1.46	1.52
35	BB	1254	G	C5-C4	-5.63	1.34	1.38
35	BB	1374	U	C2-N3	-5.63	1.33	1.37
36	BC	19	A	C4'-C3'	-5.63	1.47	1.52
36	BC	118	U	P-O5'	-5.63	1.54	1.59
38	BE	129	G	C2'-C1'	-5.63	1.47	1.53
40	BG	25	G	C2-N2	-5.63	1.28	1.34
40	BG	152	G	C1'-N9	-5.63	1.39	1.46
41	BH	114	G	C5-C4	-5.63	1.34	1.38
85	AA	257	U	O3'-P	-5.63	1.54	1.61
85	AA	371	C	C2-N3	-5.63	1.31	1.35
85	AA	544	A	N9-C4	-5.63	1.34	1.37
85	AA	1040	U	O3'-P	-5.63	1.54	1.61
85	AA	1849	A	P-O5'	-5.63	1.54	1.59
34	BA	681	G	C3'-C2'	5.63	1.59	1.52
35	BB	1216	G	P-O5'	-5.63	1.54	1.59
35	BB	1494	G	N7-C5	-5.63	1.35	1.39
56	BW	73	ARG	CD-NE	5.63	1.56	1.46
85	AA	2042	G	C3'-C2'	-5.63	1.46	1.52
85	AA	2130	G	C4'-C3'	-5.63	1.47	1.52
34	BA	291	C	N1-C6	-5.63	1.33	1.37
34	BA	592	G	C5'-C4'	5.63	1.58	1.51
34	BA	707	C	N1-C6	-5.63	1.33	1.37
34	BA	1215	U	C4'-O4'	-5.63	1.38	1.45
34	BA	1512	C	C4'-O4'	-5.63	1.38	1.45
34	BA	1585	A	N7-C5	-5.63	1.35	1.39
35	BB	69	A	N7-C5	-5.63	1.35	1.39
35	BB	549	U	C4'-C3'	-5.63	1.47	1.52
35	BB	1487	G	O3'-P	-5.63	1.54	1.61
37	BD	58	G	C3'-C2'	-5.63	1.46	1.52
38	BE	43	A	C1'-N9	-5.63	1.39	1.46
85	AA	602	U	N1-C2	-5.63	1.33	1.38
85	AA	683	U	N1-C2	-5.63	1.33	1.38
85	AA	1273	C	C1'-N1	5.63	1.57	1.48
34	BA	184	C	C2-N3	-5.63	1.31	1.35
34	BA	1205	A	C4'-O4'	-5.63	1.38	1.45
34	BA	1382	G	P-O5'	-5.63	1.54	1.59
34	BA	1679	C	C4-N4	-5.63	1.28	1.33
35	BB	87	G	C4'-C3'	-5.63	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	369	A	C2'-C1'	-5.63	1.47	1.53
35	BB	370	A	C2'-C1'	-5.63	1.47	1.53
35	BB	659	C	N1-C6	-5.63	1.33	1.37
35	BB	662	G	C2-N2	-5.63	1.28	1.34
35	BB	1523	U	N3-C4	-5.63	1.33	1.38
85	AA	1112	G	N3-C4	-5.63	1.31	1.35
85	AA	1435	C	P-O5'	-5.63	1.54	1.59
85	AA	1734	A	C5'-C4'	5.63	1.58	1.51
85	AA	2049	U	O3'-P	-5.63	1.54	1.61
85	AA	2200	A	C5-C4	-5.63	1.34	1.38
34	BA	369	A	C4'-O4'	-5.62	1.38	1.45
35	BB	385	C	C2'-C1'	-5.62	1.47	1.53
35	BB	1348	C	C2'-C1'	-5.62	1.47	1.53
85	AA	34	G	C1'-N9	-5.62	1.39	1.46
85	AA	227	A	O3'-P	-5.62	1.54	1.61
34	BA	19	G	O3'-P	-5.62	1.54	1.61
34	BA	57	A	N9-C8	-5.62	1.33	1.37
34	BA	218	G	N9-C4	-5.62	1.33	1.38
34	BA	355	U	N3-C4	-5.62	1.33	1.38
34	BA	714	G	N7-C5	-5.62	1.35	1.39
34	BA	983	A	P-O5'	-5.62	1.54	1.59
34	BA	1194	G	N9-C8	-5.62	1.33	1.37
35	BB	32	C	C4'-O4'	-5.62	1.38	1.45
35	BB	33	A	C8-N7	-5.62	1.27	1.31
35	BB	94	A	C6-N1	-5.62	1.31	1.35
35	BB	102	G	P-O5'	-5.62	1.54	1.59
35	BB	112	G	C2-N2	-5.62	1.28	1.34
35	BB	553	U	C2'-C1'	-5.62	1.47	1.53
35	BB	574	G	N1-C2	-5.62	1.33	1.37
36	BC	98	C	C2'-C1'	-5.62	1.47	1.53
40	BG	30	C	C5'-C4'	-5.62	1.44	1.51
40	BG	162	A	C5-C6	-5.62	1.35	1.41
85	AA	428	G	C8-N7	-5.62	1.27	1.30
85	AA	513	G	C1'-N9	-5.62	1.39	1.46
85	AA	790	A	C1'-N9	-5.62	1.39	1.46
85	AA	1512	U	C2-N3	-5.62	1.33	1.37
85	AA	1542	A	C5-C4	-5.62	1.34	1.38
85	AA	1604	A	P-O5'	-5.62	1.54	1.59
85	AA	2081	A	N9-C8	-5.62	1.33	1.37
34	BA	378	C	C2'-C1'	-5.62	1.47	1.53
34	BA	386	A	C8-N7	-5.62	1.27	1.31
34	BA	482	C	C4'-C3'	-5.62	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	567	U	C3'-C2'	-5.62	1.46	1.52
34	BA	816	G	N7-C5	-5.62	1.35	1.39
34	BA	817	U	C1'-N1	-5.62	1.39	1.46
35	BB	1283	C	C2'-C1'	-5.62	1.47	1.53
37	BD	75	G	C6-N1	-5.62	1.35	1.39
38	BE	64	A	C1'-N9	-5.62	1.39	1.46
85	AA	187	C	N3-C4	5.62	1.37	1.33
85	AA	579	U	C3'-C2'	-5.62	1.46	1.52
85	AA	965	G	O3'-P	-5.62	1.54	1.61
85	AA	977	U	C2-N3	-5.62	1.33	1.37
85	AA	1194	U	N1-C2	-5.62	1.33	1.38
85	AA	1551	G	N9-C4	-5.62	1.33	1.38
85	AA	2108	C	C3'-C2'	-5.62	1.46	1.52
34	BA	284	U	C5'-C4'	5.62	1.58	1.51
34	BA	501	U	C3'-O3'	5.62	1.50	1.42
34	BA	1131	G	O3'-P	-5.62	1.54	1.61
35	BB	423	G	C5-C4	-5.62	1.34	1.38
35	BB	566	A	C6-N1	-5.62	1.31	1.35
35	BB	638	G	C4'-O4'	-5.62	1.38	1.45
35	BB	1050	A	C2'-C1'	-5.62	1.47	1.53
35	BB	1157	G	C5-C4	-5.62	1.34	1.38
35	BB	1464	G	C3'-O3'	5.62	1.50	1.42
85	AA	665	A	C2'-C1'	-5.62	1.47	1.53
85	AA	1121	U	N3-C4	-5.62	1.33	1.38
34	BA	38	G	N1-C2	-5.62	1.33	1.37
34	BA	354	G	C2-N2	-5.62	1.28	1.34
34	BA	480	G	C2-N2	-5.62	1.28	1.34
34	BA	664	C	N1-C6	-5.62	1.33	1.37
34	BA	686	U	N3-C4	-5.62	1.33	1.38
34	BA	1287	G	C6-N1	-5.62	1.35	1.39
34	BA	1465	C	C4-N4	-5.62	1.28	1.33
34	BA	1832	A	C6-N6	-5.62	1.29	1.33
35	BB	82	G	C2-N2	-5.62	1.28	1.34
35	BB	771	U	P-O5'	-5.62	1.54	1.59
35	BB	1103	A	O4'-C1'	-5.62	1.34	1.41
36	BC	109	A	N3-C4	-5.62	1.31	1.34
36	BC	116	C	C5'-C4'	-5.62	1.44	1.51
39	BF	2	G	N7-C5	-5.62	1.35	1.39
64	Be	230	PRO	CA-C	-5.62	1.41	1.52
85	AA	448	G	C2'-C1'	-5.62	1.47	1.53
85	AA	636	G	P-O5'	-5.62	1.54	1.59
85	AA	735	G	C2-N3	5.62	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1254	A	O3'-P	-5.62	1.54	1.61
85	AA	2060	G	C3'-C2'	-5.62	1.46	1.52
34	BA	403	A	N9-C8	-5.62	1.33	1.37
34	BA	825	G	N9-C8	-5.62	1.33	1.37
34	BA	1776	G	C3'-C2'	-5.62	1.46	1.52
35	BB	20	U	O3'-P	-5.62	1.54	1.61
35	BB	1530	U	N3-C4	-5.62	1.33	1.38
38	BE	47	U	P-O5'	-5.62	1.54	1.59
85	AA	184	A	O3'-P	-5.62	1.54	1.61
34	BA	95	C	N3-C4	-5.62	1.30	1.33
34	BA	241	U	C2'-C1'	-5.62	1.47	1.53
34	BA	800	G	N9-C4	5.62	1.42	1.38
34	BA	1076	U	N1-C2	-5.62	1.33	1.38
34	BA	1448	G	P-O5'	-5.62	1.54	1.59
35	BB	580	A	N3-C4	-5.62	1.31	1.34
35	BB	636	G	N1-C2	-5.62	1.33	1.37
35	BB	1043	C	P-O5'	-5.62	1.54	1.59
35	BB	1513	U	O3'-P	-5.62	1.54	1.61
36	BC	51	A	N3-C4	-5.62	1.31	1.34
36	BC	117	A	P-O5'	-5.62	1.54	1.59
39	BF	64	U	C2'-C1'	-5.62	1.47	1.53
41	BH	39	G	C3'-C2'	-5.62	1.46	1.52
85	AA	487	G	C3'-C2'	-5.62	1.46	1.52
85	AA	1002	G	N9-C4	-5.62	1.33	1.38
85	AA	1162	A	N9-C8	-5.62	1.33	1.37
34	BA	14	G	N1-C2	-5.61	1.33	1.37
34	BA	307	C	C1'-N1	-5.61	1.39	1.46
34	BA	1553	G	C2-N2	-5.61	1.28	1.34
35	BB	591	A	N7-C5	-5.61	1.35	1.39
36	BC	168	C	C3'-C2'	-5.61	1.46	1.52
37	BD	101	A	C3'-C2'	-5.61	1.46	1.52
38	BE	52	U	C3'-C2'	-5.61	1.46	1.52
38	BE	117	A	O4'-C1'	-5.61	1.34	1.41
41	BH	47	G	N1-C2	-5.61	1.33	1.37
41	BH	130	G	N1-C2	-5.61	1.33	1.37
85	AA	378	A	O3'-P	-5.61	1.54	1.61
85	AA	629	A	N3-C4	-5.61	1.31	1.34
85	AA	1224	C	C1'-N1	-5.61	1.39	1.46
85	AA	1923	A	C8-N7	-5.61	1.27	1.31
85	AA	2056	C	C2'-C1'	-5.61	1.47	1.53
34	BA	262	A	O3'-P	-5.61	1.54	1.61
34	BA	332	U	C2-N3	-5.61	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	995	A	O3'-P	-5.61	1.54	1.61
34	BA	1061	A	C1'-N9	-5.61	1.39	1.46
35	BB	27	C	C1'-N1	-5.61	1.39	1.46
35	BB	650	A	O3'-P	-5.61	1.54	1.61
35	BB	779	C	C3'-C2'	-5.61	1.46	1.52
35	BB	1239	A	C5-C4	-5.61	1.34	1.38
41	BH	13	C	C1'-N1	-5.61	1.39	1.46
85	AA	160	A	N9-C8	-5.61	1.33	1.37
85	AA	630	A	N3-C4	-5.61	1.31	1.34
85	AA	1508	A	C6-N6	-5.61	1.29	1.33
34	BA	92	G	N7-C5	-5.61	1.35	1.39
34	BA	107	C	P-O5'	-5.61	1.54	1.59
34	BA	191	G	C5-C4	-5.61	1.34	1.38
34	BA	378	C	N1-C6	-5.61	1.33	1.37
34	BA	400	A	O3'-P	-5.61	1.54	1.61
34	BA	925	G	C6-N1	-5.61	1.35	1.39
34	BA	1026	C	C4-N4	-5.61	1.28	1.33
34	BA	1268	C	C2-N3	-5.61	1.31	1.35
35	BB	48	G	C6-N1	-5.61	1.35	1.39
35	BB	996	G	C2'-C1'	-5.61	1.47	1.53
35	BB	1121	A	O3'-P	-5.61	1.54	1.61
35	BB	1342	C	C4-N4	-5.61	1.28	1.33
36	BC	67	U	O3'-P	-5.61	1.54	1.61
36	BC	108	A	C5-C4	-5.61	1.34	1.38
38	BE	93	U	N3-C4	-5.61	1.33	1.38
38	BE	183	C	C4-C5	-5.61	1.38	1.43
85	AA	105	A	P-O5'	-5.61	1.54	1.59
85	AA	359	A	C2'-C1'	-5.61	1.47	1.53
85	AA	393	C	O4'-C1'	-5.61	1.34	1.41
85	AA	1239	C	O3'-P	-5.61	1.54	1.61
85	AA	1564	U	C2'-C1'	-5.61	1.47	1.53
85	AA	1681	G	N7-C5	-5.61	1.35	1.39
85	AA	1845	G	C1'-N9	-5.61	1.39	1.46
85	AA	1924	C	C2'-C1'	-5.61	1.47	1.53
85	AA	2053	A	P-O5'	-5.61	1.54	1.59
34	BA	701	G	C1'-N9	-5.61	1.39	1.46
34	BA	937	G	N7-C5	-5.61	1.35	1.39
34	BA	1667	G	N1-C2	-5.61	1.33	1.37
34	BA	1809	G	N7-C5	-5.61	1.35	1.39
35	BB	1410	G	C2-N2	-5.61	1.28	1.34
37	BD	80	G	N1-C2	-5.61	1.33	1.37
85	AA	94	C	C2'-C1'	-5.61	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	329	G	N1-C2	-5.61	1.33	1.37
34	BA	498	A	C4'-O4'	-5.61	1.38	1.45
34	BA	682	A	O3'-P	-5.61	1.54	1.61
34	BA	772	G	C4'-O4'	5.61	1.52	1.45
34	BA	1615	A	C2'-C1'	-5.61	1.47	1.53
34	BA	1719	G	C1'-N9	-5.61	1.39	1.46
35	BB	1049	G	C1'-N9	-5.61	1.39	1.46
35	BB	1310	C	N1-C6	-5.61	1.33	1.37
36	BC	2	A	N3-C4	-5.61	1.31	1.34
36	BC	97	U	N1-C6	-5.61	1.32	1.38
38	BE	194	A	N3-C4	-5.61	1.31	1.34
41	BH	105	U	O4'-C1'	-5.61	1.34	1.41
85	AA	132	G	O3'-P	-5.61	1.54	1.61
85	AA	505	U	C1'-N1	-5.61	1.39	1.46
85	AA	926	C	C2'-C1'	-5.61	1.47	1.53
85	AA	993	G	C4'-C3'	-5.61	1.47	1.52
86	AB	48	C	P-O5'	-5.61	1.54	1.59
34	BA	81	C	C2'-C1'	-5.61	1.47	1.53
34	BA	121	A	N7-C5	-5.61	1.35	1.39
34	BA	225	A	N7-C5	-5.61	1.35	1.39
34	BA	475	A	C8-N7	-5.61	1.27	1.31
34	BA	798	G	C5-C6	-5.61	1.36	1.42
34	BA	843	G	C5'-C4'	-5.61	1.44	1.51
34	BA	916	A	N7-C5	-5.61	1.35	1.39
34	BA	1221	A	N3-C4	-5.61	1.31	1.34
34	BA	1543	A	C5-C4	-5.61	1.34	1.38
34	BA	1575	U	C2'-C1'	-5.61	1.47	1.53
34	BA	1710	C	C2'-C1'	-5.61	1.47	1.53
35	BB	698	C	C1'-N1	-5.61	1.39	1.46
35	BB	778	A	O4'-C1'	-5.61	1.34	1.41
35	BB	802	G	C2'-C1'	-5.61	1.47	1.53
35	BB	984	U	C4'-C3'	-5.61	1.47	1.52
35	BB	1351	G	C6-N1	-5.61	1.35	1.39
36	BC	28	C	C2'-C1'	-5.61	1.47	1.53
37	BD	55	A	C3'-C2'	-5.61	1.46	1.52
38	BE	113	C	C4-C5	-5.61	1.38	1.43
40	BG	105	A	N9-C8	-5.61	1.33	1.37
40	BG	113	G	N3-C4	-5.61	1.31	1.35
85	AA	293	A	C2'-C1'	-5.61	1.47	1.53
85	AA	631	G	N1-C2	-5.61	1.33	1.37
85	AA	675	A	C3'-C2'	-5.61	1.46	1.52
85	AA	1237	A	C2'-C1'	-5.61	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1489	G	C2'-C1'	-5.61	1.47	1.53
85	AA	1961	U	C2'-C1'	-5.61	1.47	1.53
86	AB	10	G	O3'-P	-5.61	1.54	1.61
34	BA	437	G	N9-C8	-5.60	1.33	1.37
34	BA	900	A	C5-C6	-5.60	1.36	1.41
34	BA	945	A	P-O5'	-5.60	1.54	1.59
34	BA	1037	C	C2-N3	-5.60	1.31	1.35
41	BH	16	A	C8-N7	-5.60	1.27	1.31
41	BH	125	U	O3'-P	-5.60	1.54	1.61
51	BR	83	TRP	C-N	-5.60	1.23	1.34
85	AA	350	U	O3'-P	-5.60	1.54	1.61
85	AA	843	U	P-O5'	-5.60	1.54	1.59
34	BA	933	U	N1-C6	-5.60	1.32	1.38
34	BA	1334	G	C5-C4	-5.60	1.34	1.38
34	BA	1511	C	N1-C6	-5.60	1.33	1.37
35	BB	547	A	N3-C4	-5.60	1.31	1.34
35	BB	867	C	P-O5'	-5.60	1.54	1.59
35	BB	1055	G	C2'-C1'	-5.60	1.47	1.53
35	BB	1436	U	C5'-C4'	5.60	1.58	1.51
85	AA	917	A	N3-C4	-5.60	1.31	1.34
85	AA	1220	A	C3'-C2'	-5.60	1.46	1.52
85	AA	1531	G	N9-C4	-5.60	1.33	1.38
85	AA	2033	C	O3'-P	-5.60	1.54	1.61
34	BA	447	U	C2'-C1'	-5.60	1.47	1.53
34	BA	1301	G	N7-C5	-5.60	1.35	1.39
34	BA	1442	A	C2-N3	5.60	1.38	1.33
36	BC	138	C	C2'-C1'	-5.60	1.47	1.53
38	BE	161	G	C6-N1	-5.60	1.35	1.39
85	AA	860	C	P-O5'	-5.60	1.54	1.59
85	AA	1264	U	C4'-C3'	-5.60	1.47	1.52
85	AA	2000	C	P-O5'	-5.60	1.54	1.59
34	BA	56	G	C5-C6	-5.60	1.36	1.42
34	BA	186	G	C6-N1	-5.60	1.35	1.39
34	BA	474	A	N3-C4	-5.60	1.31	1.34
34	BA	1192	A	C5-C4	-5.60	1.34	1.38
34	BA	1333	G	N1-C2	-5.60	1.33	1.37
34	BA	1455	C	C3'-C2'	-5.60	1.46	1.52
34	BA	1793	G	N9-C8	-5.60	1.33	1.37
35	BB	824	C	C5'-C4'	-5.60	1.44	1.51
35	BB	1322	A	C5-C4	-5.60	1.34	1.38
35	BB	1435	G	C2-N2	-5.60	1.28	1.34
40	BG	141	A	C5-C6	-5.60	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	471	U	C4'-O4'	-5.60	1.38	1.45
85	AA	626	G	C1'-N9	-5.60	1.39	1.46
85	AA	883	A	O4'-C1'	-5.60	1.34	1.41
85	AA	1156	A	P-O5'	-5.60	1.54	1.59
85	AA	2031	C	C3'-C2'	-5.60	1.46	1.52
34	BA	178	C	O3'-P	-5.60	1.54	1.61
34	BA	739	A	O3'-P	-5.60	1.54	1.61
34	BA	785	G	N9-C8	-5.60	1.33	1.37
34	BA	890	G	O4'-C1'	-5.60	1.34	1.41
34	BA	1201	G	C2-N2	-5.60	1.28	1.34
35	BB	750	G	P-O5'	-5.60	1.54	1.59
35	BB	996	G	C3'-C2'	-5.60	1.46	1.52
35	BB	1394	A	P-O5'	-5.60	1.54	1.59
36	BC	159	U	O4'-C1'	-5.60	1.34	1.41
37	BD	72	U	C4'-C3'	-5.60	1.47	1.52
38	BE	124	G	C8-N7	-5.60	1.27	1.30
38	BE	184	G	C5'-C4'	5.60	1.58	1.51
39	BF	26	U	P-O5'	-5.60	1.54	1.59
40	BG	100	G	C6-N1	-5.60	1.35	1.39
34	BA	1517	U	C2'-C1'	-5.60	1.47	1.53
35	BB	396	C	C3'-C2'	-5.60	1.46	1.52
38	BE	127	G	C6-N1	-5.60	1.35	1.39
85	AA	1148	G	N9-C4	-5.60	1.33	1.38
34	BA	244	A	C3'-C2'	-5.59	1.46	1.52
34	BA	427	G	C2-N2	-5.59	1.28	1.34
34	BA	734	G	C5'-C4'	-5.59	1.44	1.51
34	BA	835	U	C4'-C3'	-5.59	1.47	1.52
34	BA	892	C	C2'-C1'	-5.59	1.47	1.53
34	BA	1262	A	C4'-O4'	-5.59	1.38	1.45
35	BB	113	C	C3'-C2'	-5.59	1.46	1.52
35	BB	117	A	C1'-N9	-5.59	1.39	1.46
35	BB	587	A	O3'-P	-5.59	1.54	1.61
35	BB	1191	G	C2'-C1'	-5.59	1.47	1.53
38	BE	2	G	C2-N2	-5.59	1.28	1.34
40	BG	27	C	C4'-C3'	-5.59	1.47	1.52
40	BG	56	G	C2'-C1'	-5.59	1.47	1.53
40	BG	159	A	C2'-C1'	-5.59	1.47	1.53
41	BH	113	G	N7-C5	-5.59	1.35	1.39
64	Be	153	GLY	CA-C	-5.59	1.42	1.51
85	AA	107	A	C4'-C3'	-5.59	1.47	1.52
85	AA	402	G	C5-C6	-5.59	1.36	1.42
85	AA	1119	A	C2'-C1'	-5.59	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1678	U	N1-C2	-5.59	1.33	1.38
85	AA	2060	G	C2-N2	-5.59	1.28	1.34
34	BA	1578	A	O3'-P	-5.59	1.54	1.61
34	BA	1607	U	C2-N3	-5.59	1.33	1.37
35	BB	802	G	C4'-C3'	-5.59	1.47	1.52
35	BB	1271	A	N3-C4	-5.59	1.31	1.34
37	BD	117	U	C3'-C2'	-5.59	1.46	1.52
40	BG	1	G	C2'-C1'	-5.59	1.47	1.53
85	AA	133	G	O3'-P	-5.59	1.54	1.61
85	AA	1671	G	C4'-C3'	-5.59	1.47	1.52
34	BA	4	A	N3-C4	-5.59	1.31	1.34
34	BA	1349	A	O3'-P	-5.59	1.54	1.61
34	BA	1561	C	O3'-P	-5.59	1.54	1.61
35	BB	386	G	C5-C4	-5.59	1.34	1.38
35	BB	639	A	O4'-C1'	-5.59	1.34	1.41
35	BB	1239	A	C3'-C2'	-5.59	1.46	1.52
35	BB	1521	G	C1'-N9	-5.59	1.39	1.46
36	BC	134	G	N7-C5	-5.59	1.35	1.39
37	BD	13	A	C3'-C2'	-5.59	1.46	1.52
41	BH	33	G	C5-C6	-5.59	1.36	1.42
85	AA	481	A	C5-C4	-5.59	1.34	1.38
85	AA	728	U	C2-N3	-5.59	1.33	1.37
85	AA	1219	A	C2'-C1'	-5.59	1.47	1.53
85	AA	2033	C	C2'-C1'	-5.59	1.47	1.53
34	BA	569	C	C2-N3	-5.59	1.31	1.35
34	BA	747	G	C8-N7	-5.59	1.27	1.30
34	BA	819	G	N9-C8	-5.59	1.33	1.37
35	BB	635	A	C4'-C3'	-5.59	1.47	1.52
35	BB	636	G	C6-N1	-5.59	1.35	1.39
35	BB	816	U	C5'-C4'	-5.59	1.44	1.51
35	BB	843	G	O3'-P	-5.59	1.54	1.61
35	BB	1092	G	O3'-P	-5.59	1.54	1.61
35	BB	1275	A	N3-C4	-5.59	1.31	1.34
35	BB	1336	G	C8-N7	-5.59	1.27	1.30
85	AA	495	G	N9-C4	-5.59	1.33	1.38
85	AA	1267	A	C8-N7	-5.59	1.27	1.31
85	AA	1371	C	C2'-C1'	-5.59	1.47	1.53
85	AA	1478	G	P-O5'	-5.59	1.54	1.59
85	AA	1549	G	C4'-C3'	-5.59	1.47	1.52
85	AA	1715	C	P-O5'	-5.59	1.54	1.59
85	AA	1999	C	P-O5'	-5.59	1.54	1.59
34	BA	436	U	C5'-C4'	-5.59	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	22	A	C5-C4	-5.59	1.34	1.38
37	BD	81	C	N1-C6	-5.59	1.33	1.37
85	AA	304	G	C3'-O3'	5.59	1.50	1.42
34	BA	521	C	C1'-N1	-5.59	1.39	1.46
34	BA	1215	U	C1'-N1	-5.59	1.39	1.46
34	BA	1629	A	P-O5'	-5.59	1.54	1.59
35	BB	110	U	N3-C4	-5.59	1.33	1.38
35	BB	478	G	C3'-C2'	-5.59	1.46	1.52
35	BB	1037	A	C3'-C2'	-5.59	1.46	1.52
37	BD	101	A	O3'-P	-5.59	1.54	1.61
38	BE	194	A	P-O5'	-5.59	1.54	1.59
40	BG	6	A	N3-C4	-5.59	1.31	1.34
40	BG	167	C	P-O5'	-5.59	1.54	1.59
85	AA	391	G	C3'-C2'	-5.59	1.46	1.52
85	AA	866	U	C2-N3	-5.59	1.33	1.37
85	AA	1579	A	N9-C4	-5.59	1.34	1.37
85	AA	2083	G	C5-C4	-5.59	1.34	1.38
34	BA	1053	U	C3'-C2'	-5.58	1.46	1.52
35	BB	690	C	C2'-C1'	-5.58	1.47	1.53
85	AA	1997	G	C4'-C3'	5.58	1.59	1.53
85	AA	2089	G	C1'-N9	-5.58	1.39	1.46
85	AA	2208	G	C6-N1	-5.58	1.35	1.39
35	BB	517	G	C2'-C1'	-5.58	1.47	1.53
35	BB	604	C	O3'-P	-5.58	1.54	1.61
35	BB	1458	U	O3'-P	-5.58	1.54	1.61
37	BD	106	G	C2-N2	-5.58	1.28	1.34
38	BE	201	A	N3-C4	-5.58	1.31	1.34
85	AA	650	G	C2-N2	-5.58	1.28	1.34
85	AA	2040	A	P-O5'	-5.58	1.54	1.59
34	BA	93	A	C2'-C1'	-5.58	1.47	1.53
34	BA	470	C	C2-N3	-5.58	1.31	1.35
34	BA	514	U	O3'-P	-5.58	1.54	1.61
34	BA	956	G	C2'-C1'	-5.58	1.47	1.53
34	BA	1051	A	O3'-P	-5.58	1.54	1.61
34	BA	1197	U	C5'-C4'	-5.58	1.44	1.51
34	BA	1240	G	C2-N2	-5.58	1.28	1.34
34	BA	1779	U	C2-N3	-5.58	1.33	1.37
34	BA	1824	U	C2'-C1'	-5.58	1.47	1.53
35	BB	809	U	C3'-C2'	-5.58	1.46	1.52
35	BB	1371	G	C4'-C3'	-5.58	1.47	1.52
36	BC	46	G	N7-C5	-5.58	1.35	1.39
36	BC	56	G	C6-N1	-5.58	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	93	U	C3'-C2'	-5.58	1.46	1.52
40	BG	105	A	O4'-C1'	-5.58	1.34	1.41
41	BH	13	C	C4'-O4'	-5.58	1.38	1.45
85	AA	639	C	C4-C5	-5.58	1.38	1.43
85	AA	1185	G	N9-C8	-5.58	1.33	1.37
85	AA	1194	U	N3-C4	-5.58	1.33	1.38
85	AA	1221	G	C3'-C2'	-5.58	1.46	1.52
85	AA	1256	C	C3'-C2'	-5.58	1.46	1.52
85	AA	1267	A	N7-C5	-5.58	1.35	1.39
85	AA	1668	G	N7-C5	-5.58	1.35	1.39
85	AA	1679	U	N1-C6	-5.58	1.32	1.38
34	BA	94	G	C1'-N9	-5.58	1.39	1.46
34	BA	223	U	C2-N3	-5.58	1.33	1.37
34	BA	1369	C	C4-N4	-5.58	1.28	1.33
34	BA	1557	G	C5-C4	-5.58	1.34	1.38
34	BA	1608	C	C3'-C2'	-5.58	1.46	1.52
35	BB	112	G	C5-C4	-5.58	1.34	1.38
35	BB	1081	U	C2-N3	-5.58	1.33	1.37
85	AA	116	G	C5-C4	-5.58	1.34	1.38
85	AA	1986	G	C2-N2	-5.58	1.28	1.34
34	BA	14	G	O4'-C1'	-5.58	1.34	1.41
34	BA	109	A	C4'-C3'	-5.58	1.47	1.52
34	BA	255	G	N1-C2	-5.58	1.33	1.37
34	BA	384	U	C2-N3	-5.58	1.33	1.37
34	BA	398	G	C5-C4	-5.58	1.34	1.38
34	BA	965	A	C3'-C2'	-5.58	1.46	1.52
34	BA	1098	G	C2'-C1'	-5.58	1.47	1.53
35	BB	573	C	C2'-C1'	-5.58	1.47	1.53
35	BB	622	G	C2-N2	-5.58	1.28	1.34
35	BB	665	A	C5-C6	-5.58	1.36	1.41
35	BB	1286	G	N1-C2	-5.58	1.33	1.37
35	BB	1296	A	C1'-N9	-5.58	1.39	1.46
38	BE	188	C	O3'-P	-5.58	1.54	1.61
40	BG	26	G	C8-N7	-5.58	1.27	1.30
40	BG	160	C	C3'-C2'	-5.58	1.46	1.52
85	AA	598	C	C4'-C3'	-5.58	1.47	1.52
85	AA	691	U	O3'-P	-5.58	1.54	1.61
85	AA	874	A	N9-C4	-5.58	1.34	1.37
85	AA	960	G	C8-N7	-5.58	1.27	1.30
85	AA	1636	C	C2'-C1'	-5.58	1.47	1.53
85	AA	1647	G	C2'-C1'	-5.58	1.47	1.53
34	BA	54	A	C4'-C3'	-5.58	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	378	C	C1'-N1	-5.58	1.39	1.46
34	BA	458	G	C8-N7	-5.58	1.27	1.30
34	BA	1491	U	C3'-C2'	5.58	1.59	1.52
36	BC	66	G	C8-N7	-5.58	1.27	1.30
85	AA	1490	A	N9-C8	-5.58	1.33	1.37
85	AA	2133	A	N3-C4	-5.58	1.31	1.34
34	BA	38	G	C3'-C2'	-5.58	1.46	1.52
34	BA	332	U	C2'-C1'	-5.58	1.47	1.53
34	BA	860	G	C3'-C2'	-5.58	1.46	1.52
35	BB	1169	A	N9-C4	-5.58	1.34	1.37
35	BB	1538	G	C1'-N9	-5.58	1.39	1.46
38	BE	32	U	C5'-C4'	-5.58	1.44	1.51
38	BE	63	C	C4'-O4'	-5.58	1.38	1.45
38	BE	110	U	C4'-O4'	-5.58	1.38	1.45
38	BE	117	A	C8-N7	-5.58	1.27	1.31
38	BE	194	A	C6-N6	-5.58	1.29	1.33
40	BG	16	G	C6-N1	-5.58	1.35	1.39
41	BH	40	C	C2-N3	-5.58	1.31	1.35
41	BH	113	G	C1'-N9	-5.58	1.39	1.46
85	AA	1117	G	C2'-C1'	-5.58	1.47	1.53
85	AA	2240	G	N9-C8	-5.58	1.33	1.37
86	AB	68	C	C2'-C1'	-5.58	1.47	1.53
34	BA	178	C	C1'-N1	-5.57	1.39	1.46
34	BA	256	A	O3'-P	-5.57	1.54	1.61
34	BA	588	C	C2'-C1'	-5.57	1.47	1.53
34	BA	1007	G	N7-C5	-5.57	1.35	1.39
34	BA	1201	G	N1-C2	-5.57	1.33	1.37
34	BA	1564	A	C2'-C1'	-5.57	1.47	1.53
35	BB	54	U	C3'-C2'	-5.57	1.46	1.52
35	BB	736	G	N3-C4	-5.57	1.31	1.35
40	BG	101	G	C2'-C1'	-5.57	1.47	1.53
40	BG	131	U	O3'-P	-5.57	1.54	1.61
85	AA	817	G	N9-C8	-5.57	1.33	1.37
85	AA	1116	G	C6-N1	-5.57	1.35	1.39
34	BA	1631	U	P-O5'	5.57	1.65	1.59
35	BB	587	A	N9-C8	-5.57	1.33	1.37
35	BB	1337	C	C2-N3	-5.57	1.31	1.35
36	BC	49	G	C1'-N9	-5.57	1.39	1.46
37	BD	110	G	P-O5'	-5.57	1.54	1.59
38	BE	97	G	N7-C5	-5.57	1.35	1.39
40	BG	4	A	N9-C8	-5.57	1.33	1.37
85	AA	448	G	C5-C4	-5.57	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	536	C	O4'-C1'	-5.57	1.34	1.41
34	BA	1221	A	C6-N6	-5.57	1.29	1.33
34	BA	1295	U	C5'-C4'	5.57	1.58	1.51
34	BA	1311	G	C2-N2	-5.57	1.28	1.34
34	BA	1700	C	C2'-C1'	-5.57	1.47	1.53
35	BB	1041	A	O3'-P	-5.57	1.54	1.61
35	BB	1279	C	C2'-C1'	-5.57	1.47	1.53
85	AA	384	C	N1-C6	-5.57	1.33	1.37
85	AA	838	G	O3'-P	-5.57	1.54	1.61
85	AA	1838	C	O3'-P	-5.57	1.54	1.61
85	AA	1905	A	N9-C4	5.57	1.41	1.37
85	AA	2009	A	N7-C5	-5.57	1.35	1.39
34	BA	257	G	C1'-N9	-5.57	1.39	1.46
34	BA	368	U	P-O5'	-5.57	1.54	1.59
34	BA	567	U	C2-N3	-5.57	1.33	1.37
34	BA	912	G	C1'-N9	-5.57	1.39	1.46
34	BA	1475	G	C8-N7	-5.57	1.27	1.30
34	BA	1640	G	C4'-O4'	-5.57	1.38	1.45
35	BB	450	A	C5-C6	-5.57	1.36	1.41
35	BB	503	G	C3'-C2'	-5.57	1.46	1.52
35	BB	1356	G	O3'-P	-5.57	1.54	1.61
85	AA	791	C	P-O5'	-5.57	1.54	1.59
85	AA	2094	U	P-O5'	-5.57	1.54	1.59
34	BA	165	C	C4-C5	-5.57	1.38	1.43
34	BA	800	G	O3'-P	-5.57	1.54	1.61
34	BA	902	C	C3'-C2'	-5.57	1.46	1.52
34	BA	1255	G	C6-N1	-5.57	1.35	1.39
34	BA	1593	U	N3-C4	-5.57	1.33	1.38
34	BA	1732	A	C2'-C1'	-5.57	1.47	1.53
35	BB	457	U	P-O5'	-5.57	1.54	1.59
35	BB	1048	A	N9-C8	-5.57	1.33	1.37
36	BC	41	A	N3-C4	-5.57	1.31	1.34
37	BD	81	C	C1'-N1	-5.57	1.39	1.46
41	BH	5	G	N9-C4	-5.57	1.33	1.38
47	BN	80	PHE	CB-CG	-5.57	1.41	1.51
85	AA	569	A	C2'-C1'	-5.57	1.47	1.53
85	AA	1250	A	O3'-P	-5.57	1.54	1.61
85	AA	2165	C	C2-N3	-5.57	1.31	1.35
34	BA	87	G	N9-C8	-5.57	1.33	1.37
34	BA	196	A	N1-C2	-5.57	1.29	1.34
34	BA	454	G	C5-C4	-5.57	1.34	1.38
34	BA	946	A	C8-N7	-5.57	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1363	A	O3'-P	-5.57	1.54	1.61
34	BA	1605	G	P-O5'	-5.57	1.54	1.59
35	BB	138	A	N9-C4	5.57	1.41	1.37
35	BB	582	G	N9-C4	-5.57	1.33	1.38
35	BB	783	U	N1-C6	-5.57	1.32	1.38
35	BB	986	C	C4'-O4'	-5.57	1.38	1.45
85	AA	642	G	C3'-C2'	-5.57	1.46	1.52
85	AA	1154	A	C4'-C3'	-5.57	1.47	1.52
85	AA	2122	A	C2'-O2'	-5.57	1.34	1.41
85	AA	2142	A	C5-C4	-5.57	1.34	1.38
34	BA	1219	G	C1'-N9	-5.56	1.39	1.46
35	BB	388	C	C2'-C1'	-5.56	1.47	1.53
85	AA	41	G	C2'-C1'	-5.56	1.47	1.53
85	AA	255	A	C1'-N9	-5.56	1.39	1.46
85	AA	458	C	P-O5'	-5.56	1.54	1.59
85	AA	521	A	C8-N7	-5.56	1.27	1.31
85	AA	1121	U	C3'-C2'	-5.56	1.46	1.52
85	AA	1350	A	P-O5'	-5.56	1.54	1.59
34	BA	90	G	C1'-N9	-5.56	1.39	1.46
34	BA	613	A	C2'-C1'	-5.56	1.47	1.53
34	BA	682	A	C3'-C2'	-5.56	1.46	1.52
34	BA	1193	A	N9-C4	-5.56	1.34	1.37
34	BA	1796	A	C3'-C2'	-5.56	1.46	1.52
35	BB	372	U	O4'-C1'	-5.56	1.34	1.41
35	BB	814	A	C5-C4	-5.56	1.34	1.38
35	BB	872	A	C2'-C1'	-5.56	1.47	1.53
35	BB	1066	G	N9-C4	-5.56	1.33	1.38
35	BB	1371	G	C2-N2	-5.56	1.28	1.34
35	BB	1404	A	C6-N1	-5.56	1.31	1.35
37	BD	78	C	C3'-C2'	-5.56	1.46	1.52
38	BE	154	A	N3-C4	-5.56	1.31	1.34
85	AA	654	A	O4'-C1'	-5.56	1.34	1.41
85	AA	1507	G	C2-N2	-5.56	1.28	1.34
85	AA	1703	A	C1'-N9	-5.56	1.39	1.46
34	BA	296	G	C3'-O3'	5.56	1.50	1.42
34	BA	1246	G	N9-C8	-5.56	1.33	1.37
34	BA	1548	A	C4'-O4'	-5.56	1.38	1.45
35	BB	404	A	N3-C4	-5.56	1.31	1.34
35	BB	469	G	C2'-C1'	-5.56	1.47	1.53
35	BB	1343	C	C3'-C2'	-5.56	1.46	1.52
36	BC	108	A	N7-C5	-5.56	1.35	1.39
38	BE	10	G	N9-C4	-5.56	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	145	A	P-O5'	-5.56	1.54	1.59
41	BH	42	U	C2'-C1'	-5.56	1.47	1.53
85	AA	393	C	C2'-C1'	-5.56	1.47	1.53
85	AA	486	G	C5'-C4'	-5.56	1.44	1.51
85	AA	1812	C	O4'-C1'	-5.56	1.34	1.41
85	AA	2204	A	C4'-C3'	-5.56	1.47	1.52
34	BA	791	A	C2'-C1'	-5.56	1.47	1.53
34	BA	1125	G	O3'-P	-5.56	1.54	1.61
34	BA	1159	A	O3'-P	-5.56	1.54	1.61
34	BA	1413	G	C1'-N9	-5.56	1.39	1.46
35	BB	9	G	C5-C4	-5.56	1.34	1.38
35	BB	136	A	C1'-N9	-5.56	1.39	1.46
35	BB	415	A	C4'-C3'	-5.56	1.47	1.52
35	BB	1023	G	C1'-N9	-5.56	1.39	1.46
35	BB	1333	U	C1'-N1	5.56	1.57	1.48
35	BB	1489	A	C1'-N9	-5.56	1.39	1.46
40	BG	14	G	N7-C5	-5.56	1.35	1.39
40	BG	77	U	O3'-P	-5.56	1.54	1.61
85	AA	886	A	C2'-C1'	-5.56	1.47	1.53
85	AA	1676	G	C4'-O4'	-5.56	1.38	1.45
85	AA	2016	A	O3'-P	-5.56	1.54	1.61
85	AA	2078	A	C5'-C4'	5.56	1.58	1.51
85	AA	2182	A	C1'-N9	-5.56	1.39	1.46
34	BA	15	G	C2-N2	-5.56	1.28	1.34
34	BA	52	G	N7-C5	-5.56	1.35	1.39
34	BA	599	U	P-O5'	-5.56	1.54	1.59
34	BA	1119	A	N3-C4	-5.56	1.31	1.34
34	BA	1260	G	C2-N3	-5.56	1.28	1.32
34	BA	1496	G	P-O5'	-5.56	1.54	1.59
34	BA	1663	U	C2-N3	-5.56	1.33	1.37
35	BB	322	G	O3'-P	-5.56	1.54	1.61
35	BB	403	U	N3-C4	-5.56	1.33	1.38
35	BB	507	G	C6-N1	-5.56	1.35	1.39
35	BB	530	C	C4-N4	-5.56	1.28	1.33
35	BB	582	G	C5-C4	-5.56	1.34	1.38
35	BB	1062	G	N9-C8	-5.56	1.33	1.37
35	BB	1532	C	C2-N3	-5.56	1.31	1.35
35	BB	1544	A	C3'-C2'	-5.56	1.46	1.52
36	BC	36	G	N7-C5	-5.56	1.35	1.39
37	BD	85	C	O3'-P	-5.56	1.54	1.61
38	BE	121	G	C4'-C3'	-5.56	1.47	1.52
40	BG	44	G	C1'-N9	-5.56	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	104	A	O3'-P	-5.56	1.54	1.61
41	BH	32	U	C4-O4	-5.56	1.19	1.23
41	BH	107	A	C6-N6	-5.56	1.29	1.33
85	AA	2	A	C5-C4	-5.56	1.34	1.38
85	AA	2024	U	P-O5'	-5.56	1.54	1.59
85	AA	2039	G	O4'-C1'	-5.56	1.34	1.41
34	BA	235	C	N1-C6	-5.56	1.33	1.37
34	BA	266	G	C2'-C1'	-5.56	1.47	1.53
34	BA	315	U	C2'-C1'	-5.56	1.47	1.53
34	BA	360	C	P-O5'	-5.56	1.54	1.59
34	BA	1274	A	O3'-P	-5.56	1.54	1.61
35	BB	95	A	C5-C4	-5.56	1.34	1.38
35	BB	500	C	N1-C6	-5.56	1.33	1.37
35	BB	798	A	C5-C6	-5.56	1.36	1.41
35	BB	963	G	C2'-C1'	-5.56	1.47	1.53
35	BB	1153	G	C5-C6	-5.56	1.36	1.42
35	BB	1491	G	O3'-P	-5.56	1.54	1.61
85	AA	1431	U	O3'-P	-5.56	1.54	1.61
85	AA	2007	G	C2-N2	-5.56	1.28	1.34
34	BA	53	G	C2-N2	-5.55	1.28	1.34
34	BA	455	A	C4'-C3'	-5.55	1.47	1.52
34	BA	546	U	C3'-C2'	-5.55	1.46	1.52
34	BA	632	U	C2'-C1'	-5.55	1.47	1.53
34	BA	744	G	P-O5'	-5.55	1.54	1.59
34	BA	809	U	C3'-C2'	-5.55	1.46	1.52
34	BA	1246	G	C2-N2	-5.55	1.28	1.34
35	BB	838	G	C4'-C3'	-5.55	1.47	1.52
35	BB	1369	A	N9-C8	-5.55	1.33	1.37
37	BD	51	G	C5'-C4'	-5.55	1.44	1.51
38	BE	128	G	C2'-C1'	-5.55	1.47	1.53
85	AA	39	A	C1'-N9	-5.55	1.39	1.46
85	AA	282	C	O4'-C1'	-5.55	1.34	1.41
85	AA	402	G	C3'-C2'	-5.55	1.46	1.52
85	AA	533	C	C4-N4	-5.55	1.28	1.33
85	AA	854	A	O3'-P	-5.55	1.54	1.61
85	AA	1466	U	C2'-C1'	-5.55	1.47	1.53
13	AE	24	TYR	CB-CG	-5.55	1.43	1.51
34	BA	566	G	C2-N2	-5.55	1.28	1.34
34	BA	690	G	N9-C8	-5.55	1.33	1.37
34	BA	1475	G	N1-C2	-5.55	1.33	1.37
35	BB	1219	A	C1'-N9	-5.55	1.39	1.46
35	BB	1244	U	C1'-N1	-5.55	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	22	A	C3'-C2'	-5.55	1.46	1.52
34	BA	1070	G	C4'-C3'	-5.55	1.47	1.52
34	BA	1218	G	C1'-N9	-5.55	1.39	1.46
34	BA	1243	A	N9-C8	-5.55	1.33	1.37
34	BA	1732	A	C1'-N9	-5.55	1.39	1.46
35	BB	100	A	C1'-N9	-5.55	1.39	1.46
35	BB	476	A	C2'-C1'	-5.55	1.47	1.53
35	BB	481	A	N7-C5	-5.55	1.35	1.39
35	BB	1365	G	C6-N1	-5.55	1.35	1.39
35	BB	1470	G	C8-N7	-5.55	1.27	1.30
37	BD	26	C	O3'-P	-5.55	1.54	1.61
37	BD	82	G	C1'-N9	-5.55	1.39	1.46
38	BE	171	U	C2-N3	-5.55	1.33	1.37
85	AA	307	G	C4'-C3'	5.55	1.59	1.53
85	AA	396	U	O4'-C1'	-5.55	1.34	1.41
85	AA	460	U	P-O5'	-5.55	1.54	1.59
85	AA	501	A	N7-C5	-5.55	1.35	1.39
85	AA	915	G	C2'-C1'	-5.55	1.47	1.53
85	AA	999	A	N7-C5	5.55	1.42	1.39
85	AA	1368	G	C2-N2	-5.55	1.28	1.34
85	AA	1519	A	C6-N6	-5.55	1.29	1.33
85	AA	1688	U	C2-N3	-5.55	1.33	1.37
34	BA	992	A	C6-N6	-5.55	1.29	1.33
34	BA	1066	A	C5-C4	-5.55	1.34	1.38
34	BA	1591	G	C4'-C3'	-5.55	1.47	1.52
35	BB	524	C	C2'-C1'	-5.55	1.47	1.53
35	BB	642	G	C2'-C1'	-5.55	1.47	1.53
35	BB	1055	G	N1-C2	-5.55	1.33	1.37
35	BB	1062	G	N3-C4	-5.55	1.31	1.35
35	BB	1485	G	C3'-C2'	-5.55	1.46	1.52
36	BC	23	G	N1-C2	-5.55	1.33	1.37
38	BE	107	U	N1-C2	-5.55	1.33	1.38
40	BG	17	A	O4'-C1'	-5.55	1.34	1.41
44	BK	46	PHE	C-N	-5.55	1.23	1.34
85	AA	616	A	O3'-P	-5.55	1.54	1.61
85	AA	633	C	P-O5'	-5.55	1.54	1.59
85	AA	662	U	C1'-N1	-5.55	1.39	1.46
85	AA	695	A	C1'-N9	-5.55	1.39	1.46
85	AA	788	G	C2'-C1'	-5.55	1.47	1.53
85	AA	1283	C	O4'-C1'	-5.55	1.34	1.41
85	AA	1977	G	C2'-C1'	-5.55	1.47	1.53
85	AA	2028	G	C2'-C1'	-5.55	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	440	A	C8-N7	-5.55	1.27	1.31
34	BA	451	A	C3'-C2'	-5.55	1.46	1.52
34	BA	949	C	C2'-C1'	-5.55	1.47	1.53
34	BA	1462	U	P-O5'	-5.55	1.54	1.59
34	BA	1615	A	N3-C4	-5.55	1.31	1.34
36	BC	104	A	C2'-C1'	-5.55	1.47	1.53
85	AA	117	C	C4-C5	-5.55	1.38	1.43
85	AA	392	G	C6-N1	-5.55	1.35	1.39
85	AA	763	U	P-O5'	-5.55	1.54	1.59
85	AA	932	A	C8-N7	-5.55	1.27	1.31
85	AA	993	G	C2-N2	-5.55	1.29	1.34
85	AA	1387	C	P-O5'	-5.55	1.54	1.59
85	AA	1978	G	C8-N7	-5.55	1.27	1.30
34	BA	135	G	N7-C5	-5.55	1.35	1.39
34	BA	334	G	C5-C4	-5.55	1.34	1.38
34	BA	997	U	C2'-C1'	-5.55	1.47	1.53
34	BA	1046	G	C1'-N9	-5.55	1.39	1.46
34	BA	1280	A	N3-C4	-5.55	1.31	1.34
34	BA	1326	U	O3'-P	-5.55	1.54	1.61
34	BA	1327	G	C3'-C2'	-5.55	1.46	1.52
34	BA	1513	G	N1-C2	-5.55	1.33	1.37
34	BA	1553	G	N1-C2	-5.55	1.33	1.37
34	BA	1729	G	N9-C8	-5.55	1.33	1.37
35	BB	521	U	C3'-C2'	-5.55	1.46	1.52
35	BB	976	U	C1'-N1	-5.55	1.39	1.46
35	BB	1377	A	C4'-C3'	-5.55	1.47	1.52
37	BD	21	G	N1-C2	-5.55	1.33	1.37
40	BG	37	G	N1-C2	-5.55	1.33	1.37
85	AA	409	C	N3-C4	-5.55	1.30	1.33
85	AA	1163	G	O3'-P	-5.55	1.54	1.61
85	AA	1916	A	C8-N7	-5.55	1.27	1.31
34	BA	44	U	O4'-C1'	-5.54	1.34	1.41
34	BA	83	G	C2-N2	-5.54	1.29	1.34
34	BA	305	C	C3'-C2'	-5.54	1.46	1.52
34	BA	1025	A	O3'-P	-5.54	1.54	1.61
34	BA	1086	A	C6-N1	-5.54	1.31	1.35
34	BA	1710	C	C4-N4	-5.54	1.28	1.33
35	BB	666	A	C4'-C3'	-5.54	1.47	1.52
35	BB	1134	G	N3-C4	-5.54	1.31	1.35
35	BB	1517	G	N9-C8	-5.54	1.33	1.37
36	BC	59	A	O3'-P	-5.54	1.54	1.61
40	BG	8	U	N1-C2	5.54	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	19	A	C3'-C2'	-5.54	1.46	1.52
85	AA	195	C	N1-C6	-5.54	1.33	1.37
85	AA	534	A	O3'-P	-5.54	1.54	1.61
85	AA	773	G	N9-C4	-5.54	1.33	1.38
85	AA	1484	G	C3'-C2'	-5.54	1.46	1.52
85	AA	1630	U	P-O5'	-5.54	1.54	1.59
85	AA	1652	A	N7-C5	-5.54	1.35	1.39
34	BA	390	A	C8-N7	-5.54	1.27	1.31
34	BA	920	U	N3-C4	-5.54	1.33	1.38
34	BA	1334	G	C6-O6	-5.54	1.19	1.24
34	BA	1412	G	N1-C2	-5.54	1.33	1.37
34	BA	1530	G	C2-N2	-5.54	1.29	1.34
35	BB	54	U	C1'-N1	-5.54	1.39	1.46
35	BB	988	G	O3'-P	-5.54	1.54	1.61
35	BB	1395	G	C2-N2	-5.54	1.29	1.34
36	BC	95	A	N7-C5	-5.54	1.35	1.39
37	BD	28	C	C2-N3	-5.54	1.31	1.35
38	BE	110	U	C4'-C3'	-5.54	1.47	1.52
40	BG	133	C	C4'-C3'	-5.54	1.47	1.52
41	BH	96	G	C2-N3	5.54	1.37	1.32
85	AA	294	G	N9-C4	5.54	1.42	1.38
85	AA	428	G	N7-C5	-5.54	1.35	1.39
85	AA	484	G	N9-C8	-5.54	1.33	1.37
85	AA	511	A	N9-C4	-5.54	1.34	1.37
85	AA	709	A	C3'-C2'	-5.54	1.46	1.52
85	AA	939	A	C1'-N9	-5.54	1.39	1.46
85	AA	2018	U	O3'-P	-5.54	1.54	1.61
85	AA	2089	G	C4'-C3'	5.54	1.59	1.53
85	AA	2097	U	P-O5'	-5.54	1.54	1.59
34	BA	94	G	C3'-C2'	-5.54	1.46	1.52
34	BA	347	A	N7-C5	-5.54	1.35	1.39
34	BA	1082	U	O3'-P	-5.54	1.54	1.61
34	BA	1246	G	P-O5'	-5.54	1.54	1.59
34	BA	1531	G	C5-C4	-5.54	1.34	1.38
34	BA	1662	U	P-O5'	-5.54	1.54	1.59
35	BB	73	G	C4'-O4'	-5.54	1.38	1.45
35	BB	93	A	C3'-C2'	-5.54	1.46	1.52
35	BB	684	U	O3'-P	-5.54	1.54	1.61
35	BB	764	C	C3'-C2'	-5.54	1.46	1.52
35	BB	1474	A	C5'-C4'	5.54	1.57	1.51
40	BG	167	C	C2-N3	-5.54	1.31	1.35
85	AA	532	G	N1-C2	-5.54	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1556	G	P-O5'	-5.54	1.54	1.59
34	BA	596	G	C3'-O3'	5.54	1.50	1.42
34	BA	1011	G	N9-C8	-5.54	1.33	1.37
34	BA	1539	A	C3'-C2'	-5.54	1.46	1.52
34	BA	1789	A	P-O5'	-5.54	1.54	1.59
35	BB	266	C	O3'-P	-5.54	1.54	1.61
35	BB	388	C	P-O5'	-5.54	1.54	1.59
35	BB	438	G	O3'-P	-5.54	1.54	1.61
35	BB	1400	C	C4'-C3'	-5.54	1.47	1.52
40	BG	179	C	C4-N4	-5.54	1.28	1.33
41	BH	4	U	C1'-N1	-5.54	1.39	1.46
41	BH	105	U	C3'-C2'	-5.54	1.46	1.52
85	AA	683	U	N3-C4	-5.54	1.33	1.38
85	AA	1968	A	C2'-C1'	-5.54	1.47	1.53
85	AA	2121	G	C2'-C1'	-5.54	1.47	1.53
34	BA	396	U	O3'-P	-5.54	1.54	1.61
34	BA	398	G	P-O5'	-5.54	1.54	1.59
34	BA	596	G	C2-N2	-5.54	1.29	1.34
34	BA	1116	G	C6-N1	-5.54	1.35	1.39
34	BA	1286	C	N1-C2	-5.54	1.34	1.40
35	BB	78	C	C2-N3	-5.54	1.31	1.35
35	BB	831	C	C3'-C2'	-5.54	1.46	1.52
35	BB	899	C	C2'-C1'	-5.54	1.47	1.53
35	BB	1216	G	O3'-P	-5.54	1.54	1.61
35	BB	1375	G	N9-C8	-5.54	1.33	1.37
39	BF	60	C	P-O5'	-5.54	1.54	1.59
41	BH	107	A	C2'-C1'	-5.54	1.47	1.53
85	AA	503	A	O3'-P	-5.54	1.54	1.61
85	AA	671	G	C2-N2	-5.54	1.29	1.34
85	AA	986	U	O3'-P	-5.54	1.54	1.61
85	AA	1156	A	N9-C4	-5.54	1.34	1.37
85	AA	1214	C	O4'-C1'	-5.54	1.34	1.41
85	AA	1240	A	C5-C4	-5.54	1.34	1.38
85	AA	1790	G	N9-C4	-5.54	1.33	1.38
85	AA	2050	C	C2'-C1'	-5.54	1.47	1.53
34	BA	204	U	C2'-C1'	-5.54	1.47	1.53
34	BA	1222	C	C3'-C2'	-5.54	1.46	1.52
34	BA	1299	G	N1-C2	-5.54	1.33	1.37
34	BA	1425	G	N9-C4	-5.54	1.33	1.38
34	BA	1687	A	O4'-C1'	-5.54	1.34	1.41
35	BB	404	A	O3'-P	-5.54	1.54	1.61
35	BB	638	G	N9-C8	-5.54	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	676	G	C2-N2	-5.54	1.29	1.34
40	BG	40	G	N1-C2	-5.54	1.33	1.37
49	BP	127	ILE	CA-CB	-5.54	1.42	1.54
85	AA	1140	G	C6-N1	-5.54	1.35	1.39
85	AA	1241	A	N7-C5	-5.54	1.35	1.39
85	AA	1298	G	O3'-P	-5.54	1.54	1.61
85	AA	2089	G	N9-C4	-5.54	1.33	1.38
34	BA	58	A	N9-C8	-5.54	1.33	1.37
34	BA	109	A	C5-C4	-5.54	1.34	1.38
34	BA	405	C	C1'-N1	-5.54	1.39	1.46
34	BA	922	C	C3'-O3'	-5.54	1.34	1.42
34	BA	1052	G	C8-N7	-5.54	1.27	1.30
34	BA	1237	U	C2'-C1'	-5.54	1.47	1.53
34	BA	1248	A	O3'-P	-5.54	1.54	1.61
34	BA	1526	C	O3'-P	-5.54	1.54	1.61
34	BA	1683	C	C2'-C1'	-5.54	1.47	1.53
34	BA	1796	A	N7-C5	-5.54	1.35	1.39
35	BB	544	C	N3-C4	-5.54	1.30	1.33
35	BB	567	G	C2'-C1'	-5.54	1.47	1.53
35	BB	701	U	O3'-P	-5.54	1.54	1.61
35	BB	1136	G	N3-C4	-5.54	1.31	1.35
35	BB	1147	G	N9-C8	-5.54	1.33	1.37
35	BB	1490	G	C6-N1	-5.54	1.35	1.39
40	BG	121	C	C3'-C2'	-5.54	1.46	1.52
40	BG	135	C	O3'-P	-5.54	1.54	1.61
85	AA	923	A	C2'-C1'	-5.54	1.47	1.53
85	AA	962	U	C1'-N1	-5.54	1.39	1.46
85	AA	1161	U	C2-N3	-5.54	1.33	1.37
85	AA	2120	C	N1-C2	-5.54	1.34	1.40
34	BA	491	U	C2'-C1'	-5.53	1.47	1.53
34	BA	1304	C	O3'-P	-5.53	1.54	1.61
34	BA	1399	A	C4'-C3'	-5.53	1.47	1.52
34	BA	1408	C	P-O5'	-5.53	1.54	1.59
35	BB	44	C	N1-C6	-5.53	1.33	1.37
35	BB	1375	G	N3-C4	-5.53	1.31	1.35
38	BE	61	A	C3'-C2'	-5.53	1.46	1.52
38	BE	210	G	C2'-C1'	-5.53	1.47	1.53
41	BH	33	G	C3'-O3'	-5.53	1.34	1.42
85	AA	483	G	N1-C2	-5.53	1.33	1.37
85	AA	575	G	C2'-C1'	-5.53	1.47	1.53
85	AA	681	G	C8-N7	-5.53	1.27	1.30
85	AA	920	A	C4'-C3'	5.53	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1128	G	C2-N2	-5.53	1.29	1.34
85	AA	1688	U	N1-C2	-5.53	1.33	1.38
85	AA	2241	C	C5'-C4'	-5.53	1.44	1.51
34	BA	13	U	C4'-C3'	-5.53	1.47	1.52
34	BA	977	G	C6-N1	-5.53	1.35	1.39
34	BA	1496	G	N3-C4	-5.53	1.31	1.35
35	BB	1014	U	O3'-P	-5.53	1.54	1.61
35	BB	1510	G	C5-C4	-5.53	1.34	1.38
35	BB	1539	C	C3'-C2'	-5.53	1.46	1.52
41	BH	47	G	C2'-C1'	-5.53	1.47	1.53
85	AA	585	G	N3-C4	-5.53	1.31	1.35
34	BA	205	G	N9-C4	-5.53	1.33	1.38
34	BA	445	C	C2-N3	-5.53	1.31	1.35
34	BA	904	G	N7-C5	-5.53	1.35	1.39
34	BA	955	G	C6-N1	-5.53	1.35	1.39
34	BA	1656	A	C1'-N9	-5.53	1.39	1.46
34	BA	1674	G	C1'-N9	-5.53	1.39	1.46
35	BB	48	G	C2-N2	-5.53	1.29	1.34
35	BB	368	C	C4'-C3'	-5.53	1.47	1.52
35	BB	1295	A	C4'-C3'	-5.53	1.47	1.52
35	BB	1384	A	C4'-C3'	-5.53	1.47	1.52
35	BB	1389	C	C3'-C2'	-5.53	1.46	1.52
36	BC	60	U	C4'-C3'	-5.53	1.47	1.52
37	BD	98	G	N7-C5	-5.53	1.35	1.39
38	BE	27	A	C5-C4	-5.53	1.34	1.38
85	AA	536	C	P-O5'	-5.53	1.54	1.59
85	AA	879	G	N9-C8	-5.53	1.33	1.37
85	AA	1484	G	N3-C4	-5.53	1.31	1.35
85	AA	1949	U	O3'-P	-5.53	1.54	1.61
85	AA	2069	A	C3'-C2'	-5.53	1.46	1.52
34	BA	1018	U	P-O5'	-5.53	1.54	1.59
34	BA	1324	G	C4'-C3'	-5.53	1.47	1.52
35	BB	1294	C	C4'-O4'	-5.53	1.38	1.45
35	BB	1369	A	C1'-N9	-5.53	1.39	1.46
35	BB	1464	G	N7-C5	-5.53	1.35	1.39
85	AA	143	U	C2'-C1'	-5.53	1.47	1.53
85	AA	2128	G	C6-N1	-5.53	1.35	1.39
34	BA	94	G	O3'-P	-5.53	1.54	1.61
34	BA	104	A	C2'-C1'	-5.53	1.47	1.53
34	BA	185	A	N7-C5	-5.53	1.35	1.39
34	BA	199	U	P-O5'	-5.53	1.54	1.59
34	BA	389	U	O3'-P	-5.53	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	427	G	N9-C8	-5.53	1.33	1.37
34	BA	476	U	C3'-C2'	-5.53	1.46	1.52
34	BA	620	C	O3'-P	-5.53	1.54	1.61
34	BA	733	G	C3'-C2'	-5.53	1.46	1.52
34	BA	965	A	N3-C4	-5.53	1.31	1.34
34	BA	1139	G	P-O5'	-5.53	1.54	1.59
35	BB	48	G	O3'-P	-5.53	1.54	1.61
35	BB	437	U	C3'-C2'	-5.53	1.46	1.52
35	BB	438	G	C2-N2	-5.53	1.29	1.34
35	BB	1013	U	P-O5'	-5.53	1.54	1.59
35	BB	1341	U	C4'-C3'	-5.53	1.47	1.52
36	BC	15	G	C5-C4	-5.53	1.34	1.38
37	BD	52	U	O3'-P	-5.53	1.54	1.61
40	BG	105	A	C6-N6	-5.53	1.29	1.33
68	Bi	27	PRO	CA-C	-5.53	1.41	1.52
85	AA	20	G	N9-C8	-5.53	1.33	1.37
85	AA	110	U	C2'-C1'	-5.53	1.47	1.53
85	AA	455	G	C3'-C2'	-5.53	1.46	1.52
85	AA	867	G	N1-C2	-5.53	1.33	1.37
85	AA	1291	A	O3'-P	-5.53	1.54	1.61
85	AA	1515	A	C5'-C4'	-5.53	1.44	1.51
34	BA	288	U	C1'-N1	-5.53	1.39	1.46
34	BA	498	A	O4'-C1'	-5.53	1.34	1.41
34	BA	905	A	C1'-N9	-5.53	1.39	1.46
34	BA	1046	G	C8-N7	-5.53	1.27	1.30
34	BA	1046	G	N9-C4	-5.53	1.33	1.38
34	BA	1156	U	O4'-C1'	-5.53	1.34	1.41
34	BA	1468	U	C3'-C2'	-5.53	1.46	1.52
34	BA	1519	G	N9-C8	-5.53	1.33	1.37
35	BB	590	G	P-O5'	-5.53	1.54	1.59
35	BB	634	A	C8-N7	-5.53	1.27	1.31
35	BB	1431	G	C2-N2	-5.53	1.29	1.34
36	BC	104	A	N7-C5	-5.53	1.35	1.39
37	BD	3	G	C2-N2	-5.53	1.29	1.34
85	AA	393	C	C2-N3	-5.53	1.31	1.35
85	AA	689	U	C2-N3	-5.53	1.33	1.37
85	AA	1012	C	O3'-P	-5.53	1.54	1.61
85	AA	1546	G	C6-N1	-5.53	1.35	1.39
85	AA	1942	U	P-O5'	-5.53	1.54	1.59
85	AA	2201	A	P-O5'	-5.53	1.54	1.59
34	BA	713	C	N1-C6	-5.52	1.33	1.37
34	BA	1308	C	P-O5'	-5.52	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	152	C	C2-N3	-5.52	1.31	1.35
37	BD	100	A	C1'-N9	-5.52	1.39	1.46
44	BK	85	PHE	N-CA	-5.52	1.35	1.46
85	AA	252	G	N7-C5	-5.52	1.35	1.39
85	AA	308	U	C4'-C3'	-5.52	1.47	1.52
85	AA	1666	U	C3'-C2'	-5.52	1.46	1.52
15	AG	136	PRO	C-N	-5.52	1.23	1.34
34	BA	195	G	N1-C2	-5.52	1.33	1.37
34	BA	668	G	C6-N1	-5.52	1.35	1.39
34	BA	733	G	C1'-N9	-5.52	1.39	1.46
34	BA	1097	G	C1'-N9	-5.52	1.39	1.46
34	BA	1130	U	C2'-C1'	-5.52	1.47	1.53
34	BA	1179	U	C4'-C3'	-5.52	1.47	1.52
34	BA	1738	G	C3'-C2'	-5.52	1.46	1.52
35	BB	381	C	C2-N3	-5.52	1.31	1.35
36	BC	25	C	C4'-C3'	-5.52	1.47	1.52
36	BC	28	C	P-O5'	-5.52	1.54	1.59
36	BC	33	U	C2'-C1'	-5.52	1.47	1.53
36	BC	125	A	N9-C8	-5.52	1.33	1.37
38	BE	6	A	C5'-C4'	-5.52	1.44	1.51
38	BE	114	G	O4'-C1'	-5.52	1.34	1.41
40	BG	90	G	C2-N2	-5.52	1.29	1.34
85	AA	68	A	N9-C4	-5.52	1.34	1.37
85	AA	463	G	O3'-P	-5.52	1.54	1.61
85	AA	500	C	C4'-O4'	-5.52	1.38	1.45
85	AA	1163	G	N7-C5	-5.52	1.35	1.39
85	AA	1200	A	N3-C4	-5.52	1.31	1.34
85	AA	1497	U	C1'-N1	-5.52	1.39	1.46
85	AA	1531	G	C1'-N9	-5.52	1.39	1.46
85	AA	1923	A	C4'-C3'	-5.52	1.47	1.52
2	A1	96	PHE	CB-CG	-5.52	1.42	1.51
34	BA	962	U	N3-C4	-5.52	1.33	1.38
35	BB	362	A	N9-C4	-5.52	1.34	1.37
35	BB	365	U	N3-C4	-5.52	1.33	1.38
35	BB	1227	G	C4'-O4'	-5.52	1.38	1.45
35	BB	1508	G	N7-C5	-5.52	1.35	1.39
38	BE	53	U	P-O5'	-5.52	1.54	1.59
34	BA	321	G	C2'-C1'	-5.52	1.47	1.53
34	BA	330	A	N9-C8	-5.52	1.33	1.37
34	BA	400	A	C5-C4	-5.52	1.34	1.38
34	BA	408	U	C2-N3	-5.52	1.33	1.37
35	BB	426	A	C1'-N9	-5.52	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	121	G	C6-N1	-5.52	1.35	1.39
36	BC	164	G	C4'-C3'	-5.52	1.47	1.52
38	BE	49	A	C5-C6	-5.52	1.36	1.41
40	BG	171	A	C6-N6	-5.52	1.29	1.33
85	AA	342	C	C4'-C3'	-5.52	1.47	1.52
85	AA	413	G	N9-C4	-5.52	1.33	1.38
85	AA	1476	C	C3'-C2'	-5.52	1.46	1.52
85	AA	1505	G	C6-N1	-5.52	1.35	1.39
85	AA	1622	G	N7-C5	-5.52	1.35	1.39
85	AA	1843	A	C1'-N9	-5.52	1.39	1.46
85	AA	2169	C	C3'-C2'	-5.52	1.46	1.52
34	BA	36	A	O4'-C1'	-5.52	1.34	1.41
34	BA	1098	G	C5-C4	-5.52	1.34	1.38
34	BA	1816	G	N1-C2	-5.52	1.33	1.37
34	BA	1833	G	O3'-P	-5.52	1.54	1.61
35	BB	1054	G	C2'-C1'	-5.52	1.47	1.53
35	BB	1431	G	O4'-C1'	-5.52	1.34	1.41
36	BC	110	A	C1'-N9	-5.52	1.39	1.46
36	BC	117	A	N3-C4	-5.52	1.31	1.34
37	BD	26	C	C2'-C1'	-5.52	1.47	1.53
37	BD	55	A	N9-C4	-5.52	1.34	1.37
37	BD	98	G	C5-C6	-5.52	1.36	1.42
38	BE	8	G	C5-C4	-5.52	1.34	1.38
74	Bo	22	PRO	CA-C	-5.52	1.41	1.52
85	AA	598	C	C2'-C1'	-5.52	1.47	1.53
85	AA	624	A	N3-C4	-5.52	1.31	1.34
85	AA	979	U	O3'-P	-5.52	1.54	1.61
85	AA	1597	C	P-O5'	-5.52	1.54	1.59
85	AA	2165	C	C2'-C1'	-5.52	1.47	1.53
34	BA	415	C	O3'-P	-5.52	1.54	1.61
34	BA	714	G	C5-C6	-5.52	1.36	1.42
35	BB	40	C	C3'-C2'	-5.52	1.46	1.52
35	BB	84	G	N1-C2	-5.52	1.33	1.37
35	BB	411	A	C2'-C1'	-5.52	1.47	1.53
35	BB	1195	A	N3-C4	-5.52	1.31	1.34
35	BB	1360	A	C2'-C1'	-5.52	1.47	1.53
36	BC	93	C	C2-N3	-5.52	1.31	1.35
37	BD	92	G	N7-C5	-5.52	1.35	1.39
40	BG	160	C	C2-N3	-5.52	1.31	1.35
41	BH	54	U	O3'-P	-5.52	1.54	1.61
69	Bj	80	GLY	CA-C	-5.52	1.43	1.51
71	Bl	119	SER	CA-CB	5.52	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	353	G	C5-C4	-5.52	1.34	1.38
85	AA	377	U	C2-N3	-5.52	1.33	1.37
85	AA	481	A	O3'-P	-5.52	1.54	1.61
85	AA	565	G	P-O5'	-5.52	1.54	1.59
85	AA	608	A	O4'-C1'	-5.52	1.34	1.41
85	AA	668	A	O4'-C1'	-5.52	1.34	1.41
34	BA	246	G	N1-C2	-5.51	1.33	1.37
34	BA	1466	U	C1'-N1	-5.51	1.39	1.46
34	BA	1637	G	C2-N2	-5.51	1.29	1.34
34	BA	1691	G	N1-C2	-5.51	1.33	1.37
35	BB	108	G	C1'-N9	-5.51	1.39	1.46
35	BB	619	A	C4'-C3'	-5.51	1.47	1.52
35	BB	787	A	O4'-C1'	-5.51	1.34	1.41
35	BB	1422	G	P-O5'	-5.51	1.54	1.59
36	BC	110	A	N9-C4	-5.51	1.34	1.37
37	BD	79	G	N9-C8	-5.51	1.33	1.37
40	BG	29	U	O3'-P	-5.51	1.54	1.61
40	BG	111	C	C4-N4	-5.51	1.28	1.33
85	AA	55	A	O3'-P	-5.51	1.54	1.61
85	AA	64	A	C3'-O3'	5.51	1.49	1.42
85	AA	106	G	N7-C5	-5.51	1.35	1.39
85	AA	125	A	C4'-C3'	-5.51	1.47	1.52
85	AA	941	C	C2-N3	-5.51	1.31	1.35
34	BA	22	C	O3'-P	-5.51	1.54	1.61
34	BA	144	C	C2-N3	-5.51	1.31	1.35
34	BA	1106	A	C4'-O4'	-5.51	1.38	1.45
35	BB	550	G	O4'-C1'	-5.51	1.34	1.41
35	BB	644	A	O4'-C1'	-5.51	1.34	1.41
36	BC	11	G	N9-C8	-5.51	1.33	1.37
37	BD	60	C	C4'-C3'	-5.51	1.47	1.52
85	AA	463	G	C8-N7	-5.51	1.27	1.30
85	AA	528	U	O4'-C1'	-5.51	1.34	1.41
85	AA	961	U	C2'-C1'	-5.51	1.47	1.53
85	AA	2120	C	O3'-P	-5.51	1.54	1.61
34	BA	432	A	N7-C5	-5.51	1.35	1.39
34	BA	844	U	C2'-C1'	-5.51	1.47	1.53
34	BA	963	G	N7-C5	-5.51	1.35	1.39
34	BA	1598	U	C4'-O4'	-5.51	1.38	1.45
35	BB	1521	G	C2-N2	-5.51	1.29	1.34
38	BE	9	C	N3-C4	-5.51	1.30	1.33
40	BG	49	A	P-O5'	-5.51	1.54	1.59
40	BG	101	G	N1-C2	-5.51	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	17	C	C4'-C3'	-5.51	1.47	1.52
85	AA	526	G	C6-N1	-5.51	1.35	1.39
85	AA	959	C	C2-N3	-5.51	1.31	1.35
85	AA	1580	A	P-O5'	-5.51	1.54	1.59
85	AA	1691	U	C2'-C1'	-5.51	1.47	1.53
34	BA	25	C	C2'-C1'	-5.51	1.47	1.53
34	BA	475	A	O3'-P	-5.51	1.54	1.61
34	BA	681	G	C6-N1	-5.51	1.35	1.39
34	BA	796	G	C3'-C2'	-5.51	1.46	1.52
34	BA	1534	U	P-O5'	-5.51	1.54	1.59
34	BA	1680	G	P-O5'	-5.51	1.54	1.59
35	BB	607	G	O3'-P	-5.51	1.54	1.61
35	BB	1017	U	C3'-C2'	-5.51	1.46	1.52
35	BB	1071	G	C2-N2	-5.51	1.29	1.34
35	BB	1320	U	C4'-O4'	-5.51	1.38	1.45
41	BH	14	C	C3'-C2'	-5.51	1.46	1.52
85	AA	397	G	C5'-C4'	-5.51	1.44	1.51
85	AA	1122	U	C2-N3	-5.51	1.33	1.37
85	AA	1294	U	C1'-N1	-5.51	1.39	1.46
85	AA	1460	G	C6-N1	-5.51	1.35	1.39
85	AA	1769	A	P-O5'	-5.51	1.54	1.59
85	AA	2210	C	O3'-P	-5.51	1.54	1.61
34	BA	202	A	C5'-C4'	-5.51	1.44	1.51
34	BA	633	G	P-O5'	-5.51	1.54	1.59
34	BA	707	C	C2-N3	-5.51	1.31	1.35
34	BA	1049	G	C5-C6	-5.51	1.36	1.42
34	BA	1319	A	O3'-P	-5.51	1.54	1.61
34	BA	1341	A	N3-C4	-5.51	1.31	1.34
34	BA	1632	G	O3'-P	-5.51	1.54	1.61
85	AA	799	G	N9-C4	-5.51	1.33	1.38
85	AA	1187	G	C1'-N9	-5.51	1.39	1.46
85	AA	1295	G	C2-N2	-5.51	1.29	1.34
85	AA	1844	A	C5-C4	-5.51	1.34	1.38
2	A1	190	GLY	N-CA	-5.51	1.37	1.46
34	BA	463	A	O4'-C1'	-5.51	1.34	1.41
34	BA	726	G	C5-C4	-5.51	1.34	1.38
34	BA	792	A	N3-C4	-5.51	1.31	1.34
34	BA	805	A	N9-C4	-5.51	1.34	1.37
34	BA	1215	U	C2'-C1'	-5.51	1.47	1.53
34	BA	1311	G	N9-C4	-5.51	1.33	1.38
35	BB	489	A	C2'-C1'	-5.51	1.47	1.53
35	BB	826	G	C1'-N9	-5.51	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	53	C	C2-N3	-5.51	1.31	1.35
40	BG	58	G	N9-C8	-5.51	1.33	1.37
85	AA	361	U	C5'-C4'	5.51	1.57	1.51
85	AA	645	C	C1'-N1	-5.51	1.39	1.46
85	AA	931	G	C3'-C2'	-5.51	1.46	1.52
85	AA	1517	G	C5-C4	-5.51	1.34	1.38
85	AA	1548	A	C3'-C2'	-5.51	1.46	1.52
85	AA	2115	G	N9-C4	-5.51	1.33	1.38
34	BA	543	A	N3-C4	-5.50	1.31	1.34
34	BA	809	U	N1-C2	-5.50	1.33	1.38
35	BB	370	A	C3'-C2'	-5.50	1.46	1.52
35	BB	1174	C	C1'-N1	-5.50	1.39	1.46
35	BB	1346	A	C5-C4	-5.50	1.34	1.38
38	BE	188	C	N1-C6	-5.50	1.33	1.37
85	AA	1622	G	N1-C2	-5.50	1.33	1.37
85	AA	2008	G	N1-C2	-5.50	1.33	1.37
34	BA	263	G	C1'-N9	-5.50	1.39	1.46
34	BA	475	A	O4'-C1'	-5.50	1.34	1.41
34	BA	611	A	C6-N1	-5.50	1.31	1.35
34	BA	670	U	C1'-N1	-5.50	1.39	1.46
34	BA	1246	G	C1'-N9	-5.50	1.39	1.46
35	BB	91	G	N9-C4	-5.50	1.33	1.38
35	BB	116	G	N1-C2	-5.50	1.33	1.37
35	BB	357	C	O3'-P	-5.50	1.54	1.61
35	BB	486	G	N9-C4	-5.50	1.33	1.38
35	BB	651	G	N1-C2	-5.50	1.33	1.37
35	BB	905	C	P-O5'	-5.50	1.54	1.59
35	BB	1322	A	N3-C4	-5.50	1.31	1.34
35	BB	1399	A	N3-C4	-5.50	1.31	1.34
35	BB	1530	U	O4'-C1'	-5.50	1.34	1.41
85	AA	351	C	O3'-P	-5.50	1.54	1.61
85	AA	816	A	C4'-O4'	5.50	1.52	1.45
85	AA	996	A	C1'-N9	-5.50	1.39	1.46
85	AA	1585	A	C3'-C2'	-5.50	1.46	1.52
85	AA	1988	A	N3-C4	-5.50	1.31	1.34
34	BA	324	C	C1'-N1	-5.50	1.39	1.46
34	BA	473	A	C3'-C2'	-5.50	1.46	1.52
34	BA	498	A	C6-N6	-5.50	1.29	1.33
34	BA	1193	A	N9-C8	-5.50	1.33	1.37
34	BA	1324	G	C5-C6	-5.50	1.36	1.42
35	BB	33	A	C5-C6	-5.50	1.36	1.41
35	BB	1334	C	C1'-N1	-5.50	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	166	C	N3-C4	-5.50	1.30	1.33
41	BH	121	A	C8-N7	-5.50	1.27	1.31
85	AA	1105	G	N7-C5	-5.50	1.35	1.39
85	AA	1422	A	O3'-P	-5.50	1.54	1.61
85	AA	1812	C	C3'-C2'	-5.50	1.46	1.52
85	AA	2089	G	C5'-C4'	5.50	1.57	1.51
34	BA	350	C	C2'-C1'	-5.50	1.47	1.53
34	BA	739	A	P-O5'	-5.50	1.54	1.59
34	BA	1623	U	O3'-P	-5.50	1.54	1.61
35	BB	1476	C	C1'-N1	-5.50	1.39	1.46
85	AA	373	G	N1-C2	-5.50	1.33	1.37
85	AA	453	G	C6-N1	-5.50	1.35	1.39
85	AA	454	G	N9-C4	-5.50	1.33	1.38
85	AA	687	G	C6-O6	-5.50	1.19	1.24
34	BA	148	G	P-O5'	-5.50	1.54	1.59
34	BA	257	G	N7-C5	-5.50	1.35	1.39
34	BA	337	C	C4-N4	-5.50	1.29	1.33
34	BA	522	C	N1-C6	-5.50	1.33	1.37
34	BA	921	G	N1-C2	-5.50	1.33	1.37
34	BA	1565	U	P-O5'	-5.50	1.54	1.59
34	BA	1594	G	C1'-N9	-5.50	1.39	1.46
34	BA	1610	A	C4'-C3'	-5.50	1.47	1.52
34	BA	1669	C	O3'-P	-5.50	1.54	1.61
35	BB	550	G	C1'-N9	-5.50	1.39	1.46
36	BC	126	G	O3'-P	-5.50	1.54	1.61
68	Bi	58	TYR	CB-CG	-5.50	1.43	1.51
75	Bp	27	HIS	CB-CG	-5.50	1.40	1.50
85	AA	308	U	C1'-N1	-5.50	1.39	1.46
85	AA	630	A	C1'-N9	-5.50	1.39	1.46
85	AA	684	G	O3'-P	-5.50	1.54	1.61
85	AA	1695	G	C2-N2	-5.50	1.29	1.34
34	BA	426	A	N3-C4	-5.50	1.31	1.34
34	BA	454	G	N7-C5	-5.50	1.35	1.39
34	BA	454	G	N1-C2	-5.50	1.33	1.37
34	BA	694	G	O3'-P	-5.50	1.54	1.61
34	BA	994	G	N3-C4	-5.50	1.31	1.35
34	BA	1015	G	N7-C5	-5.50	1.35	1.39
34	BA	1052	G	N7-C5	-5.50	1.35	1.39
34	BA	1117	G	C2-N2	-5.50	1.29	1.34
34	BA	1419	A	N7-C5	-5.50	1.35	1.39
34	BA	1538	G	P-O5'	-5.50	1.54	1.59
35	BB	1108	G	N9-C4	5.50	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1147	G	N3-C4	-5.50	1.31	1.35
35	BB	1512	C	C4-C5	-5.50	1.38	1.43
36	BC	91	G	C2-N2	-5.50	1.29	1.34
37	BD	3	G	C2'-C1'	-5.50	1.47	1.53
42	BI	29	LEU	CA-C	-5.50	1.38	1.52
80	Bu	194	ASP	N-CA	-5.50	1.35	1.46
85	AA	475	A	N3-C4	-5.50	1.31	1.34
85	AA	487	G	C1'-N9	-5.50	1.39	1.46
85	AA	602	U	O3'-P	-5.50	1.54	1.61
34	BA	777	C	C2-N3	-5.50	1.31	1.35
34	BA	1094	U	N1-C6	-5.50	1.33	1.38
34	BA	1270	G	C5-C4	-5.50	1.34	1.38
34	BA	1338	G	C1'-N9	-5.50	1.39	1.46
35	BB	1238	A	C1'-N9	-5.50	1.39	1.46
35	BB	1435	G	N1-C2	-5.50	1.33	1.37
37	BD	107	G	P-O5'	-5.50	1.54	1.59
41	BH	4	U	C4'-O4'	-5.50	1.38	1.45
85	AA	245	A	P-O5'	-5.50	1.54	1.59
86	AB	70	G	C6-N1	-5.50	1.35	1.39
34	BA	4	A	C8-N7	-5.49	1.27	1.31
34	BA	819	G	C2-N2	-5.49	1.29	1.34
34	BA	1516	G	C5-C4	-5.49	1.34	1.38
35	BB	126	C	O3'-P	-5.49	1.54	1.61
35	BB	555	G	C6-N1	-5.49	1.35	1.39
35	BB	745	C	C4'-C3'	-5.49	1.47	1.52
35	BB	960	C	C2'-C1'	-5.49	1.47	1.53
35	BB	1103	A	C2'-C1'	-5.49	1.47	1.53
35	BB	1189	C	C4'-C3'	-5.49	1.47	1.52
36	BC	74	U	N1-C2	-5.49	1.33	1.38
85	AA	577	U	N3-C4	-5.49	1.33	1.38
85	AA	650	G	C3'-C2'	-5.49	1.46	1.52
85	AA	1132	A	C2'-C1'	-5.49	1.47	1.53
85	AA	1170	C	C4'-C3'	-5.49	1.47	1.52
85	AA	2048	C	P-O5'	-5.49	1.54	1.59
34	BA	410	G	C6-N1	-5.49	1.35	1.39
35	BB	566	A	N3-C4	-5.49	1.31	1.34
35	BB	1391	G	C2'-C1'	-5.49	1.47	1.53
35	BB	1426	G	C1'-N9	-5.49	1.39	1.46
39	BF	38	C	N1-C6	-5.49	1.33	1.37
85	AA	443	A	C4'-O4'	-5.49	1.38	1.45
85	AA	1097	G	C2'-C1'	-5.49	1.47	1.53
85	AA	1126	G	C2'-C1'	-5.49	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2193	A	C1'-N9	-5.49	1.39	1.46
35	BB	633	C	C4-N4	-5.49	1.29	1.33
41	BH	129	G	C6-N1	-5.49	1.35	1.39
74	Bo	56	ARG	CD-NE	5.49	1.55	1.46
85	AA	583	U	C2'-C1'	-5.49	1.47	1.53
85	AA	632	U	O3'-P	-5.49	1.54	1.61
85	AA	650	G	O3'-P	-5.49	1.54	1.61
85	AA	1528	A	O3'-P	-5.49	1.54	1.61
85	AA	1619	A	N7-C5	-5.49	1.35	1.39
85	AA	1659	C	C2'-C1'	-5.49	1.47	1.53
85	AA	2105	G	N3-C4	-5.49	1.31	1.35
34	BA	51	C	P-O5'	-5.49	1.54	1.59
34	BA	219	U	C4'-C3'	-5.49	1.47	1.52
34	BA	371	U	C4'-C3'	-5.49	1.47	1.52
34	BA	504	A	C4'-C3'	-5.49	1.47	1.52
34	BA	730	C	C2-N3	-5.49	1.31	1.35
34	BA	1428	G	N9-C4	-5.49	1.33	1.38
35	BB	72	G	N7-C5	-5.49	1.35	1.39
35	BB	118	A	C8-N7	-5.49	1.27	1.31
35	BB	491	A	C5-C6	-5.49	1.36	1.41
35	BB	852	G	N9-C4	5.49	1.42	1.38
35	BB	1278	A	C2'-C1'	-5.49	1.47	1.53
36	BC	131	C	P-O5'	-5.49	1.54	1.59
39	BF	1	C	O3'-P	-5.49	1.54	1.61
41	BH	17	A	C1'-N9	-5.49	1.39	1.46
85	AA	33	U	O3'-P	-5.49	1.54	1.61
85	AA	291	G	C1'-N9	-5.49	1.39	1.46
85	AA	679	A	N7-C5	-5.49	1.35	1.39
85	AA	1539	A	N3-C4	-5.49	1.31	1.34
85	AA	2174	G	C5'-C4'	-5.49	1.44	1.51
85	AA	2199	G	N1-C2	-5.49	1.33	1.37
34	BA	1474	G	C2-N2	-5.49	1.29	1.34
35	BB	494	C	O3'-P	-5.49	1.54	1.61
35	BB	1212	C	N3-C4	-5.49	1.30	1.33
36	BC	95	A	C4'-O4'	-5.49	1.38	1.45
85	AA	1084	A	P-O5'	-5.49	1.54	1.59
85	AA	1175	A	P-O5'	-5.49	1.54	1.59
34	BA	59	A	C2'-C1'	-5.49	1.47	1.53
34	BA	811	C	C2-N3	-5.49	1.31	1.35
34	BA	821	G	C5-C4	-5.49	1.34	1.38
34	BA	1502	G	N1-C2	-5.49	1.33	1.37
34	BA	1659	G	C3'-C2'	-5.49	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	47	C	C3'-C2'	-5.49	1.46	1.52
35	BB	647	U	C2'-C1'	-5.49	1.47	1.53
35	BB	667	G	N3-C4	-5.49	1.31	1.35
35	BB	824	C	C3'-C2'	-5.49	1.46	1.52
35	BB	975	G	C3'-C2'	-5.49	1.46	1.52
38	BE	162	U	C2'-C1'	-5.49	1.47	1.53
40	BG	161	C	P-O5'	-5.49	1.54	1.59
41	BH	66	G	O3'-P	-5.49	1.54	1.61
41	BH	107	A	P-O5'	-5.49	1.54	1.59
85	AA	607	U	P-O5'	-5.49	1.54	1.59
85	AA	681	G	N3-C4	-5.49	1.31	1.35
85	AA	1351	U	P-O5'	-5.49	1.54	1.59
85	AA	1668	G	O3'-P	-5.49	1.54	1.61
85	AA	1906	C	P-O5'	-5.49	1.54	1.59
85	AA	2202	G	C1'-N9	-5.49	1.39	1.46
34	BA	405	C	O3'-P	-5.48	1.54	1.61
34	BA	1530	G	N7-C5	-5.48	1.35	1.39
35	BB	53	C	C4'-O4'	-5.48	1.38	1.45
35	BB	400	C	C3'-C2'	-5.48	1.46	1.52
35	BB	1129	C	C2-N3	-5.48	1.31	1.35
38	BE	189	A	C5-C4	-5.48	1.34	1.38
85	AA	965	G	O4'-C1'	-5.48	1.34	1.41
85	AA	1177	G	P-O5'	-5.48	1.54	1.59
85	AA	1676	G	C2-N3	-5.48	1.28	1.32
85	AA	2016	A	C5'-C4'	5.48	1.57	1.51
85	AA	2146	G	N1-C2	-5.48	1.33	1.37
34	BA	183	G	C6-N1	-5.48	1.35	1.39
34	BA	203	U	C3'-C2'	-5.48	1.46	1.52
34	BA	251	U	C4'-C3'	-5.48	1.47	1.52
34	BA	803	U	O4'-C1'	-5.48	1.34	1.41
34	BA	1274	A	C5-C4	-5.48	1.34	1.38
34	BA	1586	U	C2'-C1'	-5.48	1.47	1.53
35	BB	73	G	O3'-P	-5.48	1.54	1.61
35	BB	1295	A	O3'-P	-5.48	1.54	1.61
35	BB	1346	A	N3-C4	-5.48	1.31	1.34
38	BE	54	U	P-O5'	-5.48	1.54	1.59
40	BG	42	A	C2'-C1'	-5.48	1.47	1.53
40	BG	95	U	C5'-C4'	-5.48	1.44	1.51
85	AA	971	U	N3-C4	-5.48	1.33	1.38
85	AA	1487	G	C6-N1	-5.48	1.35	1.39
85	AA	1559	U	C2'-C1'	-5.48	1.47	1.53
85	AA	1697	C	C4'-C3'	-5.48	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1840	C	O3'-P	-5.48	1.54	1.61
85	AA	1894	G	C5-C6	-5.48	1.36	1.42
34	BA	180	G	C2-N3	5.48	1.37	1.32
34	BA	479	U	C2'-C1'	-5.48	1.47	1.53
34	BA	1033	G	P-O5'	-5.48	1.54	1.59
35	BB	359	A	C4'-C3'	-5.48	1.47	1.52
35	BB	517	G	C1'-N9	-5.48	1.39	1.46
35	BB	564	U	C2'-C1'	-5.48	1.47	1.53
35	BB	795	A	C6-N1	-5.48	1.31	1.35
35	BB	850	U	O3'-P	-5.48	1.54	1.61
35	BB	1238	A	C3'-C2'	-5.48	1.46	1.52
35	BB	1440	A	C6-N6	-5.48	1.29	1.33
36	BC	62	A	N7-C5	-5.48	1.35	1.39
38	BE	8	G	C2-N2	-5.48	1.29	1.34
41	BH	129	G	C2-N2	-5.48	1.29	1.34
85	AA	121	C	C4'-C3'	5.48	1.59	1.53
85	AA	530	A	N9-C4	5.48	1.41	1.37
85	AA	1697	C	C3'-C2'	-5.48	1.46	1.52
34	BA	50	G	P-O5'	-5.48	1.54	1.59
34	BA	1362	A	N9-C4	-5.48	1.34	1.37
34	BA	1453	U	C2'-C1'	-5.48	1.47	1.53
35	BB	607	G	C5-C4	-5.48	1.34	1.38
35	BB	650	A	C1'-N9	-5.48	1.39	1.46
35	BB	1057	G	C5'-C4'	-5.48	1.44	1.51
35	BB	1316	U	N3-C4	-5.48	1.33	1.38
36	BC	72	A	P-O5'	-5.48	1.54	1.59
37	BD	28	C	P-O5'	-5.48	1.54	1.59
37	BD	86	A	O4'-C1'	-5.48	1.34	1.41
40	BG	150	A	N9-C4	-5.48	1.34	1.37
85	AA	1808	G	C8-N7	-5.48	1.27	1.30
85	AA	2076	C	O4'-C1'	-5.48	1.34	1.41
34	BA	142	A	C4'-C3'	-5.48	1.47	1.52
34	BA	272	A	C2'-C1'	-5.48	1.47	1.53
34	BA	342	U	C2-N3	-5.48	1.33	1.37
34	BA	768	G	C6-N1	-5.48	1.35	1.39
34	BA	846	U	C2'-C1'	-5.48	1.47	1.53
34	BA	892	C	C4'-O4'	-5.48	1.38	1.45
34	BA	1020	A	O3'-P	-5.48	1.54	1.61
34	BA	1242	A	C3'-C2'	-5.48	1.46	1.52
34	BA	1443	U	N3-C4	-5.48	1.33	1.38
35	BB	751	A	O3'-P	-5.48	1.54	1.61
35	BB	1306	G	O3'-P	-5.48	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1534	U	C4'-O4'	-5.48	1.38	1.45
36	BC	76	C	C3'-C2'	-5.48	1.46	1.52
38	BE	10	G	N7-C5	-5.48	1.35	1.39
39	BF	28	C	C2'-C1'	-5.48	1.47	1.53
85	AA	145	C	P-O5'	-5.48	1.54	1.59
85	AA	589	A	C4'-C3'	5.48	1.59	1.53
85	AA	936	C	C2'-C1'	-5.48	1.47	1.53
85	AA	978	U	C1'-N1	-5.48	1.39	1.46
85	AA	1472	G	C2'-C1'	-5.48	1.47	1.53
85	AA	1572	C	O3'-P	-5.48	1.54	1.61
85	AA	1576	G	N9-C4	-5.48	1.33	1.38
85	AA	1625	C	P-O5'	-5.48	1.54	1.59
34	BA	11	U	C5'-C4'	-5.48	1.44	1.51
34	BA	1174	A	C2'-C1'	-5.48	1.47	1.53
34	BA	1271	C	C2-N3	-5.48	1.31	1.35
34	BA	1285	G	N9-C4	-5.48	1.33	1.38
34	BA	1723	U	C4'-O4'	5.48	1.52	1.45
35	BB	10	C	O3'-P	-5.48	1.54	1.61
35	BB	1153	G	C2'-C1'	-5.48	1.47	1.53
35	BB	1468	A	N9-C4	-5.48	1.34	1.37
36	BC	29	C	P-O5'	-5.48	1.54	1.59
36	BC	36	G	C5-C4	-5.48	1.34	1.38
39	BF	22	U	N1-C2	5.48	1.43	1.38
85	AA	486	G	C6-N1	5.48	1.43	1.39
85	AA	616	A	C1'-N9	-5.48	1.39	1.46
85	AA	1503	G	C3'-C2'	-5.48	1.46	1.52
85	AA	1624	U	C2-N3	-5.48	1.33	1.37
34	BA	65	A	O3'-P	-5.47	1.54	1.61
34	BA	760	G	C5-C4	-5.47	1.34	1.38
34	BA	996	U	C2'-C1'	-5.47	1.47	1.53
34	BA	1604	A	O4'-C1'	-5.47	1.34	1.41
35	BB	764	C	O3'-P	-5.47	1.54	1.61
35	BB	1094	A	C5'-C4'	-5.47	1.44	1.51
35	BB	1181	A	N9-C8	-5.47	1.33	1.37
35	BB	1303	A	N1-C2	-5.47	1.29	1.34
35	BB	1435	G	C2'-C1'	-5.47	1.47	1.53
36	BC	53	A	C5-C4	-5.47	1.34	1.38
41	BH	22	A	C5-C4	-5.47	1.34	1.38
85	AA	251	A	N7-C5	-5.47	1.35	1.39
85	AA	862	U	N1-C2	5.47	1.43	1.38
85	AA	874	A	C1'-N9	-5.47	1.39	1.46
85	AA	1300	A	C2'-C1'	-5.47	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1712	A	O3'-P	-5.47	1.54	1.61
34	BA	27	G	C2'-C1'	-5.47	1.47	1.53
34	BA	517	A	O5'-C5'	-5.47	1.34	1.42
34	BA	825	G	C1'-N9	-5.47	1.39	1.46
35	BB	535	U	C2'-C1'	-5.47	1.47	1.53
35	BB	1191	G	C5-C4	-5.47	1.34	1.38
35	BB	1284	U	C4'-C3'	-5.47	1.47	1.52
35	BB	1449	G	C2-N3	-5.47	1.28	1.32
35	BB	1491	G	C2-N2	-5.47	1.29	1.34
36	BC	117	A	C8-N7	-5.47	1.27	1.31
39	BF	4	A	O3'-P	-5.47	1.54	1.61
40	BG	169	A	C2'-C1'	-5.47	1.47	1.53
85	AA	202	U	O3'-P	-5.47	1.54	1.61
85	AA	1509	A	O3'-P	-5.47	1.54	1.61
85	AA	1547	G	O3'-P	-5.47	1.54	1.61
85	AA	2168	C	O3'-P	-5.47	1.54	1.61
34	BA	413	A	P-O5'	-5.47	1.54	1.59
34	BA	738	C	C2'-C1'	-5.47	1.47	1.53
85	AA	130	G	N7-C5	-5.47	1.35	1.39
85	AA	368	C	C4'-C3'	5.47	1.59	1.53
85	AA	985	G	O3'-P	-5.47	1.54	1.61
85	AA	2218	G	C2'-C1'	-5.47	1.47	1.53
34	BA	174	A	C3'-O3'	-5.47	1.34	1.42
34	BA	255	G	N9-C8	-5.47	1.34	1.37
34	BA	309	U	C2'-C1'	-5.47	1.47	1.53
34	BA	857	C	C4'-O4'	-5.47	1.38	1.45
34	BA	1006	G	C2'-C1'	-5.47	1.47	1.53
34	BA	1623	U	C4'-O4'	-5.47	1.38	1.45
35	BB	1189	C	C4-N4	-5.47	1.29	1.33
38	BE	138	U	C4'-C3'	-5.47	1.47	1.52
39	BF	4	A	C8-N7	-5.47	1.27	1.31
40	BG	2	U	N1-C2	-5.47	1.33	1.38
40	BG	56	G	C8-N7	-5.47	1.27	1.30
40	BG	129	G	N1-C2	-5.47	1.33	1.37
85	AA	53	G	C3'-C2'	-5.47	1.46	1.52
85	AA	116	G	P-O5'	-5.47	1.54	1.59
85	AA	164	G	N7-C5	-5.47	1.35	1.39
85	AA	386	G	C4'-C3'	-5.47	1.47	1.52
85	AA	388	G	C4'-C3'	-5.47	1.47	1.52
85	AA	492	C	C4-N4	-5.47	1.29	1.33
85	AA	531	G	C1'-N9	-5.47	1.39	1.46
85	AA	881	C	C3'-C2'	-5.47	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1193	A	C5'-C4'	5.47	1.57	1.51
85	AA	2057	G	C5-C4	-5.47	1.34	1.38
85	AA	2102	A	O3'-P	-5.47	1.54	1.61
34	BA	1461	A	C2'-C1'	-5.47	1.47	1.53
35	BB	798	A	C5-C4	-5.47	1.34	1.38
35	BB	1492	C	C2-N3	-5.47	1.31	1.35
36	BC	38	U	O4'-C1'	-5.47	1.34	1.41
85	AA	157	G	N1-C2	-5.47	1.33	1.37
86	AB	65	G	O3'-P	-5.47	1.54	1.61
34	BA	816	G	C5'-C4'	5.47	1.57	1.51
34	BA	1550	G	C6-N1	-5.47	1.35	1.39
35	BB	815	G	C3'-C2'	-5.47	1.46	1.52
35	BB	975	G	C1'-N9	-5.47	1.39	1.46
35	BB	1389	C	C2-N3	-5.47	1.31	1.35
36	BC	112	G	N9-C8	-5.47	1.34	1.37
36	BC	135	A	C3'-C2'	-5.47	1.46	1.52
39	BF	57	C	C2'-C1'	-5.47	1.47	1.53
85	AA	159	G	N3-C4	-5.47	1.31	1.35
85	AA	428	G	C2-N3	-5.47	1.28	1.32
85	AA	805	A	P-O5'	-5.47	1.54	1.59
85	AA	907	G	C2'-C1'	-5.47	1.47	1.53
85	AA	956	C	O3'-P	-5.47	1.54	1.61
85	AA	2141	G	O4'-C1'	-5.47	1.34	1.41
34	BA	723	C	C1'-N1	-5.46	1.39	1.46
34	BA	818	G	O3'-P	-5.46	1.54	1.61
34	BA	1166	A	C4'-O4'	-5.46	1.38	1.45
34	BA	1246	G	N3-C4	-5.46	1.31	1.35
34	BA	1527	G	C2'-C1'	-5.46	1.47	1.53
35	BB	805	G	P-O5'	-5.46	1.54	1.59
38	BE	158	U	P-O5'	-5.46	1.54	1.59
85	AA	383	C	O3'-P	-5.46	1.54	1.61
85	AA	415	G	C2-N3	-5.46	1.28	1.32
85	AA	475	A	N9-C8	-5.46	1.33	1.37
85	AA	485	A	O3'-P	-5.46	1.54	1.61
85	AA	1016	G	P-O5'	-5.46	1.54	1.59
85	AA	1804	U	O3'-P	-5.46	1.54	1.61
85	AA	1937	G	O3'-P	-5.46	1.54	1.61
85	AA	2125	A	C1'-N9	-5.46	1.39	1.46
34	BA	1000	G	N9-C8	-5.46	1.34	1.37
34	BA	1413	G	C2'-C1'	-5.46	1.47	1.53
35	BB	1392	A	C3'-C2'	-5.46	1.46	1.52
36	BC	126	G	N1-C2	-5.46	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	594	C	P-O5'	-5.46	1.54	1.59
85	AA	1681	G	C8-N7	-5.46	1.27	1.30
34	BA	92	G	O3'-P	-5.46	1.54	1.61
34	BA	94	G	N9-C8	-5.46	1.34	1.37
34	BA	1088	G	C5-C6	-5.46	1.36	1.42
34	BA	1098	G	C2-N2	-5.46	1.29	1.34
34	BA	1192	A	C1'-N9	-5.46	1.39	1.46
34	BA	1508	C	C4-N4	-5.46	1.29	1.33
34	BA	1549	U	C3'-C2'	-5.46	1.46	1.52
35	BB	553	U	C1'-N1	-5.46	1.39	1.46
35	BB	769	C	C4-N4	-5.46	1.29	1.33
35	BB	1249	G	N9-C4	-5.46	1.33	1.38
35	BB	1294	C	C2'-C1'	-5.46	1.47	1.53
35	BB	1329	G	C5-C6	-5.46	1.36	1.42
37	BD	112	U	C2'-C1'	-5.46	1.47	1.53
38	BE	17	U	O3'-P	-5.46	1.54	1.61
85	AA	428	G	C6-N1	-5.46	1.35	1.39
85	AA	620	U	N3-C4	-5.46	1.33	1.38
85	AA	650	G	C5-C4	-5.46	1.34	1.38
85	AA	867	G	C6-N1	-5.46	1.35	1.39
85	AA	1530	U	O3'-P	-5.46	1.54	1.61
85	AA	1812	C	C4'-C3'	-5.46	1.47	1.52
85	AA	2085	C	C4'-O4'	-5.46	1.38	1.45
85	AA	2123	U	N3-C4	-5.46	1.33	1.38
85	AA	2224	U	O3'-P	-5.46	1.54	1.61
34	BA	224	G	N9-C4	-5.46	1.33	1.38
34	BA	355	U	C2'-C1'	-5.46	1.47	1.53
34	BA	692	U	C4'-O4'	-5.46	1.38	1.45
34	BA	883	C	O3'-P	-5.46	1.54	1.61
34	BA	1224	A	N3-C4	-5.46	1.31	1.34
34	BA	1331	G	C2-N2	-5.46	1.29	1.34
34	BA	1714	A	N3-C4	-5.46	1.31	1.34
35	BB	260	A	N9-C4	-5.46	1.34	1.37
35	BB	425	G	O4'-C1'	-5.46	1.34	1.41
85	AA	363	A	N7-C5	-5.46	1.35	1.39
85	AA	365	G	N1-C2	-5.46	1.33	1.37
85	AA	931	G	O3'-P	-5.46	1.54	1.61
85	AA	1487	G	N9-C8	-5.46	1.34	1.37
85	AA	1578	G	C4'-C3'	5.46	1.59	1.53
34	BA	238	C	O3'-P	-5.46	1.54	1.61
34	BA	557	U	C5'-C4'	5.46	1.57	1.51
34	BA	604	G	C4'-O4'	-5.46	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	808	U	O3'-P	-5.46	1.54	1.61
34	BA	847	U	C4'-C3'	5.46	1.59	1.53
34	BA	1062	G	N9-C8	-5.46	1.34	1.37
34	BA	1112	U	N3-C4	-5.46	1.33	1.38
34	BA	1707	C	C4-N4	-5.46	1.29	1.33
35	BB	14	C	C2-N3	-5.46	1.31	1.35
35	BB	41	A	C4'-C3'	-5.46	1.47	1.52
35	BB	787	A	C4'-C3'	-5.46	1.47	1.52
35	BB	853	U	C2'-C1'	-5.46	1.47	1.53
35	BB	1193	G	C2'-C1'	-5.46	1.47	1.53
38	BE	11	A	N3-C4	-5.46	1.31	1.34
40	BG	89	A	C8-N7	-5.46	1.27	1.31
40	BG	151	A	C4'-C3'	-5.46	1.47	1.52
85	AA	10	G	N7-C5	-5.46	1.35	1.39
85	AA	66	U	C4'-C3'	5.46	1.59	1.53
85	AA	167	A	C5-C4	-5.46	1.34	1.38
34	BA	167	U	O3'-P	-5.46	1.54	1.61
34	BA	946	A	C5-C4	-5.46	1.34	1.38
34	BA	982	A	O3'-P	-5.46	1.54	1.61
34	BA	1265	G	C2'-C1'	-5.46	1.47	1.53
34	BA	1549	U	C5'-C4'	-5.46	1.44	1.51
35	BB	17	U	N3-C4	-5.46	1.33	1.38
35	BB	22	A	N3-C4	-5.46	1.31	1.34
35	BB	67	A	C3'-C2'	-5.46	1.46	1.52
35	BB	411	A	C1'-N9	-5.46	1.39	1.46
35	BB	456	A	C5-C4	-5.46	1.34	1.38
35	BB	480	C	P-O5'	-5.46	1.54	1.59
35	BB	1091	C	C2'-C1'	-5.46	1.47	1.53
35	BB	1122	C	C2'-C1'	-5.46	1.47	1.53
35	BB	1377	A	C5-C4	-5.46	1.34	1.38
35	BB	1389	C	C4'-C3'	-5.46	1.47	1.52
36	BC	4	G	C2-N3	-5.46	1.28	1.32
37	BD	96	C	C1'-N1	-5.46	1.39	1.46
38	BE	116	U	C2'-C1'	-5.46	1.47	1.53
38	BE	175	U	C5'-C4'	5.46	1.57	1.51
40	BG	74	G	N3-C4	-5.46	1.31	1.35
85	AA	2045	U	C2'-C1'	-5.46	1.47	1.53
34	BA	377	G	O3'-P	-5.46	1.54	1.61
34	BA	1413	G	O3'-P	-5.46	1.54	1.61
35	BB	266	C	P-O5'	-5.46	1.54	1.59
35	BB	645	C	C2-N3	-5.46	1.31	1.35
35	BB	1361	A	C1'-N9	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	28	C	C2-N3	-5.46	1.31	1.35
40	BG	52	A	C4'-C3'	-5.46	1.47	1.52
40	BG	136	G	N9-C8	-5.46	1.34	1.37
41	BH	108	U	C2'-C1'	-5.46	1.47	1.53
85	AA	748	C	C2'-C1'	-5.46	1.47	1.53
85	AA	1467	U	C2'-C1'	-5.46	1.47	1.53
34	BA	82	A	C5-C4	-5.45	1.34	1.38
34	BA	373	G	C5-C6	-5.45	1.36	1.42
34	BA	408	U	C1'-N1	-5.45	1.39	1.46
34	BA	499	C	C4-N4	-5.45	1.29	1.33
34	BA	648	C	C2'-C1'	-5.45	1.47	1.53
34	BA	976	C	C2'-C1'	-5.45	1.47	1.53
34	BA	1049	G	N3-C4	-5.45	1.31	1.35
34	BA	1293	A	C1'-N9	-5.45	1.39	1.46
34	BA	1427	U	C1'-N1	-5.45	1.39	1.46
34	BA	1542	A	C4'-O4'	-5.45	1.38	1.45
34	BA	1666	U	O3'-P	-5.45	1.54	1.61
36	BC	169	G	C2-N3	-5.45	1.28	1.32
38	BE	62	C	C2'-C1'	-5.45	1.47	1.53
39	BF	2	G	C2'-C1'	-5.45	1.47	1.53
40	BG	149	U	C3'-C2'	-5.45	1.46	1.52
40	BG	174	G	C8-N7	-5.45	1.27	1.30
41	BH	127	A	C5-C4	-5.45	1.34	1.38
85	AA	30	G	C5-C4	-5.45	1.34	1.38
85	AA	756	G	C6-N1	-5.45	1.35	1.39
85	AA	766	G	N9-C8	-5.45	1.34	1.37
85	AA	862	U	C3'-C2'	-5.45	1.46	1.52
85	AA	974	U	P-O5'	5.45	1.65	1.59
85	AA	1903	G	C2-N2	-5.45	1.29	1.34
85	AA	2150	G	O3'-P	-5.45	1.54	1.61
85	AA	2240	G	P-O5'	-5.45	1.54	1.59
34	BA	1202	G	N7-C5	-5.45	1.35	1.39
34	BA	1451	A	C4'-O4'	-5.45	1.38	1.45
34	BA	1661	U	C2-N3	-5.45	1.33	1.37
34	BA	1680	G	C5-C6	-5.45	1.36	1.42
35	BB	1042	U	C3'-C2'	-5.45	1.46	1.52
35	BB	1213	U	C2-N3	-5.45	1.33	1.37
36	BC	105	C	C2-N3	-5.45	1.31	1.35
40	BG	37	G	C6-N1	-5.45	1.35	1.39
85	AA	20	G	O3'-P	-5.45	1.54	1.61
85	AA	509	C	C3'-O3'	-5.45	1.34	1.42
85	AA	623	G	C5-C4	-5.45	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	978	U	C2-N3	-5.45	1.33	1.37
85	AA	2170	G	C1'-N9	-5.45	1.39	1.46
34	BA	65	A	N9-C8	-5.45	1.33	1.37
34	BA	78	U	C1'-N1	-5.45	1.39	1.46
34	BA	238	C	C1'-N1	-5.45	1.39	1.46
34	BA	450	G	C2-N2	-5.45	1.29	1.34
34	BA	677	U	C2'-C1'	-5.45	1.47	1.53
34	BA	909	G	C2-N2	-5.45	1.29	1.34
34	BA	1041	U	N1-C2	-5.45	1.33	1.38
34	BA	1506	C	C4'-O4'	-5.45	1.38	1.45
35	BB	7	C	O4'-C1'	-5.45	1.34	1.41
36	BC	38	U	P-O5'	-5.45	1.54	1.59
40	BG	156	G	C2'-C1'	-5.45	1.47	1.53
85	AA	206	U	O3'-P	-5.45	1.54	1.61
85	AA	422	G	N9-C8	-5.45	1.34	1.37
85	AA	515	C	C1'-N1	-5.45	1.39	1.46
85	AA	691	U	C5'-C4'	5.45	1.57	1.51
85	AA	886	A	P-O5'	-5.45	1.54	1.59
85	AA	1150	G	C1'-N9	-5.45	1.39	1.46
34	BA	207	A	N7-C5	-5.45	1.35	1.39
34	BA	563	A	C2'-C1'	-5.45	1.47	1.53
34	BA	932	G	N1-C2	-5.45	1.33	1.37
34	BA	1101	A	N3-C4	-5.45	1.31	1.34
34	BA	1201	G	O3'-P	-5.45	1.54	1.61
34	BA	1658	G	C6-N1	-5.45	1.35	1.39
34	BA	1696	G	C8-N7	-5.45	1.27	1.30
34	BA	1724	G	C5-C4	-5.45	1.34	1.38
35	BB	728	A	N3-C4	-5.45	1.31	1.34
35	BB	1509	G	C1'-N9	-5.45	1.39	1.46
37	BD	52	U	C2'-C1'	-5.45	1.47	1.53
39	BF	9	C	O4'-C1'	-5.45	1.34	1.41
39	BF	30	C	C1'-N1	-5.45	1.39	1.46
85	AA	14	C	P-O5'	-5.45	1.54	1.59
85	AA	382	G	C2-N2	-5.45	1.29	1.34
85	AA	2174	G	O4'-C1'	-5.45	1.34	1.41
85	AA	2179	C	C1'-N1	-5.45	1.39	1.46
34	BA	424	U	C4'-C3'	-5.45	1.47	1.52
34	BA	567	U	O3'-P	-5.45	1.54	1.61
35	BB	94	A	C8-N7	-5.45	1.27	1.31
35	BB	525	U	O3'-P	-5.45	1.54	1.61
85	AA	318	A	O4'-C1'	-5.45	1.34	1.41
31	AX	182	GLY	CA-C	-5.45	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	299	C	O3'-P	-5.45	1.54	1.61
34	BA	596	G	C8-N7	-5.45	1.27	1.30
34	BA	1433	U	P-O5'	-5.45	1.54	1.59
34	BA	1595	G	C2'-C1'	-5.45	1.47	1.53
35	BB	596	C	C4-N4	-5.45	1.29	1.33
35	BB	618	U	C2'-C1'	-5.45	1.47	1.53
35	BB	689	C	C2-N3	-5.45	1.31	1.35
38	BE	127	G	O3'-P	-5.45	1.54	1.61
38	BE	150	G	C2-N3	5.45	1.37	1.32
40	BG	31	G	C8-N7	-5.45	1.27	1.30
41	BH	26	C	N1-C2	-5.45	1.34	1.40
85	AA	267	U	C2-N3	-5.45	1.33	1.37
85	AA	1225	C	C5'-C4'	-5.45	1.44	1.51
85	AA	1351	U	O3'-P	-5.45	1.54	1.61
85	AA	1589	G	N7-C5	-5.45	1.35	1.39
85	AA	1869	U	C3'-C2'	-5.45	1.46	1.52
85	AA	2138	G	N9-C4	-5.45	1.33	1.38
34	BA	490	A	N3-C4	-5.44	1.31	1.34
34	BA	846	U	P-O5'	-5.44	1.54	1.59
34	BA	1070	G	O3'-P	-5.44	1.54	1.61
34	BA	1205	A	P-O5'	-5.44	1.54	1.59
85	AA	65	A	N7-C5	-5.44	1.35	1.39
85	AA	346	U	C2'-C1'	-5.44	1.47	1.53
85	AA	529	G	N9-C4	-5.44	1.33	1.38
85	AA	651	G	C2'-C1'	-5.44	1.47	1.53
85	AA	787	U	N1-C2	-5.44	1.33	1.38
85	AA	1320	G	O3'-P	-5.44	1.54	1.61
34	BA	631	G	C2'-C1'	-5.44	1.47	1.53
34	BA	914	G	C2'-C1'	-5.44	1.47	1.53
34	BA	1252	G	C2'-C1'	-5.44	1.47	1.53
34	BA	1415	C	C2-N3	-5.44	1.31	1.35
34	BA	1498	A	O3'-P	-5.44	1.54	1.61
37	BD	51	G	O3'-P	-5.44	1.54	1.61
40	BG	101	G	N9-C4	-5.44	1.33	1.38
85	AA	153	C	P-O5'	-5.44	1.54	1.59
85	AA	675	A	P-O5'	-5.44	1.54	1.59
85	AA	1478	G	N7-C5	-5.44	1.35	1.39
34	BA	36	A	N9-C8	-5.44	1.33	1.37
34	BA	86	A	C3'-C2'	-5.44	1.46	1.52
34	BA	94	G	N7-C5	-5.44	1.35	1.39
34	BA	269	G	N9-C8	-5.44	1.34	1.37
34	BA	373	G	C1'-N9	-5.44	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	465	A	C5-C4	-5.44	1.34	1.38
34	BA	773	A	N9-C4	-5.44	1.34	1.37
34	BA	1191	C	N1-C6	-5.44	1.33	1.37
34	BA	1461	A	C1'-N9	-5.44	1.39	1.46
35	BB	1277	A	O3'-P	-5.44	1.54	1.61
35	BB	1351	G	N1-C2	-5.44	1.33	1.37
36	BC	72	A	C1'-N9	-5.44	1.39	1.46
36	BC	148	C	C3'-C2'	-5.44	1.46	1.52
41	BH	30	C	N1-C6	-5.44	1.33	1.37
41	BH	35	G	C2-N2	-5.44	1.29	1.34
85	AA	243	A	O3'-P	-5.44	1.54	1.61
85	AA	1243	G	C3'-C2'	-5.44	1.46	1.52
85	AA	1277	C	O3'-P	-5.44	1.54	1.61
85	AA	1862	C	C3'-C2'	-5.44	1.46	1.52
85	AA	2182	A	N3-C4	-5.44	1.31	1.34
34	BA	101	G	C1'-N9	-5.44	1.39	1.46
34	BA	258	C	C2-N3	-5.44	1.31	1.35
34	BA	329	G	C2'-C1'	-5.44	1.47	1.53
34	BA	1593	U	O3'-P	-5.44	1.54	1.61
34	BA	1821	A	C1'-N9	-5.44	1.39	1.46
35	BB	1199	A	C2'-C1'	-5.44	1.47	1.53
35	BB	1308	G	N9-C8	-5.44	1.34	1.37
35	BB	1350	A	C1'-N9	-5.44	1.39	1.46
35	BB	1387	C	C2'-C1'	-5.44	1.47	1.53
38	BE	45	G	C5-C4	-5.44	1.34	1.38
38	BE	152	U	O3'-P	-5.44	1.54	1.61
38	BE	189	A	C1'-N9	-5.44	1.39	1.46
85	AA	628	C	N1-C6	-5.44	1.33	1.37
85	AA	1240	A	C5-C6	-5.44	1.36	1.41
85	AA	1668	G	C3'-C2'	-5.44	1.46	1.52
34	BA	687	G	C5'-C4'	-5.44	1.44	1.51
34	BA	750	C	O3'-P	-5.44	1.54	1.61
34	BA	1040	G	C3'-C2'	-5.44	1.46	1.52
34	BA	1451	A	C1'-N9	-5.44	1.39	1.46
35	BB	267	C	O3'-P	-5.44	1.54	1.61
35	BB	706	G	C2'-C1'	-5.44	1.47	1.53
35	BB	1187	G	N9-C4	5.44	1.42	1.38
35	BB	1513	U	C3'-C2'	-5.44	1.46	1.52
36	BC	79	A	P-O5'	-5.44	1.54	1.59
37	BD	7	G	N3-C4	-5.44	1.31	1.35
38	BE	25	U	C4-C5	-5.44	1.38	1.43
41	BH	31	A	N9-C8	-5.44	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	429	G	C2-N2	-5.44	1.29	1.34
85	AA	1146	C	C3'-C2'	-5.44	1.46	1.52
85	AA	1196	C	C4'-O4'	-5.44	1.38	1.45
85	AA	1329	U	O3'-P	-5.44	1.54	1.61
85	AA	1450	U	C4-C5	-5.44	1.38	1.43
34	BA	331	G	N3-C4	-5.44	1.31	1.35
34	BA	787	A	O3'-P	-5.44	1.54	1.61
34	BA	914	G	N9-C4	-5.44	1.33	1.38
34	BA	1569	C	O3'-P	-5.44	1.54	1.61
35	BB	1482	A	C4'-C3'	-5.44	1.47	1.52
39	BF	72	A	C3'-C2'	-5.44	1.46	1.52
41	BH	112	U	C2'-C1'	-5.44	1.47	1.53
85	AA	408	C	O3'-P	-5.44	1.54	1.61
85	AA	1172	A	N9-C4	-5.44	1.34	1.37
85	AA	1981	A	N3-C4	-5.44	1.31	1.34
27	AT	36	GLY	CA-C	-5.43	1.43	1.51
34	BA	478	G	N9-C4	-5.43	1.33	1.38
34	BA	1008	A	C1'-N9	-5.43	1.39	1.46
34	BA	1196	C	O4'-C1'	-5.43	1.34	1.41
34	BA	1253	G	C2-N2	-5.43	1.29	1.34
34	BA	1497	A	N7-C5	-5.43	1.35	1.39
34	BA	1542	A	N7-C5	-5.43	1.35	1.39
34	BA	1730	A	N9-C4	5.43	1.41	1.37
35	BB	50	A	C3'-C2'	-5.43	1.46	1.52
35	BB	396	C	P-O5'	-5.43	1.54	1.59
35	BB	529	A	C6-N1	5.43	1.39	1.35
35	BB	1349	U	C3'-C2'	-5.43	1.46	1.52
36	BC	40	A	N7-C5	-5.43	1.35	1.39
36	BC	63	G	C6-N1	-5.43	1.35	1.39
38	BE	48	G	N7-C5	-5.43	1.35	1.39
38	BE	189	A	N7-C5	-5.43	1.35	1.39
85	AA	309	G	C1'-N9	-5.43	1.39	1.46
85	AA	446	C	C4-N4	-5.43	1.29	1.33
85	AA	609	U	N3-C4	-5.43	1.33	1.38
85	AA	1926	A	O3'-P	-5.43	1.54	1.61
85	AA	2077	G	C8-N7	-5.43	1.27	1.30
34	BA	849	G	O4'-C1'	-5.43	1.34	1.41
34	BA	1588	U	C4'-C3'	-5.43	1.47	1.52
35	BB	114	A	N3-C4	-5.43	1.31	1.34
35	BB	405	U	O4'-C1'	-5.43	1.34	1.41
35	BB	490	G	C4'-C3'	-5.43	1.47	1.52
35	BB	691	A	P-O5'	-5.43	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	796	C	C4'-C3'	-5.43	1.47	1.52
35	BB	1110	G	C1'-N9	-5.43	1.39	1.46
35	BB	1253	U	N3-C4	-5.43	1.33	1.38
85	AA	657	C	O3'-P	-5.43	1.54	1.61
85	AA	680	U	O4'-C1'	-5.43	1.34	1.41
85	AA	1203	G	C2'-C1'	-5.43	1.47	1.53
85	AA	2180	C	C2-N3	-5.43	1.31	1.35
34	BA	451	A	C2'-C1'	-5.43	1.47	1.53
34	BA	1483	U	N3-C4	-5.43	1.33	1.38
35	BB	258	C	P-O5'	-5.43	1.54	1.59
40	BG	50	G	N9-C4	-5.43	1.33	1.38
85	AA	308	U	O3'-P	-5.43	1.54	1.61
85	AA	806	G	N7-C5	-5.43	1.35	1.39
85	AA	976	G	N1-C2	-5.43	1.33	1.37
85	AA	995	G	C6-N1	-5.43	1.35	1.39
34	BA	932	G	C1'-N9	-5.43	1.39	1.46
34	BA	939	C	C4-N4	-5.43	1.29	1.33
34	BA	952	G	N1-C2	-5.43	1.33	1.37
34	BA	1204	U	N3-C4	-5.43	1.33	1.38
34	BA	1414	C	C4-N4	-5.43	1.29	1.33
34	BA	1742	G	C6-N1	-5.43	1.35	1.39
35	BB	380	G	N1-C2	-5.43	1.33	1.37
35	BB	483	C	O3'-P	-5.43	1.54	1.61
35	BB	602	G	C2-N2	-5.43	1.29	1.34
35	BB	639	A	C4'-O4'	-5.43	1.38	1.45
35	BB	1173	C	P-O5'	-5.43	1.54	1.59
35	BB	1227	G	C5'-C4'	-5.43	1.44	1.51
35	BB	1387	C	C4-N4	-5.43	1.29	1.33
38	BE	205	G	N9-C4	-5.43	1.33	1.38
40	BG	27	C	C1'-N1	-5.43	1.39	1.46
85	AA	107	A	C8-N7	-5.43	1.27	1.31
85	AA	147	G	O3'-P	-5.43	1.54	1.61
85	AA	1188	A	C2'-C1'	-5.43	1.47	1.53
85	AA	1215	A	N3-C4	-5.43	1.31	1.34
85	AA	1263	G	C5-C6	-5.43	1.36	1.42
85	AA	1279	A	N9-C8	-5.43	1.33	1.37
85	AA	1368	G	N7-C5	-5.43	1.35	1.39
34	BA	71	G	C2-N2	-5.43	1.29	1.34
34	BA	100	A	C5-C4	-5.43	1.34	1.38
34	BA	711	C	C4'-C3'	5.43	1.59	1.53
34	BA	930	A	C3'-C2'	-5.43	1.46	1.52
34	BA	1245	C	C4'-C3'	-5.43	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1566	G	C2-N2	-5.43	1.29	1.34
36	BC	31	A	C3'-C2'	-5.43	1.46	1.52
85	AA	2041	G	C6-N1	-5.43	1.35	1.39
85	AA	2043	A	N7-C5	-5.43	1.35	1.39
34	BA	182	U	O3'-P	-5.43	1.54	1.61
34	BA	216	C	C4'-C3'	-5.43	1.47	1.52
34	BA	584	A	P-O5'	-5.43	1.54	1.59
34	BA	887	U	N3-C4	-5.43	1.33	1.38
34	BA	901	C	C3'-C2'	-5.43	1.46	1.52
34	BA	1641	G	C5'-C4'	-5.43	1.44	1.51
35	BB	392	G	C2-N2	-5.43	1.29	1.34
35	BB	790	A	O3'-P	-5.43	1.54	1.61
35	BB	1213	U	P-O5'	-5.43	1.54	1.59
35	BB	1414	A	O3'-P	-5.43	1.54	1.61
35	BB	1429	A	N9-C4	-5.43	1.34	1.37
35	BB	1434	G	N9-C8	-5.43	1.34	1.37
38	BE	92	C	C2'-C1'	-5.43	1.47	1.53
38	BE	95	G	C3'-C2'	-5.43	1.46	1.52
38	BE	187	G	N7-C5	-5.43	1.35	1.39
39	BF	5	U	P-O5'	-5.43	1.54	1.59
39	BF	23	G	N9-C4	-5.43	1.33	1.38
40	BG	38	A	C4'-O4'	-5.43	1.38	1.45
41	BH	34	G	N9-C8	-5.43	1.34	1.37
85	AA	168	A	O3'-P	-5.43	1.54	1.61
85	AA	341	C	C2-N3	-5.43	1.31	1.35
85	AA	384	C	C4'-C3'	-5.43	1.47	1.52
85	AA	438	G	N9-C8	-5.43	1.34	1.37
85	AA	616	A	N9-C8	-5.43	1.33	1.37
85	AA	1022	G	O3'-P	-5.43	1.54	1.61
85	AA	1478	G	C3'-C2'	-5.43	1.46	1.52
85	AA	1855	U	N3-C4	-5.43	1.33	1.38
85	AA	2067	A	O3'-P	-5.43	1.54	1.61
85	AA	2126	U	C1'-N1	-5.43	1.39	1.46
34	BA	148	G	C5-C4	-5.42	1.34	1.38
34	BA	687	G	C2-N2	-5.42	1.29	1.34
34	BA	941	G	C2'-C1'	-5.42	1.47	1.53
34	BA	1667	G	C3'-C2'	-5.42	1.46	1.52
35	BB	437	U	O3'-P	-5.42	1.54	1.61
35	BB	598	C	P-O5'	-5.42	1.54	1.59
35	BB	1215	U	O3'-P	-5.42	1.54	1.61
35	BB	1267	C	C5'-C4'	5.42	1.57	1.51
35	BB	1310	C	C1'-N1	-5.42	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	77	A	N3-C4	-5.42	1.31	1.34
41	BH	17	A	C3'-C2'	-5.42	1.46	1.52
85	AA	247	G	N1-C2	-5.42	1.33	1.37
85	AA	312	G	N1-C2	-5.42	1.33	1.37
85	AA	385	A	C5-C6	-5.42	1.36	1.41
85	AA	769	C	O4'-C1'	-5.42	1.34	1.41
34	BA	770	G	C4'-C3'	-5.42	1.47	1.52
34	BA	1455	C	C4'-C3'	-5.42	1.47	1.52
34	BA	1659	G	C2'-C1'	-5.42	1.47	1.53
34	BA	1825	U	O3'-P	-5.42	1.54	1.61
35	BB	592	G	N1-C2	-5.42	1.33	1.37
35	BB	1304	U	C4'-C3'	-5.42	1.47	1.52
35	BB	1440	A	C5-C6	-5.42	1.36	1.41
37	BD	26	C	O5'-C5'	-5.42	1.34	1.42
85	AA	89	C	C2'-C1'	-5.42	1.47	1.53
85	AA	1260	G	N3-C4	-5.42	1.31	1.35
34	BA	130	U	C3'-C2'	-5.42	1.46	1.52
34	BA	167	U	C4'-C3'	-5.42	1.47	1.52
34	BA	455	A	C2'-C1'	-5.42	1.47	1.53
34	BA	920	U	C3'-C2'	-5.42	1.46	1.52
34	BA	935	A	C8-N7	-5.42	1.27	1.31
34	BA	1245	C	N3-C4	-5.42	1.30	1.33
34	BA	1299	G	C2-N2	-5.42	1.29	1.34
35	BB	1306	G	C5-C4	-5.42	1.34	1.38
35	BB	1430	G	C4'-O4'	-5.42	1.38	1.45
35	BB	1533	U	O3'-P	-5.42	1.54	1.61
37	BD	25	G	N3-C4	-5.42	1.31	1.35
40	BG	112	C	C1'-N1	-5.42	1.39	1.46
85	AA	573	U	C2-N3	-5.42	1.33	1.37
85	AA	745	C	O3'-P	-5.42	1.54	1.61
85	AA	1292	A	C5-C6	-5.42	1.36	1.41
85	AA	1456	A	C5-C4	-5.42	1.34	1.38
85	AA	2181	G	N9-C8	-5.42	1.34	1.37
85	AA	2228	G	C5'-C4'	-5.42	1.44	1.51
34	BA	412	G	C5-C6	-5.42	1.36	1.42
34	BA	1656	A	C5-C6	-5.42	1.36	1.41
35	BB	543	G	C2-N2	-5.42	1.29	1.34
35	BB	571	C	C2'-C1'	-5.42	1.47	1.53
35	BB	610	U	C3'-C2'	-5.42	1.46	1.52
37	BD	116	C	C2'-C1'	-5.42	1.47	1.53
85	AA	3	U	C2'-C1'	-5.42	1.47	1.53
85	AA	1233	G	N3-C4	-5.42	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	16	C	C2-N3	-5.42	1.31	1.35
34	BA	307	C	C2-N3	-5.42	1.31	1.35
34	BA	387	A	O3'-P	-5.42	1.54	1.61
34	BA	670	U	N3-C4	-5.42	1.33	1.38
34	BA	1513	G	C2-N2	-5.42	1.29	1.34
35	BB	364	U	O3'-P	-5.42	1.54	1.61
35	BB	523	A	C5'-C4'	5.42	1.57	1.51
35	BB	1065	G	N3-C4	-5.42	1.31	1.35
35	BB	1066	G	C5-C6	-5.42	1.36	1.42
35	BB	1100	C	N3-C4	-5.42	1.30	1.33
35	BB	1124	G	C2-N2	-5.42	1.29	1.34
35	BB	1249	G	C8-N7	-5.42	1.27	1.30
38	BE	46	G	N9-C8	-5.42	1.34	1.37
38	BE	123	A	C5-C4	-5.42	1.34	1.38
38	BE	130	G	N1-C2	-5.42	1.33	1.37
40	BG	46	G	N9-C8	-5.42	1.34	1.37
40	BG	171	A	C5-C4	-5.42	1.34	1.38
85	AA	89	C	P-O5'	-5.42	1.54	1.59
85	AA	1137	C	N1-C6	-5.42	1.33	1.37
85	AA	1708	A	C3'-C2'	-5.42	1.46	1.52
85	AA	2228	G	C4'-C3'	-5.42	1.47	1.52
34	BA	35	U	C1'-N1	-5.42	1.39	1.46
34	BA	226	A	P-O5'	-5.42	1.54	1.59
34	BA	814	C	C2'-C1'	-5.42	1.47	1.53
34	BA	860	G	N9-C4	-5.42	1.33	1.38
34	BA	969	A	O3'-P	-5.42	1.54	1.61
34	BA	1658	G	C2-N2	-5.42	1.29	1.34
35	BB	35	G	O3'-P	-5.42	1.54	1.61
35	BB	598	C	C4-N4	-5.42	1.29	1.33
35	BB	827	U	C2-N3	-5.42	1.33	1.37
35	BB	883	G	C5'-C4'	5.42	1.57	1.51
35	BB	1252	G	C2-N2	-5.42	1.29	1.34
35	BB	1262	A	C3'-C2'	-5.42	1.46	1.52
35	BB	1329	G	O3'-P	-5.42	1.54	1.61
35	BB	1362	G	C6-N1	-5.42	1.35	1.39
35	BB	1479	C	O3'-P	-5.42	1.54	1.61
38	BE	126	G	P-O5'	-5.42	1.54	1.59
38	BE	160	C	C1'-N1	-5.42	1.39	1.46
85	AA	100	A	C6-N6	-5.42	1.29	1.33
85	AA	521	A	C3'-C2'	-5.42	1.46	1.52
85	AA	719	C	C3'-C2'	-5.42	1.46	1.52
85	AA	1827	U	P-O5'	-5.42	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1891	U	C2'-C1'	-5.42	1.47	1.53
85	AA	2244	G	C5-C6	-5.42	1.36	1.42
34	BA	362	G	C5-C4	-5.42	1.34	1.38
34	BA	1049	G	C6-N1	-5.42	1.35	1.39
34	BA	1195	G	C6-N1	-5.42	1.35	1.39
34	BA	1469	G	C5-C4	-5.42	1.34	1.38
35	BB	392	G	C2'-C1'	-5.42	1.47	1.53
35	BB	484	G	C5-C4	-5.42	1.34	1.38
85	AA	1526	G	C4'-O4'	-5.42	1.38	1.45
85	AA	1925	A	C2'-C1'	-5.42	1.47	1.53
86	AB	1	G	N9-C4	-5.42	1.33	1.38
34	BA	336	A	C3'-C2'	-5.41	1.46	1.52
34	BA	1213	A	O3'-P	-5.41	1.54	1.61
34	BA	1435	A	C3'-C2'	-5.41	1.46	1.52
35	BB	18	A	N3-C4	-5.41	1.31	1.34
35	BB	267	C	P-O5'	-5.41	1.54	1.59
35	BB	568	A	N9-C8	-5.41	1.33	1.37
35	BB	1404	A	C4'-C3'	-5.41	1.47	1.52
36	BC	36	G	C4'-O4'	-5.41	1.38	1.45
85	AA	167	A	C2'-C1'	-5.41	1.47	1.53
85	AA	1130	G	N3-C4	-5.41	1.31	1.35
85	AA	1818	C	O3'-P	-5.41	1.54	1.61
85	AA	2094	U	C5'-C4'	-5.41	1.44	1.51
34	BA	55	G	C1'-N9	-5.41	1.39	1.46
34	BA	107	C	C2'-C1'	-5.41	1.47	1.53
34	BA	811	C	C3'-C2'	-5.41	1.46	1.52
34	BA	1636	C	C3'-C2'	-5.41	1.46	1.52
34	BA	1832	A	C6-N1	-5.41	1.31	1.35
35	BB	817	C	C4-C5	-5.41	1.38	1.43
35	BB	1291	G	O3'-P	-5.41	1.54	1.61
37	BD	13	A	C1'-N9	-5.41	1.39	1.46
38	BE	206	G	C4'-C3'	-5.41	1.47	1.52
85	AA	1283	C	C4-N4	-5.41	1.29	1.33
34	BA	18	G	C2'-C1'	-5.41	1.47	1.53
34	BA	137	C	C2-N3	-5.41	1.31	1.35
34	BA	312	U	C2'-C1'	-5.41	1.47	1.53
34	BA	626	G	N7-C5	-5.41	1.36	1.39
34	BA	694	G	C5-C6	-5.41	1.36	1.42
34	BA	1246	G	N7-C5	-5.41	1.36	1.39
34	BA	1782	C	P-O5'	-5.41	1.54	1.59
35	BB	552	C	N1-C2	-5.41	1.34	1.40
35	BB	805	G	C3'-C2'	-5.41	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1244	U	N3-C4	-5.41	1.33	1.38
41	BH	19	G	N9-C8	-5.41	1.34	1.37
85	AA	339	A	C2'-C1'	-5.41	1.47	1.53
85	AA	688	C	N3-C4	-5.41	1.30	1.33
85	AA	755	G	N7-C5	-5.41	1.36	1.39
85	AA	1722	G	P-O5'	-5.41	1.54	1.59
34	BA	221	G	C2-N3	-5.41	1.28	1.32
34	BA	410	G	N7-C5	-5.41	1.36	1.39
34	BA	800	G	C2-N2	-5.41	1.29	1.34
34	BA	1152	A	C2'-C1'	-5.41	1.47	1.53
34	BA	1815	G	C1'-N9	-5.41	1.39	1.46
35	BB	511	A	C6-N1	-5.41	1.31	1.35
35	BB	648	G	C3'-C2'	-5.41	1.46	1.52
37	BD	64	A	C1'-N9	-5.41	1.39	1.46
85	AA	234	G	O3'-P	-5.41	1.54	1.61
85	AA	995	G	N1-C2	-5.41	1.33	1.37
37	BD	10	C	C2'-C1'	-5.41	1.47	1.53
41	BH	66	G	C3'-C2'	-5.41	1.46	1.52
85	AA	116	G	N3-C4	-5.41	1.31	1.35
85	AA	763	U	O4'-C1'	-5.41	1.34	1.41
85	AA	853	G	P-O5'	-5.41	1.54	1.59
34	BA	40	A	C2'-C1'	-5.41	1.47	1.53
34	BA	52	G	C8-N7	-5.41	1.27	1.30
34	BA	582	U	C2'-C1'	-5.41	1.47	1.53
34	BA	859	G	N7-C5	-5.41	1.36	1.39
34	BA	912	G	C2'-C1'	-5.41	1.47	1.53
34	BA	1348	G	P-O5'	-5.41	1.54	1.59
34	BA	1613	G	C2'-C1'	-5.41	1.47	1.53
34	BA	1652	G	C6-N1	-5.41	1.35	1.39
35	BB	539	G	C3'-C2'	-5.41	1.46	1.52
35	BB	1025	A	N7-C5	-5.41	1.36	1.39
35	BB	1385	C	C5'-C4'	-5.41	1.44	1.51
39	BF	14	C	N3-C4	5.41	1.37	1.33
39	BF	56	C	O4'-C1'	-5.41	1.34	1.41
41	BH	23	G	P-O5'	-5.41	1.54	1.59
41	BH	120	C	P-O5'	-5.41	1.54	1.59
81	Bv	75	ARG	CD-NE	5.41	1.55	1.46
85	AA	678	A	N9-C8	-5.41	1.33	1.37
85	AA	1406	U	O3'-P	-5.41	1.54	1.61
85	AA	1458	G	C5'-C4'	-5.41	1.44	1.51
85	AA	1885	A	C3'-C2'	-5.41	1.46	1.52
34	BA	295	G	C2-N2	-5.40	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1124	U	O3'-P	-5.40	1.54	1.61
34	BA	1530	G	N1-C2	-5.40	1.33	1.37
35	BB	1096	G	C2-N2	-5.40	1.29	1.34
37	BD	62	A	C2'-C1'	-5.40	1.47	1.53
37	BD	102	C	P-O5'	-5.40	1.54	1.59
85	AA	881	C	O3'-P	-5.40	1.54	1.61
85	AA	1853	U	O3'-P	-5.40	1.54	1.61
85	AA	1861	A	P-O5'	-5.40	1.54	1.59
34	BA	373	G	C5-C4	-5.40	1.34	1.38
34	BA	660	C	C2'-C1'	-5.40	1.47	1.53
34	BA	709	C	C2-N3	-5.40	1.31	1.35
34	BA	1507	C	N1-C6	-5.40	1.33	1.37
34	BA	1590	G	C3'-C2'	-5.40	1.46	1.52
35	BB	397	C	P-O5'	-5.40	1.54	1.59
35	BB	440	U	C2-N3	-5.40	1.33	1.37
35	BB	843	G	N9-C8	-5.40	1.34	1.37
35	BB	1100	C	C2-N3	-5.40	1.31	1.35
36	BC	40	A	N9-C4	-5.40	1.34	1.37
36	BC	66	G	N3-C4	-5.40	1.31	1.35
37	BD	107	G	C2'-C1'	-5.40	1.47	1.53
40	BG	169	A	N7-C5	-5.40	1.36	1.39
85	AA	270	A	N7-C5	-5.40	1.36	1.39
85	AA	1149	A	C5-C4	-5.40	1.34	1.38
85	AA	1892	G	C4'-C3'	-5.40	1.47	1.52
85	AA	2052	U	C2'-C1'	-5.40	1.47	1.53
85	AA	2223	C	C4-N4	-5.40	1.29	1.33
34	BA	428	C	C2-N3	-5.40	1.31	1.35
34	BA	1812	C	C3'-C2'	-5.40	1.46	1.52
35	BB	311	C	P-O5'	-5.40	1.54	1.59
35	BB	676	G	N9-C8	-5.40	1.34	1.37
35	BB	681	G	C3'-C2'	-5.40	1.46	1.52
35	BB	834	U	C4-C5	-5.40	1.38	1.43
37	BD	17	G	C2'-C1'	-5.40	1.47	1.53
37	BD	69	U	C2'-C1'	-5.40	1.47	1.53
38	BE	91	G	C2'-C1'	-5.40	1.47	1.53
41	BH	7	C	C2-N3	-5.40	1.31	1.35
85	AA	98	U	C2'-C1'	-5.40	1.47	1.53
85	AA	421	G	C3'-C2'	-5.40	1.46	1.52
85	AA	497	G	N9-C4	-5.40	1.33	1.38
85	AA	1111	A	N7-C5	-5.40	1.36	1.39
85	AA	1245	U	O3'-P	-5.40	1.54	1.61
85	AA	1438	C	O3'-P	-5.40	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1444	U	N3-C4	-5.40	1.33	1.38
85	AA	1894	G	C1'-N9	-5.40	1.39	1.46
85	AA	2176	U	C2'-C1'	-5.40	1.47	1.53
34	BA	510	U	C5'-C4'	5.40	1.57	1.51
34	BA	1238	C	C3'-C2'	-5.40	1.46	1.52
35	BB	489	A	P-O5'	-5.40	1.54	1.59
39	BF	9	C	N3-C4	-5.40	1.30	1.33
85	AA	367	A	P-O5'	-5.40	1.54	1.59
85	AA	484	G	O3'-P	-5.40	1.54	1.61
34	BA	716	C	C4'-O4'	-5.40	1.38	1.45
35	BB	408	U	C2'-C1'	-5.40	1.47	1.53
35	BB	649	A	C2'-C1'	-5.40	1.47	1.53
35	BB	1226	G	C5-C6	-5.40	1.36	1.42
38	BE	115	U	O3'-P	-5.40	1.54	1.61
38	BE	117	A	N3-C4	-5.40	1.31	1.34
40	BG	96	C	O3'-P	-5.40	1.54	1.61
40	BG	109	C	N1-C6	-5.40	1.33	1.37
85	AA	179	G	C4'-O4'	-5.40	1.38	1.45
85	AA	394	C	C4-N4	-5.40	1.29	1.33
85	AA	888	A	N7-C5	-5.40	1.36	1.39
85	AA	912	C	O3'-P	-5.40	1.54	1.61
85	AA	1356	U	C2-N3	-5.40	1.33	1.37
85	AA	2107	C	C3'-C2'	-5.40	1.46	1.52
34	BA	470	C	C3'-C2'	-5.40	1.46	1.52
34	BA	851	C	C2-N3	-5.40	1.31	1.35
34	BA	921	G	C1'-N9	-5.40	1.39	1.46
34	BA	1282	G	C2-N3	-5.40	1.28	1.32
34	BA	1414	C	C2-N3	-5.40	1.31	1.35
34	BA	1795	A	N9-C8	-5.40	1.33	1.37
35	BB	1427	A	N9-C4	-5.40	1.34	1.37
36	BC	108	A	N9-C8	-5.40	1.33	1.37
85	AA	719	C	C2-N3	-5.40	1.31	1.35
85	AA	2150	G	N7-C5	-5.40	1.36	1.39
86	AB	15	G	C6-N1	-5.40	1.35	1.39
34	BA	32	A	C8-N7	-5.39	1.27	1.31
34	BA	543	A	N7-C5	-5.39	1.36	1.39
34	BA	933	U	C4'-C3'	-5.39	1.47	1.52
34	BA	942	G	C2'-C1'	-5.39	1.47	1.53
34	BA	1045	C	C2-N3	-5.39	1.31	1.35
35	BB	574	G	C5-C4	-5.39	1.34	1.38
35	BB	1059	U	O3'-P	-5.39	1.54	1.61
36	BC	88	A	C2'-C1'	-5.39	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	119	G	O4'-C1'	-5.39	1.34	1.41
40	BG	9	G	C2-N2	-5.39	1.29	1.34
40	BG	126	G	C5-C6	-5.39	1.36	1.42
65	Bf	93	HIS	N-CA	-5.39	1.35	1.46
85	AA	637	U	O4'-C1'	-5.39	1.34	1.41
85	AA	1471	G	C2-N2	-5.39	1.29	1.34
85	AA	1790	G	P-O5'	-5.39	1.54	1.59
34	BA	515	U	O3'-P	-5.39	1.54	1.61
34	BA	1270	G	C4'-C3'	-5.39	1.47	1.52
34	BA	1323	G	C6-N1	-5.39	1.35	1.39
34	BA	1552	C	C3'-C2'	-5.39	1.46	1.52
34	BA	1667	G	C1'-N9	-5.39	1.39	1.46
34	BA	1686	G	C5-C6	-5.39	1.36	1.42
35	BB	58	G	C2'-C1'	-5.39	1.47	1.53
35	BB	766	G	C4'-C3'	-5.39	1.47	1.52
35	BB	1065	G	P-O5'	-5.39	1.54	1.59
35	BB	1094	A	O4'-C1'	-5.39	1.34	1.41
37	BD	98	G	C2'-C1'	-5.39	1.47	1.53
85	AA	339	A	P-O5'	-5.39	1.54	1.59
85	AA	359	A	O3'-P	-5.39	1.54	1.61
85	AA	1236	G	C2-N2	-5.39	1.29	1.34
85	AA	2013	A	O3'-P	-5.39	1.54	1.61
85	AA	2238	C	O3'-P	-5.39	1.54	1.61
34	BA	900	A	C4'-C3'	-5.39	1.47	1.52
35	BB	1055	G	C1'-N9	-5.39	1.39	1.46
35	BB	1418	C	C4-N4	-5.39	1.29	1.33
64	Be	83	PHE	CB-CG	-5.39	1.42	1.51
85	AA	84	C	C2'-C1'	-5.39	1.47	1.53
34	BA	167	U	N3-C4	-5.39	1.33	1.38
34	BA	328	A	P-O5'	-5.39	1.54	1.59
34	BA	894	G	C5-C6	-5.39	1.36	1.42
34	BA	1071	G	C5-C4	-5.39	1.34	1.38
34	BA	1709	A	C6-N6	-5.39	1.29	1.33
35	BB	804	U	O4'-C1'	-5.39	1.34	1.41
35	BB	1103	A	C5-C6	-5.39	1.36	1.41
35	BB	1422	G	C4'-C3'	-5.39	1.47	1.52
36	BC	49	G	C5-C4	-5.39	1.34	1.38
37	BD	86	A	C5-C4	-5.39	1.34	1.38
38	BE	93	U	C4-C5	-5.39	1.38	1.43
85	AA	11	A	C5-C4	-5.39	1.34	1.38
85	AA	767	A	C4'-C3'	5.39	1.59	1.53
85	AA	1232	U	C2-N3	-5.39	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1242	A	C3'-C2'	-5.39	1.46	1.52
85	AA	1528	A	C3'-C2'	-5.39	1.46	1.52
34	BA	1437	G	C4'-C3'	-5.39	1.47	1.52
34	BA	1508	C	O3'-P	-5.39	1.54	1.61
35	BB	441	G	C4'-O4'	-5.39	1.38	1.45
35	BB	1234	G	C4'-C3'	-5.39	1.47	1.52
35	BB	1538	G	N9-C8	-5.39	1.34	1.37
36	BC	147	G	C5-C4	-5.39	1.34	1.38
38	BE	65	U	O3'-P	-5.39	1.54	1.61
85	AA	38	C	C3'-C2'	-5.39	1.46	1.52
85	AA	488	G	N9-C4	5.39	1.42	1.38
85	AA	858	G	P-O5'	-5.39	1.54	1.59
85	AA	1531	G	C2'-C1'	-5.39	1.47	1.53
34	BA	84	U	C5'-C4'	-5.39	1.44	1.51
34	BA	178	C	P-O5'	-5.39	1.54	1.59
34	BA	216	C	C2-N3	-5.39	1.31	1.35
34	BA	520	G	P-O5'	-5.39	1.54	1.59
34	BA	538	G	N7-C5	-5.39	1.36	1.39
34	BA	621	G	O3'-P	-5.39	1.54	1.61
34	BA	883	C	P-O5'	-5.39	1.54	1.59
34	BA	1322	A	P-O5'	-5.39	1.54	1.59
35	BB	53	C	C1'-N1	-5.39	1.39	1.46
35	BB	104	G	C2-N2	-5.39	1.29	1.34
35	BB	109	U	C3'-C2'	-5.39	1.46	1.52
35	BB	789	G	C6-N1	-5.39	1.35	1.39
36	BC	13	U	C2-N3	-5.39	1.33	1.37
37	BD	74	A	C8-N7	-5.39	1.27	1.31
40	BG	119	A	N9-C4	-5.39	1.34	1.37
41	BH	75	G	O3'-P	-5.39	1.54	1.61
85	AA	694	A	C4'-C3'	-5.39	1.47	1.52
85	AA	869	A	O4'-C1'	-5.39	1.34	1.41
85	AA	1058	G	P-O5'	-5.39	1.54	1.59
85	AA	1195	U	C3'-C2'	-5.39	1.46	1.52
85	AA	1370	G	N7-C5	-5.39	1.36	1.39
85	AA	1486	G	C2-N2	-5.39	1.29	1.34
85	AA	2134	U	C2-N3	-5.39	1.33	1.37
34	BA	412	G	C6-N1	-5.38	1.35	1.39
34	BA	478	G	C5'-C4'	5.38	1.57	1.51
34	BA	821	G	C3'-O3'	5.38	1.49	1.42
34	BA	861	C	C2'-C1'	-5.38	1.47	1.53
34	BA	1177	C	C5'-C4'	-5.38	1.44	1.51
34	BA	1327	G	N3-C4	-5.38	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1648	G	C4'-C3'	-5.38	1.47	1.52
34	BA	1691	G	O4'-C1'	-5.38	1.34	1.41
34	BA	1825	U	C4'-O4'	-5.38	1.38	1.45
35	BB	19	C	C1'-N1	-5.38	1.39	1.46
35	BB	50	A	C5-C4	-5.38	1.34	1.38
35	BB	751	A	C2'-C1'	-5.38	1.47	1.53
35	BB	1220	A	C3'-O3'	-5.38	1.34	1.42
37	BD	100	A	C2'-C1'	-5.38	1.47	1.53
37	BD	104	C	P-O5'	-5.38	1.54	1.59
38	BE	51	C	C4-N4	-5.38	1.29	1.33
39	BF	42	G	N1-C2	-5.38	1.33	1.37
40	BG	76	C	C3'-C2'	-5.38	1.46	1.52
41	BH	92	A	N3-C4	5.38	1.38	1.34
85	AA	2	A	C5'-C4'	5.38	1.57	1.51
85	AA	50	C	C2-N3	-5.38	1.31	1.35
85	AA	318	A	P-O5'	-5.38	1.54	1.59
85	AA	598	C	C5'-C4'	5.38	1.57	1.51
85	AA	690	G	C3'-C2'	-5.38	1.46	1.52
85	AA	1288	A	C3'-C2'	-5.38	1.46	1.52
85	AA	1378	U	O3'-P	-5.38	1.54	1.61
85	AA	1951	U	C2'-C1'	-5.38	1.47	1.53
34	BA	757	G	C3'-O3'	-5.38	1.34	1.42
35	BB	666	A	N7-C5	-5.38	1.36	1.39
38	BE	121	G	C3'-C2'	-5.38	1.46	1.52
85	AA	393	C	C4'-O4'	-5.38	1.38	1.45
85	AA	802	A	C2'-C1'	-5.38	1.47	1.53
34	BA	166	G	C1'-N9	-5.38	1.39	1.46
34	BA	366	G	C4'-O4'	-5.38	1.38	1.45
34	BA	702	G	C5'-C4'	5.38	1.57	1.51
34	BA	956	G	N3-C4	-5.38	1.31	1.35
34	BA	992	A	C3'-C2'	-5.38	1.46	1.52
34	BA	1261	G	C2-N2	-5.38	1.29	1.34
34	BA	1516	G	N7-C5	-5.38	1.36	1.39
35	BB	132	G	N9-C4	-5.38	1.33	1.38
35	BB	539	G	C2-N3	-5.38	1.28	1.32
35	BB	708	C	C2'-C1'	-5.38	1.47	1.53
35	BB	1089	A	C3'-C2'	-5.38	1.46	1.52
35	BB	1405	G	C6-N1	-5.38	1.35	1.39
37	BD	5	A	P-O5'	-5.38	1.54	1.59
38	BE	180	G	N7-C5	-5.38	1.36	1.39
85	AA	53	G	N1-C2	-5.38	1.33	1.37
85	AA	66	U	C5'-C4'	5.38	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	181	A	C4'-C3'	-5.38	1.47	1.52
85	AA	585	G	O3'-P	-5.38	1.54	1.61
85	AA	1522	U	O3'-P	-5.38	1.54	1.61
85	AA	1665	G	C2-N2	-5.38	1.29	1.34
85	AA	2089	G	C3'-C2'	-5.38	1.46	1.52
34	BA	758	G	C2'-C1'	-5.38	1.47	1.53
34	BA	1170	A	C5-C4	-5.38	1.34	1.38
35	BB	568	A	N3-C4	-5.38	1.31	1.34
35	BB	1158	C	C2-N3	-5.38	1.31	1.35
36	BC	67	U	C2-N3	-5.38	1.33	1.37
39	BF	2	G	P-O5'	-5.38	1.54	1.59
85	AA	335	G	C6-N1	-5.38	1.35	1.39
85	AA	1116	G	C5-C4	-5.38	1.34	1.38
34	BA	364	C	P-O5'	-5.38	1.54	1.59
34	BA	767	U	C2'-C1'	-5.38	1.47	1.53
34	BA	892	C	C4'-C3'	-5.38	1.47	1.52
34	BA	1201	G	C1'-N9	-5.38	1.39	1.46
35	BB	13	A	C3'-C2'	-5.38	1.46	1.52
35	BB	1394	A	O3'-P	-5.38	1.54	1.61
35	BB	1403	G	C2'-C1'	-5.38	1.47	1.53
85	AA	457	G	O4'-C1'	-5.38	1.34	1.41
85	AA	756	G	C2'-C1'	-5.38	1.47	1.53
85	AA	877	G	C3'-C2'	-5.38	1.46	1.52
85	AA	1009	G	C2-N2	-5.38	1.29	1.34
85	AA	1484	G	N9-C8	-5.38	1.34	1.37
34	BA	17	A	N7-C5	-5.38	1.36	1.39
34	BA	55	G	P-O5'	-5.38	1.54	1.59
34	BA	912	G	C3'-C2'	-5.38	1.46	1.52
34	BA	1214	U	C2'-C1'	-5.38	1.47	1.53
34	BA	1307	U	C1'-N1	5.38	1.56	1.48
34	BA	1486	U	N1-C2	5.38	1.43	1.38
34	BA	1577	U	O3'-P	-5.38	1.54	1.61
34	BA	1596	C	C1'-N1	-5.38	1.39	1.46
35	BB	1154	C	C2-N3	-5.38	1.31	1.35
38	BE	124	G	N3-C4	-5.38	1.31	1.35
40	BG	81	G	C2-N2	-5.38	1.29	1.34
40	BG	89	A	C6-N6	-5.38	1.29	1.33
85	AA	880	A	N7-C5	-5.38	1.36	1.39
85	AA	1104	G	C4'-C3'	-5.38	1.47	1.52
85	AA	1441	G	N3-C4	-5.38	1.31	1.35
85	AA	1457	C	N1-C6	5.38	1.40	1.37
85	AA	1489	G	N9-C4	-5.38	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1501	A	C3'-C2'	-5.38	1.46	1.52
85	AA	1540	A	C8-N7	-5.38	1.27	1.31
34	BA	1098	G	C3'-C2'	-5.38	1.46	1.52
34	BA	1321	A	C6-N1	5.38	1.39	1.35
34	BA	1490	U	C3'-O3'	5.38	1.49	1.42
35	BB	474	G	C2-N2	-5.38	1.29	1.34
35	BB	550	G	C2'-C1'	-5.38	1.47	1.53
35	BB	669	A	P-O5'	-5.38	1.54	1.59
35	BB	993	A	O3'-P	-5.38	1.54	1.61
35	BB	1198	C	C2'-C1'	-5.38	1.47	1.53
41	BH	48	G	N7-C5	-5.38	1.36	1.39
85	AA	779	G	O3'-P	-5.38	1.54	1.61
85	AA	822	U	C3'-C2'	-5.38	1.46	1.52
85	AA	1230	U	C2-N3	-5.38	1.33	1.37
34	BA	135	G	C5-C6	-5.37	1.36	1.42
34	BA	320	G	C2-N2	-5.37	1.29	1.34
34	BA	453	A	C5-C4	-5.37	1.34	1.38
34	BA	1516	G	N3-C4	-5.37	1.31	1.35
35	BB	41	A	N9-C4	-5.37	1.34	1.37
35	BB	997	G	C6-N1	-5.37	1.35	1.39
36	BC	8	C	C2-N3	-5.37	1.31	1.35
38	BE	98	C	P-O5'	-5.37	1.54	1.59
40	BG	50	G	N3-C4	-5.37	1.31	1.35
41	BH	19	G	C6-N1	-5.37	1.35	1.39
67	Bh	64	ARG	CA-C	-5.37	1.39	1.52
85	AA	312	G	C1'-N9	-5.37	1.39	1.46
85	AA	524	A	N9-C4	-5.37	1.34	1.37
85	AA	1490	A	O4'-C1'	-5.37	1.34	1.41
34	BA	198	U	C2-N3	-5.37	1.33	1.37
34	BA	276	C	C1'-N1	-5.37	1.39	1.46
34	BA	448	U	C3'-C2'	-5.37	1.46	1.52
34	BA	486	G	O4'-C1'	-5.37	1.34	1.41
34	BA	609	G	C4'-C3'	-5.37	1.47	1.52
34	BA	795	G	N3-C4	-5.37	1.31	1.35
34	BA	908	G	N1-C2	-5.37	1.33	1.37
34	BA	1613	G	C2-N2	-5.37	1.29	1.34
35	BB	609	G	C5-C4	-5.37	1.34	1.38
35	BB	956	G	O3'-P	-5.37	1.54	1.61
35	BB	1075	A	C5-C4	-5.37	1.34	1.38
35	BB	1142	C	P-O5'	-5.37	1.54	1.59
35	BB	1409	G	C5-C4	-5.37	1.34	1.38
36	BC	139	A	O3'-P	-5.37	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	44	G	N1-C2	-5.37	1.33	1.37
40	BG	58	G	C5'-C4'	-5.37	1.45	1.51
41	BH	64	U	P-O5'	-5.37	1.54	1.59
85	AA	1454	U	N1-C6	-5.37	1.33	1.38
34	BA	415	C	C2-N3	-5.37	1.31	1.35
34	BA	1097	G	C2-N2	-5.37	1.29	1.34
34	BA	1303	U	C2-N3	-5.37	1.33	1.37
34	BA	1327	G	C2-N2	-5.37	1.29	1.34
34	BA	1457	C	C1'-N1	-5.37	1.39	1.46
35	BB	742	G	C2'-C1'	-5.37	1.47	1.53
35	BB	1261	U	C2'-C1'	-5.37	1.47	1.53
36	BC	91	G	N1-C2	-5.37	1.33	1.37
85	AA	160	A	C6-N1	-5.37	1.31	1.35
34	BA	525	A	C3'-C2'	-5.37	1.46	1.52
34	BA	873	G	C2'-C1'	-5.37	1.47	1.53
34	BA	1181	G	C2'-C1'	-5.37	1.47	1.53
35	BB	425	G	N3-C4	-5.37	1.31	1.35
35	BB	845	C	C3'-C2'	-5.37	1.46	1.52
35	BB	1059	U	C2-N3	-5.37	1.33	1.37
35	BB	1365	G	C2-N2	-5.37	1.29	1.34
35	BB	1374	U	N1-C6	-5.37	1.33	1.38
35	BB	1424	G	C2-N3	-5.37	1.28	1.32
40	BG	16	G	N1-C2	-5.37	1.33	1.37
40	BG	149	U	N1-C6	-5.37	1.33	1.38
48	BO	35	GLY	CA-C	-5.37	1.43	1.51
74	Bo	79	VAL	CA-CB	-5.37	1.43	1.54
85	AA	779	G	N9-C8	-5.37	1.34	1.37
85	AA	934	A	N7-C5	-5.37	1.36	1.39
85	AA	1842	C	P-O5'	-5.37	1.54	1.59
34	BA	46	C	P-O5'	-5.37	1.54	1.59
34	BA	86	A	N3-C4	-5.37	1.31	1.34
34	BA	1213	A	N9-C8	-5.37	1.33	1.37
41	BH	72	G	O4'-C1'	-5.37	1.34	1.41
85	AA	66	U	C4'-O4'	-5.37	1.38	1.45
85	AA	439	U	C1'-N1	-5.37	1.39	1.46
85	AA	1447	U	P-O5'	-5.37	1.54	1.59
85	AA	1760	C	P-O5'	-5.37	1.54	1.59
85	AA	2128	G	O4'-C1'	-5.37	1.34	1.41
34	BA	162	G	N7-C5	-5.37	1.36	1.39
34	BA	363	G	C5-C6	-5.37	1.36	1.42
34	BA	455	A	C5-C4	-5.37	1.34	1.38
34	BA	1046	G	N1-C2	-5.37	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1166	A	C4'-C3'	-5.37	1.47	1.52
34	BA	1580	U	C4'-O4'	-5.37	1.38	1.45
35	BB	16	G	O4'-C1'	-5.37	1.34	1.41
35	BB	1087	A	C5-C4	-5.37	1.34	1.38
38	BE	50	G	P-O5'	-5.37	1.54	1.59
41	BH	18	C	C4'-C3'	-5.37	1.47	1.52
85	AA	189	G	N9-C8	-5.37	1.34	1.37
85	AA	250	C	O3'-P	-5.37	1.54	1.61
85	AA	267	U	P-O5'	-5.37	1.54	1.59
85	AA	712	U	O3'-P	-5.37	1.54	1.61
85	AA	1507	G	P-O5'	-5.37	1.54	1.59
85	AA	2014	G	P-O5'	-5.37	1.54	1.59
34	BA	26	C	C4-N4	-5.36	1.29	1.33
34	BA	292	C	C2-N3	-5.36	1.31	1.35
34	BA	754	G	C6-N1	-5.36	1.35	1.39
34	BA	919	A	N3-C4	-5.36	1.31	1.34
34	BA	1839	G	C4'-C3'	-5.36	1.47	1.52
35	BB	739	C	P-O5'	-5.36	1.54	1.59
36	BC	40	A	C3'-C2'	-5.36	1.46	1.52
36	BC	104	A	C5'-C4'	-5.36	1.45	1.51
38	BE	146	U	O3'-P	-5.36	1.54	1.61
85	AA	411	U	O4'-C1'	-5.36	1.34	1.41
85	AA	651	G	C3'-C2'	-5.36	1.46	1.52
85	AA	883	A	C5-C4	-5.36	1.34	1.38
85	AA	1019	U	O3'-P	-5.36	1.54	1.61
85	AA	1295	G	O3'-P	-5.36	1.54	1.61
85	AA	1456	A	C4'-O4'	5.36	1.52	1.45
85	AA	1935	G	N7-C5	-5.36	1.36	1.39
34	BA	1249	G	C2-N2	-5.36	1.29	1.34
34	BA	1567	G	C2-N2	-5.36	1.29	1.34
35	BB	49	A	C5-C4	-5.36	1.34	1.38
35	BB	840	C	C2'-C1'	-5.36	1.47	1.53
35	BB	1299	G	C2'-C1'	-5.36	1.47	1.53
35	BB	1351	G	C2'-C1'	-5.36	1.47	1.53
35	BB	1419	G	C2-N2	-5.36	1.29	1.34
61	Bb	71	PRO	N-CA	-5.36	1.38	1.47
85	AA	820	G	C6-N1	-5.36	1.35	1.39
85	AA	900	G	N1-C2	-5.36	1.33	1.37
85	AA	1512	U	C2'-C1'	-5.36	1.47	1.53
85	AA	1708	A	O4'-C1'	-5.36	1.34	1.41
27	AT	117	ARG	CD-NE	5.36	1.55	1.46
34	BA	359	G	C2'-C1'	-5.36	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	933	U	C3'-C2'	-5.36	1.46	1.52
34	BA	986	G	O3'-P	-5.36	1.54	1.61
34	BA	1363	A	C1'-N9	-5.36	1.39	1.46
34	BA	1428	G	C5-C6	-5.36	1.36	1.42
34	BA	1439	C	C4'-C3'	-5.36	1.47	1.52
34	BA	1546	C	O3'-P	-5.36	1.54	1.61
35	BB	664	A	O3'-P	-5.36	1.54	1.61
85	AA	506	G	P-O5'	-5.36	1.54	1.59
85	AA	1508	A	P-O5'	-5.36	1.54	1.59
85	AA	1727	U	C4'-O4'	-5.36	1.38	1.45
85	AA	2041	G	N9-C8	-5.36	1.34	1.37
34	BA	1163	G	C3'-C2'	-5.36	1.46	1.52
34	BA	1448	G	O3'-P	-5.36	1.54	1.61
34	BA	1565	U	C5'-C4'	5.36	1.57	1.51
34	BA	1706	A	C5-C4	-5.36	1.34	1.38
40	BG	117	C	N1-C6	-5.36	1.33	1.37
40	BG	172	C	O4'-C1'	-5.36	1.34	1.41
41	BH	106	G	N9-C4	-5.36	1.33	1.38
34	BA	77	C	C4-N4	-5.36	1.29	1.33
34	BA	146	G	C5-C4	-5.36	1.34	1.38
34	BA	292	C	N1-C6	-5.36	1.33	1.37
34	BA	331	G	N1-C2	-5.36	1.33	1.37
34	BA	696	A	N9-C8	-5.36	1.33	1.37
34	BA	823	G	C6-N1	-5.36	1.35	1.39
34	BA	852	C	C4-N4	-5.36	1.29	1.33
34	BA	1729	G	N7-C5	-5.36	1.36	1.39
35	BB	115	A	C1'-N9	-5.36	1.39	1.46
35	BB	134	G	P-O5'	-5.36	1.54	1.59
35	BB	366	G	C1'-N9	-5.36	1.39	1.46
35	BB	428	G	C4'-C3'	-5.36	1.47	1.52
35	BB	586	U	C1'-N1	-5.36	1.39	1.46
35	BB	1414	A	C5-C4	-5.36	1.35	1.38
35	BB	1504	U	C1'-N1	-5.36	1.39	1.46
36	BC	160	C	C5'-C4'	-5.36	1.45	1.51
85	AA	574	U	O3'-P	-5.36	1.54	1.61
85	AA	688	C	C1'-N1	-5.36	1.39	1.46
85	AA	1244	A	C1'-N9	-5.36	1.39	1.46
85	AA	1608	U	P-O5'	-5.36	1.54	1.59
85	AA	1700	C	C1'-N1	-5.36	1.39	1.46
85	AA	2190	U	O3'-P	-5.36	1.54	1.61
34	BA	262	A	C6-N6	-5.36	1.29	1.33
34	BA	359	G	O3'-P	-5.36	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	726	G	C3'-C2'	-5.36	1.46	1.52
34	BA	1253	G	N9-C8	-5.36	1.34	1.37
34	BA	1354	G	C1'-N9	-5.36	1.39	1.46
34	BA	1709	A	C2'-C1'	-5.36	1.47	1.53
35	BB	370	A	C4'-O4'	-5.36	1.38	1.45
35	BB	555	G	N9-C4	-5.36	1.33	1.38
35	BB	702	G	C6-N1	-5.36	1.35	1.39
35	BB	1342	C	O4'-C1'	-5.36	1.34	1.41
38	BE	26	G	C8-N7	-5.36	1.27	1.30
38	BE	61	A	C1'-N9	-5.36	1.39	1.46
41	BH	74	G	C2-N3	5.36	1.37	1.32
85	AA	243	A	C6-N6	-5.36	1.29	1.33
85	AA	1506	U	C2-N3	-5.36	1.34	1.37
85	AA	2187	G	C5'-C4'	-5.36	1.45	1.51
34	BA	1264	U	C3'-C2'	-5.35	1.46	1.52
34	BA	1405	A	N3-C4	-5.35	1.31	1.34
34	BA	1435	A	C8-N7	-5.35	1.27	1.31
35	BB	520	G	C5-C4	-5.35	1.34	1.38
35	BB	896	C	C4-N4	-5.35	1.29	1.33
36	BC	56	G	C5-C4	-5.35	1.34	1.38
37	BD	86	A	C1'-N9	-5.35	1.39	1.46
56	BW	109	GLY	CA-C	-5.35	1.43	1.51
85	AA	1515	A	C4'-O4'	-5.35	1.38	1.45
34	BA	143	A	O3'-P	-5.35	1.54	1.61
34	BA	774	A	N3-C4	-5.35	1.31	1.34
34	BA	845	U	P-O5'	-5.35	1.54	1.59
35	BB	590	G	C2'-C1'	-5.35	1.47	1.53
35	BB	657	A	C5'-C4'	-5.35	1.45	1.51
35	BB	1308	G	N3-C4	-5.35	1.31	1.35
38	BE	99	C	C4'-C3'	-5.35	1.47	1.52
41	BH	3	U	P-O5'	-5.35	1.54	1.59
41	BH	23	G	C4'-O4'	-5.35	1.38	1.45
41	BH	74	G	C5'-C4'	5.35	1.57	1.51
85	AA	879	G	N3-C4	-5.35	1.31	1.35
85	AA	882	C	P-O5'	-5.35	1.54	1.59
85	AA	1009	G	C2'-C1'	-5.35	1.47	1.53
85	AA	1196	C	C4'-C3'	-5.35	1.47	1.52
85	AA	1822	G	P-O5'	-5.35	1.54	1.59
85	AA	1864	G	C5-C4	-5.35	1.34	1.38
34	BA	540	G	N7-C5	-5.35	1.36	1.39
34	BA	1741	G	C1'-N9	-5.35	1.39	1.46
35	BB	515	C	C4-N4	-5.35	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	805	G	C2-N2	-5.35	1.29	1.34
37	BD	30	A	C1'-N9	-5.35	1.39	1.46
40	BG	174	G	C1'-N9	-5.35	1.39	1.46
85	AA	162	A	C8-N7	-5.35	1.27	1.31
85	AA	995	G	N9-C8	-5.35	1.34	1.37
85	AA	1288	A	N9-C4	-5.35	1.34	1.37
34	BA	73	G	N9-C8	-5.35	1.34	1.37
34	BA	364	C	C4'-O4'	-5.35	1.38	1.45
34	BA	776	U	C4'-O4'	-5.35	1.38	1.45
34	BA	850	C	O3'-P	-5.35	1.54	1.61
34	BA	977	G	C8-N7	-5.35	1.27	1.30
34	BA	1028	A	C8-N7	-5.35	1.27	1.31
34	BA	1522	G	N9-C8	-5.35	1.34	1.37
35	BB	28	G	N9-C8	-5.35	1.34	1.37
35	BB	594	U	C1'-N1	-5.35	1.39	1.46
35	BB	879	G	C5'-C4'	5.35	1.57	1.51
35	BB	1003	G	C6-N1	-5.35	1.35	1.39
35	BB	1210	U	N1-C2	-5.35	1.33	1.38
35	BB	1314	G	N7-C5	-5.35	1.36	1.39
35	BB	1435	G	C8-N7	-5.35	1.27	1.30
35	BB	1449	G	C2-N2	-5.35	1.29	1.34
36	BC	59	A	N3-C4	-5.35	1.31	1.34
36	BC	121	G	C1'-N9	-5.35	1.39	1.46
37	BD	60	C	N1-C6	-5.35	1.33	1.37
38	BE	202	C	N3-C4	-5.35	1.30	1.33
39	BF	27	G	O3'-P	-5.35	1.54	1.61
83	Bx	50	GLY	CA-C	5.35	1.60	1.51
85	AA	48	G	P-O5'	-5.35	1.54	1.59
85	AA	109	G	C2-N2	-5.35	1.29	1.34
85	AA	208	U	P-O5'	-5.35	1.54	1.59
85	AA	575	G	C5-C4	-5.35	1.34	1.38
85	AA	676	U	C2-N3	-5.35	1.34	1.37
85	AA	1227	A	C2'-C1'	-5.35	1.47	1.53
34	BA	124	G	C4'-C3'	-5.35	1.47	1.52
34	BA	242	U	P-O5'	-5.35	1.54	1.59
34	BA	378	C	C2-N3	-5.35	1.31	1.35
34	BA	1007	G	P-O5'	-5.35	1.54	1.59
34	BA	1065	U	C4'-C3'	-5.35	1.47	1.52
34	BA	1151	A	C2'-C1'	-5.35	1.47	1.53
34	BA	1273	U	O4'-C1'	-5.35	1.34	1.41
35	BB	973	G	O3'-P	-5.35	1.54	1.61
35	BB	1123	A	O4'-C1'	-5.35	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1231	U	C5'-C4'	5.35	1.57	1.51
36	BC	60	U	C4-C5	-5.35	1.38	1.43
37	BD	43	U	C2-N3	-5.35	1.34	1.37
39	BF	55	A	C4'-C3'	5.35	1.59	1.53
41	BH	17	A	N3-C4	-5.35	1.31	1.34
85	AA	51	A	N9-C4	-5.35	1.34	1.37
85	AA	86	G	C2'-C1'	-5.35	1.47	1.53
85	AA	446	C	C2'-C1'	-5.35	1.47	1.53
85	AA	471	U	N3-C4	-5.35	1.33	1.38
85	AA	939	A	C5-C6	-5.35	1.36	1.41
85	AA	1002	G	O3'-P	-5.35	1.54	1.61
85	AA	1252	A	N7-C5	-5.35	1.36	1.39
34	BA	1677	C	C4-N4	-5.35	1.29	1.33
35	BB	523	A	O3'-P	-5.35	1.54	1.61
35	BB	859	U	C2'-C1'	-5.35	1.47	1.53
35	BB	1288	G	C2-N2	-5.35	1.29	1.34
35	BB	1351	G	C2-N2	-5.35	1.29	1.34
36	BC	28	C	C2-O2	-5.35	1.19	1.24
37	BD	18	G	C3'-C2'	-5.35	1.46	1.52
85	AA	118	C	C4-N4	-5.35	1.29	1.33
85	AA	2092	A	C1'-N9	-5.35	1.39	1.46
85	AA	2208	G	P-O5'	-5.35	1.54	1.59
34	BA	235	C	C4-C5	-5.34	1.38	1.43
34	BA	726	G	C5-C6	-5.34	1.37	1.42
34	BA	1160	U	C3'-C2'	-5.34	1.46	1.52
34	BA	1520	A	C5-C4	-5.34	1.35	1.38
35	BB	494	C	P-O5'	-5.34	1.54	1.59
35	BB	1066	G	N9-C8	-5.34	1.34	1.37
35	BB	1104	A	C1'-N9	-5.34	1.39	1.46
35	BB	1154	C	C1'-N1	-5.34	1.39	1.46
35	BB	1249	G	N9-C8	-5.34	1.34	1.37
35	BB	1275	A	C2'-C1'	-5.34	1.47	1.53
37	BD	19	C	O3'-P	-5.34	1.54	1.61
37	BD	79	G	C2-N3	-5.34	1.28	1.32
38	BE	9	C	C3'-C2'	-5.34	1.46	1.52
38	BE	159	A	O3'-P	-5.34	1.54	1.61
38	BE	164	C	C2-N3	-5.34	1.31	1.35
40	BG	66	C	C4'-C3'	-5.34	1.47	1.52
85	AA	10	G	N9-C4	-5.34	1.33	1.38
85	AA	300	C	O3'-P	-5.34	1.54	1.61
85	AA	1034	U	C2'-C1'	-5.34	1.47	1.53
85	AA	1151	G	C1'-N9	-5.34	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	2077	G	C3'-O3'	5.34	1.49	1.42
85	AA	2135	A	C5-C4	-5.34	1.35	1.38
13	AE	153	TYR	CB-CG	-5.34	1.43	1.51
34	BA	211	C	C2'-C1'	-5.34	1.47	1.53
34	BA	1198	U	O3'-P	-5.34	1.54	1.61
34	BA	1773	U	P-O5'	-5.34	1.54	1.59
35	BB	567	G	N9-C8	-5.34	1.34	1.37
41	BH	3	U	C2-N3	-5.34	1.34	1.37
41	BH	118	U	C4'-C3'	-5.34	1.47	1.52
85	AA	1566	A	C1'-N9	-5.34	1.39	1.46
86	AB	15	G	N1-C2	-5.34	1.33	1.37
34	BA	331	G	N9-C4	-5.34	1.33	1.38
34	BA	719	G	N9-C4	-5.34	1.33	1.38
34	BA	824	C	C3'-C2'	-5.34	1.46	1.52
34	BA	1139	G	C6-N1	-5.34	1.35	1.39
34	BA	1230	G	N9-C8	-5.34	1.34	1.37
34	BA	1333	G	C8-N7	-5.34	1.27	1.30
34	BA	1551	G	C2-N2	-5.34	1.29	1.34
34	BA	1639	U	C3'-C2'	-5.34	1.46	1.52
38	BE	52	U	C4'-O4'	-5.34	1.38	1.45
85	AA	1246	G	N9-C4	5.34	1.42	1.38
85	AA	1490	A	C8-N7	-5.34	1.27	1.31
85	AA	1507	G	C6-N1	-5.34	1.35	1.39
85	AA	2185	U	C1'-N1	-5.34	1.39	1.46
34	BA	542	A	C5-C4	-5.34	1.35	1.38
34	BA	593	G	C2-N2	-5.34	1.29	1.34
34	BA	829	U	C3'-C2'	-5.34	1.46	1.52
34	BA	1034	U	N1-C2	-5.34	1.33	1.38
34	BA	1159	A	C3'-C2'	-5.34	1.46	1.52
34	BA	1228	G	C2'-C1'	-5.34	1.47	1.53
34	BA	1522	G	C2-N2	-5.34	1.29	1.34
34	BA	1651	C	N1-C6	-5.34	1.33	1.37
35	BB	53	C	C3'-C2'	-5.34	1.46	1.52
35	BB	702	G	C8-N7	-5.34	1.27	1.30
35	BB	1087	A	N9-C8	-5.34	1.33	1.37
35	BB	1108	G	N9-C8	-5.34	1.34	1.37
35	BB	1207	C	N1-C2	-5.34	1.34	1.40
35	BB	1218	G	C2-N2	-5.34	1.29	1.34
36	BC	21	U	C2'-C1'	-5.34	1.47	1.53
36	BC	22	U	P-O5'	-5.34	1.54	1.59
38	BE	43	A	N7-C5	-5.34	1.36	1.39
38	BE	185	G	N7-C5	-5.34	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	18	U	C1'-N1	-5.34	1.39	1.46
40	BG	66	C	P-O5'	-5.34	1.54	1.59
85	AA	578	U	P-O5'	-5.34	1.54	1.59
85	AA	1470	A	N3-C4	-5.34	1.31	1.34
85	AA	2101	C	P-O5'	-5.34	1.54	1.59
85	AA	2146	G	N7-C5	-5.34	1.36	1.39
34	BA	262	A	C5-C4	-5.34	1.35	1.38
34	BA	687	G	C4'-C3'	-5.34	1.47	1.52
35	BB	412	A	C5-C6	-5.34	1.36	1.41
35	BB	517	G	N1-C2	-5.34	1.33	1.37
35	BB	770	G	P-O5'	-5.34	1.54	1.59
38	BE	193	A	C2'-C1'	-5.34	1.47	1.53
40	BG	106	G	N7-C5	-5.34	1.36	1.39
41	BH	45	G	C5-C4	-5.34	1.34	1.38
85	AA	132	G	C2'-C1'	-5.34	1.47	1.53
85	AA	372	U	C4'-C3'	-5.34	1.47	1.52
85	AA	1001	G	C6-N1	-5.34	1.35	1.39
85	AA	1242	A	O3'-P	-5.34	1.54	1.61
34	BA	251	U	P-O5'	-5.34	1.54	1.59
34	BA	719	G	O3'-P	-5.34	1.54	1.61
34	BA	1447	C	O4'-C1'	-5.34	1.34	1.41
35	BB	477	U	P-O5'	-5.34	1.54	1.59
37	BD	58	G	P-O5'	-5.34	1.54	1.59
37	BD	65	G	C3'-C2'	-5.34	1.46	1.52
34	BA	425	G	C6-N1	-5.33	1.35	1.39
34	BA	1001	G	N3-C4	-5.33	1.31	1.35
37	BD	13	A	C2'-C1'	-5.33	1.47	1.53
85	AA	494	G	C2'-C1'	-5.33	1.47	1.53
85	AA	558	U	O3'-P	-5.33	1.54	1.61
85	AA	1111	A	O3'-P	-5.33	1.54	1.61
85	AA	1254	A	N7-C5	-5.33	1.36	1.39
34	BA	164	C	O3'-P	-5.33	1.54	1.61
34	BA	329	G	P-O5'	-5.33	1.54	1.59
34	BA	1100	A	C5-C4	-5.33	1.35	1.38
35	BB	584	A	C4'-C3'	-5.33	1.47	1.52
35	BB	1299	G	N9-C8	-5.33	1.34	1.37
35	BB	1498	G	C5-C4	-5.33	1.34	1.38
36	BC	57	C	C3'-C2'	-5.33	1.46	1.52
36	BC	142	C	C2-N3	-5.33	1.31	1.35
37	BD	108	G	C8-N7	-5.33	1.27	1.30
38	BE	42	C	P-O5'	-5.33	1.54	1.59
53	BT	100	ARG	N-CA	-5.33	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	40	A	N9-C4	-5.33	1.34	1.37
85	AA	79	G	N9-C8	-5.33	1.34	1.37
85	AA	305	A	C2'-C1'	-5.33	1.47	1.53
85	AA	990	U	O3'-P	-5.33	1.54	1.61
85	AA	1127	G	P-O5'	-5.33	1.54	1.59
85	AA	1585	A	N7-C5	-5.33	1.36	1.39
85	AA	1611	A	C1'-N9	-5.33	1.39	1.46
85	AA	2178	A	P-O5'	-5.33	1.54	1.59
34	BA	199	U	C1'-N1	-5.33	1.39	1.46
35	BB	12	G	C6-N1	-5.33	1.35	1.39
35	BB	133	G	N9-C8	-5.33	1.34	1.37
35	BB	471	U	O4'-C1'	-5.33	1.34	1.41
35	BB	583	G	C3'-C2'	-5.33	1.46	1.52
35	BB	772	U	C2-N3	-5.33	1.34	1.37
35	BB	795	A	C6-N6	-5.33	1.29	1.33
37	BD	46	G	N3-C4	-5.33	1.31	1.35
38	BE	74	U	O3'-P	-5.33	1.54	1.61
40	BG	81	G	N9-C8	-5.33	1.34	1.37
85	AA	102	A	C8-N7	-5.33	1.27	1.31
85	AA	204	U	C2'-C1'	-5.33	1.47	1.53
85	AA	294	G	C5'-C4'	5.33	1.57	1.51
85	AA	309	G	N9-C4	-5.33	1.33	1.38
85	AA	457	G	O3'-P	-5.33	1.54	1.61
85	AA	584	G	N1-C2	-5.33	1.33	1.37
85	AA	871	U	C2-N3	-5.33	1.34	1.37
85	AA	2082	C	C4-N4	-5.33	1.29	1.33
35	BB	588	A	C1'-N9	-5.33	1.39	1.46
35	BB	1155	U	C4'-C3'	-5.33	1.47	1.52
35	BB	1516	C	C3'-C2'	-5.33	1.46	1.52
85	AA	935	A	O3'-P	-5.33	1.54	1.61
85	AA	1624	U	C2'-C1'	-5.33	1.47	1.53
85	AA	2032	G	C6-N1	-5.33	1.35	1.39
86	AB	63	G	C3'-C2'	-5.33	1.46	1.52
34	BA	1626	U	C3'-C2'	5.33	1.58	1.52
35	BB	866	A	C2'-C1'	-5.33	1.47	1.53
35	BB	1322	A	O4'-C1'	-5.33	1.34	1.41
36	BC	42	G	C2-N3	-5.33	1.28	1.32
37	BD	11	A	C2'-C1'	-5.33	1.47	1.53
40	BG	175	G	N1-C2	-5.33	1.33	1.37
85	AA	27	U	C3'-C2'	-5.33	1.46	1.52
85	AA	386	G	N1-C2	-5.33	1.33	1.37
85	AA	1231	G	N1-C2	-5.33	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1554	C	C1'-N1	-5.33	1.39	1.46
85	AA	2215	C	O3'-P	-5.33	1.54	1.61
34	BA	517	A	C3'-C2'	-5.33	1.46	1.52
34	BA	863	G	C8-N7	5.33	1.34	1.30
34	BA	1276	G	C2-N2	-5.33	1.29	1.34
35	BB	438	G	O4'-C1'	-5.33	1.34	1.41
35	BB	452	A	C3'-O3'	5.33	1.49	1.42
38	BE	198	A	C3'-C2'	-5.33	1.46	1.52
85	AA	453	G	P-O5'	-5.33	1.54	1.59
85	AA	1176	C	N1-C6	-5.33	1.33	1.37
85	AA	1502	A	N9-C4	-5.33	1.34	1.37
34	BA	248	G	N3-C4	-5.33	1.31	1.35
34	BA	261	A	C2'-C1'	-5.33	1.47	1.53
34	BA	288	U	C3'-O3'	5.33	1.49	1.42
34	BA	825	G	C8-N7	-5.33	1.27	1.30
34	BA	990	G	N9-C8	-5.33	1.34	1.37
34	BA	1009	G	N9-C8	-5.33	1.34	1.37
34	BA	1275	G	C5-C4	-5.33	1.34	1.38
34	BA	1343	A	O3'-P	-5.33	1.54	1.61
34	BA	1735	G	O3'-P	-5.33	1.54	1.61
34	BA	1832	A	C4'-C3'	-5.33	1.47	1.52
35	BB	441	G	N9-C8	-5.33	1.34	1.37
35	BB	803	U	C1'-N1	-5.33	1.39	1.46
40	BG	76	C	C4'-C3'	-5.33	1.47	1.52
85	AA	203	C	C2'-C1'	-5.33	1.47	1.53
85	AA	553	G	N7-C5	-5.33	1.36	1.39
85	AA	729	U	P-O5'	-5.33	1.54	1.59
85	AA	781	G	P-O5'	-5.33	1.54	1.59
85	AA	809	A	O3'-P	-5.33	1.54	1.61
85	AA	929	G	C5-C4	-5.33	1.34	1.38
85	AA	2241	C	C2-N3	-5.33	1.31	1.35
34	BA	327	G	C5-C4	-5.32	1.34	1.38
34	BA	880	G	C3'-C2'	-5.32	1.46	1.52
34	BA	1404	A	O3'-P	-5.32	1.54	1.61
34	BA	1407	C	C2-N3	-5.32	1.31	1.35
34	BA	1654	G	N3-C4	-5.32	1.31	1.35
34	BA	1839	G	C2-N2	-5.32	1.29	1.34
35	BB	71	A	C6-N6	-5.32	1.29	1.33
35	BB	315	C	P-O5'	-5.32	1.54	1.59
35	BB	1162	A	C4'-C3'	-5.32	1.47	1.52
36	BC	87	C	C4'-O4'	-5.32	1.38	1.45
38	BE	69	C	C3'-C2'	-5.32	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	176	G	C2-N2	-5.32	1.29	1.34
38	BE	193	A	C1'-N9	-5.32	1.39	1.46
41	BH	135	U	C2-N3	-5.32	1.34	1.37
85	AA	238	C	P-O5'	-5.32	1.54	1.59
85	AA	315	U	C3'-C2'	-5.32	1.46	1.52
85	AA	424	A	P-O5'	-5.32	1.54	1.59
85	AA	1503	G	O4'-C1'	-5.32	1.34	1.41
85	AA	1872	G	O3'-P	-5.32	1.54	1.61
85	AA	1873	U	O3'-P	-5.32	1.54	1.61
85	AA	2166	G	C2'-C1'	-5.32	1.47	1.53
85	AA	2213	A	C1'-N9	-5.32	1.39	1.46
34	BA	121	A	C8-N7	-5.32	1.27	1.31
34	BA	207	A	C5-C6	-5.32	1.36	1.41
34	BA	230	A	O3'-P	-5.32	1.54	1.61
34	BA	800	G	C5-C4	-5.32	1.34	1.38
34	BA	1469	G	C2-N2	-5.32	1.29	1.34
35	BB	622	G	C3'-C2'	-5.32	1.46	1.52
35	BB	1069	C	O3'-P	-5.32	1.54	1.61
85	AA	371	C	C2'-C1'	-5.32	1.47	1.53
85	AA	2131	C	C4-N4	-5.32	1.29	1.33
34	BA	20	A	N9-C8	-5.32	1.33	1.37
34	BA	141	G	C3'-C2'	-5.32	1.46	1.52
34	BA	474	A	P-O5'	-5.32	1.54	1.59
34	BA	516	U	C5'-C4'	5.32	1.57	1.51
34	BA	1067	G	O3'-P	-5.32	1.54	1.61
34	BA	1226	G	N1-C2	-5.32	1.33	1.37
34	BA	1229	G	C2-N3	-5.32	1.28	1.32
35	BB	90	G	C1'-N9	-5.32	1.39	1.46
35	BB	282	A	P-O5'	-5.32	1.54	1.59
35	BB	1031	G	C4'-O4'	-5.32	1.38	1.45
35	BB	1046	C	C2-N3	-5.32	1.31	1.35
35	BB	1166	A	C5-C4	-5.32	1.35	1.38
35	BB	1251	G	C2-N2	-5.32	1.29	1.34
85	AA	687	G	N9-C8	-5.32	1.34	1.37
85	AA	995	G	C3'-C2'	-5.32	1.46	1.52
85	AA	1142	G	O3'-P	-5.32	1.54	1.61
85	AA	1475	A	N7-C5	-5.32	1.36	1.39
85	AA	1529	A	C3'-C2'	-5.32	1.46	1.52
85	AA	1682	U	C3'-O3'	-5.32	1.34	1.42
85	AA	1839	G	C4'-C3'	-5.32	1.47	1.52
85	AA	2125	A	C4'-C3'	-5.32	1.47	1.52
34	BA	321	G	C2-N2	-5.32	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	330	A	P-O5'	-5.32	1.54	1.59
34	BA	1846	G	C6-O6	-5.32	1.19	1.24
40	BG	31	G	N9-C8	-5.32	1.34	1.37
85	AA	60	U	P-O5'	-5.32	1.54	1.59
34	BA	340	U	N1-C6	-5.32	1.33	1.38
34	BA	584	A	C1'-N9	-5.32	1.39	1.46
34	BA	1230	G	C2'-C1'	-5.32	1.47	1.53
34	BA	1406	U	C3'-C2'	-5.32	1.47	1.52
34	BA	1672	C	C2-N3	-5.32	1.31	1.35
35	BB	639	A	N9-C8	-5.32	1.33	1.37
35	BB	662	G	C8-N7	-5.32	1.27	1.30
35	BB	1026	G	N9-C8	-5.32	1.34	1.37
35	BB	1119	G	C6-N1	-5.32	1.35	1.39
36	BC	43	A	N9-C8	-5.32	1.33	1.37
36	BC	59	A	C6-N1	-5.32	1.31	1.35
36	BC	149	A	C6-N1	-5.32	1.31	1.35
37	BD	86	A	C4'-O4'	-5.32	1.38	1.45
38	BE	48	G	C5'-C4'	-5.32	1.45	1.51
85	AA	85	U	N1-C2	-5.32	1.33	1.38
85	AA	141	A	C5-C4	-5.32	1.35	1.38
85	AA	552	C	P-O5'	-5.32	1.54	1.59
85	AA	719	C	O3'-P	-5.32	1.54	1.61
85	AA	1254	A	C5-C4	-5.32	1.35	1.38
85	AA	1757	C	C2'-C1'	-5.32	1.47	1.53
34	BA	596	G	C6-O6	-5.32	1.19	1.24
34	BA	666	C	P-O5'	-5.32	1.54	1.59
34	BA	852	C	C2'-C1'	-5.32	1.47	1.53
34	BA	860	G	C5-C4	-5.32	1.34	1.38
34	BA	902	C	C4'-C3'	-5.32	1.47	1.52
34	BA	973	U	O4'-C1'	-5.32	1.34	1.41
35	BB	490	G	O3'-P	-5.32	1.54	1.61
35	BB	590	G	C2-N2	-5.32	1.29	1.34
35	BB	694	C	P-O5'	-5.32	1.54	1.59
35	BB	901	U	C2'-C1'	-5.32	1.47	1.53
35	BB	1193	G	C4'-O4'	-5.32	1.38	1.45
38	BE	177	U	C1'-N1	-5.32	1.39	1.46
38	BE	199	A	C4'-C3'	-5.32	1.47	1.52
40	BG	22	G	N9-C4	-5.32	1.33	1.38
40	BG	39	A	N7-C5	-5.32	1.36	1.39
40	BG	131	U	C3'-C2'	-5.32	1.47	1.52
85	AA	265	A	C2'-C1'	-5.32	1.47	1.53
85	AA	395	G	C2-N2	-5.32	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	438	G	N7-C5	-5.32	1.36	1.39
85	AA	494	G	C6-N1	-5.32	1.35	1.39
85	AA	852	C	C2'-C1'	-5.32	1.47	1.53
85	AA	1880	C	C4'-C3'	5.32	1.58	1.53
34	BA	216	C	C4-C5	-5.31	1.38	1.43
34	BA	1324	G	N1-C2	-5.31	1.33	1.37
34	BA	1422	A	C2'-C1'	-5.31	1.47	1.53
34	BA	1568	A	N3-C4	-5.31	1.31	1.34
35	BB	1544	A	N7-C5	-5.31	1.36	1.39
41	BH	65	G	P-O5'	-5.31	1.54	1.59
41	BH	117	U	O3'-P	-5.31	1.54	1.61
85	AA	791	C	C4'-O4'	-5.31	1.38	1.45
85	AA	1923	A	C2'-O2'	-5.31	1.34	1.41
34	BA	218	G	O3'-P	-5.31	1.54	1.61
34	BA	248	G	C2-N2	-5.31	1.29	1.34
34	BA	483	A	C5-C4	-5.31	1.35	1.38
34	BA	596	G	C2-N3	-5.31	1.28	1.32
34	BA	1086	A	N9-C8	-5.31	1.33	1.37
35	BB	704	G	C1'-N9	-5.31	1.39	1.46
35	BB	801	G	O3'-P	-5.31	1.54	1.61
35	BB	1448	U	N3-C4	-5.31	1.33	1.38
36	BC	139	A	P-O5'	-5.31	1.54	1.59
37	BD	107	G	N9-C4	-5.31	1.33	1.38
40	BG	89	A	C1'-N9	-5.31	1.39	1.46
41	BH	103	C	O3'-P	-5.31	1.54	1.61
41	BH	130	G	C5-C4	-5.31	1.34	1.38
85	AA	513	G	C4'-C3'	-5.31	1.47	1.52
85	AA	568	C	C2'-C1'	-5.31	1.47	1.53
85	AA	996	A	C2'-C1'	-5.31	1.47	1.53
85	AA	1542	A	C4'-O4'	-5.31	1.38	1.45
85	AA	2062	U	N3-C4	-5.31	1.33	1.38
85	AA	2115	G	C3'-C2'	-5.31	1.47	1.52
85	AA	2163	G	N9-C4	5.31	1.42	1.38
34	BA	608	G	C2'-C1'	-5.31	1.47	1.53
35	BB	353	G	P-O5'	-5.31	1.54	1.59
35	BB	568	A	C2'-C1'	-5.31	1.47	1.53
35	BB	643	G	N1-C2	-5.31	1.33	1.37
35	BB	1147	G	C4'-C3'	-5.31	1.47	1.52
35	BB	1525	G	C6-N1	-5.31	1.35	1.39
85	AA	826	C	P-O5'	-5.31	1.54	1.59
85	AA	1544	G	C5-C4	-5.31	1.34	1.38
34	BA	134	U	O3'-P	-5.31	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	939	C	C2-N3	-5.31	1.31	1.35
34	BA	998	U	P-O5'	-5.31	1.54	1.59
34	BA	1580	U	C4-C5	-5.31	1.38	1.43
35	BB	479	U	C2'-C1'	-5.31	1.47	1.53
35	BB	688	U	C4'-C3'	-5.31	1.47	1.52
35	BB	1098	G	C4'-O4'	-5.31	1.38	1.45
35	BB	1110	G	C3'-C2'	-5.31	1.47	1.52
36	BC	52	A	C3'-C2'	-5.31	1.47	1.52
36	BC	94	C	C4-N4	-5.31	1.29	1.33
40	BG	175	G	C3'-C2'	-5.31	1.47	1.52
41	BH	66	G	C1'-N9	-5.31	1.39	1.46
85	AA	100	A	O3'-P	-5.31	1.54	1.61
85	AA	650	G	C6-N1	-5.31	1.35	1.39
85	AA	1109	G	N7-C5	-5.31	1.36	1.39
85	AA	1445	C	C4'-O4'	-5.31	1.38	1.45
34	BA	61	G	N3-C4	-5.31	1.31	1.35
34	BA	1053	U	O3'-P	-5.31	1.54	1.61
34	BA	1093	G	N9-C4	-5.31	1.33	1.38
34	BA	1145	U	C2-N3	-5.31	1.34	1.37
34	BA	1277	G	O3'-P	-5.31	1.54	1.61
34	BA	1436	A	O3'-P	-5.31	1.54	1.61
34	BA	1556	A	C5'-C4'	-5.31	1.45	1.51
34	BA	1735	G	C3'-C2'	-5.31	1.47	1.52
34	BA	1793	G	N7-C5	-5.31	1.36	1.39
35	BB	139	G	C4'-C3'	-5.31	1.47	1.52
35	BB	520	G	N1-C2	-5.31	1.33	1.37
35	BB	996	G	C6-N1	-5.31	1.35	1.39
35	BB	1018	U	C2-N3	-5.31	1.34	1.37
35	BB	1106	G	C2'-C1'	-5.31	1.47	1.53
35	BB	1345	A	O3'-P	-5.31	1.54	1.61
35	BB	1408	G	C1'-N9	-5.31	1.39	1.46
35	BB	1530	U	C4'-C3'	-5.31	1.47	1.52
36	BC	52	A	C5'-C4'	-5.31	1.45	1.51
38	BE	178	G	C2-N3	-5.31	1.28	1.32
40	BG	108	G	N9-C4	-5.31	1.33	1.38
85	AA	81	A	N9-C8	-5.31	1.33	1.37
85	AA	172	A	N3-C4	-5.31	1.31	1.34
85	AA	667	A	P-O5'	-5.31	1.54	1.59
85	AA	1917	G	C5-C4	-5.31	1.34	1.38
85	AA	2021	A	O3'-P	-5.31	1.54	1.61
34	BA	1378	A	C2'-C1'	-5.31	1.47	1.53
35	BB	894	A	C5'-C4'	5.31	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1122	C	N1-C6	-5.31	1.33	1.37
35	BB	1272	G	N9-C8	-5.31	1.34	1.37
40	BG	56	G	N9-C4	-5.31	1.33	1.38
85	AA	63	G	C2-N3	-5.31	1.28	1.32
85	AA	351	C	N1-C6	-5.31	1.33	1.37
85	AA	937	G	C1'-N9	-5.31	1.39	1.46
85	AA	1215	A	C5-C4	-5.31	1.35	1.38
85	AA	1923	A	C4'-O4'	-5.31	1.38	1.45
34	BA	234	A	O4'-C1'	-5.30	1.34	1.41
34	BA	583	G	C5-C4	-5.30	1.34	1.38
34	BA	1293	A	O3'-P	-5.30	1.54	1.61
34	BA	1519	G	N3-C4	-5.30	1.31	1.35
34	BA	1566	G	C8-N7	-5.30	1.27	1.30
34	BA	1685	C	C4-N4	-5.30	1.29	1.33
35	BB	419	G	C3'-C2'	-5.30	1.47	1.52
35	BB	1378	U	C3'-C2'	-5.30	1.47	1.52
35	BB	1434	G	C5-C6	-5.30	1.37	1.42
36	BC	24	G	N1-C2	-5.30	1.33	1.37
40	BG	165	C	C3'-C2'	-5.30	1.47	1.52
85	AA	260	A	C5-C4	-5.30	1.35	1.38
85	AA	277	G	O3'-P	-5.30	1.54	1.61
85	AA	767	A	C3'-C2'	-5.30	1.47	1.52
85	AA	1314	C	P-O5'	-5.30	1.54	1.59
85	AA	1728	G	C4'-C3'	5.30	1.58	1.53
34	BA	422	C	N1-C6	-5.30	1.33	1.37
34	BA	563	A	C5'-C4'	-5.30	1.45	1.51
35	BB	28	G	C5-C6	-5.30	1.37	1.42
35	BB	488	G	C5-C4	-5.30	1.34	1.38
35	BB	671	A	O3'-P	-5.30	1.54	1.61
35	BB	1450	G	C4'-C3'	-5.30	1.47	1.52
37	BD	64	A	C5-C4	-5.30	1.35	1.38
40	BG	150	A	N7-C5	-5.30	1.36	1.39
85	AA	676	U	N3-C4	-5.30	1.33	1.38
85	AA	864	C	O3'-P	-5.30	1.54	1.61
85	AA	1202	G	N1-C2	-5.30	1.33	1.37
85	AA	1585	A	P-O5'	-5.30	1.54	1.59
85	AA	2183	U	C2-N3	-5.30	1.34	1.37
34	BA	320	G	N3-C4	-5.30	1.31	1.35
34	BA	676	G	P-O5'	-5.30	1.54	1.59
34	BA	1086	A	C4'-C3'	-5.30	1.47	1.52
35	BB	34	G	C2'-C1'	-5.30	1.47	1.53
35	BB	565	U	P-O5'	-5.30	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1272	G	N3-C4	-5.30	1.31	1.35
35	BB	1489	A	O3'-P	-5.30	1.54	1.61
38	BE	18	U	N3-C4	-5.30	1.33	1.38
38	BE	112	G	P-O5'	-5.30	1.54	1.59
39	BF	14	C	C4'-C3'	-5.30	1.47	1.52
40	BG	36	G	C2'-C1'	-5.30	1.47	1.53
40	BG	65	C	O4'-C1'	-5.30	1.34	1.41
40	BG	162	A	N1-C2	-5.30	1.29	1.34
77	Br	232	SER	N-CA	-5.30	1.35	1.46
85	AA	23	G	O3'-P	-5.30	1.54	1.61
85	AA	72	C	P-O5'	-5.30	1.54	1.59
85	AA	1176	C	C3'-C2'	-5.30	1.47	1.52
85	AA	1652	A	N3-C4	-5.30	1.31	1.34
85	AA	1670	U	C5'-C4'	-5.30	1.45	1.51
85	AA	1830	U	O3'-P	-5.30	1.54	1.61
34	BA	727	G	N3-C4	-5.30	1.31	1.35
34	BA	1139	G	O4'-C1'	-5.30	1.34	1.41
34	BA	1275	G	C2-N2	-5.30	1.29	1.34
34	BA	1676	A	C5-C4	-5.30	1.35	1.38
34	BA	1835	A	C5-C4	-5.30	1.35	1.38
35	BB	130	G	N9-C8	-5.30	1.34	1.37
35	BB	700	C	C4-C5	-5.30	1.38	1.43
35	BB	726	A	O3'-P	-5.30	1.54	1.61
35	BB	1069	C	C2'-C1'	-5.30	1.47	1.53
35	BB	1226	G	N3-C4	-5.30	1.31	1.35
35	BB	1289	G	C2-N2	-5.30	1.29	1.34
36	BC	121	G	C8-N7	-5.30	1.27	1.30
37	BD	56	G	C4'-C3'	-5.30	1.47	1.52
37	BD	106	G	C1'-N9	-5.30	1.39	1.46
85	AA	250	C	C4-C5	-5.30	1.38	1.43
85	AA	536	C	C2'-C1'	-5.30	1.47	1.53
85	AA	602	U	P-O5'	-5.30	1.54	1.59
85	AA	1006	C	P-O5'	-5.30	1.54	1.59
85	AA	1269	A	N9-C8	-5.30	1.33	1.37
85	AA	1453	U	C2'-C1'	-5.30	1.47	1.53
86	AB	14	A	C2'-C1'	-5.30	1.47	1.53
6	A5	205	GLY	CA-C	-5.30	1.43	1.51
34	BA	363	G	C2-N2	-5.30	1.29	1.34
34	BA	734	G	C6-N1	-5.30	1.35	1.39
35	BB	1286	G	N9-C8	-5.30	1.34	1.37
35	BB	1468	A	C4'-O4'	-5.30	1.38	1.45
85	AA	360	C	C3'-O3'	5.30	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	404	A	N7-C5	-5.30	1.36	1.39
85	AA	1185	G	N7-C5	-5.30	1.36	1.39
85	AA	1991	C	C2'-C1'	-5.30	1.47	1.53
34	BA	230	A	C3'-C2'	-5.30	1.47	1.52
34	BA	323	C	O3'-P	-5.30	1.54	1.61
34	BA	425	G	O3'-P	-5.30	1.54	1.61
34	BA	564	C	C4-C5	-5.30	1.38	1.43
34	BA	765	U	C3'-O3'	5.30	1.49	1.42
34	BA	992	A	N9-C8	-5.30	1.33	1.37
34	BA	1001	G	C6-N1	-5.30	1.35	1.39
34	BA	1012	A	N9-C4	-5.30	1.34	1.37
34	BA	1218	G	P-O5'	-5.30	1.54	1.59
34	BA	1234	U	C5'-C4'	-5.30	1.45	1.51
34	BA	1695	G	C2-N2	-5.30	1.29	1.34
35	BB	57	G	N7-C5	-5.30	1.36	1.39
35	BB	627	G	O3'-P	-5.30	1.54	1.61
37	BD	115	A	C2'-C1'	-5.30	1.47	1.53
41	BH	24	U	O3'-P	-5.30	1.54	1.61
85	AA	48	G	C3'-C2'	-5.30	1.47	1.52
85	AA	690	G	C1'-N9	-5.30	1.39	1.46
85	AA	722	G	O3'-P	-5.30	1.54	1.61
85	AA	820	G	C1'-N9	-5.30	1.39	1.46
85	AA	1808	G	O3'-P	-5.30	1.54	1.61
85	AA	2083	G	N9-C4	5.30	1.42	1.38
86	AB	9	A	P-O5'	-5.30	1.54	1.59
34	BA	52	G	N9-C8	-5.29	1.34	1.37
34	BA	276	C	O3'-P	-5.29	1.54	1.61
34	BA	605	G	C8-N7	-5.29	1.27	1.30
34	BA	1069	U	C4'-C3'	-5.29	1.47	1.52
34	BA	1512	C	O4'-C1'	-5.29	1.34	1.41
35	BB	425	G	C2'-C1'	-5.29	1.47	1.53
35	BB	468	U	C5'-C4'	-5.29	1.45	1.51
35	BB	628	A	N9-C8	-5.29	1.33	1.37
35	BB	1119	G	O4'-C1'	-5.29	1.34	1.41
36	BC	48	A	N9-C4	-5.29	1.34	1.37
85	AA	472	A	C2'-C1'	-5.29	1.47	1.53
85	AA	1165	C	C2-N3	-5.29	1.31	1.35
85	AA	1249	U	N3-C4	-5.29	1.33	1.38
85	AA	1257	A	N9-C8	-5.29	1.33	1.37
34	BA	113	G	C5-C4	-5.29	1.34	1.38
34	BA	313	C	C3'-C2'	-5.29	1.47	1.52
34	BA	478	G	C5-C6	-5.29	1.37	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	908	G	C2-N2	-5.29	1.29	1.34
34	BA	1284	G	N9-C8	-5.29	1.34	1.37
34	BA	1453	U	O3'-P	-5.29	1.54	1.61
34	BA	1501	U	N1-C6	-5.29	1.33	1.38
34	BA	1585	A	C4'-C3'	-5.29	1.47	1.52
34	BA	1597	G	O3'-P	-5.29	1.54	1.61
34	BA	1825	U	N1-C6	-5.29	1.33	1.38
35	BB	410	A	O3'-P	-5.29	1.54	1.61
35	BB	1066	G	P-O5'	-5.29	1.54	1.59
35	BB	1067	G	C4'-C3'	-5.29	1.47	1.52
35	BB	1231	U	P-O5'	-5.29	1.54	1.59
35	BB	1494	G	N9-C4	-5.29	1.33	1.38
85	AA	264	A	C8-N7	-5.29	1.27	1.31
85	AA	1911	A	C3'-C2'	-5.29	1.47	1.52
85	AA	2122	A	O4'-C1'	-5.29	1.34	1.41
34	BA	125	G	C5-C4	-5.29	1.34	1.38
34	BA	497	U	C3'-C2'	-5.29	1.47	1.52
34	BA	603	U	P-O5'	-5.29	1.54	1.59
35	BB	636	G	C5-C4	-5.29	1.34	1.38
35	BB	816	U	C1'-N1	-5.29	1.39	1.46
35	BB	988	G	N3-C4	-5.29	1.31	1.35
35	BB	1337	C	C4-N4	-5.29	1.29	1.33
35	BB	1449	G	O4'-C1'	-5.29	1.34	1.41
35	BB	1478	G	N1-C2	-5.29	1.33	1.37
35	BB	1524	G	P-O5'	-5.29	1.54	1.59
39	BF	11	C	C4'-O4'	5.29	1.52	1.45
39	BF	59	U	O3'-P	-5.29	1.54	1.61
40	BG	153	C	O4'-C1'	-5.29	1.34	1.41
41	BH	17	A	N7-C5	-5.29	1.36	1.39
85	AA	438	G	O3'-P	-5.29	1.54	1.61
85	AA	1424	G	C5'-C4'	5.29	1.57	1.51
85	AA	1878	C	O3'-P	-5.29	1.54	1.61
85	AA	2134	U	C4'-C3'	-5.29	1.47	1.52
34	BA	654	C	C4-N4	-5.29	1.29	1.33
34	BA	674	G	P-O5'	-5.29	1.54	1.59
34	BA	969	A	C5-C6	-5.29	1.36	1.41
34	BA	988	U	C2-N3	-5.29	1.34	1.37
35	BB	567	G	C1'-N9	-5.29	1.39	1.46
35	BB	576	A	C6-N1	-5.29	1.31	1.35
35	BB	1050	A	C5-C6	-5.29	1.36	1.41
40	BG	59	G	C5-C6	-5.29	1.37	1.42
41	BH	35	G	N9-C4	-5.29	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	407	G	N9-C8	-5.29	1.34	1.37
85	AA	637	U	C4'-O4'	-5.29	1.38	1.45
85	AA	1496	U	N1-C6	-5.29	1.33	1.38
34	BA	666	C	N1-C2	-5.29	1.34	1.40
34	BA	745	A	N9-C4	5.29	1.41	1.37
34	BA	930	A	C1'-N9	-5.29	1.39	1.46
34	BA	1063	G	C2-N2	-5.29	1.29	1.34
34	BA	1191	C	C4'-C3'	-5.29	1.47	1.52
34	BA	1698	C	C1'-N1	-5.29	1.39	1.46
34	BA	1704	G	C6-N1	-5.29	1.35	1.39
35	BB	136	A	N3-C4	-5.29	1.31	1.34
35	BB	349	U	P-O5'	-5.29	1.54	1.59
35	BB	365	U	C3'-C2'	-5.29	1.47	1.52
35	BB	583	G	C5-C6	-5.29	1.37	1.42
35	BB	839	G	C1'-N9	-5.29	1.39	1.46
35	BB	1434	G	N9-C4	-5.29	1.33	1.38
40	BG	23	C	O4'-C1'	-5.29	1.34	1.41
85	AA	590	U	C2-N3	-5.29	1.34	1.37
85	AA	1112	G	O3'-P	-5.29	1.54	1.61
85	AA	1547	G	C3'-C2'	-5.29	1.47	1.52
85	AA	1902	C	O3'-P	-5.29	1.54	1.61
85	AA	2022	A	C5-C6	-5.29	1.36	1.41
85	AA	2030	U	O3'-P	-5.29	1.54	1.61
34	BA	1010	C	C2'-C1'	-5.29	1.47	1.53
34	BA	1040	G	C6-N1	-5.29	1.35	1.39
35	BB	1280	U	C2'-C1'	-5.29	1.47	1.53
36	BC	108	A	C2'-C1'	-5.29	1.47	1.53
38	BE	25	U	O4'-C1'	-5.29	1.34	1.41
38	BE	149	A	C8-N7	-5.29	1.27	1.31
85	AA	1955	U	N3-C4	-5.29	1.33	1.38
34	BA	78	U	N1-C6	-5.29	1.33	1.38
34	BA	386	A	C5-C6	-5.29	1.36	1.41
34	BA	395	G	C2'-C1'	-5.29	1.47	1.53
34	BA	931	G	C2-N2	-5.29	1.29	1.34
34	BA	1083	A	N9-C8	-5.29	1.33	1.37
34	BA	1152	A	C8-N7	-5.29	1.27	1.31
34	BA	1328	U	C4'-C3'	-5.29	1.47	1.52
35	BB	55	C	C3'-C2'	-5.29	1.47	1.52
35	BB	578	G	C1'-N9	-5.29	1.39	1.46
35	BB	695	U	N1-C2	-5.29	1.33	1.38
35	BB	1293	C	C4-N4	-5.29	1.29	1.33
36	BC	70	C	C3'-O3'	5.29	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	14	C	C3'-C2'	-5.29	1.47	1.52
37	BD	29	C	C2'-C1'	-5.29	1.47	1.53
40	BG	80	G	P-O5'	-5.29	1.54	1.59
41	BH	126	C	C1'-N1	-5.29	1.39	1.46
61	Bb	132	LYS	N-CA	-5.29	1.35	1.46
85	AA	313	A	O4'-C1'	-5.29	1.34	1.41
85	AA	554	A	N9-C4	-5.29	1.34	1.37
85	AA	687	G	N9-C4	-5.29	1.33	1.38
85	AA	1210	U	C3'-O3'	5.29	1.49	1.42
20	AL	5	ARG	CD-NE	5.28	1.55	1.46
34	BA	49	A	C4'-C3'	-5.28	1.47	1.52
34	BA	422	C	C2'-C1'	-5.28	1.47	1.53
34	BA	764	G	N9-C4	5.28	1.42	1.38
34	BA	946	A	N3-C4	-5.28	1.31	1.34
34	BA	1108	U	C4'-C3'	-5.28	1.47	1.52
34	BA	1124	U	O4'-C1'	-5.28	1.34	1.41
35	BB	8	U	C4-C5	-5.28	1.38	1.43
35	BB	104	G	N9-C8	-5.28	1.34	1.37
35	BB	1057	G	C2-N2	-5.28	1.29	1.34
35	BB	1077	C	N3-C4	-5.28	1.30	1.33
35	BB	1524	G	C5-C4	-5.28	1.34	1.38
38	BE	18	U	C2'-C1'	-5.28	1.47	1.53
40	BG	49	A	N3-C4	-5.28	1.31	1.34
40	BG	166	C	C4-N4	-5.28	1.29	1.33
41	BH	43	G	N7-C5	-5.28	1.36	1.39
85	AA	698	G	N9-C8	-5.28	1.34	1.37
85	AA	855	G	C4'-O4'	-5.28	1.38	1.45
85	AA	914	U	P-O5'	-5.28	1.54	1.59
85	AA	921	C	C2'-C1'	-5.28	1.47	1.53
85	AA	1443	U	O3'-P	-5.28	1.54	1.61
85	AA	2128	G	C2-N3	-5.28	1.28	1.32
34	BA	1	C	N1-C2	-5.28	1.34	1.40
34	BA	418	G	C2'-C1'	-5.28	1.47	1.53
34	BA	919	A	C1'-N9	-5.28	1.39	1.46
34	BA	926	A	N9-C8	-5.28	1.33	1.37
34	BA	1644	A	C1'-N9	-5.28	1.39	1.46
35	BB	52	G	C6-N1	-5.28	1.35	1.39
85	AA	308	U	N1-C6	-5.28	1.33	1.38
34	BA	9	A	N3-C4	-5.28	1.31	1.34
34	BA	87	G	C2-N2	-5.28	1.29	1.34
34	BA	129	U	C4-C5	-5.28	1.38	1.43
34	BA	295	G	N7-C5	-5.28	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	503	C	C4'-C3'	-5.28	1.47	1.52
34	BA	796	G	N3-C4	-5.28	1.31	1.35
34	BA	1448	G	N9-C4	-5.28	1.33	1.38
35	BB	111	C	P-O5'	-5.28	1.54	1.59
35	BB	522	A	N7-C5	-5.28	1.36	1.39
36	BC	135	A	N7-C5	-5.28	1.36	1.39
40	BG	32	U	C3'-C2'	-5.28	1.47	1.52
40	BG	102	G	C1'-N9	-5.28	1.39	1.46
40	BG	113	G	C3'-C2'	-5.28	1.47	1.52
40	BG	124	A	C5-C4	-5.28	1.35	1.38
41	BH	34	G	C3'-C2'	-5.28	1.47	1.52
85	AA	5	U	C3'-C2'	-5.28	1.47	1.52
85	AA	437	G	C8-N7	-5.28	1.27	1.30
85	AA	922	A	C1'-N9	-5.28	1.39	1.46
85	AA	1125	G	C5-C6	-5.28	1.37	1.42
85	AA	1203	G	N7-C5	-5.28	1.36	1.39
85	AA	1208	C	O3'-P	-5.28	1.54	1.61
85	AA	1585	A	O3'-P	-5.28	1.54	1.61
85	AA	1937	G	C2'-C1'	-5.28	1.47	1.53
2	A1	133	ILE	C-N	-5.28	1.24	1.34
34	BA	55	G	C5-C4	-5.28	1.34	1.38
34	BA	426	A	C5-C6	-5.28	1.36	1.41
34	BA	760	G	C5'-C4'	-5.28	1.45	1.51
35	BB	971	A	N9-C8	-5.28	1.33	1.37
36	BC	24	G	N3-C4	-5.28	1.31	1.35
37	BD	44	U	O3'-P	-5.28	1.54	1.61
34	BA	267	G	N3-C4	-5.28	1.31	1.35
34	BA	268	U	N3-C4	-5.28	1.33	1.38
34	BA	1219	G	C2-N2	-5.28	1.29	1.34
34	BA	1425	G	N3-C4	-5.28	1.31	1.35
34	BA	1513	G	C1'-N9	-5.28	1.39	1.46
35	BB	34	G	C5-C4	-5.28	1.34	1.38
35	BB	485	U	N3-C4	-5.28	1.33	1.38
35	BB	1422	G	C2-N2	-5.28	1.29	1.34
35	BB	1524	G	N1-C2	-5.28	1.33	1.37
34	BA	186	G	C1'-N9	-5.28	1.39	1.46
34	BA	1000	G	N1-C2	-5.28	1.33	1.37
35	BB	546	A	C1'-N9	-5.28	1.39	1.46
35	BB	808	U	C4-C5	-5.28	1.38	1.43
35	BB	1130	U	C5'-C4'	-5.28	1.45	1.51
35	BB	1316	U	C2'-C1'	-5.28	1.47	1.53
36	BC	25	C	C5-C6	-5.28	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	160	C	N1-C6	-5.28	1.33	1.37
37	BD	61	C	C4-N4	-5.28	1.29	1.33
40	BG	77	U	C3'-C2'	-5.28	1.47	1.52
85	AA	527	A	C5-C4	-5.28	1.35	1.38
85	AA	716	G	C3'-C2'	-5.28	1.47	1.52
85	AA	750	A	N3-C4	-5.28	1.31	1.34
85	AA	862	U	C3'-O3'	-5.28	1.34	1.42
85	AA	1168	C	C3'-C2'	-5.28	1.47	1.52
85	AA	1227	A	C4'-C3'	-5.28	1.47	1.52
85	AA	1672	G	C1'-N9	-5.28	1.39	1.46
85	AA	1687	U	C3'-C2'	-5.28	1.47	1.52
34	BA	56	G	N1-C2	-5.27	1.33	1.37
34	BA	506	U	C2-N3	-5.27	1.34	1.37
34	BA	1422	A	P-O5'	-5.27	1.54	1.59
35	BB	125	G	C3'-C2'	-5.27	1.47	1.52
35	BB	1498	G	C1'-N9	-5.27	1.39	1.46
85	AA	644	A	C3'-C2'	-5.27	1.47	1.52
85	AA	814	G	C2-N2	-5.27	1.29	1.34
85	AA	1422	A	P-O5'	-5.27	1.54	1.59
85	AA	2057	G	C2'-C1'	-5.27	1.47	1.53
13	AE	86	ILE	CA-CB	-5.27	1.42	1.54
34	BA	99	G	N7-C5	-5.27	1.36	1.39
34	BA	277	A	C1'-N9	-5.27	1.39	1.46
34	BA	359	G	C3'-C2'	-5.27	1.47	1.52
34	BA	477	C	C3'-C2'	-5.27	1.47	1.52
34	BA	624	G	N9-C4	5.27	1.42	1.38
34	BA	755	G	N7-C5	-5.27	1.36	1.39
34	BA	1170	A	O3'-P	-5.27	1.54	1.61
34	BA	1256	A	N9-C8	-5.27	1.33	1.37
34	BA	1703	A	C3'-C2'	-5.27	1.47	1.52
35	BB	30	A	C5-C4	-5.27	1.35	1.38
35	BB	701	U	N3-C4	-5.27	1.33	1.38
35	BB	1000	U	C4'-C3'	-5.27	1.47	1.52
35	BB	1309	A	C5-C4	-5.27	1.35	1.38
36	BC	136	G	P-O5'	-5.27	1.54	1.59
37	BD	32	A	N7-C5	-5.27	1.36	1.39
38	BE	169	C	P-O5'	-5.27	1.54	1.59
41	BH	107	A	C5-C4	-5.27	1.35	1.38
85	AA	97	A	N3-C4	-5.27	1.31	1.34
85	AA	574	U	C3'-C2'	-5.27	1.47	1.52
85	AA	587	G	N9-C4	-5.27	1.33	1.38
85	AA	1301	C	P-O5'	-5.27	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1677	A	C5-C4	-5.27	1.35	1.38
34	BA	1604	A	C3'-C2'	-5.27	1.47	1.52
35	BB	313	C	P-O5'	-5.27	1.54	1.59
35	BB	983	C	C2'-C1'	-5.27	1.47	1.53
35	BB	1410	G	P-O5'	-5.27	1.54	1.59
35	BB	1466	A	C1'-N9	-5.27	1.39	1.46
41	BH	1	U	C3'-O3'	5.27	1.49	1.42
85	AA	40	A	P-O5'	-5.27	1.54	1.59
85	AA	476	C	N3-C4	-5.27	1.30	1.33
85	AA	1615	A	O3'-P	-5.27	1.54	1.61
85	AA	1672	G	N9-C4	-5.27	1.33	1.38
85	AA	1793	A	N9-C4	5.27	1.41	1.37
86	AB	39	U	C2'-C1'	-5.27	1.47	1.53
34	BA	801	U	C4'-C3'	-5.27	1.47	1.52
34	BA	1024	A	N3-C4	-5.27	1.31	1.34
34	BA	1302	C	C2'-C1'	-5.27	1.47	1.53
34	BA	1403	G	C6-N1	-5.27	1.35	1.39
34	BA	1418	G	C8-N7	-5.27	1.27	1.30
35	BB	9	G	N9-C8	-5.27	1.34	1.37
35	BB	66	G	O4'-C1'	-5.27	1.34	1.41
35	BB	93	A	C5-C4	-5.27	1.35	1.38
35	BB	1031	G	C6-N1	-5.27	1.35	1.39
35	BB	1076	U	C1'-N1	-5.27	1.39	1.46
35	BB	1149	A	N7-C5	-5.27	1.36	1.39
35	BB	1177	U	N1-C6	-5.27	1.33	1.38
39	BF	3	A	C6-N1	-5.27	1.31	1.35
85	AA	173	A	P-O5'	-5.27	1.54	1.59
85	AA	202	U	N1-C2	-5.27	1.33	1.38
85	AA	503	A	N3-C4	-5.27	1.31	1.34
85	AA	869	A	C8-N7	-5.27	1.27	1.31
85	AA	911	A	C2'-C1'	-5.27	1.47	1.53
85	AA	1097	G	O3'-P	-5.27	1.54	1.61
85	AA	1439	A	C2'-C1'	-5.27	1.47	1.53
34	BA	52	G	C6-O6	-5.27	1.19	1.24
34	BA	482	C	O4'-C1'	-5.27	1.34	1.41
34	BA	741	A	O3'-P	-5.27	1.54	1.61
34	BA	794	G	C2'-C1'	-5.27	1.47	1.53
35	BB	128	C	O3'-P	-5.27	1.54	1.61
35	BB	272	C	P-O5'	-5.27	1.54	1.59
35	BB	363	A	O3'-P	-5.27	1.54	1.61
35	BB	377	A	N3-C4	-5.27	1.31	1.34
35	BB	627	G	N1-C2	-5.27	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	997	G	C2-N2	-5.27	1.29	1.34
35	BB	1278	A	N9-C8	-5.27	1.33	1.37
37	BD	72	U	C2'-C1'	-5.27	1.47	1.53
38	BE	95	G	O4'-C1'	-5.27	1.34	1.41
40	BG	127	G	N1-C2	-5.27	1.33	1.37
40	BG	130	G	N3-C4	-5.27	1.31	1.35
85	AA	541	A	C5'-C4'	-5.27	1.45	1.51
85	AA	586	G	C5-C4	-5.27	1.34	1.38
85	AA	1452	C	C3'-C2'	-5.27	1.47	1.52
85	AA	1711	C	C3'-C2'	-5.27	1.47	1.52
85	AA	1899	A	P-O5'	-5.27	1.54	1.59
85	AA	2080	U	P-O5'	-5.27	1.54	1.59
85	AA	2124	G	C5-C4	-5.27	1.34	1.38
85	AA	2247	C	C5'-C4'	5.27	1.57	1.51
34	BA	572	G	C4'-C3'	5.27	1.58	1.53
34	BA	584	A	N9-C4	5.27	1.41	1.37
34	BA	1607	U	P-O5'	-5.27	1.54	1.59
35	BB	425	G	C2-N2	-5.27	1.29	1.34
35	BB	629	C	C3'-C2'	-5.27	1.47	1.52
35	BB	1031	G	P-O5'	-5.27	1.54	1.59
39	BF	6	C	P-O5'	-5.27	1.54	1.59
85	AA	427	G	C1'-N9	-5.27	1.39	1.46
85	AA	2041	G	N7-C5	-5.27	1.36	1.39
34	BA	76	U	N1-C2	-5.26	1.33	1.38
34	BA	85	C	C3'-C2'	-5.26	1.47	1.52
34	BA	86	A	C2'-C1'	-5.26	1.47	1.53
34	BA	199	U	C3'-C2'	-5.26	1.47	1.52
34	BA	308	C	C4'-C3'	-5.26	1.47	1.52
34	BA	321	G	N3-C4	-5.26	1.31	1.35
34	BA	707	C	P-O5'	-5.26	1.54	1.59
34	BA	825	G	N3-C4	-5.26	1.31	1.35
34	BA	1277	G	C5-C4	-5.26	1.34	1.38
34	BA	1409	A	C6-N6	-5.26	1.29	1.33
34	BA	1413	G	N3-C4	-5.26	1.31	1.35
34	BA	1556	A	C5-C6	-5.26	1.36	1.41
34	BA	1558	C	C4-N4	-5.26	1.29	1.33
34	BA	1720	U	C4-O4	-5.26	1.19	1.23
35	BB	557	C	C4-N4	-5.26	1.29	1.33
35	BB	606	C	C2'-C1'	-5.26	1.47	1.53
35	BB	1167	C	P-O5'	-5.26	1.54	1.59
85	AA	670	C	C4'-C3'	-5.26	1.47	1.52
85	AA	883	A	C2'-C1'	-5.26	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1174	G	O3'-P	-5.26	1.54	1.61
85	AA	1183	C	P-O5'	-5.26	1.54	1.59
85	AA	1514	A	O3'-P	-5.26	1.54	1.61
85	AA	1976	G	C4'-C3'	-5.26	1.47	1.52
34	BA	532	C	N1-C2	-5.26	1.34	1.40
34	BA	614	A	N7-C5	-5.26	1.36	1.39
34	BA	1021	U	O3'-P	-5.26	1.54	1.61
34	BA	1454	G	N7-C5	-5.26	1.36	1.39
34	BA	1839	G	N9-C4	-5.26	1.33	1.38
36	BC	25	C	N1-C6	-5.26	1.33	1.37
36	BC	80	A	O3'-P	-5.26	1.54	1.61
38	BE	202	C	O3'-P	-5.26	1.54	1.61
85	AA	537	G	C1'-N9	-5.26	1.39	1.46
85	AA	817	G	C3'-C2'	-5.26	1.47	1.52
85	AA	961	U	C3'-C2'	-5.26	1.47	1.52
85	AA	1098	C	C3'-C2'	-5.26	1.47	1.52
34	BA	126	G	C5-C6	-5.26	1.37	1.42
34	BA	1152	A	C5-C6	-5.26	1.36	1.41
34	BA	1160	U	C1'-N1	-5.26	1.39	1.46
34	BA	1262	A	C3'-C2'	-5.26	1.47	1.52
34	BA	1679	C	O3'-P	-5.26	1.54	1.61
35	BB	260	A	P-O5'	-5.26	1.54	1.59
35	BB	589	U	C2-N3	-5.26	1.34	1.37
35	BB	1239	A	N9-C4	-5.26	1.34	1.37
36	BC	73	U	C2-N3	-5.26	1.34	1.37
40	BG	157	A	C4'-C3'	-5.26	1.47	1.52
85	AA	324	U	C2'-C1'	-5.26	1.47	1.53
85	AA	448	G	N7-C5	-5.26	1.36	1.39
85	AA	519	A	C3'-C2'	-5.26	1.47	1.52
85	AA	689	U	C5'-C4'	-5.26	1.45	1.51
85	AA	781	G	C6-N1	-5.26	1.35	1.39
85	AA	908	C	P-O5'	-5.26	1.54	1.59
85	AA	968	U	O3'-P	-5.26	1.54	1.61
85	AA	1016	G	C2'-C1'	-5.26	1.47	1.53
85	AA	1263	G	C3'-C2'	-5.26	1.47	1.52
85	AA	1272	G	C5-C4	-5.26	1.34	1.38
85	AA	1442	U	O3'-P	-5.26	1.54	1.61
85	AA	1531	G	N9-C8	-5.26	1.34	1.37
85	AA	1878	C	C2'-C1'	-5.26	1.47	1.53
13	AE	46	GLY	CA-C	-5.26	1.43	1.51
34	BA	183	G	C5-C6	-5.26	1.37	1.42
34	BA	257	G	C2-N3	-5.26	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1012	A	O3'-P	-5.26	1.54	1.61
34	BA	1116	G	C2-N2	-5.26	1.29	1.34
34	BA	1269	C	C1'-N1	-5.26	1.39	1.46
34	BA	1509	U	C1'-N1	-5.26	1.39	1.46
35	BB	366	G	C3'-C2'	-5.26	1.47	1.52
35	BB	537	A	N3-C4	-5.26	1.31	1.34
35	BB	995	C	P-O5'	-5.26	1.54	1.59
35	BB	1330	A	N7-C5	-5.26	1.36	1.39
35	BB	1335	G	N9-C8	-5.26	1.34	1.37
35	BB	1337	C	O3'-P	-5.26	1.54	1.61
35	BB	1469	A	O4'-C1'	-5.26	1.34	1.41
35	BB	1475	U	C4'-O4'	5.26	1.52	1.45
38	BE	126	G	C2-N2	-5.26	1.29	1.34
39	BF	62	U	P-O5'	-5.26	1.54	1.59
41	BH	36	C	O4'-C1'	-5.26	1.34	1.41
85	AA	342	C	O3'-P	-5.26	1.54	1.61
85	AA	452	A	N9-C8	-5.26	1.33	1.37
85	AA	490	A	C6-N1	5.26	1.39	1.35
85	AA	570	U	P-O5'	-5.26	1.54	1.59
85	AA	756	G	O4'-C1'	-5.26	1.34	1.41
85	AA	860	C	C1'-N1	-5.26	1.39	1.46
85	AA	1462	A	O4'-C1'	-5.26	1.34	1.41
85	AA	1565	G	C2'-C1'	-5.26	1.47	1.53
85	AA	1578	G	P-O5'	5.26	1.65	1.59
85	AA	1649	U	P-O5'	-5.26	1.54	1.59
85	AA	1961	U	C2-N3	-5.26	1.34	1.37
85	AA	2028	G	C2-N3	-5.26	1.28	1.32
85	AA	2188	C	C1'-N1	-5.26	1.39	1.46
34	BA	1074	C	C4-N4	-5.26	1.29	1.33
35	BB	116	G	N3-C4	-5.26	1.31	1.35
40	BG	173	C	P-O5'	-5.26	1.54	1.59
85	AA	1439	A	C3'-C2'	-5.26	1.47	1.52
34	BA	20	A	C6-N1	-5.26	1.31	1.35
34	BA	74	A	N3-C4	-5.26	1.31	1.34
34	BA	103	G	P-O5'	-5.26	1.54	1.59
34	BA	1222	C	C4-C5	-5.26	1.38	1.43
34	BA	1227	U	N3-C4	-5.26	1.33	1.38
34	BA	1256	A	C5-C4	-5.26	1.35	1.38
34	BA	1583	A	N9-C8	-5.26	1.33	1.37
35	BB	534	C	C2-N3	-5.26	1.31	1.35
35	BB	547	A	C4'-O4'	-5.26	1.38	1.45
37	BD	7	G	C6-N1	-5.26	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	106	G	C2'-C1'	-5.26	1.47	1.53
85	AA	83	U	C2'-C1'	-5.26	1.47	1.53
85	AA	152	A	C1'-N9	-5.26	1.39	1.46
85	AA	158	C	N1-C6	-5.26	1.33	1.37
85	AA	352	G	C8-N7	-5.26	1.27	1.30
85	AA	557	G	C4'-C3'	-5.26	1.47	1.52
86	AB	18	G	O3'-P	-5.26	1.54	1.61
34	BA	412	G	N3-C4	-5.25	1.31	1.35
34	BA	1082	U	P-O5'	-5.25	1.54	1.59
35	BB	509	A	C5-C4	-5.25	1.35	1.38
35	BB	1020	U	C2'-C1'	-5.25	1.47	1.53
35	BB	1197	G	C1'-N9	-5.25	1.39	1.46
35	BB	1392	A	C2'-C1'	-5.25	1.47	1.53
38	BE	28	C	C4-N4	-5.25	1.29	1.33
41	BH	74	G	N3-C4	-5.25	1.31	1.35
85	AA	1146	C	C2-N3	-5.25	1.31	1.35
85	AA	1865	C	C3'-C2'	-5.25	1.47	1.52
34	BA	162	G	C2-N2	-5.25	1.29	1.34
34	BA	229	C	C3'-C2'	-5.25	1.47	1.52
34	BA	966	G	P-O5'	-5.25	1.54	1.59
34	BA	1166	A	C5-C4	-5.25	1.35	1.38
34	BA	1227	U	C4'-C3'	5.25	1.58	1.53
35	BB	483	C	C2-N3	-5.25	1.31	1.35
35	BB	970	C	P-O5'	-5.25	1.54	1.59
35	BB	1338	U	P-O5'	-5.25	1.54	1.59
35	BB	1524	G	C3'-C2'	-5.25	1.47	1.52
38	BE	44	C	N1-C2	-5.25	1.34	1.40
85	AA	747	U	N3-C4	-5.25	1.33	1.38
85	AA	1196	C	O4'-C1'	-5.25	1.34	1.41
85	AA	1285	C	P-O5'	-5.25	1.54	1.59
85	AA	2221	A	C2'-C1'	-5.25	1.47	1.53
34	BA	12	G	N9-C8	-5.25	1.34	1.37
34	BA	129	U	C3'-C2'	-5.25	1.47	1.52
34	BA	349	G	N7-C5	-5.25	1.36	1.39
34	BA	671	C	C2'-C1'	-5.25	1.47	1.53
34	BA	751	A	C3'-C2'	-5.25	1.47	1.52
34	BA	813	C	N1-C6	-5.25	1.33	1.37
34	BA	844	U	C2-N3	-5.25	1.34	1.37
35	BB	465	C	C3'-C2'	-5.25	1.47	1.52
35	BB	511	A	C6-N6	-5.25	1.29	1.33
35	BB	1094	A	C3'-C2'	-5.25	1.47	1.52
38	BE	88	G	C8-N7	-5.25	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	319	U	C2'-C1'	-5.25	1.47	1.53
85	AA	359	A	C1'-N9	-5.25	1.39	1.46
85	AA	429	G	C8-N7	-5.25	1.27	1.30
85	AA	698	G	C5-C4	-5.25	1.34	1.38
85	AA	736	U	C5'-C4'	5.25	1.57	1.51
85	AA	1207	C	C3'-C2'	-5.25	1.47	1.52
85	AA	1650	G	N9-C8	-5.25	1.34	1.37
85	AA	1861	A	C4'-C3'	-5.25	1.47	1.52
85	AA	2191	C	C4-N4	-5.25	1.29	1.33
85	AA	2221	A	C1'-N9	-5.25	1.39	1.46
34	BA	114	U	O4'-C1'	-5.25	1.34	1.41
34	BA	192	G	N7-C5	-5.25	1.36	1.39
34	BA	667	U	C2-N3	-5.25	1.34	1.37
34	BA	1103	G	C4'-O4'	-5.25	1.38	1.45
35	BB	73	G	P-O5'	-5.25	1.54	1.59
35	BB	1394	A	C5'-C4'	-5.25	1.45	1.51
35	BB	1456	G	P-O5'	-5.25	1.54	1.59
85	AA	320	U	P-O5'	-5.25	1.54	1.59
85	AA	936	C	C4'-O4'	-5.25	1.38	1.45
34	BA	753	G	C1'-N9	-5.25	1.39	1.46
34	BA	1192	A	C3'-O3'	-5.25	1.34	1.42
34	BA	1324	G	C3'-C2'	-5.25	1.47	1.52
34	BA	1657	A	C3'-C2'	-5.25	1.47	1.52
34	BA	1779	U	C2'-C1'	-5.25	1.47	1.53
35	BB	93	A	N3-C4	-5.25	1.31	1.34
35	BB	490	G	C1'-N9	-5.25	1.39	1.46
35	BB	1299	G	C1'-N9	-5.25	1.39	1.46
35	BB	1343	C	N1-C6	-5.25	1.34	1.37
37	BD	74	A	C4'-O4'	-5.25	1.38	1.45
38	BE	168	C	C3'-C2'	-5.25	1.47	1.52
38	BE	203	C	C1'-N1	-5.25	1.39	1.46
39	BF	54	U	N1-C6	-5.25	1.33	1.38
41	BH	32	U	C5'-C4'	-5.25	1.45	1.51
85	AA	116	G	N7-C5	-5.25	1.36	1.39
34	BA	254	U	P-O5'	-5.25	1.54	1.59
34	BA	461	A	C2'-C1'	-5.25	1.47	1.53
34	BA	734	G	N1-C2	-5.25	1.33	1.37
34	BA	1340	G	O3'-P	-5.25	1.54	1.61
34	BA	1618	A	C8-N7	-5.25	1.27	1.31
34	BA	1739	G	C3'-C2'	-5.25	1.47	1.52
34	BA	1814	U	P-O5'	-5.25	1.54	1.59
35	BB	34	G	N3-C4	-5.25	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	386	G	C5-C6	-5.25	1.37	1.42
35	BB	1488	G	C3'-C2'	-5.25	1.47	1.52
40	BG	45	G	C3'-C2'	-5.25	1.47	1.52
85	AA	496	C	N3-C4	-5.25	1.30	1.33
85	AA	970	U	C2'-C1'	5.25	1.59	1.53
85	AA	983	A	O3'-P	-5.25	1.54	1.61
85	AA	1577	G	C2-N2	-5.25	1.29	1.34
85	AA	1660	U	N3-C4	-5.25	1.33	1.38
85	AA	2028	G	C2-N2	-5.25	1.29	1.34
85	AA	2036	A	C2'-C1'	-5.25	1.47	1.53
85	AA	2039	G	N9-C8	-5.25	1.34	1.37
34	BA	621	G	N7-C5	-5.25	1.36	1.39
34	BA	974	G	N9-C8	-5.25	1.34	1.37
34	BA	1090	A	N3-C4	-5.25	1.31	1.34
35	BB	822	G	C6-N1	-5.25	1.35	1.39
39	BF	52	A	C2'-C1'	-5.25	1.47	1.53
85	AA	529	G	N3-C4	-5.25	1.31	1.35
85	AA	596	A	C5-C4	-5.25	1.35	1.38
85	AA	833	U	C3'-C2'	-5.25	1.47	1.52
6	A5	78	ILE	CA-C	-5.24	1.39	1.52
34	BA	144	C	C2'-C1'	-5.24	1.47	1.53
34	BA	593	G	N7-C5	-5.24	1.36	1.39
34	BA	672	G	C6-N1	-5.24	1.35	1.39
34	BA	789	U	C2'-C1'	-5.24	1.47	1.53
34	BA	1010	C	N1-C6	-5.24	1.34	1.37
34	BA	1029	C	C4'-C3'	-5.24	1.47	1.52
34	BA	1576	C	C2'-C1'	-5.24	1.47	1.53
34	BA	1808	A	N9-C8	-5.24	1.33	1.37
35	BB	492	U	C3'-C2'	-5.24	1.47	1.52
35	BB	607	G	C1'-N9	-5.24	1.39	1.46
35	BB	1335	G	C3'-C2'	-5.24	1.47	1.52
38	BE	94	U	C5'-C4'	-5.24	1.45	1.51
39	BF	36	G	C2-N2	-5.24	1.29	1.34
85	AA	363	A	O4'-C1'	-5.24	1.34	1.41
85	AA	364	C	C1'-N1	-5.24	1.39	1.46
85	AA	994	A	C5-C4	-5.24	1.35	1.38
85	AA	1441	G	C2-N2	-5.24	1.29	1.34
85	AA	1457	C	O4'-C1'	-5.24	1.34	1.41
85	AA	1469	G	P-O5'	-5.24	1.54	1.59
85	AA	2199	G	C1'-N9	-5.24	1.39	1.46
34	BA	22	C	C4'-C3'	-5.24	1.47	1.52
37	BD	77	A	C8-N7	-5.24	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	495	G	C8-N7	-5.24	1.27	1.30
85	AA	1157	U	C4'-C3'	-5.24	1.47	1.52
85	AA	1184	A	C2'-C1'	-5.24	1.47	1.53
85	AA	1569	C	O3'-P	-5.24	1.54	1.61
85	AA	1587	C	C3'-C2'	-5.24	1.47	1.52
85	AA	1589	G	C3'-C2'	-5.24	1.47	1.52
25	AR	14	VAL	N-CA	-5.24	1.35	1.46
34	BA	248	G	C5-C6	-5.24	1.37	1.42
34	BA	857	C	N1-C6	-5.24	1.34	1.37
34	BA	934	G	C1'-N9	-5.24	1.39	1.46
34	BA	945	A	O3'-P	-5.24	1.54	1.61
34	BA	1064	A	N3-C4	-5.24	1.31	1.34
35	BB	445	G	C6-N1	-5.24	1.35	1.39
35	BB	543	G	N7-C5	-5.24	1.36	1.39
35	BB	1374	U	C2'-C1'	-5.24	1.47	1.53
35	BB	1397	G	N1-C2	-5.24	1.33	1.37
35	BB	1416	A	C1'-N9	-5.24	1.39	1.46
36	BC	42	G	C3'-C2'	-5.24	1.47	1.52
40	BG	9	G	C2-N3	-5.24	1.28	1.32
40	BG	34	A	O4'-C1'	-5.24	1.34	1.41
41	BH	17	A	O4'-C1'	-5.24	1.34	1.41
85	AA	431	G	C2-N2	-5.24	1.29	1.34
85	AA	500	C	P-O5'	-5.24	1.54	1.59
85	AA	1352	U	C5'-C4'	5.24	1.57	1.51
85	AA	1754	G	O3'-P	-5.24	1.54	1.61
85	AA	2127	G	C4'-C3'	-5.24	1.47	1.52
85	AA	2225	G	C2-N2	-5.24	1.29	1.34
34	BA	401	A	C3'-C2'	-5.24	1.47	1.52
34	BA	1029	C	C2'-C1'	-5.24	1.47	1.53
34	BA	1142	C	C3'-C2'	-5.24	1.47	1.52
34	BA	1707	C	O4'-C1'	-5.24	1.34	1.41
35	BB	60	A	C5'-C4'	-5.24	1.45	1.51
35	BB	1184	C	O3'-P	-5.24	1.54	1.61
35	BB	1355	C	C2'-C1'	-5.24	1.47	1.53
35	BB	1480	G	O4'-C1'	-5.24	1.34	1.41
36	BC	6	G	C2-N3	-5.24	1.28	1.32
38	BE	121	G	N3-C4	-5.24	1.31	1.35
38	BE	178	G	C2'-C1'	-5.24	1.47	1.53
41	BH	45	G	C5-C6	-5.24	1.37	1.42
85	AA	1134	G	C5-C4	-5.24	1.34	1.38
85	AA	1134	G	C2'-C1'	-5.24	1.47	1.53
85	AA	1485	G	P-O5'	-5.24	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1732	G	N9-C4	-5.24	1.33	1.38
34	BA	362	G	C3'-C2'	-5.24	1.47	1.52
34	BA	454	G	C2'-C1'	-5.24	1.47	1.53
34	BA	1028	A	C5-C6	-5.24	1.36	1.41
35	BB	1020	U	N3-C4	-5.24	1.33	1.38
36	BC	119	G	C5-C6	-5.24	1.37	1.42
40	BG	17	A	N3-C4	-5.24	1.31	1.34
85	AA	173	A	C4'-O4'	-5.24	1.38	1.45
85	AA	1236	G	N3-C4	-5.24	1.31	1.35
85	AA	2083	G	C2'-C1'	-5.24	1.47	1.53
85	AA	2143	U	N3-C4	-5.24	1.33	1.38
34	BA	62	A	C2'-C1'	-5.24	1.47	1.53
34	BA	458	G	C2'-C1'	-5.24	1.47	1.53
34	BA	628	U	O3'-P	-5.24	1.54	1.61
34	BA	1182	U	C2'-C1'	-5.24	1.47	1.53
34	BA	1451	A	N3-C4	-5.24	1.31	1.34
34	BA	1502	G	C3'-C2'	-5.24	1.47	1.52
35	BB	428	G	C5-C4	-5.24	1.34	1.38
35	BB	651	G	C5-C4	-5.24	1.34	1.38
35	BB	1416	A	O3'-P	-5.24	1.54	1.61
36	BC	14	G	C5-C4	-5.24	1.34	1.38
37	BD	84	U	O3'-P	-5.24	1.54	1.61
37	BD	101	A	C8-N7	-5.24	1.27	1.31
38	BE	195	G	C5-C4	-5.24	1.34	1.38
39	BF	65	U	C3'-C2'	-5.24	1.47	1.52
40	BG	47	G	N9-C4	-5.24	1.33	1.38
85	AA	303	A	C2'-C1'	-5.24	1.47	1.53
85	AA	624	A	N1-C2	-5.24	1.29	1.34
85	AA	2092	A	C3'-C2'	-5.24	1.47	1.52
85	AA	2175	U	O4'-C1'	-5.24	1.34	1.41
85	AA	2245	A	C2'-C1'	-5.24	1.47	1.53
34	BA	236	A	C2'-O2'	-5.23	1.34	1.41
34	BA	1016	A	C6-N6	-5.23	1.29	1.33
35	BB	568	A	C8-N7	-5.23	1.27	1.31
37	BD	72	U	C4'-O4'	-5.23	1.38	1.45
40	BG	73	U	O4'-C1'	-5.23	1.34	1.41
85	AA	307	G	N3-C4	-5.23	1.31	1.35
85	AA	2144	C	O3'-P	-5.23	1.54	1.61
86	AB	67	C	P-O5'	-5.23	1.54	1.59
33	AZ	41	GLY	CA-C	-5.23	1.43	1.51
34	BA	112	C	P-O5'	-5.23	1.54	1.59
34	BA	474	A	C8-N7	-5.23	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	815	C	C4'-C3'	-5.23	1.47	1.52
34	BA	850	C	C2-N3	-5.23	1.31	1.35
34	BA	1093	G	C2-N2	-5.23	1.29	1.34
34	BA	1165	A	C8-N7	-5.23	1.27	1.31
34	BA	1227	U	C2'-C1'	-5.23	1.47	1.53
34	BA	1413	G	C3'-C2'	-5.23	1.47	1.52
34	BA	1598	U	C2'-C1'	-5.23	1.47	1.53
35	BB	269	A	O3'-P	-5.23	1.54	1.61
35	BB	795	A	C2'-C1'	-5.23	1.47	1.53
35	BB	1099	U	P-O5'	-5.23	1.54	1.59
35	BB	1160	U	C4'-C3'	-5.23	1.47	1.52
35	BB	1257	A	P-O5'	-5.23	1.54	1.59
35	BB	1352	C	O3'-P	-5.23	1.54	1.61
36	BC	4	G	C2-N2	-5.23	1.29	1.34
36	BC	91	G	N7-C5	-5.23	1.36	1.39
38	BE	31	A	O3'-P	-5.23	1.54	1.61
38	BE	204	U	P-O5'	-5.23	1.54	1.59
85	AA	15	U	O3'-P	-5.23	1.54	1.61
85	AA	404	A	C3'-C2'	-5.23	1.47	1.52
85	AA	542	G	N7-C5	-5.23	1.36	1.39
34	BA	83	G	N1-C2	-5.23	1.33	1.37
34	BA	118	C	C4-N4	-5.23	1.29	1.33
34	BA	433	G	N9-C4	-5.23	1.33	1.38
34	BA	537	C	C3'-C2'	-5.23	1.47	1.52
34	BA	689	C	C4-N4	-5.23	1.29	1.33
34	BA	932	G	C2-N2	-5.23	1.29	1.34
34	BA	1440	C	N3-C4	-5.23	1.30	1.33
34	BA	1658	G	C2'-C1'	-5.23	1.47	1.53
35	BB	4	C	C3'-O3'	5.23	1.49	1.42
35	BB	41	A	C6-N1	5.23	1.39	1.35
35	BB	429	C	C2-N3	-5.23	1.31	1.35
35	BB	1351	G	N9-C8	-5.23	1.34	1.37
35	BB	1385	C	C2-N3	-5.23	1.31	1.35
40	BG	29	U	C2-N3	-5.23	1.34	1.37
41	BH	11	C	C2'-C1'	-5.23	1.47	1.53
85	AA	390	U	C2-N3	-5.23	1.34	1.37
85	AA	808	A	C4'-O4'	5.23	1.52	1.45
85	AA	1624	U	C1'-N1	-5.23	1.39	1.46
34	BA	130	U	N3-C4	-5.23	1.33	1.38
34	BA	238	C	C5-C6	-5.23	1.30	1.34
34	BA	763	U	C2'-C1'	5.23	1.59	1.53
34	BA	926	A	O4'-C1'	-5.23	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1560	U	P-O5'	-5.23	1.54	1.59
37	BD	16	U	N3-C4	-5.23	1.33	1.38
38	BE	121	G	C2-N2	-5.23	1.29	1.34
39	BF	36	G	C5-C6	-5.23	1.37	1.42
40	BG	18	U	C2'-C1'	-5.23	1.47	1.53
40	BG	52	A	C8-N7	-5.23	1.27	1.31
41	BH	6	U	N3-C4	-5.23	1.33	1.38
85	AA	157	G	O4'-C1'	-5.23	1.34	1.41
34	BA	73	G	C5-C4	-5.23	1.34	1.38
34	BA	296	G	C1'-N9	5.23	1.56	1.48
34	BA	478	G	N1-C2	-5.23	1.33	1.37
34	BA	774	A	C4'-O4'	-5.23	1.38	1.45
34	BA	818	G	C6-N1	-5.23	1.35	1.39
34	BA	841	G	C2'-C1'	-5.23	1.47	1.53
34	BA	853	A	N1-C2	-5.23	1.29	1.34
34	BA	861	C	O3'-P	-5.23	1.54	1.61
34	BA	956	G	C1'-N9	-5.23	1.39	1.46
34	BA	1090	A	N7-C5	-5.23	1.36	1.39
34	BA	1409	A	C6-N1	-5.23	1.31	1.35
34	BA	1595	G	C5-C4	-5.23	1.34	1.38
35	BB	9	G	C8-N7	-5.23	1.27	1.30
35	BB	121	A	N1-C2	-5.23	1.29	1.34
35	BB	1351	G	N9-C4	-5.23	1.33	1.38
35	BB	1363	A	C2'-C1'	-5.23	1.47	1.53
36	BC	109	A	N9-C8	-5.23	1.33	1.37
37	BD	54	A	C5-C4	-5.23	1.35	1.38
37	BD	69	U	C1'-N1	-5.23	1.39	1.46
38	BE	13	A	P-O5'	5.23	1.65	1.59
40	BG	129	G	C5'-C4'	-5.23	1.45	1.51
85	AA	539	A	N7-C5	-5.23	1.36	1.39
85	AA	1689	G	P-O5'	-5.23	1.54	1.59
85	AA	1872	G	C5-C6	-5.23	1.37	1.42
34	BA	36	A	C2'-C1'	-5.23	1.47	1.53
34	BA	859	G	C2-N3	-5.23	1.28	1.32
35	BB	572	G	N3-C4	-5.23	1.31	1.35
85	AA	1516	A	C3'-O3'	-5.23	1.34	1.42
85	AA	1904	C	C4'-C3'	-5.23	1.47	1.52
34	BA	36	A	C1'-N9	-5.22	1.39	1.46
34	BA	454	G	N9-C4	-5.22	1.33	1.38
34	BA	1276	G	C6-N1	-5.22	1.35	1.39
34	BA	1433	U	O3'-P	-5.22	1.54	1.61
34	BA	1442	A	C2'-C1'	-5.22	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1444	G	C4'-C3'	5.22	1.58	1.53
34	BA	1481	U	O3'-P	-5.22	1.54	1.61
34	BA	1688	G	N3-C4	-5.22	1.31	1.35
35	BB	85	A	N3-C4	-5.22	1.31	1.34
35	BB	111	C	C3'-C2'	-5.22	1.47	1.52
35	BB	375	G	C3'-C2'	-5.22	1.47	1.52
35	BB	692	G	C2-N2	-5.22	1.29	1.34
35	BB	875	G	C5'-C4'	5.22	1.57	1.51
35	BB	1515	C	N1-C6	-5.22	1.34	1.37
38	BE	85	G	C5-C4	-5.22	1.34	1.38
40	BG	90	G	C3'-C2'	-5.22	1.47	1.52
41	BH	115	A	C8-N7	-5.22	1.27	1.31
61	Bb	106	TYR	CB-CG	-5.22	1.43	1.51
85	AA	416	U	N3-C4	-5.22	1.33	1.38
85	AA	436	G	C2'-C1'	-5.22	1.47	1.53
85	AA	764	U	N1-C2	-5.22	1.33	1.38
85	AA	802	A	C1'-N9	-5.22	1.39	1.46
85	AA	1197	U	C3'-C2'	-5.22	1.47	1.52
34	BA	575	U	C1'-N1	-5.22	1.39	1.46
34	BA	584	A	C5-C4	-5.22	1.35	1.38
34	BA	588	C	N1-C6	-5.22	1.34	1.37
34	BA	1704	G	N1-C2	-5.22	1.33	1.37
35	BB	673	C	C4'-C3'	-5.22	1.47	1.52
35	BB	1536	G	O3'-P	-5.22	1.54	1.61
36	BC	33	U	C1'-N1	5.22	1.56	1.48
54	BU	8	LYS	N-CA	-5.22	1.35	1.46
85	AA	395	G	C1'-N9	-5.22	1.39	1.46
85	AA	1517	G	C4'-C3'	-5.22	1.47	1.52
85	AA	1701	G	C5-C4	-5.22	1.34	1.38
85	AA	2034	G	O3'-P	-5.22	1.54	1.61
34	BA	192	G	C2'-C1'	-5.22	1.47	1.53
34	BA	619	U	C2'-C1'	-5.22	1.47	1.53
34	BA	1250	C	N3-C4	-5.22	1.30	1.33
35	BB	481	A	P-O5'	-5.22	1.54	1.59
36	BC	60	U	C2'-C1'	-5.22	1.47	1.53
36	BC	106	G	N9-C8	-5.22	1.34	1.37
36	BC	154	A	N7-C5	-5.22	1.36	1.39
36	BC	163	A	N9-C8	-5.22	1.33	1.37
40	BG	70	C	N3-C4	-5.22	1.30	1.33
41	BH	38	G	C4'-C3'	-5.22	1.47	1.52
85	AA	246	C	C2'-C1'	-5.22	1.47	1.53
85	AA	506	G	C2-N2	-5.22	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	513	G	C6-N1	-5.22	1.35	1.39
85	AA	913	U	N1-C2	-5.22	1.33	1.38
85	AA	1650	G	N9-C4	-5.22	1.33	1.38
85	AA	1698	A	C8-N7	-5.22	1.27	1.31
34	BA	1	C	O3'-P	-5.22	1.54	1.61
34	BA	439	A	P-O5'	-5.22	1.54	1.59
34	BA	719	G	N1-C2	-5.22	1.33	1.37
34	BA	1528	U	O3'-P	-5.22	1.54	1.61
34	BA	1535	G	O3'-P	-5.22	1.54	1.61
35	BB	467	G	C6-N1	-5.22	1.35	1.39
35	BB	590	G	N9-C4	-5.22	1.33	1.38
35	BB	679	G	C2-N2	-5.22	1.29	1.34
35	BB	954	G	C2'-C1'	-5.22	1.47	1.53
35	BB	1045	G	N9-C4	-5.22	1.33	1.38
35	BB	1313	C	C4-N4	-5.22	1.29	1.33
35	BB	1503	U	C5'-C4'	5.22	1.57	1.51
36	BC	54	G	C2-N2	-5.22	1.29	1.34
40	BG	58	G	C2-N2	-5.22	1.29	1.34
85	AA	19	A	C8-N7	-5.22	1.27	1.31
85	AA	779	G	C4'-C3'	-5.22	1.47	1.52
85	AA	1220	A	C2'-C1'	-5.22	1.47	1.53
34	BA	303	C	C4'-C3'	-5.22	1.47	1.52
34	BA	496	G	N1-C2	-5.22	1.33	1.37
34	BA	1563	G	O3'-P	-5.22	1.54	1.61
35	BB	1071	G	C2'-C1'	-5.22	1.47	1.53
35	BB	1455	A	N9-C8	-5.22	1.33	1.37
39	BF	72	A	N9-C4	-5.22	1.34	1.37
40	BG	54	G	C2-N2	-5.22	1.29	1.34
40	BG	100	G	C2-N2	-5.22	1.29	1.34
85	AA	93	G	N3-C4	-5.22	1.31	1.35
85	AA	1100	U	N1-C2	5.22	1.43	1.38
85	AA	1128	G	C5-C4	-5.22	1.34	1.38
34	BA	352	G	C5-C4	-5.22	1.34	1.38
34	BA	910	U	C2'-C1'	-5.22	1.47	1.53
34	BA	1234	U	C1'-N1	-5.22	1.39	1.46
34	BA	1330	G	C4'-C3'	5.22	1.58	1.53
34	BA	1711	G	C2'-C1'	-5.22	1.47	1.53
35	BB	681	G	C2-N2	-5.22	1.29	1.34
35	BB	830	G	P-O5'	-5.22	1.54	1.59
35	BB	1038	G	C5-C6	-5.22	1.37	1.42
35	BB	1108	G	C2'-C1'	-5.22	1.47	1.53
35	BB	1391	G	C5-C4	-5.22	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	30	A	O3'-P	-5.22	1.54	1.61
40	BG	134	U	N1-C6	-5.22	1.33	1.38
40	BG	150	A	C5-C6	-5.22	1.36	1.41
85	AA	606	A	O3'-P	-5.22	1.54	1.61
85	AA	642	G	C1'-N9	-5.22	1.39	1.46
85	AA	644	A	C2'-C1'	-5.22	1.47	1.53
85	AA	1245	U	C2-N3	-5.22	1.34	1.37
85	AA	2046	G	C6-N1	-5.22	1.35	1.39
34	BA	315	U	C3'-C2'	-5.21	1.47	1.52
34	BA	894	G	C3'-C2'	-5.21	1.47	1.52
34	BA	1192	A	C4'-C3'	-5.21	1.47	1.52
34	BA	1511	C	C4'-C3'	-5.21	1.47	1.52
34	BA	1637	G	N9-C4	5.21	1.42	1.38
34	BA	1787	U	C2-N3	-5.21	1.34	1.37
35	BB	833	G	C1'-N9	-5.21	1.39	1.46
35	BB	1380	G	O3'-P	-5.21	1.54	1.61
35	BB	1469	A	P-O5'	-5.21	1.54	1.59
36	BC	63	G	C3'-C2'	-5.21	1.47	1.52
38	BE	59	U	C4'-C3'	-5.21	1.47	1.52
38	BE	60	C	C4-N4	-5.21	1.29	1.33
39	BF	48	G	C5-C6	-5.21	1.37	1.42
41	BH	106	G	C2-N2	-5.21	1.29	1.34
63	Bd	36	GLY	C-N	5.21	1.46	1.34
85	AA	62	A	O3'-P	-5.21	1.54	1.61
85	AA	123	A	O3'-P	-5.21	1.54	1.61
85	AA	126	U	N1-C2	-5.21	1.33	1.38
85	AA	269	G	C5'-C4'	-5.21	1.45	1.51
85	AA	435	A	C1'-N9	-5.21	1.39	1.46
85	AA	528	U	C4'-O4'	-5.21	1.38	1.45
85	AA	1983	C	O3'-P	-5.21	1.54	1.61
85	AA	2017	U	C4'-C3'	-5.21	1.47	1.52
86	AB	59	U	O3'-P	-5.21	1.54	1.61
34	BA	878	G	C4'-O4'	-5.21	1.38	1.45
35	BB	703	U	C1'-N1	-5.21	1.39	1.46
35	BB	1028	C	C4'-O4'	-5.21	1.38	1.45
35	BB	1334	C	C4-N4	-5.21	1.29	1.33
37	BD	58	G	N1-C2	-5.21	1.33	1.37
85	AA	157	G	C5'-C4'	-5.21	1.45	1.51
85	AA	394	C	C2'-C1'	-5.21	1.47	1.53
85	AA	797	C	P-O5'	-5.21	1.54	1.59
85	AA	1672	G	C5-C4	-5.21	1.34	1.38
85	AA	2112	G	N7-C5	-5.21	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	2	A	C4'-C3'	-5.21	1.47	1.52
34	BA	460	G	N9-C4	-5.21	1.33	1.38
34	BA	798	G	C4'-C3'	-5.21	1.47	1.52
34	BA	1008	A	N7-C5	-5.21	1.36	1.39
35	BB	102	G	C5-C6	-5.21	1.37	1.42
35	BB	378	C	C2'-C1'	-5.21	1.47	1.53
35	BB	593	A	N3-C4	-5.21	1.31	1.34
35	BB	811	C	O3'-P	-5.21	1.54	1.61
35	BB	1512	C	C1'-N1	5.21	1.56	1.48
41	BH	91	G	C8-N7	5.21	1.34	1.30
85	AA	276	C	C4-N4	-5.21	1.29	1.33
85	AA	692	U	C5'-C4'	-5.21	1.45	1.51
85	AA	2136	C	O3'-P	-5.21	1.54	1.61
34	BA	403	A	N9-C4	-5.21	1.34	1.37
34	BA	546	U	C2-N3	-5.21	1.34	1.37
35	BB	109	U	N1-C6	-5.21	1.33	1.38
35	BB	406	A	P-O5'	-5.21	1.54	1.59
35	BB	1509	G	C2-N2	-5.21	1.29	1.34
38	BE	175	U	C4'-C3'	5.21	1.58	1.53
41	BH	26	C	O3'-P	-5.21	1.54	1.61
85	AA	488	G	C1'-N9	-5.21	1.39	1.46
34	BA	375	C	C3'-C2'	-5.21	1.47	1.52
34	BA	889	U	C4'-C3'	-5.21	1.47	1.52
34	BA	999	G	C2-N2	-5.21	1.29	1.34
34	BA	1238	C	C2'-C1'	-5.21	1.47	1.53
34	BA	1512	C	C2-N3	-5.21	1.31	1.35
34	BA	1574	C	C4-N4	-5.21	1.29	1.33
35	BB	101	U	O4'-C1'	-5.21	1.34	1.41
35	BB	841	U	N1-C6	-5.21	1.33	1.38
35	BB	1187	G	P-O5'	-5.21	1.54	1.59
35	BB	1220	A	N9-C8	-5.21	1.33	1.37
35	BB	1430	G	O4'-C1'	-5.21	1.34	1.41
37	BD	69	U	N1-C6	-5.21	1.33	1.38
38	BE	163	A	C5-C6	-5.21	1.36	1.41
39	BF	56	C	N3-C4	5.21	1.37	1.33
40	BG	135	C	C4'-C3'	-5.21	1.47	1.52
41	BH	54	U	N3-C4	-5.21	1.33	1.38
41	BH	68	G	C2-N2	-5.21	1.29	1.34
85	AA	457	G	C2'-C1'	-5.21	1.47	1.53
85	AA	648	G	N9-C8	-5.21	1.34	1.37
85	AA	732	G	P-O5'	-5.21	1.54	1.59
85	AA	1918	U	C2'-C1'	-5.21	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	181	G	N3-C4	-5.21	1.31	1.35
34	BA	540	G	C2'-C1'	-5.21	1.47	1.53
34	BA	654	C	O3'-P	-5.21	1.54	1.61
34	BA	689	C	C1'-N1	-5.21	1.39	1.46
34	BA	755	G	C5'-C4'	-5.21	1.45	1.51
34	BA	807	U	C2-N3	-5.21	1.34	1.37
34	BA	1007	G	C2'-C1'	-5.21	1.47	1.53
34	BA	1227	U	P-O5'	-5.21	1.54	1.59
34	BA	1509	U	C2'-C1'	-5.21	1.47	1.53
34	BA	1597	G	C8-N7	-5.21	1.27	1.30
35	BB	32	C	C3'-C2'	-5.21	1.47	1.52
35	BB	68	G	N7-C5	-5.21	1.36	1.39
35	BB	348	G	P-O5'	-5.21	1.54	1.59
35	BB	1224	C	N1-C6	-5.21	1.34	1.37
35	BB	1440	A	N3-C4	-5.21	1.31	1.34
35	BB	1529	G	N7-C5	-5.21	1.36	1.39
36	BC	69	U	C1'-N1	-5.21	1.39	1.46
40	BG	78	C	N1-C6	-5.21	1.34	1.37
40	BG	180	C	C4'-O4'	-5.21	1.38	1.45
56	BW	97	PHE	CB-CG	-5.21	1.42	1.51
85	AA	11	A	C6-N1	-5.21	1.31	1.35
85	AA	49	C	C3'-C2'	-5.21	1.47	1.52
85	AA	119	G	N9-C8	-5.21	1.34	1.37
85	AA	611	G	N9-C4	5.21	1.42	1.38
85	AA	995	G	C4'-C3'	-5.21	1.47	1.52
85	AA	1508	A	C3'-C2'	-5.21	1.47	1.52
85	AA	1536	C	O5'-C5'	5.21	1.52	1.44
85	AA	1788	U	P-O5'	-5.21	1.54	1.59
85	AA	1854	U	P-O5'	-5.21	1.54	1.59
34	BA	19	G	N1-C2	-5.21	1.33	1.37
34	BA	371	U	N3-C4	-5.21	1.33	1.38
35	BB	108	G	C2'-C1'	-5.21	1.47	1.53
36	BC	70	C	P-O5'	-5.21	1.54	1.59
61	Bb	133	LYS	CA-C	-5.21	1.39	1.52
85	AA	323	U	C3'-C2'	-5.21	1.47	1.52
85	AA	968	U	C3'-C2'	-5.21	1.47	1.52
85	AA	1877	G	C6-N1	-5.21	1.35	1.39
85	AA	2187	G	N1-C2	-5.21	1.33	1.37
34	BA	386	A	C2'-C1'	-5.20	1.47	1.53
34	BA	1094	U	C2'-C1'	-5.20	1.47	1.53
34	BA	1248	A	C2'-C1'	-5.20	1.47	1.53
34	BA	1252	G	C4'-C3'	-5.20	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1674	G	C2-N2	-5.20	1.29	1.34
35	BB	66	G	C5-C6	-5.20	1.37	1.42
35	BB	514	G	O3'-P	-5.20	1.54	1.61
35	BB	1123	A	C5-C4	-5.20	1.35	1.38
40	BG	61	A	O3'-P	-5.20	1.54	1.61
85	AA	19	A	N3-C4	-5.20	1.31	1.34
85	AA	938	A	C8-N7	-5.20	1.27	1.31
85	AA	1305	A	C2'-C1'	-5.20	1.47	1.53
85	AA	2072	G	C4'-C3'	-5.20	1.47	1.52
34	BA	291	C	C4'-C3'	-5.20	1.47	1.52
34	BA	828	A	C3'-C2'	-5.20	1.47	1.52
34	BA	1159	A	N9-C4	-5.20	1.34	1.37
36	BC	98	C	O3'-P	-5.20	1.54	1.61
85	AA	1223	A	C3'-C2'	-5.20	1.47	1.52
85	AA	2028	G	C6-N1	-5.20	1.35	1.39
85	AA	2069	A	C6-N6	-5.20	1.29	1.33
34	BA	12	G	C6-N1	-5.20	1.35	1.39
34	BA	666	C	C4-C5	-5.20	1.38	1.43
34	BA	1253	G	C1'-N9	-5.20	1.39	1.46
34	BA	1273	U	C4'-O4'	-5.20	1.38	1.45
35	BB	101	U	C1'-N1	-5.20	1.39	1.46
35	BB	374	A	C6-N6	-5.20	1.29	1.33
35	BB	1185	G	O4'-C1'	-5.20	1.34	1.41
35	BB	1524	G	C6-N1	-5.20	1.35	1.39
37	BD	65	G	C1'-N9	-5.20	1.39	1.46
39	BF	32	G	C2-N2	-5.20	1.29	1.34
85	AA	317	A	N7-C5	-5.20	1.36	1.39
85	AA	671	G	C2'-C1'	-5.20	1.47	1.53
85	AA	1143	C	P-O5'	-5.20	1.54	1.59
85	AA	2240	G	C5-C4	-5.20	1.34	1.38
34	BA	38	G	N9-C4	-5.20	1.33	1.38
34	BA	320	G	C6-N1	-5.20	1.35	1.39
34	BA	472	G	C5-C6	-5.20	1.37	1.42
34	BA	1287	G	C4'-C3'	-5.20	1.47	1.52
34	BA	1310	C	C3'-C2'	-5.20	1.47	1.52
34	BA	1406	U	N3-C4	-5.20	1.33	1.38
34	BA	1665	G	C3'-C2'	-5.20	1.47	1.52
35	BB	103	C	C2'-C1'	-5.20	1.47	1.53
35	BB	830	G	C2-N2	-5.20	1.29	1.34
35	BB	1181	A	N3-C4	-5.20	1.31	1.34
35	BB	1222	A	C8-N7	-5.20	1.27	1.31
35	BB	1365	G	C5-C4	-5.20	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1501	U	P-O5'	-5.20	1.54	1.59
39	BF	57	C	N1-C2	-5.20	1.34	1.40
40	BG	7	U	C2'-C1'	-5.20	1.47	1.53
40	BG	144	G	C2'-C1'	-5.20	1.47	1.53
41	BH	114	G	C5-C6	-5.20	1.37	1.42
85	AA	57	G	O3'-P	-5.20	1.54	1.61
85	AA	182	C	C4'-C3'	-5.20	1.47	1.52
85	AA	430	G	C5-C6	-5.20	1.37	1.42
85	AA	875	C	O3'-P	-5.20	1.54	1.61
85	AA	1172	A	C2'-C1'	-5.20	1.47	1.53
85	AA	1485	G	C3'-C2'	-5.20	1.47	1.52
85	AA	1921	G	C6-N1	5.20	1.43	1.39
34	BA	486	G	O3'-P	-5.20	1.54	1.61
34	BA	1063	G	N9-C4	-5.20	1.33	1.38
34	BA	1269	C	C4-N4	-5.20	1.29	1.33
34	BA	1276	G	N1-C2	-5.20	1.33	1.37
34	BA	1687	A	C5-C4	-5.20	1.35	1.38
35	BB	623	A	O3'-P	-5.20	1.54	1.61
85	AA	549	A	C2'-C1'	-5.20	1.47	1.53
85	AA	1007	G	P-O5'	-5.20	1.54	1.59
85	AA	1234	G	C2'-C1'	-5.20	1.47	1.53
85	AA	1564	U	C2-N3	-5.20	1.34	1.37
85	AA	2044	A	P-O5'	-5.20	1.54	1.59
85	AA	2044	A	N3-C4	-5.20	1.31	1.34
85	AA	2170	G	C3'-C2'	-5.20	1.47	1.52
34	BA	63	A	C1'-N9	-5.20	1.39	1.46
34	BA	289	A	N1-C2	-5.20	1.29	1.34
34	BA	461	A	O3'-P	-5.20	1.54	1.61
34	BA	466	G	N7-C5	-5.20	1.36	1.39
34	BA	684	G	N9-C4	5.20	1.42	1.38
34	BA	704	G	C2-N2	-5.20	1.29	1.34
34	BA	1498	A	C4'-C3'	-5.20	1.47	1.52
35	BB	25	A	O4'-C1'	-5.20	1.34	1.41
35	BB	529	A	C5'-C4'	5.20	1.57	1.51
35	BB	632	U	N3-C4	-5.20	1.33	1.38
35	BB	1003	G	C3'-C2'	-5.20	1.47	1.52
35	BB	1027	U	C3'-C2'	-5.20	1.47	1.52
35	BB	1159	U	C4'-O4'	-5.20	1.38	1.45
35	BB	1476	C	C2-N3	-5.20	1.31	1.35
85	AA	665	A	C5-C4	-5.20	1.35	1.38
85	AA	687	G	N3-C4	-5.20	1.31	1.35
85	AA	1629	C	C2'-C1'	-5.20	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1864	G	C2'-C1'	-5.20	1.47	1.53
34	BA	1277	G	C2-N2	-5.19	1.29	1.34
35	BB	560	C	C2-N3	-5.19	1.31	1.35
35	BB	1028	C	P-O5'	-5.19	1.54	1.59
35	BB	1186	A	C2'-C1'	-5.19	1.47	1.53
42	BI	177	GLY	CA-C	-5.19	1.43	1.51
52	BS	21	ASN	C-N	-5.19	1.24	1.34
52	BS	44	TRP	CB-CG	-5.19	1.41	1.50
85	AA	188	G	C1'-N9	-5.19	1.39	1.46
85	AA	391	G	C6-N1	-5.19	1.35	1.39
34	BA	87	G	O3'-P	-5.19	1.54	1.61
34	BA	194	G	P-O5'	-5.19	1.54	1.59
34	BA	269	G	C5-C4	-5.19	1.34	1.38
34	BA	412	G	C8-N7	-5.19	1.27	1.30
34	BA	812	A	C1'-N9	-5.19	1.39	1.46
34	BA	1095	G	C2'-C1'	-5.19	1.47	1.53
35	BB	23	U	O3'-P	-5.19	1.54	1.61
35	BB	386	G	C2-N2	-5.19	1.29	1.34
35	BB	1256	C	P-O5'	-5.19	1.54	1.59
40	BG	15	G	C4'-C3'	-5.19	1.47	1.52
40	BG	139	U	C4'-C3'	-5.19	1.47	1.52
85	AA	453	G	C2'-C1'	-5.19	1.47	1.53
85	AA	814	G	C2'-C1'	-5.19	1.47	1.53
85	AA	1429	U	O3'-P	-5.19	1.54	1.61
5	A4	68	TYR	CB-CG	-5.19	1.43	1.51
34	BA	37	A	N3-C4	-5.19	1.31	1.34
34	BA	515	U	N1-C6	-5.19	1.33	1.38
34	BA	627	U	C2'-C1'	-5.19	1.47	1.53
34	BA	1095	G	N1-C2	-5.19	1.33	1.37
34	BA	1142	C	P-O5'	-5.19	1.54	1.59
35	BB	637	G	N1-C2	-5.19	1.33	1.37
35	BB	793	A	N7-C5	-5.19	1.36	1.39
35	BB	1186	A	C5-C4	-5.19	1.35	1.38
36	BC	66	G	N7-C5	-5.19	1.36	1.39
85	AA	53	G	C6-N1	-5.19	1.35	1.39
85	AA	129	U	N3-C4	-5.19	1.33	1.38
85	AA	510	A	C5'-C4'	5.19	1.57	1.51
85	AA	1467	U	O4'-C1'	-5.19	1.34	1.41
85	AA	1802	U	O3'-P	-5.19	1.54	1.61
85	AA	2074	G	C2'-C1'	-5.19	1.47	1.53
85	AA	2074	G	C3'-C2'	-5.19	1.47	1.52
35	BB	94	A	P-O5'	-5.19	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	61	A	N7-C5	-5.19	1.36	1.39
40	BG	36	G	C3'-C2'	-5.19	1.47	1.52
85	AA	188	G	O3'-P	-5.19	1.54	1.61
85	AA	713	G	C4'-C3'	-5.19	1.47	1.52
34	BA	920	U	O3'-P	-5.19	1.54	1.61
34	BA	921	G	C2'-C1'	-5.19	1.47	1.53
34	BA	1219	G	N1-C2	-5.19	1.33	1.37
34	BA	1357	C	C2'-C1'	-5.19	1.47	1.53
34	BA	1684	A	C5-C4	-5.19	1.35	1.38
35	BB	67	A	C1'-N9	-5.19	1.39	1.46
35	BB	1271	A	N9-C4	-5.19	1.34	1.37
35	BB	1360	A	C3'-C2'	-5.19	1.47	1.52
35	BB	1392	A	C4'-O4'	-5.19	1.38	1.45
37	BD	42	A	C3'-C2'	-5.19	1.47	1.52
37	BD	44	U	C3'-C2'	-5.19	1.47	1.52
38	BE	67	A	N9-C8	-5.19	1.33	1.37
85	AA	19	A	N7-C5	-5.19	1.36	1.39
85	AA	122	A	C5-C4	-5.19	1.35	1.38
85	AA	428	G	C5-C6	-5.19	1.37	1.42
85	AA	615	A	P-O5'	-5.19	1.54	1.59
85	AA	864	C	C2-N3	-5.19	1.31	1.35
85	AA	1187	G	C5-C4	-5.19	1.34	1.38
85	AA	1866	A	P-O5'	-5.19	1.54	1.59
85	AA	1900	C	C4'-C3'	-5.19	1.47	1.52
86	AB	6	G	C6-N1	-5.19	1.35	1.39
34	BA	533	U	C1'-N1	-5.19	1.39	1.46
34	BA	1256	A	C3'-C2'	-5.19	1.47	1.52
34	BA	1614	G	C6-O6	-5.19	1.19	1.24
35	BB	376	A	N7-C5	-5.19	1.36	1.39
35	BB	829	C	C1'-N1	-5.19	1.39	1.46
35	BB	864	U	P-O5'	-5.19	1.54	1.59
74	Bo	21	ASN	C-N	-5.19	1.24	1.34
85	AA	374	C	O5'-C5'	-5.19	1.34	1.42
11	AC	124	PHE	CB-CG	-5.18	1.42	1.51
34	BA	382	G	N7-C5	-5.18	1.36	1.39
34	BA	906	A	C1'-N9	-5.18	1.39	1.46
34	BA	1090	A	N9-C8	-5.18	1.33	1.37
34	BA	1170	A	O4'-C1'	-5.18	1.34	1.41
35	BB	121	A	N9-C4	-5.18	1.34	1.37
35	BB	430	A	N3-C4	-5.18	1.31	1.34
35	BB	825	U	C3'-C2'	-5.18	1.47	1.52
35	BB	1134	G	N1-C2	-5.18	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1428	C	C4'-C3'	-5.18	1.47	1.52
35	BB	1474	A	C3'-O3'	5.18	1.49	1.42
37	BD	66	G	C6-N1	-5.18	1.35	1.39
37	BD	71	G	C3'-C2'	-5.18	1.47	1.52
37	BD	107	G	C5-C4	-5.18	1.34	1.38
38	BE	2	G	N9-C8	-5.18	1.34	1.37
39	BF	4	A	C2'-C1'	-5.18	1.47	1.53
41	BH	3	U	O4'-C1'	-5.18	1.34	1.41
41	BH	23	G	N9-C4	-5.18	1.33	1.38
85	AA	596	A	C4'-C3'	-5.18	1.47	1.52
85	AA	1942	U	O3'-P	-5.18	1.54	1.61
85	AA	2002	A	C3'-C2'	-5.18	1.47	1.52
85	AA	2121	G	C2-N2	-5.18	1.29	1.34
85	AA	2125	A	C2'-O2'	-5.18	1.34	1.41
34	BA	483	A	O5'-C5'	-5.18	1.34	1.42
34	BA	613	A	C5-C4	-5.18	1.35	1.38
34	BA	696	A	O4'-C1'	-5.18	1.34	1.41
34	BA	723	C	C3'-C2'	-5.18	1.47	1.52
34	BA	1255	G	C2'-C1'	-5.18	1.47	1.53
34	BA	1349	A	P-O5'	-5.18	1.54	1.59
34	BA	1769	U	P-O5'	-5.18	1.54	1.59
34	BA	1770	U	P-O5'	-5.18	1.54	1.59
35	BB	514	G	C2-N2	-5.18	1.29	1.34
35	BB	561	C	C4-N4	-5.18	1.29	1.33
35	BB	1419	G	N3-C4	-5.18	1.31	1.35
36	BC	27	U	C4'-C3'	-5.18	1.47	1.52
36	BC	38	U	C3'-C2'	-5.18	1.47	1.52
36	BC	168	C	O4'-C1'	-5.18	1.34	1.41
37	BD	66	G	P-O5'	-5.18	1.54	1.59
40	BG	118	U	N3-C4	-5.18	1.33	1.38
85	AA	156	G	C3'-C2'	-5.18	1.47	1.52
85	AA	355	G	N9-C4	-5.18	1.33	1.38
85	AA	367	A	C1'-N9	-5.18	1.39	1.46
85	AA	753	U	O3'-P	-5.18	1.54	1.61
85	AA	1792	C	C3'-C2'	-5.18	1.47	1.52
85	AA	2203	C	C1'-N1	-5.18	1.39	1.46
34	BA	8	G	N1-C2	-5.18	1.33	1.37
34	BA	951	C	C1'-N1	-5.18	1.39	1.46
34	BA	1201	G	N9-C8	-5.18	1.34	1.37
34	BA	1534	U	C2'-C1'	-5.18	1.47	1.53
35	BB	576	A	N9-C8	-5.18	1.33	1.37
36	BC	47	C	C4-N4	-5.18	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	73	U	C3'-C2'	-5.18	1.47	1.52
85	AA	2054	G	O4'-C1'	-5.18	1.34	1.41
34	BA	1041	U	N1-C6	-5.18	1.33	1.38
34	BA	1424	G	O3'-P	-5.18	1.54	1.61
34	BA	1546	C	C4'-O4'	-5.18	1.38	1.45
35	BB	440	U	O3'-P	-5.18	1.54	1.61
35	BB	486	G	C5-C6	-5.18	1.37	1.42
35	BB	1264	U	C5'-C4'	-5.18	1.45	1.51
35	BB	1332	G	N9-C4	-5.18	1.33	1.38
36	BC	88	A	C5'-C4'	-5.18	1.45	1.51
38	BE	176	G	N1-C2	5.18	1.41	1.37
85	AA	81	A	N7-C5	-5.18	1.36	1.39
85	AA	94	C	C1'-N1	-5.18	1.39	1.46
85	AA	340	G	C6-N1	-5.18	1.35	1.39
85	AA	923	A	P-O5'	-5.18	1.54	1.59
85	AA	1227	A	N7-C5	-5.18	1.36	1.39
2	A1	190	GLY	CA-C	-5.18	1.43	1.51
34	BA	328	A	N9-C4	-5.18	1.34	1.37
34	BA	959	G	O3'-P	-5.18	1.54	1.61
34	BA	1086	A	N9-C4	5.18	1.41	1.37
34	BA	1322	A	C1'-N9	-5.18	1.39	1.46
34	BA	1545	C	N1-C6	-5.18	1.34	1.37
35	BB	380	G	C5-C4	-5.18	1.34	1.38
35	BB	600	C	C3'-C2'	-5.18	1.47	1.52
85	AA	425	G	P-O5'	-5.18	1.54	1.59
85	AA	480	U	C2-N3	-5.18	1.34	1.37
85	AA	1491	G	N7-C5	-5.18	1.36	1.39
34	BA	183	G	C8-N7	-5.18	1.27	1.30
34	BA	289	A	O3'-P	-5.18	1.54	1.61
34	BA	518	C	C4'-O4'	-5.18	1.38	1.45
34	BA	600	G	C5-C4	-5.18	1.34	1.38
34	BA	706	C	C1'-N1	-5.18	1.39	1.46
34	BA	1832	A	O5'-C5'	-5.18	1.34	1.42
35	BB	590	G	O3'-P	-5.18	1.54	1.61
35	BB	616	U	C1'-N1	-5.18	1.39	1.46
35	BB	1042	U	C2-N3	-5.18	1.34	1.37
36	BC	77	A	C3'-C2'	-5.18	1.47	1.52
37	BD	113	G	C2'-C1'	-5.18	1.47	1.53
85	AA	533	C	C1'-N1	-5.18	1.39	1.46
85	AA	638	G	N7-C5	-5.18	1.36	1.39
85	AA	749	C	N3-C4	-5.18	1.30	1.33
85	AA	867	G	C5-C6	-5.18	1.37	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	911	A	C6-N1	-5.18	1.31	1.35
85	AA	2128	G	N7-C5	-5.18	1.36	1.39
34	BA	310	C	C2'-C1'	-5.17	1.47	1.53
34	BA	924	U	C3'-C2'	-5.17	1.47	1.52
34	BA	952	G	C2'-C1'	-5.17	1.47	1.53
34	BA	1155	U	O3'-P	-5.17	1.54	1.61
34	BA	1401	C	C3'-C2'	-5.17	1.47	1.52
34	BA	1516	G	C1'-N9	-5.17	1.39	1.46
35	BB	371	C	C1'-N1	-5.17	1.39	1.46
36	BC	124	A	C2'-C1'	-5.17	1.47	1.53
38	BE	199	A	C3'-C2'	-5.17	1.47	1.52
40	BG	82	U	N3-C4	-5.17	1.33	1.38
40	BG	89	A	N7-C5	-5.17	1.36	1.39
85	AA	138	C	O3'-P	-5.17	1.54	1.61
85	AA	874	A	C2'-C1'	-5.17	1.47	1.53
85	AA	1128	G	N9-C4	5.17	1.42	1.38
85	AA	1526	G	O4'-C1'	-5.17	1.34	1.41
85	AA	1693	C	C2-N3	-5.17	1.31	1.35
85	AA	1808	G	O4'-C1'	-5.17	1.34	1.41
85	AA	2138	G	C8-N7	-5.17	1.27	1.30
85	AA	2153	G	C5-C6	-5.17	1.37	1.42
34	BA	430	A	C5-C4	-5.17	1.35	1.38
34	BA	1450	G	N7-C5	-5.17	1.36	1.39
34	BA	1573	C	C3'-C2'	-5.17	1.47	1.52
35	BB	140	U	C2'-C1'	-5.17	1.47	1.53
35	BB	640	A	N3-C4	-5.17	1.31	1.34
35	BB	993	A	C4'-C3'	-5.17	1.47	1.52
35	BB	1173	C	C4'-O4'	-5.17	1.38	1.45
40	BG	107	U	O3'-P	-5.17	1.54	1.61
85	AA	108	C	C4'-C3'	-5.17	1.47	1.52
85	AA	710	A	C4'-C3'	-5.17	1.47	1.52
85	AA	805	A	C3'-C2'	-5.17	1.47	1.52
34	BA	64	A	C5-C4	-5.17	1.35	1.38
34	BA	524	G	C5-C6	-5.17	1.37	1.42
34	BA	573	U	C4'-O4'	-5.17	1.38	1.45
34	BA	704	G	C5-C4	-5.17	1.34	1.38
34	BA	921	G	C5'-C4'	-5.17	1.45	1.51
34	BA	1456	C	C4-N4	-5.17	1.29	1.33
34	BA	1840	C	C4'-O4'	-5.17	1.38	1.45
35	BB	1136	G	C5-C4	-5.17	1.34	1.38
35	BB	1207	C	C3'-C2'	-5.17	1.47	1.52
35	BB	1395	G	C4'-C3'	-5.17	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	90	A	C5-C4	-5.17	1.35	1.38
41	BH	35	G	C6-N1	-5.17	1.35	1.39
85	AA	31	C	C4-N4	-5.17	1.29	1.33
85	AA	792	A	C6-N1	-5.17	1.31	1.35
85	AA	1253	G	O3'-P	-5.17	1.54	1.61
85	AA	1533	C	C2'-C1'	-5.17	1.47	1.53
85	AA	1934	A	C6-N6	-5.17	1.29	1.33
34	BA	14	G	P-O5'	-5.17	1.54	1.59
34	BA	24	C	C4-C5	-5.17	1.38	1.43
34	BA	129	U	C2-N3	-5.17	1.34	1.37
34	BA	720	A	C8-N7	-5.17	1.27	1.31
34	BA	1027	C	P-O5'	-5.17	1.54	1.59
34	BA	1145	U	C4'-C3'	-5.17	1.47	1.52
35	BB	438	G	C5-C4	-5.17	1.34	1.38
35	BB	827	U	C1'-N1	-5.17	1.39	1.46
35	BB	1379	U	O3'-P	-5.17	1.54	1.61
85	AA	410	A	C6-N1	-5.17	1.31	1.35
85	AA	1222	A	C5-C4	-5.17	1.35	1.38
34	BA	13	U	N3-C4	-5.17	1.33	1.38
34	BA	121	A	O3'-P	-5.17	1.54	1.61
34	BA	136	A	C1'-N9	-5.17	1.39	1.46
34	BA	315	U	C2-N3	-5.17	1.34	1.37
34	BA	325	A	C4'-C3'	-5.17	1.47	1.52
34	BA	374	U	N3-C4	-5.17	1.33	1.38
34	BA	678	C	N1-C2	5.17	1.45	1.40
34	BA	816	G	C2-N2	-5.17	1.29	1.34
34	BA	1180	A	N9-C4	-5.17	1.34	1.37
34	BA	1502	G	C6-N1	-5.17	1.35	1.39
34	BA	1554	C	C5'-C4'	-5.17	1.45	1.51
34	BA	1562	G	C3'-C2'	-5.17	1.47	1.52
35	BB	540	G	C8-N7	-5.17	1.27	1.30
35	BB	582	G	C2-N2	-5.17	1.29	1.34
35	BB	591	A	C8-N7	-5.17	1.27	1.31
35	BB	1029	U	N3-C4	-5.17	1.33	1.38
35	BB	1050	A	C3'-C2'	-5.17	1.47	1.52
35	BB	1176	G	N3-C4	-5.17	1.31	1.35
35	BB	1329	G	N9-C4	-5.17	1.33	1.38
41	BH	90	C	P-O5'	-5.17	1.54	1.59
85	AA	786	G	O3'-P	-5.17	1.54	1.61
85	AA	1919	G	C2-N2	-5.17	1.29	1.34
85	AA	2215	C	C2-N3	-5.17	1.31	1.35
34	BA	691	A	C8-N7	-5.17	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	733	G	P-O5'	-5.17	1.54	1.59
34	BA	1144	A	N1-C2	-5.17	1.29	1.34
34	BA	1554	C	C4'-O4'	-5.17	1.38	1.45
34	BA	1616	A	C4'-C3'	-5.17	1.47	1.52
34	BA	1701	U	N1-C6	-5.17	1.33	1.38
35	BB	649	A	N1-C2	-5.17	1.29	1.34
35	BB	1078	U	C2-N3	-5.17	1.34	1.37
35	BB	1362	G	N9-C4	-5.17	1.33	1.38
35	BB	1369	A	N7-C5	-5.17	1.36	1.39
36	BC	14	G	N7-C5	-5.17	1.36	1.39
36	BC	115	G	C2-N2	-5.17	1.29	1.34
37	BD	38	U	N1-C2	-5.17	1.33	1.38
38	BE	64	A	N9-C4	-5.17	1.34	1.37
41	BH	12	U	C2'-C1'	-5.17	1.47	1.53
85	AA	402	G	N3-C4	-5.17	1.31	1.35
85	AA	1689	G	N9-C8	-5.17	1.34	1.37
34	BA	922	C	C1'-N1	-5.17	1.39	1.46
34	BA	1612	C	C4-N4	-5.17	1.29	1.33
85	AA	397	G	N3-C4	-5.17	1.31	1.35
85	AA	429	G	C3'-C2'	-5.17	1.47	1.52
85	AA	522	A	C2'-C1'	-5.17	1.47	1.53
85	AA	958	C	C2'-C1'	-5.17	1.47	1.53
85	AA	1471	G	C2'-C1'	-5.17	1.47	1.53
34	BA	55	G	N9-C8	-5.16	1.34	1.37
34	BA	96	G	N3-C4	-5.16	1.31	1.35
34	BA	506	U	P-O5'	-5.16	1.54	1.59
34	BA	757	G	C5-C4	-5.16	1.34	1.38
34	BA	849	G	C5-C4	-5.16	1.34	1.38
34	BA	897	U	C2-N3	-5.16	1.34	1.37
34	BA	1479	G	C1'-N9	-5.16	1.39	1.46
34	BA	1547	G	O4'-C1'	-5.16	1.34	1.41
35	BB	537	A	C2'-C1'	-5.16	1.47	1.53
35	BB	991	C	C2'-C1'	-5.16	1.47	1.53
35	BB	1274	G	C5-C4	-5.16	1.34	1.38
35	BB	1426	G	O3'-P	-5.16	1.54	1.61
39	BF	63	U	C2-N3	-5.16	1.34	1.37
41	BH	15	A	N3-C4	-5.16	1.31	1.34
85	AA	313	A	C4'-C3'	-5.16	1.47	1.52
85	AA	352	G	N9-C8	-5.16	1.34	1.37
85	AA	407	G	C2-N2	-5.16	1.29	1.34
85	AA	1169	A	C1'-N9	-5.16	1.39	1.46
85	AA	1251	G	C5-C4	-5.16	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1441	G	C5'-C4'	-5.16	1.45	1.51
85	AA	1451	U	C4-O4	-5.16	1.19	1.23
85	AA	1475	A	O3'-P	-5.16	1.54	1.61
85	AA	2182	A	C5-C4	-5.16	1.35	1.38
1	A0	136	GLY	CA-C	-5.16	1.43	1.51
34	BA	327	G	C1'-N9	-5.16	1.39	1.46
35	BB	63	A	C2'-C1'	-5.16	1.47	1.53
85	AA	773	G	O3'-P	-5.16	1.54	1.61
85	AA	797	C	O3'-P	-5.16	1.54	1.61
85	AA	1251	G	C3'-C2'	-5.16	1.47	1.52
85	AA	2186	U	C4'-C3'	-5.16	1.47	1.52
34	BA	355	U	C1'-N1	-5.16	1.39	1.46
34	BA	407	A	N9-C4	-5.16	1.34	1.37
34	BA	410	G	C1'-N9	-5.16	1.39	1.46
34	BA	668	G	P-O5'	-5.16	1.54	1.59
34	BA	732	A	C1'-N9	-5.16	1.39	1.46
34	BA	871	G	C6-N1	-5.16	1.35	1.39
34	BA	925	G	C2-N3	-5.16	1.28	1.32
34	BA	1045	C	C1'-N1	-5.16	1.39	1.46
34	BA	1337	A	N9-C4	-5.16	1.34	1.37
34	BA	1668	C	C2-N3	-5.16	1.31	1.35
34	BA	1711	G	O4'-C1'	-5.16	1.34	1.41
35	BB	32	C	C1'-N1	-5.16	1.39	1.46
35	BB	855	G	C2'-C1'	-5.16	1.47	1.53
35	BB	1063	C	C3'-C2'	-5.16	1.47	1.52
35	BB	1438	U	C3'-C2'	-5.16	1.47	1.52
36	BC	87	C	C4'-C3'	-5.16	1.47	1.52
38	BE	28	C	C4-C5	-5.16	1.38	1.43
39	BF	63	U	N1-C2	-5.16	1.33	1.38
85	AA	10	G	C2-N2	-5.16	1.29	1.34
85	AA	362	G	C5-C4	-5.16	1.34	1.38
85	AA	493	A	N9-C4	-5.16	1.34	1.37
85	AA	1442	U	C2'-C1'	-5.16	1.47	1.53
85	AA	1728	G	C2'-C1'	-5.16	1.47	1.53
34	BA	20	A	C3'-C2'	-5.16	1.47	1.52
34	BA	59	A	C4'-C3'	-5.16	1.47	1.52
34	BA	785	G	N9-C4	-5.16	1.33	1.38
34	BA	852	C	N1-C6	-5.16	1.34	1.37
34	BA	855	C	C1'-N1	-5.16	1.39	1.46
34	BA	1040	G	N1-C2	-5.16	1.33	1.37
34	BA	1301	G	O4'-C1'	-5.16	1.34	1.41
35	BB	517	G	C2-N2	-5.16	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	894	A	C4'-C3'	5.16	1.58	1.53
35	BB	1291	G	C2-N2	-5.16	1.29	1.34
36	BC	37	U	N1-C6	-5.16	1.33	1.38
38	BE	50	G	C2'-C1'	-5.16	1.47	1.53
41	BH	77	G	C8-N7	5.16	1.34	1.30
41	BH	113	G	O4'-C1'	-5.16	1.34	1.41
82	Bw	66	TYR	CB-CG	-5.16	1.44	1.51
85	AA	457	G	N1-C2	-5.16	1.33	1.37
85	AA	532	G	O3'-P	-5.16	1.54	1.61
85	AA	591	A	N9-C8	-5.16	1.33	1.37
85	AA	1488	G	N9-C8	-5.16	1.34	1.37
85	AA	1589	G	O3'-P	-5.16	1.54	1.61
85	AA	1688	U	C3'-C2'	-5.16	1.47	1.52
85	AA	1856	G	O3'-P	-5.16	1.54	1.61
85	AA	2149	C	N1-C6	-5.16	1.34	1.37
85	AA	2194	U	N1-C6	-5.16	1.33	1.38
86	AB	21	A	C2'-C1'	-5.16	1.47	1.53
34	BA	61	G	C4'-C3'	-5.16	1.47	1.52
34	BA	291	C	C4-N4	-5.16	1.29	1.33
34	BA	1519	G	C3'-C2'	-5.16	1.47	1.52
35	BB	435	A	C5-C6	-5.16	1.36	1.41
35	BB	519	A	P-O5'	-5.16	1.54	1.59
35	BB	703	U	C3'-C2'	-5.16	1.47	1.52
35	BB	1115	G	C1'-N9	-5.16	1.39	1.46
35	BB	1396	G	C8-N7	-5.16	1.27	1.30
36	BC	53	A	N9-C8	-5.16	1.33	1.37
38	BE	6	A	O4'-C1'	-5.16	1.34	1.41
40	BG	71	C	C4-C5	-5.16	1.38	1.43
85	AA	472	A	C3'-C2'	-5.16	1.47	1.52
85	AA	1515	A	N7-C5	-5.16	1.36	1.39
85	AA	2015	U	O3'-P	-5.16	1.54	1.61
34	BA	405	C	C2'-C1'	-5.16	1.47	1.53
34	BA	461	A	C5-C6	-5.16	1.36	1.41
34	BA	849	G	C2'-C1'	-5.16	1.47	1.53
34	BA	932	G	N9-C8	-5.16	1.34	1.37
35	BB	582	G	C1'-N9	-5.16	1.39	1.46
35	BB	815	G	N9-C8	-5.16	1.34	1.37
35	BB	970	C	C3'-O3'	-5.16	1.34	1.42
35	BB	1098	G	C2-N2	-5.16	1.29	1.34
35	BB	1321	G	C4'-O4'	-5.16	1.38	1.45
35	BB	1505	U	C4'-C3'	-5.16	1.47	1.52
36	BC	11	G	N7-C5	-5.16	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	157	U	C5'-C4'	5.16	1.57	1.51
38	BE	8	G	O4'-C1'	5.16	1.48	1.41
38	BE	111	C	C1'-N1	5.16	1.56	1.48
39	BF	72	A	N3-C4	-5.16	1.31	1.34
40	BG	54	G	C4'-C3'	-5.16	1.47	1.52
40	BG	139	U	P-O5'	-5.16	1.54	1.59
41	BH	67	G	N9-C4	5.16	1.42	1.38
85	AA	37	U	C2-N3	-5.16	1.34	1.37
85	AA	404	A	C5-C4	-5.16	1.35	1.38
85	AA	442	G	N1-C2	-5.16	1.33	1.37
85	AA	1044	G	P-O5'	-5.16	1.54	1.59
85	AA	1206	A	C1'-N9	-5.16	1.39	1.46
85	AA	1481	U	C2'-C1'	-5.16	1.47	1.53
85	AA	1547	G	C5-C4	-5.16	1.34	1.38
85	AA	1640	G	P-O5'	-5.16	1.54	1.59
85	AA	1976	G	N1-C2	-5.16	1.33	1.37
34	BA	55	G	O3'-P	-5.15	1.54	1.61
34	BA	80	U	C3'-C2'	-5.15	1.47	1.52
34	BA	353	U	C1'-N1	-5.15	1.39	1.46
34	BA	697	A	C8-N7	-5.15	1.27	1.31
34	BA	1653	G	O4'-C1'	-5.15	1.34	1.41
38	BE	45	G	N1-C2	-5.15	1.33	1.37
64	Be	154	GLN	N-CA	-5.15	1.36	1.46
76	Bq	25	TYR	CB-CG	-5.15	1.44	1.51
85	AA	180	A	N7-C5	-5.15	1.36	1.39
85	AA	801	U	O3'-P	-5.15	1.54	1.61
34	BA	63	A	C5'-C4'	-5.15	1.45	1.51
34	BA	189	G	N9-C4	-5.15	1.33	1.38
34	BA	279	U	O3'-P	-5.15	1.54	1.61
34	BA	333	A	C4'-C3'	-5.15	1.47	1.52
34	BA	600	G	N9-C8	-5.15	1.34	1.37
34	BA	861	C	P-O5'	-5.15	1.54	1.59
34	BA	1250	C	C4-N4	-5.15	1.29	1.33
34	BA	1618	A	O3'-P	-5.15	1.54	1.61
34	BA	1671	A	N9-C8	-5.15	1.33	1.37
35	BB	41	A	N3-C4	-5.15	1.31	1.34
35	BB	562	A	N3-C4	-5.15	1.31	1.34
35	BB	769	C	C2'-C1'	-5.15	1.47	1.53
35	BB	810	G	C2-N2	-5.15	1.29	1.34
35	BB	1216	G	N9-C4	-5.15	1.33	1.38
36	BC	16	A	N3-C4	-5.15	1.31	1.34
36	BC	87	C	C1'-N1	-5.15	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	60	C	C5'-C4'	-5.15	1.45	1.51
40	BG	166	C	N1-C6	-5.15	1.34	1.37
66	Bg	54	VAL	CA-CB	-5.15	1.44	1.54
85	AA	302	C	C3'-O3'	5.15	1.49	1.42
85	AA	820	G	N7-C5	-5.15	1.36	1.39
85	AA	836	A	C2'-C1'	-5.15	1.47	1.53
85	AA	941	C	C4'-O4'	-5.15	1.38	1.45
85	AA	1293	U	N3-C4	-5.15	1.33	1.38
85	AA	1452	C	C2'-C1'	-5.15	1.47	1.53
85	AA	1913	G	C2'-C1'	-5.15	1.47	1.53
85	AA	2186	U	O4'-C1'	-5.15	1.34	1.41
34	BA	39	C	C4-C5	-5.15	1.38	1.43
34	BA	609	G	C1'-N9	-5.15	1.39	1.46
34	BA	1056	C	P-O5'	-5.15	1.54	1.59
34	BA	1385	U	O3'-P	-5.15	1.54	1.61
34	BA	1632	G	C5-C6	-5.15	1.37	1.42
35	BB	108	G	N7-C5	-5.15	1.36	1.39
35	BB	423	G	C3'-C2'	-5.15	1.47	1.52
35	BB	453	C	N1-C6	-5.15	1.34	1.37
35	BB	702	G	N9-C8	-5.15	1.34	1.37
35	BB	998	G	C6-N1	-5.15	1.35	1.39
35	BB	1287	U	C2'-C1'	-5.15	1.47	1.53
37	BD	8	A	C1'-N9	-5.15	1.39	1.46
40	BG	31	G	C4'-C3'	-5.15	1.47	1.52
40	BG	44	G	C3'-C2'	-5.15	1.47	1.52
40	BG	126	G	N1-C2	-5.15	1.33	1.37
85	AA	211	C	C2-N3	-5.15	1.31	1.35
85	AA	702	G	C2-N2	-5.15	1.29	1.34
85	AA	771	A	C2'-C1'	-5.15	1.47	1.53
85	AA	993	G	N3-C4	-5.15	1.31	1.35
85	AA	1018	G	C2-N2	-5.15	1.29	1.34
85	AA	1203	G	N3-C4	-5.15	1.31	1.35
1	A0	104	GLY	CA-C	-5.15	1.43	1.51
34	BA	162	G	C5'-C4'	5.15	1.57	1.51
34	BA	443	U	P-O5'	-5.15	1.54	1.59
34	BA	497	U	P-O5'	-5.15	1.54	1.59
40	BG	18	U	C2-N3	-5.15	1.34	1.37
34	BA	67	A	O4'-C1'	-5.15	1.34	1.41
34	BA	212	A	C2'-C1'	-5.15	1.47	1.53
34	BA	368	U	N1-C6	-5.15	1.33	1.38
34	BA	491	U	O4'-C1'	-5.15	1.34	1.41
34	BA	956	G	N9-C8	-5.15	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1015	G	C2-N2	-5.15	1.29	1.34
34	BA	1306	U	O3'-P	-5.15	1.54	1.61
34	BA	1558	C	C3'-C2'	-5.15	1.47	1.52
34	BA	1578	A	P-O5'	-5.15	1.54	1.59
35	BB	120	C	C2'-C1'	-5.15	1.47	1.53
35	BB	521	U	N3-C4	-5.15	1.33	1.38
35	BB	1114	A	O3'-P	-5.15	1.54	1.61
35	BB	1272	G	C5-C6	-5.15	1.37	1.42
35	BB	1427	A	N7-C5	-5.15	1.36	1.39
40	BG	17	A	N7-C5	-5.15	1.36	1.39
85	AA	13	U	C2'-C1'	-5.15	1.47	1.53
85	AA	15	U	O4'-C1'	-5.15	1.34	1.41
85	AA	525	C	C4'-C3'	-5.15	1.47	1.52
85	AA	1589	G	N1-C2	-5.15	1.33	1.37
85	AA	1644	G	C6-N1	-5.15	1.35	1.39
85	AA	1831	U	C2-N3	-5.15	1.34	1.37
85	AA	2109	G	N3-C4	-5.15	1.31	1.35
34	BA	227	C	C5'-C4'	-5.15	1.45	1.51
34	BA	859	G	N9-C8	-5.15	1.34	1.37
34	BA	1498	A	N9-C4	-5.15	1.34	1.37
34	BA	1731	A	N3-C4	-5.15	1.31	1.34
35	BB	42	A	C4'-O4'	-5.15	1.38	1.45
35	BB	534	C	O3'-P	-5.15	1.54	1.61
35	BB	1036	G	C5-C4	-5.15	1.34	1.38
35	BB	1168	G	C5-C4	-5.15	1.34	1.38
42	BI	140	GLY	CA-C	-5.15	1.43	1.51
85	AA	37	U	C3'-C2'	-5.15	1.47	1.52
85	AA	97	A	O3'-P	-5.15	1.54	1.61
85	AA	152	A	C5-C6	-5.15	1.36	1.41
85	AA	159	G	C2-N2	-5.15	1.29	1.34
85	AA	1219	A	N3-C4	-5.15	1.31	1.34
85	AA	1558	U	C1'-N1	-5.15	1.39	1.46
34	BA	99	G	C1'-N9	-5.14	1.39	1.46
34	BA	149	G	C2-N2	-5.14	1.29	1.34
34	BA	532	C	C1'-N1	-5.14	1.39	1.46
34	BA	1499	A	C3'-C2'	-5.14	1.47	1.52
35	BB	59	U	C4-O4	-5.14	1.19	1.23
35	BB	98	A	C3'-C2'	-5.14	1.47	1.52
35	BB	351	G	P-O5'	-5.14	1.54	1.59
35	BB	550	G	P-O5'	-5.14	1.54	1.59
35	BB	789	G	C4'-O4'	-5.14	1.38	1.45
35	BB	1016	C	C2-N3	-5.14	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1297	G	C3'-C2'	-5.14	1.47	1.52
39	BF	6	C	C4'-O4'	-5.14	1.38	1.45
39	BF	60	C	O3'-P	-5.14	1.54	1.61
40	BG	39	A	C8-N7	-5.14	1.27	1.31
41	BH	107	A	C8-N7	-5.14	1.27	1.31
85	AA	71	G	C2-N2	-5.14	1.29	1.34
85	AA	351	C	C1'-N1	-5.14	1.39	1.46
85	AA	403	G	C2-N2	-5.14	1.29	1.34
85	AA	491	G	N1-C2	-5.14	1.33	1.37
85	AA	989	U	N1-C2	-5.14	1.33	1.38
85	AA	1466	U	C4-C5	-5.14	1.39	1.43
85	AA	1520	A	O4'-C1'	-5.14	1.34	1.41
85	AA	1658	G	N9-C8	-5.14	1.34	1.37
85	AA	2127	G	N3-C4	-5.14	1.31	1.35
34	BA	354	G	N1-C2	-5.14	1.33	1.37
34	BA	376	U	C2'-C1'	-5.14	1.47	1.53
34	BA	421	G	C2-N2	-5.14	1.29	1.34
34	BA	1238	C	P-O5'	-5.14	1.54	1.59
34	BA	1452	U	C2'-C1'	-5.14	1.47	1.53
35	BB	52	G	N1-C2	-5.14	1.33	1.37
35	BB	1067	G	C3'-C2'	-5.14	1.47	1.52
35	BB	1296	A	C5-C6	-5.14	1.36	1.41
35	BB	1327	U	N1-C2	-5.14	1.33	1.38
35	BB	1409	G	C3'-C2'	-5.14	1.47	1.52
36	BC	92	C	C1'-N1	-5.14	1.39	1.46
38	BE	189	A	O3'-P	-5.14	1.54	1.61
38	BE	198	A	C4'-C3'	-5.14	1.47	1.52
40	BG	36	G	C2-N2	-5.14	1.29	1.34
85	AA	275	A	C1'-N9	-5.14	1.39	1.46
85	AA	395	G	C3'-C2'	-5.14	1.47	1.52
85	AA	1466	U	C5'-C4'	5.14	1.57	1.51
85	AA	1495	G	O5'-C5'	-5.14	1.34	1.42
85	AA	1706	A	O3'-P	-5.14	1.54	1.61
85	AA	1949	U	P-O5'	-5.14	1.54	1.59
85	AA	2095	U	N3-C4	-5.14	1.33	1.38
34	BA	260	A	N3-C4	-5.14	1.31	1.34
34	BA	414	A	O4'-C1'	-5.14	1.34	1.41
34	BA	886	G	C5-C4	-5.14	1.34	1.38
35	BB	42	A	C2'-C1'	-5.14	1.47	1.53
35	BB	549	U	P-O5'	-5.14	1.54	1.59
35	BB	957	A	C2'-C1'	-5.14	1.47	1.53
36	BC	38	U	N3-C4	-5.14	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	BD	112	U	O4'-C1'	-5.14	1.34	1.41
39	BF	35	C	C4'-C3'	-5.14	1.47	1.52
85	AA	1159	C	N1-C6	5.14	1.40	1.37
85	AA	2151	U	N3-C4	-5.14	1.33	1.38
34	BA	1507	C	C3'-C2'	-5.14	1.47	1.52
34	BA	1572	G	N1-C2	-5.14	1.33	1.37
34	BA	1688	G	C2'-C1'	-5.14	1.47	1.53
34	BA	1810	A	N9-C4	5.14	1.41	1.37
35	BB	95	A	C3'-C2'	-5.14	1.47	1.52
35	BB	570	A	C6-N1	-5.14	1.31	1.35
35	BB	860	U	P-O5'	-5.14	1.54	1.59
35	BB	861	C	P-O5'	-5.14	1.54	1.59
35	BB	1062	G	O4'-C1'	-5.14	1.34	1.41
35	BB	1206	G	C2'-C1'	-5.14	1.47	1.53
36	BC	68	A	P-O5'	-5.14	1.54	1.59
36	BC	160	C	C4'-C3'	-5.14	1.47	1.52
37	BD	104	C	C1'-N1	-5.14	1.39	1.46
40	BG	157	A	N3-C4	-5.14	1.31	1.34
85	AA	450	A	C5-C4	-5.14	1.35	1.38
85	AA	1522	U	C1'-N1	-5.14	1.39	1.46
85	AA	1808	G	P-O5'	-5.14	1.54	1.59
34	BA	110	C	N1-C6	-5.14	1.34	1.37
34	BA	541	C	C2-N3	-5.14	1.31	1.35
34	BA	774	A	C5'-C4'	-5.14	1.45	1.51
34	BA	982	A	O4'-C1'	-5.14	1.34	1.41
34	BA	1091	U	C1'-N1	-5.14	1.39	1.46
34	BA	1119	A	C6-N6	-5.14	1.29	1.33
34	BA	1531	G	C4'-C3'	-5.14	1.47	1.52
34	BA	1629	A	C3'-C2'	-5.14	1.47	1.52
34	BA	1723	U	O3'-P	-5.14	1.54	1.61
35	BB	24	C	O3'-P	-5.14	1.54	1.61
35	BB	602	G	C6-N1	-5.14	1.35	1.39
40	BG	1	G	C2-N2	-5.14	1.29	1.34
41	BH	33	G	C8-N7	-5.14	1.27	1.30
85	AA	1615	A	P-O5'	-5.14	1.54	1.59
34	BA	74	A	P-O5'	-5.14	1.54	1.59
34	BA	579	U	P-O5'	-5.14	1.54	1.59
34	BA	1077	G	C6-N1	-5.14	1.35	1.39
34	BA	1116	G	O3'-P	-5.14	1.54	1.61
34	BA	1482	A	C3'-C2'	-5.14	1.47	1.52
34	BA	1727	A	C2'-C1'	-5.14	1.47	1.53
34	BA	1790	U	C3'-C2'	-5.14	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	500	C	C4-C5	-5.14	1.38	1.43
35	BB	526	A	C2'-C1'	-5.14	1.47	1.53
35	BB	1132	A	C1'-N9	-5.14	1.39	1.46
36	BC	156	A	O3'-P	-5.14	1.54	1.61
40	BG	11	G	C5'-C4'	5.14	1.57	1.51
41	BH	111	U	N1-C2	-5.14	1.33	1.38
77	Br	284	SER	CA-C	-5.14	1.39	1.52
85	AA	436	G	C2-N3	-5.14	1.28	1.32
85	AA	1345	C	O3'-P	-5.14	1.54	1.61
34	BA	492	G	N1-C2	-5.13	1.33	1.37
34	BA	660	C	C2-N3	-5.13	1.31	1.35
34	BA	766	A	O3'-P	-5.13	1.54	1.61
34	BA	1158	A	N9-C8	-5.13	1.33	1.37
34	BA	1476	G	C2-N2	-5.13	1.29	1.34
34	BA	1691	G	C2-N2	-5.13	1.29	1.34
35	BB	1410	G	N9-C4	-5.13	1.33	1.38
38	BE	198	A	C8-N7	-5.13	1.27	1.31
40	BG	60	A	C2'-C1'	-5.13	1.47	1.53
85	AA	303	A	C4'-C3'	5.13	1.58	1.53
85	AA	312	G	C5-C4	-5.13	1.34	1.38
85	AA	2041	G	C1'-N9	-5.13	1.39	1.46
34	BA	135	G	C1'-N9	-5.13	1.39	1.46
34	BA	201	A	N7-C5	-5.13	1.36	1.39
34	BA	880	G	N7-C5	-5.13	1.36	1.39
34	BA	1235	C	C3'-C2'	-5.13	1.47	1.52
85	AA	601	A	C4'-C3'	-5.13	1.47	1.52
85	AA	1039	U	O3'-P	-5.13	1.54	1.61
34	BA	472	G	C2'-C1'	-5.13	1.47	1.53
34	BA	1226	G	C5'-C4'	-5.13	1.45	1.51
35	BB	47	C	P-O5'	-5.13	1.54	1.59
35	BB	134	G	O3'-P	-5.13	1.54	1.61
35	BB	639	A	C8-N7	-5.13	1.27	1.31
35	BB	664	A	C5-C4	-5.13	1.35	1.38
35	BB	741	A	O3'-P	-5.13	1.54	1.61
36	BC	68	A	C2'-C1'	-5.13	1.47	1.53
36	BC	160	C	O4'-C1'	-5.13	1.34	1.41
37	BD	118	C	C4'-C3'	-5.13	1.47	1.52
40	BG	55	A	C3'-C2'	-5.13	1.47	1.52
41	BH	34	G	O3'-P	-5.13	1.54	1.61
85	AA	16	G	N1-C2	-5.13	1.33	1.37
85	AA	419	A	C5-C6	-5.13	1.36	1.41
85	AA	480	U	C4'-O4'	-5.13	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	561	C	N3-C4	-5.13	1.30	1.33
85	AA	1140	G	N9-C8	-5.13	1.34	1.37
85	AA	1214	C	C4-C5	-5.13	1.38	1.43
85	AA	1532	G	C5-C4	-5.13	1.34	1.38
85	AA	1703	A	C5-C4	-5.13	1.35	1.38
85	AA	2237	G	C2'-C1'	-5.13	1.47	1.53
34	BA	447	U	N3-C4	-5.13	1.33	1.38
34	BA	1028	A	N7-C5	-5.13	1.36	1.39
34	BA	1710	C	O3'-P	-5.13	1.54	1.61
35	BB	499	A	C2'-C1'	-5.13	1.47	1.53
35	BB	571	C	P-O5'	-5.13	1.54	1.59
85	AA	435	A	N9-C8	-5.13	1.33	1.37
85	AA	1127	G	C4'-O4'	-5.13	1.38	1.45
85	AA	1177	G	N1-C2	-5.13	1.33	1.37
85	AA	1726	G	C3'-C2'	-5.13	1.47	1.52
86	AB	44	G	P-O5'	-5.13	1.54	1.59
34	BA	186	G	C2-N2	-5.13	1.29	1.34
34	BA	387	A	N9-C4	-5.13	1.34	1.37
34	BA	526	C	O3'-P	-5.13	1.54	1.61
34	BA	600	G	C2-N3	-5.13	1.28	1.32
34	BA	1088	G	C2-N2	-5.13	1.29	1.34
34	BA	1490	U	C5'-C4'	5.13	1.57	1.51
34	BA	1547	G	C4'-C3'	-5.13	1.47	1.52
34	BA	1614	G	N9-C8	-5.13	1.34	1.37
35	BB	40	C	C2'-C1'	-5.13	1.47	1.53
35	BB	438	G	N9-C4	-5.13	1.33	1.38
35	BB	689	C	C5'-C4'	-5.13	1.45	1.51
35	BB	1401	G	C5-C6	-5.13	1.37	1.42
39	BF	13	U	N3-C4	-5.13	1.33	1.38
39	BF	32	G	C8-N7	-5.13	1.27	1.30
40	BG	45	G	C2-N2	-5.13	1.29	1.34
85	AA	29	U	C1'-N1	-5.13	1.39	1.46
85	AA	111	A	C2'-C1'	-5.13	1.47	1.53
85	AA	487	G	O4'-C1'	-5.13	1.34	1.41
85	AA	1093	C	C2'-C1'	-5.13	1.47	1.53
85	AA	1189	A	O3'-P	-5.13	1.54	1.61
85	AA	1268	C	C1'-N1	-5.13	1.39	1.46
85	AA	1274	A	N9-C4	-5.13	1.34	1.37
85	AA	1593	C	N3-C4	-5.13	1.30	1.33
85	AA	2198	G	N9-C4	-5.13	1.33	1.38
31	AX	155	TYR	CB-CG	-5.13	1.44	1.51
34	BA	588	C	C4-N4	-5.13	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	656	U	P-O5'	-5.13	1.54	1.59
34	BA	1016	A	C6-N1	-5.13	1.31	1.35
34	BA	1581	G	N7-C5	-5.13	1.36	1.39
34	BA	1825	U	C2'-C1'	-5.13	1.47	1.53
35	BB	441	G	C2-N2	-5.13	1.29	1.34
35	BB	1397	G	C2-N2	-5.13	1.29	1.34
36	BC	97	U	C2'-C1'	-5.13	1.47	1.53
36	BC	162	C	C3'-C2'	-5.13	1.47	1.52
39	BF	61	A	C5'-C4'	5.13	1.57	1.51
40	BG	154	C	C1'-N1	-5.13	1.39	1.46
85	AA	324	U	P-O5'	-5.13	1.54	1.59
85	AA	792	A	C1'-N9	-5.13	1.39	1.46
85	AA	877	G	C2-N2	-5.13	1.29	1.34
85	AA	1260	G	N7-C5	-5.13	1.36	1.39
85	AA	1544	G	C2'-C1'	-5.13	1.47	1.53
34	BA	265	A	N9-C4	-5.12	1.34	1.37
34	BA	529	A	C6-N6	-5.12	1.29	1.33
35	BB	552	C	N1-C6	-5.12	1.34	1.37
35	BB	1024	G	C3'-O3'	5.12	1.49	1.42
35	BB	1337	C	C1'-N1	-5.12	1.39	1.46
35	BB	1343	C	C4-N4	-5.12	1.29	1.33
85	AA	615	A	C5'-C4'	5.12	1.57	1.51
85	AA	709	A	P-O5'	-5.12	1.54	1.59
85	AA	1243	G	C6-N1	-5.12	1.35	1.39
86	AB	5	G	C2-N2	-5.12	1.29	1.34
34	BA	854	A	C4'-O4'	-5.12	1.38	1.45
34	BA	876	C	C4'-O4'	-5.12	1.38	1.45
34	BA	1571	C	O3'-P	-5.12	1.55	1.61
34	BA	1812	C	P-O5'	-5.12	1.54	1.59
35	BB	528	G	C2'-C1'	-5.12	1.47	1.53
35	BB	1085	C	O3'-P	-5.12	1.55	1.61
35	BB	1105	G	C2-N2	-5.12	1.29	1.34
35	BB	1178	A	N9-C8	-5.12	1.33	1.37
37	BD	11	A	C5-C4	-5.12	1.35	1.38
84	By	184	ASN	CA-C	-5.12	1.39	1.52
85	AA	438	G	C2'-C1'	-5.12	1.47	1.53
85	AA	514	U	C2'-C1'	-5.12	1.47	1.53
85	AA	668	A	N7-C5	-5.12	1.36	1.39
85	AA	973	U	C4'-C3'	5.12	1.58	1.53
85	AA	1125	G	N7-C5	-5.12	1.36	1.39
85	AA	1220	A	N3-C4	-5.12	1.31	1.34
85	AA	1261	U	O3'-P	-5.12	1.55	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1540	A	C2'-C1'	-5.12	1.47	1.53
85	AA	2064	A	O3'-P	-5.12	1.55	1.61
85	AA	2239	A	N3-C4	-5.12	1.31	1.34
34	BA	363	G	C3'-C2'	-5.12	1.47	1.52
34	BA	388	A	C1'-N9	-5.12	1.39	1.46
34	BA	442	G	N9-C8	-5.12	1.34	1.37
34	BA	444	A	P-O5'	-5.12	1.54	1.59
34	BA	454	G	C2-N2	-5.12	1.29	1.34
34	BA	562	C	O3'-P	-5.12	1.55	1.61
35	BB	567	G	N7-C5	-5.12	1.36	1.39
35	BB	1403	G	C1'-N9	-5.12	1.39	1.46
35	BB	1413	U	C2-N3	-5.12	1.34	1.37
37	BD	89	G	N3-C4	-5.12	1.31	1.35
38	BE	33	C	N1-C6	-5.12	1.34	1.37
40	BG	106	G	C2-N2	-5.12	1.29	1.34
41	BH	121	A	C1'-N9	-5.12	1.39	1.46
85	AA	534	A	C2'-C1'	-5.12	1.47	1.53
85	AA	1419	U	P-O5'	-5.12	1.54	1.59
85	AA	1783	G	P-O5'	-5.12	1.54	1.59
85	AA	1785	U	C5'-C4'	5.12	1.57	1.51
85	AA	2125	A	C3'-C2'	-5.12	1.47	1.52
85	AA	2189	U	C4'-C3'	-5.12	1.47	1.52
34	BA	24	C	P-O5'	-5.12	1.54	1.59
34	BA	1603	A	C5-C6	-5.12	1.36	1.41
35	BB	1272	G	C2-N2	-5.12	1.29	1.34
39	BF	48	G	N1-C2	-5.12	1.33	1.37
85	AA	80	G	P-O5'	-5.12	1.54	1.59
85	AA	272	C	C4'-O4'	5.12	1.52	1.45
85	AA	810	C	C4-N4	-5.12	1.29	1.33
85	AA	1547	G	C6-N1	-5.12	1.35	1.39
34	BA	294	C	C4'-C3'	-5.12	1.47	1.52
34	BA	354	G	C5-C4	-5.12	1.34	1.38
34	BA	696	A	P-O5'	-5.12	1.54	1.59
34	BA	803	U	C2'-C1'	-5.12	1.47	1.53
34	BA	920	U	N1-C6	-5.12	1.33	1.38
34	BA	1030	C	C1'-N1	-5.12	1.39	1.46
34	BA	1077	G	C5-C6	-5.12	1.37	1.42
34	BA	1282	G	C2-N2	-5.12	1.29	1.34
34	BA	1550	G	N9-C8	-5.12	1.34	1.37
35	BB	95	A	C5-C6	-5.12	1.36	1.41
35	BB	593	A	C2'-C1'	-5.12	1.47	1.53
35	BB	661	G	C5-C4	-5.12	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1267	C	N1-C2	-5.12	1.35	1.40
35	BB	1455	A	C5-C6	-5.12	1.36	1.41
36	BC	143	C	C2'-C1'	-5.12	1.47	1.53
37	BD	108	G	N3-C4	-5.12	1.31	1.35
40	BG	18	U	C4'-C3'	-5.12	1.47	1.52
85	AA	23	G	P-O5'	-5.12	1.54	1.59
85	AA	1131	A	N7-C5	-5.12	1.36	1.39
85	AA	1563	U	C3'-C2'	-5.12	1.47	1.52
85	AA	1859	C	C4'-O4'	-5.12	1.38	1.45
34	BA	726	G	C1'-N9	-5.12	1.39	1.46
34	BA	1063	G	C5-C4	-5.12	1.34	1.38
34	BA	1139	G	C3'-C2'	-5.12	1.47	1.52
34	BA	1633	C	P-O5'	-5.12	1.54	1.59
35	BB	1423	U	N1-C2	-5.12	1.33	1.38
36	BC	96	A	O4'-C1'	-5.12	1.34	1.41
36	BC	121	G	C5-C4	-5.12	1.34	1.38
38	BE	179	A	P-O5'	-5.12	1.54	1.59
85	AA	229	U	P-O5'	-5.12	1.54	1.59
85	AA	735	G	O3'-P	-5.12	1.55	1.61
85	AA	1293	U	C2'-C1'	-5.12	1.47	1.53
34	BA	237	A	O3'-P	-5.12	1.55	1.61
34	BA	1326	U	C5'-C4'	5.12	1.57	1.51
34	BA	1500	G	N1-C2	-5.12	1.33	1.37
34	BA	1644	A	C4'-C3'	-5.12	1.47	1.52
34	BA	1676	A	N9-C8	-5.12	1.33	1.37
35	BB	697	G	C3'-C2'	-5.12	1.47	1.52
35	BB	1172	U	C2-N3	-5.12	1.34	1.37
35	BB	1175	A	C2'-C1'	-5.12	1.47	1.53
35	BB	1234	G	N1-C2	-5.12	1.33	1.37
38	BE	49	A	C4'-C3'	-5.12	1.47	1.52
41	BH	44	A	C3'-C2'	-5.12	1.47	1.52
41	BH	134	U	P-O5'	-5.12	1.54	1.59
65	Bf	416	PHE	CB-CG	-5.12	1.42	1.51
85	AA	114	C	C2-N3	-5.12	1.31	1.35
85	AA	1047	G	P-O5'	-5.12	1.54	1.59
34	BA	205	G	N9-C8	-5.11	1.34	1.37
34	BA	462	C	C5'-C4'	-5.11	1.45	1.51
34	BA	714	G	N1-C2	-5.11	1.33	1.37
34	BA	928	C	O4'-C1'	-5.11	1.35	1.41
34	BA	1537	G	N3-C4	-5.11	1.31	1.35
35	BB	116	G	C5-C6	-5.11	1.37	1.42
35	BB	390	G	C2-N2	-5.11	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	402	G	N3-C4	-5.11	1.31	1.35
35	BB	1061	G	N7-C5	-5.11	1.36	1.39
38	BE	180	G	O4'-C1'	-5.11	1.35	1.41
40	BG	69	G	C3'-C2'	-5.11	1.47	1.52
40	BG	105	A	N3-C4	-5.11	1.31	1.34
85	AA	158	C	C2-N3	-5.11	1.31	1.35
85	AA	351	C	C2-N3	-5.11	1.31	1.35
85	AA	358	U	C4-C5	-5.11	1.39	1.43
85	AA	463	G	O4'-C1'	-5.11	1.35	1.41
85	AA	934	A	N9-C4	-5.11	1.34	1.37
85	AA	1285	C	O3'-P	-5.11	1.55	1.61
85	AA	1473	U	N1-C2	-5.11	1.33	1.38
34	BA	465	A	N9-C8	-5.11	1.33	1.37
34	BA	998	U	C4'-O4'	-5.11	1.39	1.45
34	BA	1001	G	C5-C6	-5.11	1.37	1.42
34	BA	1411	C	N1-C6	-5.11	1.34	1.37
34	BA	1836	A	P-O5'	-5.11	1.54	1.59
35	BB	778	A	C8-N7	-5.11	1.27	1.31
35	BB	1423	U	C4'-C3'	-5.11	1.47	1.52
36	BC	16	A	P-O5'	-5.11	1.54	1.59
37	BD	114	U	O3'-P	-5.11	1.55	1.61
40	BG	35	G	O4'-C1'	-5.11	1.35	1.41
85	AA	1597	C	C4'-C3'	5.11	1.58	1.53
85	AA	1991	C	C4'-C3'	-5.11	1.47	1.52
6	A5	39	GLY	C-N	-5.11	1.24	1.34
34	BA	197	A	C3'-O3'	5.11	1.49	1.42
34	BA	222	C	N1-C6	-5.11	1.34	1.37
34	BA	886	G	C1'-N9	-5.11	1.39	1.46
34	BA	1170	A	C3'-C2'	-5.11	1.47	1.52
34	BA	1470	G	C6-N1	-5.11	1.35	1.39
34	BA	1609	U	C4'-C3'	-5.11	1.47	1.52
34	BA	1658	G	C5-C4	-5.11	1.34	1.38
35	BB	58	G	C5-C6	-5.11	1.37	1.42
35	BB	108	G	C3'-C2'	-5.11	1.47	1.52
35	BB	592	G	C2-N2	-5.11	1.29	1.34
35	BB	1250	A	N1-C2	-5.11	1.29	1.34
35	BB	1274	G	C2-N2	-5.11	1.29	1.34
35	BB	1432	U	C1'-N1	-5.11	1.39	1.46
35	BB	1531	G	C5-C4	-5.11	1.34	1.38
37	BD	52	U	C4'-C3'	-5.11	1.47	1.52
41	BH	39	G	N1-C2	-5.11	1.33	1.37
78	Bs	35	ARG	CD-NE	5.11	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	84	C	N1-C6	-5.11	1.34	1.37
85	AA	128	U	P-O5'	-5.11	1.54	1.59
85	AA	535	G	C1'-N9	-5.11	1.39	1.46
85	AA	1575	G	N7-C5	-5.11	1.36	1.39
85	AA	1638	C	C4'-C3'	-5.11	1.47	1.52
85	AA	1674	G	C3'-C2'	-5.11	1.47	1.52
85	AA	1694	C	C2-N3	-5.11	1.31	1.35
85	AA	1697	C	P-O5'	-5.11	1.54	1.59
34	BA	1541	G	O3'-P	-5.11	1.55	1.61
34	BA	1784	G	C1'-N9	-5.11	1.39	1.46
35	BB	338	C	P-O5'	-5.11	1.54	1.59
35	BB	451	A	N9-C8	-5.11	1.33	1.37
35	BB	876	G	P-O5'	-5.11	1.54	1.59
35	BB	1202	G	C2-N3	5.11	1.36	1.32
36	BC	77	A	N3-C4	-5.11	1.31	1.34
40	BG	138	C	N1-C6	-5.11	1.34	1.37
40	BG	176	G	C4'-C3'	-5.11	1.47	1.52
40	BG	178	G	C4'-O4'	-5.11	1.39	1.45
41	BH	132	C	N1-C6	-5.11	1.34	1.37
85	AA	992	G	C2'-C1'	-5.11	1.47	1.53
85	AA	1892	G	C3'-C2'	-5.11	1.47	1.52
85	AA	2150	G	C2-N3	-5.11	1.28	1.32
34	BA	34	U	P-O5'	-5.11	1.54	1.59
34	BA	125	G	C6-O6	-5.11	1.19	1.24
34	BA	292	C	C1'-N1	-5.11	1.39	1.46
34	BA	665	C	C3'-C2'	-5.11	1.47	1.52
34	BA	903	C	C1'-N1	-5.11	1.39	1.46
34	BA	1527	G	N9-C8	-5.11	1.34	1.37
34	BA	1594	G	C2-N2	-5.11	1.29	1.34
35	BB	592	G	C3'-C2'	-5.11	1.47	1.52
35	BB	1250	A	C6-N1	-5.11	1.31	1.35
35	BB	1282	G	C2-N2	-5.11	1.29	1.34
36	BC	36	G	C3'-C2'	-5.11	1.47	1.52
36	BC	62	A	C8-N7	-5.11	1.27	1.31
37	BD	46	G	N7-C5	-5.11	1.36	1.39
38	BE	97	G	C2-N3	-5.11	1.28	1.32
40	BG	72	G	N7-C5	-5.11	1.36	1.39
40	BG	158	A	C5-C4	-5.11	1.35	1.38
41	BH	102	C	C2'-C1'	-5.11	1.47	1.53
41	BH	108	U	C3'-O3'	-5.11	1.34	1.42
85	AA	165	C	C2'-C1'	-5.11	1.47	1.53
85	AA	424	A	C8-N7	-5.11	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	668	A	P-O5'	-5.11	1.54	1.59
85	AA	975	G	C6-N1	-5.11	1.35	1.39
85	AA	1660	U	C1'-N1	-5.11	1.39	1.46
85	AA	1805	A	O3'-P	-5.11	1.55	1.61
85	AA	1830	U	C3'-C2'	-5.11	1.47	1.52
85	AA	1994	G	C2'-C1'	-5.11	1.47	1.53
85	AA	2080	U	N3-C4	-5.11	1.33	1.38
85	AA	2090	C	C2'-C1'	-5.11	1.47	1.53
85	AA	2216	A	O4'-C1'	-5.11	1.35	1.41
34	BA	52	G	C5-C6	-5.11	1.37	1.42
34	BA	280	A	C5-C4	-5.11	1.35	1.38
34	BA	389	U	C3'-C2'	-5.11	1.47	1.52
34	BA	401	A	N7-C5	-5.11	1.36	1.39
34	BA	667	U	N1-C2	-5.11	1.33	1.38
34	BA	936	A	C2'-C1'	-5.11	1.47	1.53
34	BA	1007	G	C3'-C2'	-5.11	1.47	1.52
34	BA	1052	G	N9-C8	-5.11	1.34	1.37
34	BA	1195	G	N1-C2	-5.11	1.33	1.37
34	BA	1577	U	C5'-C4'	-5.11	1.45	1.51
35	BB	359	A	N3-C4	-5.11	1.31	1.34
35	BB	382	U	N3-C4	-5.11	1.33	1.38
35	BB	453	C	C1'-N1	-5.11	1.39	1.46
35	BB	634	A	N7-C5	-5.11	1.36	1.39
35	BB	1071	G	C6-N1	-5.11	1.35	1.39
35	BB	1501	U	O3'-P	-5.11	1.55	1.61
36	BC	22	U	O3'-P	-5.11	1.55	1.61
37	BD	41	G	C5-C4	-5.11	1.34	1.38
38	BE	124	G	C5-C6	-5.11	1.37	1.42
40	BG	64	C	O3'-P	-5.11	1.55	1.61
40	BG	108	G	C5-C4	-5.11	1.34	1.38
41	BH	133	U	C2'-C1'	-5.11	1.47	1.53
85	AA	323	U	O3'-P	-5.11	1.55	1.61
85	AA	930	G	C4'-C3'	-5.11	1.47	1.52
85	AA	1155	A	O4'-C1'	-5.11	1.35	1.41
85	AA	1204	A	N3-C4	-5.11	1.31	1.34
85	AA	1239	C	C2'-C1'	-5.11	1.47	1.53
85	AA	1506	U	C4'-C3'	-5.11	1.47	1.52
85	AA	1638	C	P-O5'	-5.11	1.54	1.59
85	AA	1649	U	C2-N3	-5.11	1.34	1.37
85	AA	1654	G	C3'-C2'	-5.11	1.47	1.52
35	BB	502	C	N1-C6	-5.10	1.34	1.37
35	BB	1119	G	N1-C2	-5.10	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1427	A	N3-C4	-5.10	1.31	1.34
40	BG	163	G	C4'-O4'	-5.10	1.39	1.45
85	AA	66	U	C2'-C1'	-5.10	1.47	1.53
85	AA	1929	G	O4'-C1'	-5.10	1.35	1.41
34	BA	19	G	O4'-C1'	-5.10	1.35	1.41
34	BA	73	G	N1-C2	-5.10	1.33	1.37
34	BA	516	U	O3'-P	-5.10	1.55	1.61
34	BA	758	G	C8-N7	-5.10	1.27	1.30
34	BA	1223	C	C5'-C4'	-5.10	1.45	1.51
34	BA	1253	G	N1-C2	-5.10	1.33	1.37
35	BB	43	G	C3'-C2'	-5.10	1.47	1.52
35	BB	275	A	P-O5'	-5.10	1.54	1.59
35	BB	304	U	P-O5'	-5.10	1.54	1.59
35	BB	716	G	O3'-P	-5.10	1.55	1.61
35	BB	978	C	O3'-P	-5.10	1.55	1.61
36	BC	14	G	N3-C4	-5.10	1.31	1.35
39	BF	47	C	C4-N4	-5.10	1.29	1.33
85	AA	189	G	C2'-C1'	-5.10	1.47	1.53
85	AA	405	C	C2-N3	-5.10	1.31	1.35
85	AA	635	G	C5'-C4'	-5.10	1.45	1.51
85	AA	940	G	N7-C5	-5.10	1.36	1.39
85	AA	1666	U	C2'-C1'	-5.10	1.47	1.53
85	AA	2188	C	N1-C6	-5.10	1.34	1.37
86	AB	9	A	O4'-C1'	-5.10	1.35	1.41
34	BA	921	G	C3'-C2'	-5.10	1.47	1.52
35	BB	60	A	P-O5'	-5.10	1.54	1.59
85	AA	463	G	C5'-C4'	-5.10	1.45	1.51
85	AA	2150	G	C3'-C2'	-5.10	1.47	1.52
85	AA	2218	G	C5-C6	-5.10	1.37	1.42
34	BA	297	A	C8-N7	-5.10	1.27	1.31
34	BA	470	C	O3'-P	-5.10	1.55	1.61
34	BA	528	C	N1-C6	-5.10	1.34	1.37
34	BA	593	G	N3-C4	-5.10	1.31	1.35
34	BA	1117	G	C6-N1	-5.10	1.35	1.39
34	BA	1254	C	C3'-C2'	-5.10	1.47	1.52
34	BA	1337	A	C5-C4	-5.10	1.35	1.38
34	BA	1450	G	C1'-N9	-5.10	1.39	1.46
34	BA	1538	G	C2-N2	-5.10	1.29	1.34
35	BB	66	G	P-O5'	-5.10	1.54	1.59
35	BB	697	G	C2-N2	-5.10	1.29	1.34
36	BC	133	C	C3'-C2'	-5.10	1.47	1.52
36	BC	168	C	N1-C2	-5.10	1.35	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	172	C	C4'-O4'	-5.10	1.39	1.45
85	AA	355	G	C2'-C1'	-5.10	1.47	1.53
85	AA	666	A	C5-C4	-5.10	1.35	1.38
85	AA	697	G	C1'-N9	-5.10	1.39	1.46
85	AA	1454	U	O3'-P	-5.10	1.55	1.61
85	AA	1677	A	N3-C4	-5.10	1.31	1.34
34	BA	340	U	C1'-N1	-5.10	1.39	1.46
34	BA	528	C	C4-C5	-5.10	1.38	1.43
34	BA	850	C	N1-C6	-5.10	1.34	1.37
34	BA	900	A	C3'-C2'	-5.10	1.47	1.52
34	BA	969	A	C3'-C2'	-5.10	1.47	1.52
34	BA	1059	U	C2-N3	-5.10	1.34	1.37
34	BA	1410	C	C3'-C2'	-5.10	1.47	1.52
34	BA	1472	G	N9-C8	-5.10	1.34	1.37
34	BA	1545	C	C1'-N1	-5.10	1.39	1.46
34	BA	1561	C	C2-N3	-5.10	1.31	1.35
35	BB	9	G	N1-C2	-5.10	1.33	1.37
35	BB	535	U	N1-C6	-5.10	1.33	1.38
35	BB	580	A	C1'-N9	-5.10	1.39	1.46
35	BB	793	A	C2'-C1'	-5.10	1.47	1.53
35	BB	1146	C	C4-N4	-5.10	1.29	1.33
35	BB	1308	G	N7-C5	-5.10	1.36	1.39
35	BB	1424	G	C4'-O4'	-5.10	1.39	1.45
35	BB	1476	C	C3'-C2'	-5.10	1.47	1.52
36	BC	20	C	C2'-C1'	-5.10	1.47	1.53
36	BC	44	A	C3'-C2'	-5.10	1.47	1.52
38	BE	125	C	O3'-P	-5.10	1.55	1.61
39	BF	17	U	C1'-N1	-5.10	1.39	1.46
40	BG	174	G	O4'-C1'	-5.10	1.35	1.41
85	AA	131	C	C4'-C3'	-5.10	1.47	1.52
85	AA	640	C	C5'-C4'	-5.10	1.45	1.51
85	AA	903	G	N9-C8	-5.10	1.34	1.37
85	AA	1244	A	C3'-C2'	-5.10	1.47	1.52
85	AA	1263	G	C2-N2	-5.10	1.29	1.34
85	AA	2059	A	C2'-C1'	-5.10	1.47	1.53
34	BA	64	A	O3'-P	-5.10	1.55	1.61
34	BA	92	G	C6-N1	-5.10	1.35	1.39
34	BA	96	G	C6-N1	-5.10	1.35	1.39
34	BA	697	A	N9-C8	-5.10	1.33	1.37
34	BA	1139	G	C4'-O4'	-5.10	1.39	1.45
35	BB	61	A	C3'-O3'	-5.10	1.35	1.42
35	BB	1362	G	C5-C6	-5.10	1.37	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	482	C	C4-C5	-5.10	1.38	1.43
85	AA	575	G	N7-C5	-5.10	1.36	1.39
34	BA	542	A	C3'-C2'	-5.09	1.47	1.52
34	BA	743	A	C1'-N9	-5.09	1.39	1.46
34	BA	785	G	C3'-C2'	-5.09	1.47	1.52
34	BA	792	A	C2'-C1'	-5.09	1.47	1.53
34	BA	877	U	O3'-P	-5.09	1.55	1.61
34	BA	1841	A	C3'-C2'	-5.09	1.47	1.52
35	BB	680	A	N9-C8	-5.09	1.33	1.37
35	BB	1210	U	C1'-N1	-5.09	1.39	1.46
36	BC	4	G	O4'-C1'	-5.09	1.35	1.41
38	BE	85	G	O4'-C1'	-5.09	1.35	1.41
38	BE	184	G	C6-N1	-5.09	1.35	1.39
85	AA	451	G	C2'-C1'	-5.09	1.47	1.53
85	AA	560	C	O3'-P	-5.09	1.55	1.61
85	AA	600	C	C5'-C4'	5.09	1.57	1.51
85	AA	654	A	C1'-N9	-5.09	1.39	1.46
85	AA	993	G	N9-C4	-5.09	1.33	1.38
85	AA	1370	G	C6-N1	-5.09	1.35	1.39
85	AA	1732	G	O3'-P	-5.09	1.55	1.61
34	BA	278	U	C2-N3	-5.09	1.34	1.37
34	BA	473	A	N7-C5	-5.09	1.36	1.39
34	BA	1064	A	N9-C8	-5.09	1.33	1.37
34	BA	1482	A	N9-C8	-5.09	1.33	1.37
34	BA	1799	G	C5-C4	-5.09	1.34	1.38
35	BB	470	C	C2'-C1'	-5.09	1.47	1.53
35	BB	486	G	C2'-C1'	-5.09	1.47	1.53
35	BB	1082	A	N3-C4	-5.09	1.31	1.34
36	BC	166	G	N3-C4	-5.09	1.31	1.35
40	BG	136	G	C6-N1	-5.09	1.35	1.39
85	AA	2208	G	C2-N2	-5.09	1.29	1.34
34	BA	267	G	C2'-C1'	-5.09	1.47	1.53
34	BA	677	U	O3'-P	-5.09	1.55	1.61
34	BA	1220	C	O4'-C1'	-5.09	1.35	1.41
34	BA	1340	G	C2-N2	-5.09	1.29	1.34
34	BA	1609	U	C2'-C1'	-5.09	1.47	1.53
34	BA	1674	G	P-O5'	-5.09	1.54	1.59
34	BA	1738	G	P-O5'	-5.09	1.54	1.59
35	BB	121	A	C8-N7	-5.09	1.27	1.31
35	BB	398	A	C6-N1	-5.09	1.31	1.35
35	BB	776	U	C3'-C2'	-5.09	1.47	1.52
35	BB	790	A	C5-C6	-5.09	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	873	C	C3'-C2'	-5.09	1.47	1.52
35	BB	1151	A	C1'-N9	-5.09	1.39	1.46
35	BB	1242	C	C1'-N1	-5.09	1.39	1.46
35	BB	1455	A	C8-N7	-5.09	1.27	1.31
35	BB	1539	C	C1'-N1	-5.09	1.39	1.46
36	BC	84	U	O3'-P	-5.09	1.55	1.61
37	BD	106	G	C3'-C2'	-5.09	1.47	1.52
41	BH	113	G	P-O5'	-5.09	1.54	1.59
85	AA	112	A	C4'-O4'	-5.09	1.39	1.45
85	AA	256	A	C5-C4	-5.09	1.35	1.38
85	AA	717	G	C2'-C1'	-5.09	1.47	1.53
85	AA	738	C	C3'-C2'	5.09	1.58	1.52
85	AA	1447	U	N3-C4	-5.09	1.33	1.38
85	AA	1716	U	C2-N3	-5.09	1.34	1.37
85	AA	2192	A	N9-C4	-5.09	1.34	1.37
34	BA	425	G	C5-C4	-5.09	1.34	1.38
34	BA	528	C	C3'-C2'	-5.09	1.47	1.52
34	BA	906	A	C2'-C1'	-5.09	1.47	1.53
34	BA	1122	G	C5-C6	-5.09	1.37	1.42
34	BA	1581	G	N1-C2	-5.09	1.33	1.37
34	BA	1596	C	N3-C4	-5.09	1.30	1.33
35	BB	643	G	C1'-N9	-5.09	1.39	1.46
35	BB	806	U	P-O5'	-5.09	1.54	1.59
35	BB	988	G	C2-N2	-5.09	1.29	1.34
35	BB	1206	G	O3'-P	-5.09	1.55	1.61
35	BB	1523	U	C3'-C2'	-5.09	1.47	1.52
36	BC	2	A	C8-N7	-5.09	1.27	1.31
36	BC	63	G	C2-N2	-5.09	1.29	1.34
38	BE	147	G	C4'-C3'	-5.09	1.47	1.52
40	BG	56	G	P-O5'	-5.09	1.54	1.59
40	BG	139	U	C4-O4	-5.09	1.19	1.23
85	AA	72	C	O3'-P	-5.09	1.55	1.61
85	AA	365	G	O3'-P	-5.09	1.55	1.61
85	AA	482	C	C2'-C1'	-5.09	1.47	1.53
85	AA	544	A	C5-C4	-5.09	1.35	1.38
85	AA	1252	A	P-O5'	-5.09	1.54	1.59
34	BA	979	G	C2-N3	-5.09	1.28	1.32
34	BA	1011	G	C2'-C1'	-5.09	1.47	1.53
34	BA	1677	C	C2'-C1'	-5.09	1.47	1.53
35	BB	489	A	O3'-P	-5.09	1.55	1.61
35	BB	793	A	C5-C4	-5.09	1.35	1.38
35	BB	1175	A	C1'-N9	-5.09	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1266	A	N9-C4	-5.09	1.34	1.37
35	BB	1396	G	C5-C6	-5.09	1.37	1.42
85	AA	89	C	N1-C6	-5.09	1.34	1.37
85	AA	1106	A	C4'-O4'	-5.09	1.39	1.45
86	AB	45	U	C2'-C1'	-5.09	1.47	1.53
34	BA	45	A	C3'-C2'	-5.09	1.47	1.52
34	BA	139	U	C5'-C4'	5.09	1.57	1.51
34	BA	306	G	N1-C2	-5.09	1.33	1.37
34	BA	381	A	C8-N7	-5.09	1.27	1.31
34	BA	429	G	C2-N2	-5.09	1.29	1.34
34	BA	1109	G	C2-N2	-5.09	1.29	1.34
34	BA	1488	C	C2'-C1'	-5.09	1.47	1.53
34	BA	1493	U	P-O5'	5.09	1.64	1.59
34	BA	1699	A	C6-N1	-5.09	1.31	1.35
37	BD	3	G	C6-N1	-5.09	1.35	1.39
37	BD	28	C	C3'-C2'	-5.09	1.47	1.52
85	AA	734	C	O3'-P	-5.09	1.55	1.61
85	AA	880	A	C5-C4	-5.09	1.35	1.38
85	AA	907	G	P-O5'	-5.09	1.54	1.59
85	AA	2145	G	C5-C6	-5.09	1.37	1.42
34	BA	1278	A	C5'-C4'	-5.08	1.45	1.51
35	BB	641	C	O3'-P	-5.08	1.55	1.61
35	BB	1259	A	N9-C8	-5.08	1.33	1.37
38	BE	59	U	C5'-C4'	-5.08	1.45	1.51
85	AA	374	C	C4'-C3'	-5.08	1.47	1.52
85	AA	378	A	N1-C2	-5.08	1.29	1.34
85	AA	879	G	C2-N2	-5.08	1.29	1.34
85	AA	1503	G	C6-N1	-5.08	1.35	1.39
34	BA	79	C	N3-C4	-5.08	1.30	1.33
34	BA	397	A	C5-C4	-5.08	1.35	1.38
34	BA	977	G	C3'-C2'	-5.08	1.47	1.52
35	BB	42	A	C5-C4	-5.08	1.35	1.38
35	BB	498	G	C1'-N9	-5.08	1.39	1.46
35	BB	540	G	N9-C8	-5.08	1.34	1.37
35	BB	1009	U	O3'-P	-5.08	1.55	1.61
35	BB	1272	G	C3'-C2'	-5.08	1.47	1.52
35	BB	1490	G	C4'-O4'	5.08	1.52	1.45
37	BD	18	G	C6-N1	-5.08	1.35	1.39
40	BG	153	C	C4'-C3'	-5.08	1.47	1.52
41	BH	25	A	P-O5'	-5.08	1.54	1.59
85	AA	162	A	N9-C8	-5.08	1.33	1.37
85	AA	277	G	C6-N1	-5.08	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1110	A	N1-C2	-5.08	1.29	1.34
85	AA	1982	C	P-O5'	-5.08	1.54	1.59
85	AA	2004	U	C4'-C3'	-5.08	1.47	1.52
85	AA	2012	G	C2-N2	-5.08	1.29	1.34
85	AA	2037	A	C3'-C2'	-5.08	1.47	1.52
34	BA	188	C	C2'-C1'	-5.08	1.47	1.53
34	BA	417	A	C3'-C2'	-5.08	1.47	1.52
34	BA	684	G	O5'-C5'	5.08	1.52	1.44
34	BA	1240	G	C5-C4	-5.08	1.34	1.38
34	BA	1493	U	C1'-N1	5.08	1.56	1.48
34	BA	1566	G	N3-C4	-5.08	1.31	1.35
34	BA	1691	G	O3'-P	-5.08	1.55	1.61
34	BA	1833	G	C4'-C3'	-5.08	1.47	1.52
35	BB	854	G	C2'-C1'	-5.08	1.47	1.53
35	BB	1310	C	C4-N4	-5.08	1.29	1.33
35	BB	1315	C	C3'-C2'	-5.08	1.47	1.52
35	BB	1376	G	N9-C4	-5.08	1.33	1.38
36	BC	18	G	N9-C8	-5.08	1.34	1.37
36	BC	20	C	O4'-C1'	-5.08	1.35	1.41
37	BD	39	C	O3'-P	-5.08	1.55	1.61
40	BG	32	U	N3-C4	-5.08	1.33	1.38
40	BG	76	C	C1'-N1	-5.08	1.39	1.46
85	AA	577	U	C3'-O3'	5.08	1.49	1.42
85	AA	660	G	C1'-N9	-5.08	1.39	1.46
85	AA	708	G	C2-N3	-5.08	1.28	1.32
85	AA	820	G	N1-C2	-5.08	1.33	1.37
85	AA	931	G	C5-C4	-5.08	1.34	1.38
85	AA	1167	G	C2-N2	-5.08	1.29	1.34
85	AA	1528	A	C5-C4	-5.08	1.35	1.38
85	AA	1845	G	C5-C4	-5.08	1.34	1.38
34	BA	607	C	C2'-C1'	-5.08	1.47	1.53
34	BA	794	G	C5'-C4'	-5.08	1.45	1.51
34	BA	971	G	C2-N2	-5.08	1.29	1.34
34	BA	1335	A	O4'-C1'	-5.08	1.35	1.41
34	BA	1341	A	N9-C8	-5.08	1.33	1.37
35	BB	1406	C	C4'-O4'	-5.08	1.39	1.45
85	AA	171	U	C4'-O4'	-5.08	1.39	1.45
85	AA	936	C	C4'-C3'	-5.08	1.47	1.52
85	AA	1046	C	P-O5'	-5.08	1.54	1.59
34	BA	48	C	C4-N4	-5.08	1.29	1.33
34	BA	67	A	P-O5'	-5.08	1.54	1.59
34	BA	221	G	N7-C5	-5.08	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	269	G	C1'-N9	-5.08	1.39	1.46
34	BA	787	A	C6-N6	-5.08	1.29	1.33
34	BA	1009	G	C4'-C3'	-5.08	1.47	1.52
34	BA	1075	U	C4'-C3'	-5.08	1.47	1.52
34	BA	1529	G	C1'-N9	-5.08	1.39	1.46
34	BA	1647	G	C5'-C4'	-5.08	1.45	1.51
35	BB	416	U	C1'-N1	-5.08	1.39	1.46
35	BB	569	G	C1'-N9	-5.08	1.39	1.46
35	BB	773	G	N9-C4	-5.08	1.33	1.38
35	BB	1189	C	C2-N3	-5.08	1.31	1.35
35	BB	1434	G	C8-N7	-5.08	1.27	1.30
35	BB	1541	G	P-O5'	-5.08	1.54	1.59
36	BC	117	A	C5-C4	-5.08	1.35	1.38
37	BD	64	A	C3'-C2'	-5.08	1.47	1.52
85	AA	16	G	P-O5'	-5.08	1.54	1.59
85	AA	1722	G	C2'-C1'	-5.08	1.47	1.53
85	AA	2242	U	N3-C4	-5.08	1.33	1.38
34	BA	93	A	N9-C8	-5.08	1.33	1.37
34	BA	1490	U	C2'-C1'	-5.08	1.47	1.53
35	BB	1055	G	C2-N2	-5.08	1.29	1.34
37	BD	108	G	C2-N2	-5.08	1.29	1.34
38	BE	8	G	C5'-C4'	5.08	1.57	1.51
39	BF	44	C	C2'-C1'	-5.08	1.47	1.53
85	AA	297	A	P-O5'	-5.08	1.54	1.59
34	BA	42	A	C2'-C1'	-5.08	1.47	1.53
34	BA	68	A	N3-C4	-5.08	1.31	1.34
34	BA	380	A	C3'-C2'	-5.08	1.47	1.52
34	BA	452	A	N7-C5	-5.08	1.36	1.39
34	BA	516	U	C1'-N1	-5.08	1.39	1.46
34	BA	680	C	N3-C4	-5.08	1.30	1.33
34	BA	717	U	C2-N3	-5.08	1.34	1.37
34	BA	985	C	C1'-N1	-5.08	1.39	1.46
34	BA	1102	A	N9-C4	-5.08	1.34	1.37
34	BA	1231	C	N3-C4	-5.08	1.30	1.33
34	BA	1249	G	C3'-C2'	-5.08	1.47	1.52
34	BA	1331	G	C6-N1	-5.08	1.35	1.39
34	BA	1465	C	N1-C6	-5.08	1.34	1.37
35	BB	34	G	N1-C2	-5.08	1.33	1.37
35	BB	391	G	C1'-N9	-5.08	1.39	1.46
35	BB	422	U	P-O5'	-5.08	1.54	1.59
35	BB	502	C	O3'-P	-5.08	1.55	1.61
35	BB	1128	U	C3'-C2'	-5.08	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1365	G	C2'-C1'	-5.08	1.47	1.53
40	BG	44	G	C6-N1	-5.08	1.35	1.39
41	BH	116	A	P-O5'	-5.08	1.54	1.59
85	AA	50	C	N3-C4	-5.08	1.30	1.33
85	AA	288	G	O3'-P	-5.08	1.55	1.61
85	AA	475	A	N7-C5	-5.08	1.36	1.39
85	AA	1590	A	O3'-P	-5.08	1.55	1.61
86	AB	51	U	P-O5'	-5.08	1.54	1.59
34	BA	252	A	P-O5'	-5.07	1.54	1.59
34	BA	466	G	N9-C8	-5.07	1.34	1.37
34	BA	1030	C	C4-N4	-5.07	1.29	1.33
34	BA	1587	C	C1'-N1	-5.07	1.39	1.46
35	BB	659	C	C3'-C2'	-5.07	1.47	1.52
35	BB	1405	G	C4'-O4'	-5.07	1.39	1.45
35	BB	1407	U	N3-C4	-5.07	1.33	1.38
38	BE	95	G	C2-N2	-5.07	1.29	1.34
41	BH	15	A	N9-C8	-5.07	1.33	1.37
85	AA	175	A	N9-C4	-5.07	1.34	1.37
85	AA	557	G	O5'-C5'	-5.07	1.34	1.42
85	AA	581	A	C2'-C1'	-5.07	1.47	1.53
85	AA	597	A	N3-C4	-5.07	1.31	1.34
85	AA	1365	U	P-O5'	-5.07	1.54	1.59
85	AA	1854	U	C2-N3	-5.07	1.34	1.37
35	BB	833	G	C5-C4	-5.07	1.34	1.38
35	BB	904	C	P-O5'	-5.07	1.54	1.59
35	BB	1213	U	C3'-C2'	-5.07	1.47	1.52
35	BB	1416	A	N3-C4	-5.07	1.31	1.34
35	BB	1460	G	P-O5'	-5.07	1.54	1.59
37	BD	73	U	C2'-C1'	-5.07	1.47	1.53
40	BG	93	U	O4'-C1'	-5.07	1.35	1.41
85	AA	277	G	N9-C4	-5.07	1.33	1.38
85	AA	1868	G	N7-C5	-5.07	1.36	1.39
34	BA	197	A	C8-N7	-5.07	1.28	1.31
34	BA	517	A	O4'-C1'	-5.07	1.35	1.41
34	BA	935	A	C1'-N9	-5.07	1.39	1.46
34	BA	1135	U	C2'-C1'	-5.07	1.47	1.53
34	BA	1211	G	O4'-C1'	-5.07	1.35	1.41
35	BB	18	A	C4'-C3'	-5.07	1.47	1.52
35	BB	113	C	C4'-C3'	-5.07	1.47	1.52
35	BB	581	U	O3'-P	-5.07	1.55	1.61
35	BB	636	G	C2-N2	-5.07	1.29	1.34
35	BB	1130	U	C4'-C3'	-5.07	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1271	A	N9-C8	-5.07	1.33	1.37
39	BF	23	G	N3-C4	-5.07	1.31	1.35
74	Bo	79	VAL	CA-C	-5.07	1.39	1.52
85	AA	43	A	P-O5'	-5.07	1.54	1.59
85	AA	375	C	C4-N4	-5.07	1.29	1.33
85	AA	525	C	C1'-N1	-5.07	1.39	1.46
85	AA	740	A	N7-C5	-5.07	1.36	1.39
85	AA	1233	G	C6-N1	-5.07	1.36	1.39
85	AA	1561	A	O3'-P	-5.07	1.55	1.61
85	AA	2022	A	C8-N7	-5.07	1.28	1.31
34	BA	1146	U	C2-N3	-5.07	1.34	1.37
34	BA	1171	C	C3'-C2'	-5.07	1.47	1.52
35	BB	1115	G	C2-N2	-5.07	1.29	1.34
36	BC	74	U	C4-C5	-5.07	1.39	1.43
38	BE	8	G	C2-N3	5.07	1.36	1.32
85	AA	857	G	C2'-C1'	-5.07	1.47	1.53
85	AA	924	A	N3-C4	-5.07	1.31	1.34
85	AA	1185	G	C1'-N9	-5.07	1.39	1.46
85	AA	1223	A	O3'-P	-5.07	1.55	1.61
34	BA	178	C	O4'-C1'	-5.07	1.35	1.41
34	BA	269	G	N1-C2	-5.07	1.33	1.37
34	BA	491	U	P-O5'	-5.07	1.54	1.59
34	BA	492	G	C3'-C2'	-5.07	1.47	1.52
34	BA	954	U	C3'-C2'	-5.07	1.47	1.52
34	BA	1476	G	N1-C2	-5.07	1.33	1.37
34	BA	1516	G	P-O5'	-5.07	1.54	1.59
34	BA	1809	G	O4'-C1'	-5.07	1.35	1.41
35	BB	22	A	C6-N6	-5.07	1.29	1.33
35	BB	367	C	O3'-P	-5.07	1.55	1.61
35	BB	630	A	C5'-C4'	-5.07	1.45	1.51
35	BB	651	G	N3-C4	-5.07	1.31	1.35
35	BB	678	U	N3-C4	-5.07	1.33	1.38
35	BB	1187	G	O3'-P	-5.07	1.55	1.61
36	BC	156	A	N7-C5	-5.07	1.36	1.39
37	BD	10	C	C1'-N1	-5.07	1.39	1.46
38	BE	151	C	C4'-C3'	-5.07	1.47	1.52
40	BG	7	U	C2-N3	-5.07	1.34	1.37
85	AA	376	C	C2-N3	-5.07	1.31	1.35
85	AA	629	A	C3'-C2'	-5.07	1.47	1.52
85	AA	683	U	P-O5'	-5.07	1.54	1.59
85	AA	727	U	C5'-C4'	5.07	1.57	1.51
85	AA	1594	G	N9-C4	-5.07	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	1922	A	O4'-C1'	-5.07	1.35	1.41
34	BA	340	U	C2'-C1'	-5.07	1.47	1.53
34	BA	665	C	O3'-P	-5.07	1.55	1.61
34	BA	856	G	N1-C2	-5.07	1.33	1.37
34	BA	967	C	C4'-C3'	-5.07	1.47	1.52
34	BA	1822	U	C4'-C3'	-5.07	1.47	1.52
35	BB	51	U	P-O5'	-5.07	1.54	1.59
35	BB	73	G	N9-C8	-5.07	1.34	1.37
35	BB	375	G	P-O5'	-5.07	1.54	1.59
35	BB	549	U	C2'-C1'	-5.07	1.47	1.53
35	BB	1520	C	O3'-P	-5.07	1.55	1.61
37	BD	20	C	C3'-C2'	-5.07	1.47	1.52
37	BD	37	G	C1'-N9	-5.07	1.39	1.46
37	BD	105	G	C6-N1	-5.07	1.36	1.39
40	BG	45	G	N1-C2	-5.07	1.33	1.37
85	AA	545	A	C3'-C2'	-5.07	1.47	1.52
85	AA	1279	A	C5-C4	-5.07	1.35	1.38
85	AA	1488	G	C2-N2	-5.07	1.29	1.34
85	AA	1563	U	C2'-C1'	-5.07	1.47	1.53
85	AA	2034	G	C2-N2	-5.07	1.29	1.34
85	AA	2193	A	N3-C4	-5.07	1.31	1.34
34	BA	146	G	C2-N3	-5.06	1.28	1.32
34	BA	524	G	N3-C4	-5.06	1.31	1.35
34	BA	837	U	C3'-O3'	-5.06	1.35	1.42
35	BB	988	G	C1'-N9	-5.06	1.39	1.46
35	BB	1120	A	C2'-C1'	-5.06	1.47	1.53
35	BB	1127	A	C2'-C1'	-5.06	1.47	1.53
35	BB	1295	A	C5-C4	-5.06	1.35	1.38
40	BG	54	G	O4'-C1'	-5.06	1.35	1.41
85	AA	30	G	N1-C2	-5.06	1.33	1.37
85	AA	448	G	C1'-N9	-5.06	1.39	1.46
85	AA	1049	G	N9-C4	-5.06	1.33	1.38
85	AA	1713	A	O3'-P	-5.06	1.55	1.61
85	AA	1850	G	N7-C5	-5.06	1.36	1.39
34	BA	295	G	C6-N1	-5.06	1.36	1.39
34	BA	1329	U	N1-C2	5.06	1.43	1.38
34	BA	1671	A	C5-C4	-5.06	1.35	1.38
35	BB	1155	U	N1-C6	-5.06	1.33	1.38
35	BB	1185	G	C4'-O4'	-5.06	1.39	1.45
35	BB	1454	G	C2-N2	-5.06	1.29	1.34
36	BC	113	G	N3-C4	-5.06	1.31	1.35
38	BE	49	A	C2'-C1'	-5.06	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	191	U	C2'-C1'	-5.06	1.47	1.53
62	Bc	13	ARG	CA-CB	5.06	1.65	1.53
85	AA	312	G	C2-N2	-5.06	1.29	1.34
85	AA	506	G	C3'-C2'	-5.06	1.47	1.52
85	AA	933	U	C2-N3	-5.06	1.34	1.37
85	AA	1113	G	C4'-C3'	-5.06	1.47	1.52
85	AA	1679	U	O3'-P	-5.06	1.55	1.61
85	AA	2143	U	O3'-P	-5.06	1.55	1.61
34	BA	333	A	C3'-C2'	-5.06	1.47	1.52
34	BA	1001	G	N7-C5	-5.06	1.36	1.39
34	BA	1285	G	C2'-C1'	-5.06	1.47	1.53
34	BA	1782	C	C4'-C3'	-5.06	1.47	1.52
35	BB	53	C	O4'-C1'	-5.06	1.35	1.41
40	BG	130	G	C8-N7	-5.06	1.27	1.30
85	AA	134	U	C2'-C1'	-5.06	1.47	1.53
85	AA	733	C	C2'-C1'	-5.06	1.47	1.53
85	AA	836	A	C1'-N9	-5.06	1.39	1.46
85	AA	879	G	C3'-C2'	-5.06	1.47	1.52
34	BA	37	A	C2'-C1'	-5.06	1.47	1.53
34	BA	608	G	C3'-O3'	5.06	1.49	1.42
34	BA	1163	G	N3-C4	-5.06	1.31	1.35
34	BA	1284	G	C5-C4	-5.06	1.34	1.38
34	BA	1300	G	C2-N3	-5.06	1.28	1.32
34	BA	1840	C	C1'-N1	-5.06	1.39	1.46
35	BB	48	G	C2'-C1'	-5.06	1.47	1.53
35	BB	509	A	C6-N6	-5.06	1.29	1.33
35	BB	1026	G	N3-C4	-5.06	1.31	1.35
36	BC	2	A	O4'-C1'	-5.06	1.35	1.41
39	BF	25	G	C8-N7	-5.06	1.27	1.30
41	BH	101	A	C2'-C1'	-5.06	1.47	1.53
85	AA	599	C	C4'-O4'	-5.06	1.39	1.45
85	AA	1179	A	O3'-P	-5.06	1.55	1.61
85	AA	1875	A	N3-C4	-5.06	1.31	1.34
85	AA	2128	G	P-O5'	-5.06	1.54	1.59
85	AA	2142	A	P-O5'	-5.06	1.54	1.59
34	BA	342	U	C3'-C2'	-5.06	1.47	1.52
34	BA	480	G	C2-N3	-5.06	1.28	1.32
34	BA	911	G	C3'-C2'	-5.06	1.47	1.52
34	BA	1045	C	C2'-C1'	-5.06	1.47	1.53
34	BA	1690	U	C2'-C1'	-5.06	1.47	1.53
35	BB	273	G	P-O5'	-5.06	1.54	1.59
35	BB	382	U	C2-N3	5.06	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	394	A	N9-C4	-5.06	1.34	1.37
35	BB	482	A	P-O5'	-5.06	1.54	1.59
35	BB	682	U	N1-C2	-5.06	1.33	1.38
35	BB	1097	U	C2'-C1'	-5.06	1.47	1.53
35	BB	1117	G	C5-C4	-5.06	1.34	1.38
35	BB	1263	A	C5'-C4'	-5.06	1.45	1.51
41	BH	126	C	C3'-C2'	-5.06	1.47	1.52
85	AA	30	G	C6-N1	-5.06	1.36	1.39
85	AA	177	A	C5-C4	-5.06	1.35	1.38
85	AA	577	U	C2-N3	-5.06	1.34	1.37
85	AA	630	A	C2'-C1'	-5.06	1.47	1.53
85	AA	682	C	C2'-C1'	-5.06	1.47	1.53
85	AA	1238	U	C3'-C2'	-5.06	1.47	1.52
85	AA	2223	C	O3'-P	-5.06	1.55	1.61
85	AA	2226	U	N3-C4	-5.06	1.33	1.38
34	BA	961	C	P-O5'	-5.06	1.54	1.59
34	BA	1232	C	C2'-C1'	-5.06	1.47	1.53
34	BA	1311	G	P-O5'	-5.06	1.54	1.59
34	BA	1719	G	C3'-C2'	-5.06	1.47	1.52
34	BA	1811	A	P-O5'	-5.06	1.54	1.59
41	BH	32	U	C5-C6	-5.06	1.29	1.34
85	AA	332	A	N9-C4	-5.06	1.34	1.37
85	AA	663	C	C2-N3	-5.06	1.31	1.35
85	AA	1279	A	O3'-P	-5.06	1.55	1.61
85	AA	1367	C	O3'-P	-5.06	1.55	1.61
34	BA	452	A	C2'-C1'	-5.05	1.47	1.53
34	BA	460	G	C2-N2	-5.05	1.29	1.34
34	BA	731	A	P-O5'	-5.05	1.54	1.59
34	BA	775	C	N1-C2	-5.05	1.35	1.40
34	BA	850	C	C5'-C4'	-5.05	1.45	1.51
34	BA	966	G	C2'-C1'	-5.05	1.47	1.53
34	BA	1457	C	N1-C6	-5.05	1.34	1.37
34	BA	1503	U	C3'-O3'	-5.05	1.35	1.42
35	BB	460	C	C5'-C4'	5.05	1.57	1.51
35	BB	498	G	C3'-C2'	-5.05	1.47	1.52
35	BB	575	C	C3'-C2'	-5.05	1.47	1.52
35	BB	900	C	O3'-P	-5.05	1.55	1.61
35	BB	1136	G	N9-C8	-5.05	1.34	1.37
35	BB	1266	A	C2'-C1'	-5.05	1.47	1.53
38	BE	183	C	C3'-C2'	5.05	1.58	1.52
85	AA	338	G	C6-N1	-5.05	1.36	1.39
85	AA	420	C	C1'-N1	-5.05	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	755	G	C4'-C3'	-5.05	1.47	1.52
85	AA	1455	C	C4'-C3'	-5.05	1.47	1.52
85	AA	1525	C	C1'-N1	-5.05	1.39	1.46
34	BA	32	A	N9-C8	-5.05	1.33	1.37
34	BA	1599	A	N9-C8	-5.05	1.33	1.37
34	BA	1630	A	P-O5'	-5.05	1.54	1.59
35	BB	799	A	N9-C4	-5.05	1.34	1.37
35	BB	1380	G	P-O5'	-5.05	1.54	1.59
35	BB	1542	C	O3'-P	-5.05	1.55	1.61
85	AA	192	G	N9-C4	5.05	1.42	1.38
85	AA	1207	C	C4'-O4'	-5.05	1.39	1.45
85	AA	1762	G	P-O5'	-5.05	1.54	1.59
5	A4	69	PRO	CA-C	-5.05	1.42	1.52
34	BA	77	C	C2'-C1'	-5.05	1.47	1.53
34	BA	315	U	C4'-O4'	-5.05	1.39	1.45
34	BA	735	A	C4'-C3'	-5.05	1.47	1.52
34	BA	861	C	C1'-N1	-5.05	1.39	1.46
34	BA	1213	A	C5'-C4'	-5.05	1.45	1.51
34	BA	1303	U	C4'-C3'	-5.05	1.47	1.52
34	BA	1529	G	N9-C8	-5.05	1.34	1.37
34	BA	1695	G	C5-C6	-5.05	1.37	1.42
34	BA	1710	C	C5'-C4'	-5.05	1.45	1.51
35	BB	71	A	N3-C4	-5.05	1.31	1.34
35	BB	74	U	C4'-C3'	-5.05	1.47	1.52
35	BB	125	G	C2'-C1'	-5.05	1.47	1.53
35	BB	611	U	N3-C4	-5.05	1.33	1.38
35	BB	805	G	C1'-N9	-5.05	1.39	1.46
35	BB	1457	A	N7-C5	-5.05	1.36	1.39
40	BG	78	C	C4'-C3'	-5.05	1.47	1.52
40	BG	179	C	C2'-C1'	-5.05	1.47	1.53
85	AA	316	C	C2-N3	-5.05	1.31	1.35
85	AA	560	C	C2-N3	-5.05	1.31	1.35
85	AA	723	U	O3'-P	-5.05	1.55	1.61
85	AA	752	C	P-O5'	-5.05	1.54	1.59
85	AA	879	G	C5-C6	-5.05	1.37	1.42
85	AA	1298	G	C1'-N9	-5.05	1.39	1.46
85	AA	1472	G	C1'-N9	-5.05	1.39	1.46
85	AA	1506	U	C1'-N1	-5.05	1.39	1.46
85	AA	1524	A	C5-C4	-5.05	1.35	1.38
85	AA	1541	G	C1'-N9	-5.05	1.39	1.46
85	AA	2064	A	N3-C4	-5.05	1.31	1.34
34	BA	81	C	C3'-C2'	-5.05	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	724	A	N3-C4	-5.05	1.31	1.34
34	BA	1001	G	C8-N7	-5.05	1.27	1.30
34	BA	1046	G	O4'-C1'	-5.05	1.35	1.41
35	BB	362	A	P-O5'	-5.05	1.54	1.59
35	BB	507	G	C2-N2	-5.05	1.29	1.34
35	BB	518	G	C5-C4	-5.05	1.34	1.38
35	BB	1046	C	N1-C6	-5.05	1.34	1.37
40	BG	38	A	O4'-C1'	-5.05	1.35	1.41
85	AA	189	G	C3'-C2'	-5.05	1.47	1.52
85	AA	573	U	C4'-C3'	-5.05	1.47	1.52
85	AA	1671	G	N3-C4	-5.05	1.31	1.35
85	AA	2194	U	C3'-C2'	-5.05	1.47	1.52
85	AA	2196	G	N9-C8	-5.05	1.34	1.37
34	BA	753	G	P-O5'	-5.05	1.54	1.59
34	BA	1498	A	C2'-C1'	-5.05	1.47	1.53
34	BA	1544	G	N1-C2	-5.05	1.33	1.37
34	BA	1828	A	C5-C4	-5.05	1.35	1.38
35	BB	66	G	N1-C2	-5.05	1.33	1.37
35	BB	76	C	C2-N3	-5.05	1.31	1.35
35	BB	1146	C	C3'-C2'	-5.05	1.47	1.52
36	BC	146	U	N3-C4	-5.05	1.33	1.38
37	BD	62	A	C5-C4	-5.05	1.35	1.38
85	AA	260	A	C1'-N9	-5.05	1.39	1.46
85	AA	761	G	C6-N1	-5.05	1.36	1.39
34	BA	213	A	O3'-P	-5.05	1.55	1.61
34	BA	821	G	C2-N2	-5.05	1.29	1.34
34	BA	1614	G	C6-N1	-5.05	1.36	1.39
35	BB	1422	G	C3'-C2'	-5.05	1.47	1.52
35	BB	1536	G	C2'-C1'	-5.05	1.47	1.53
36	BC	24	G	C6-N1	-5.05	1.36	1.39
40	BG	96	C	O4'-C1'	-5.05	1.35	1.41
85	AA	1148	G	C4'-C3'	-5.05	1.47	1.52
85	AA	1825	A	C2'-C1'	-5.05	1.47	1.53
85	AA	2200	A	P-O5'	-5.05	1.54	1.59
34	BA	329	G	O3'-P	-5.04	1.55	1.61
35	BB	1417	C	P-O5'	-5.04	1.54	1.59
36	BC	15	G	N7-C5	-5.04	1.36	1.39
40	BG	6	A	C8-N7	-5.04	1.28	1.31
85	AA	1112	G	C2'-C1'	-5.04	1.47	1.53
85	AA	1925	A	N9-C8	-5.04	1.33	1.37
34	BA	110	C	C3'-O3'	-5.04	1.35	1.42
34	BA	243	C	C4'-C3'	-5.04	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	732	A	N9-C8	-5.04	1.33	1.37
34	BA	1175	G	C5-C6	-5.04	1.37	1.42
34	BA	1292	A	C5'-C4'	-5.04	1.45	1.51
34	BA	1541	G	C2-N2	-5.04	1.29	1.34
35	BB	543	G	C3'-C2'	-5.04	1.47	1.52
35	BB	677	U	C2'-C1'	-5.04	1.47	1.53
35	BB	723	A	P-O5'	-5.04	1.54	1.59
35	BB	1053	G	N9-C8	-5.04	1.34	1.37
35	BB	1221	G	N9-C8	-5.04	1.34	1.37
38	BE	34	C	O3'-P	-5.04	1.55	1.61
40	BG	12	A	C4'-C3'	-5.04	1.47	1.52
40	BG	160	C	C2'-C1'	-5.04	1.47	1.53
85	AA	204	U	C2-N3	-5.04	1.34	1.37
85	AA	271	A	C2'-C1'	-5.04	1.47	1.53
85	AA	277	G	C2-N2	-5.04	1.29	1.34
85	AA	644	A	C5-C4	-5.04	1.35	1.38
86	AB	1	G	C2'-C1'	-5.04	1.47	1.53
86	AB	53	G	P-O5'	-5.04	1.54	1.59
34	BA	194	G	O3'-P	-5.04	1.55	1.61
34	BA	497	U	O3'-P	-5.04	1.55	1.61
34	BA	672	G	C8-N7	-5.04	1.27	1.30
34	BA	676	G	N3-C4	-5.04	1.31	1.35
34	BA	1223	C	C4'-O4'	-5.04	1.39	1.45
34	BA	1455	C	C5'-C4'	5.04	1.57	1.51
34	BA	1475	G	C2-N2	-5.04	1.29	1.34
34	BA	1657	A	C6-N1	-5.04	1.32	1.35
35	BB	672	C	O3'-P	-5.04	1.55	1.61
35	BB	826	G	C2-N2	-5.04	1.29	1.34
35	BB	1397	G	C5-C4	-5.04	1.34	1.38
35	BB	1447	U	C2-N3	-5.04	1.34	1.37
36	BC	146	U	C1'-N1	-5.04	1.39	1.46
38	BE	3	G	N7-C5	-5.04	1.36	1.39
40	BG	19	C	C4'-C3'	-5.04	1.47	1.52
85	AA	594	C	N1-C6	-5.04	1.34	1.37
85	AA	1542	A	N3-C4	-5.04	1.31	1.34
34	BA	25	C	C4-N4	-5.04	1.29	1.33
34	BA	1156	U	C3'-C2'	-5.04	1.47	1.52
34	BA	1231	C	C2-N3	-5.04	1.31	1.35
34	BA	1615	A	C5-C4	-5.04	1.35	1.38
34	BA	10	G	C6-N1	-5.04	1.36	1.39
34	BA	354	G	C1'-N9	-5.04	1.39	1.46
34	BA	433	G	N9-C8	-5.04	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1275	G	C4'-O4'	-5.04	1.39	1.45
34	BA	1449	U	P-O5'	-5.04	1.54	1.59
34	BA	1786	C	O3'-P	-5.04	1.55	1.61
34	BA	1845	G	C3'-C2'	-5.04	1.47	1.52
35	BB	1196	A	N3-C4	-5.04	1.31	1.34
35	BB	1408	G	C5-C4	-5.04	1.34	1.38
36	BC	61	A	C5-C4	-5.04	1.35	1.38
38	BE	4	A	N3-C4	-5.04	1.31	1.34
85	AA	465	A	C4'-C3'	-5.04	1.47	1.52
85	AA	603	C	O3'-P	-5.04	1.55	1.61
85	AA	683	U	C1'-N1	-5.04	1.39	1.46
85	AA	798	A	C2'-C1'	-5.04	1.47	1.53
85	AA	1212	C	C4-N4	-5.04	1.29	1.33
85	AA	1409	U	P-O5'	-5.04	1.54	1.59
34	BA	570	G	O3'-P	-5.04	1.55	1.61
34	BA	1161	G	C2'-C1'	-5.04	1.47	1.53
34	BA	1244	G	C1'-N9	-5.04	1.39	1.46
35	BB	1477	C	C2-N3	-5.04	1.31	1.35
38	BE	23	G	C5-C4	-5.04	1.34	1.38
41	BH	69	C	C3'-C2'	-5.04	1.47	1.52
85	AA	731	U	C2'-C1'	-5.04	1.47	1.53
85	AA	1492	U	P-O5'	-5.04	1.54	1.59
34	BA	68	A	C8-N7	-5.04	1.28	1.31
34	BA	172	A	C8-N7	-5.04	1.28	1.31
34	BA	276	C	C4-N4	-5.04	1.29	1.33
35	BB	312	U	P-O5'	-5.04	1.54	1.59
35	BB	599	U	C3'-C2'	-5.04	1.47	1.52
35	BB	1270	C	C2-N3	-5.04	1.31	1.35
35	BB	1534	U	O4'-C1'	-5.04	1.35	1.41
35	BB	1536	G	P-O5'	-5.04	1.54	1.59
36	BC	40	A	C1'-N9	-5.04	1.39	1.46
36	BC	68	A	C6-N1	-5.04	1.32	1.35
37	BD	50	A	C3'-C2'	-5.04	1.47	1.52
38	BE	147	G	C3'-C2'	-5.04	1.47	1.52
38	BE	179	A	N3-C4	-5.04	1.31	1.34
85	AA	158	C	C3'-C2'	-5.04	1.47	1.52
85	AA	365	G	C2-N2	-5.04	1.29	1.34
85	AA	504	U	C5'-C4'	-5.04	1.45	1.51
85	AA	582	A	C2'-C1'	-5.04	1.47	1.53
85	AA	1171	C	C4'-C3'	-5.04	1.47	1.52
85	AA	1582	U	C2'-C1'	-5.04	1.47	1.53
85	AA	2116	U	C4'-C3'	-5.04	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A5	200	GLY	N-CA	-5.03	1.38	1.46
34	BA	142	A	C3'-C2'	-5.03	1.47	1.52
34	BA	447	U	O4'-C1'	-5.03	1.35	1.41
34	BA	1054	U	N3-C4	-5.03	1.33	1.38
34	BA	1419	A	N9-C8	-5.03	1.33	1.37
35	BB	662	G	N9-C8	-5.03	1.34	1.37
35	BB	1120	A	C5'-C4'	-5.03	1.45	1.51
35	BB	1365	G	N1-C2	-5.03	1.33	1.37
36	BC	163	A	C5-C6	-5.03	1.36	1.41
38	BE	77	C	C5'-C4'	5.03	1.57	1.51
38	BE	119	U	N1-C2	-5.03	1.34	1.38
40	BG	46	G	O3'-P	-5.03	1.55	1.61
85	AA	62	A	O4'-C1'	-5.03	1.35	1.41
85	AA	343	U	P-O5'	-5.03	1.54	1.59
85	AA	380	C	C2-N3	-5.03	1.31	1.35
85	AA	686	U	C4'-C3'	-5.03	1.47	1.52
85	AA	1683	U	C2'-C1'	-5.03	1.47	1.53
85	AA	1828	C	C2-N3	-5.03	1.31	1.35
7	A6	116	GLY	CA-C	-5.03	1.43	1.51
34	BA	468	A	C3'-O3'	5.03	1.49	1.42
34	BA	615	A	C5-C4	-5.03	1.35	1.38
34	BA	684	G	N7-C5	-5.03	1.36	1.39
35	BB	510	A	N9-C8	-5.03	1.33	1.37
38	BE	193	A	C3'-C2'	-5.03	1.47	1.52
39	BF	8	C	C4'-C3'	-5.03	1.47	1.52
40	BG	37	G	C5-C4	-5.03	1.34	1.38
85	AA	646	C	O3'-P	-5.03	1.55	1.61
34	BA	160	G	C1'-N9	-5.03	1.39	1.46
34	BA	697	A	C4'-C3'	-5.03	1.47	1.52
34	BA	785	G	C2-N3	-5.03	1.28	1.32
34	BA	1431	G	N1-C2	-5.03	1.33	1.37
34	BA	1604	A	N3-C4	-5.03	1.31	1.34
35	BB	1461	C	C1'-N1	-5.03	1.39	1.46
38	BE	16	C	O4'-C1'	5.03	1.48	1.41
41	BH	13	C	N1-C6	-5.03	1.34	1.37
85	AA	357	C	C4-C5	-5.03	1.39	1.43
85	AA	548	G	C1'-N9	-5.03	1.39	1.46
85	AA	1164	A	C5-C4	-5.03	1.35	1.38
85	AA	1253	G	N9-C4	-5.03	1.33	1.38
85	AA	1522	U	C3'-C2'	-5.03	1.47	1.52
85	AA	1796	C	O3'-P	-5.03	1.55	1.61
85	AA	1991	C	O4'-C1'	-5.03	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A5	112	TRP	CB-CG	-5.03	1.41	1.50
34	BA	1091	U	C4'-C3'	-5.03	1.47	1.52
35	BB	1254	G	C2'-C1'	-5.03	1.47	1.53
35	BB	1384	A	C1'-N9	-5.03	1.39	1.46
38	BE	133	C	C2-N3	-5.03	1.31	1.35
38	BE	189	A	C6-N6	-5.03	1.29	1.33
41	BH	20	A	O4'-C1'	-5.03	1.35	1.41
85	AA	1182	A	N7-C5	-5.03	1.36	1.39
34	BA	148	G	C6-N1	-5.03	1.36	1.39
34	BA	356	C	C1'-N1	-5.03	1.39	1.46
34	BA	410	G	N9-C8	-5.03	1.34	1.37
34	BA	697	A	C4'-O4'	-5.03	1.39	1.45
34	BA	698	U	O3'-P	-5.03	1.55	1.61
34	BA	792	A	C5-C4	-5.03	1.35	1.38
34	BA	937	G	P-O5'	-5.03	1.54	1.59
34	BA	1266	A	O3'-P	-5.03	1.55	1.61
34	BA	1478	G	C5'-C4'	5.03	1.57	1.51
34	BA	1632	G	N3-C4	-5.03	1.31	1.35
35	BB	16	G	P-O5'	-5.03	1.54	1.59
35	BB	444	U	C3'-C2'	-5.03	1.47	1.52
35	BB	584	A	C6-N1	-5.03	1.32	1.35
35	BB	744	U	C4'-C3'	-5.03	1.47	1.52
35	BB	976	U	C2-N3	-5.03	1.34	1.37
35	BB	1079	G	C4'-C3'	-5.03	1.47	1.52
77	Br	277	LEU	C-N	-5.03	1.24	1.34
85	AA	266	U	C5'-C4'	5.03	1.57	1.51
85	AA	273	C	N1-C6	-5.03	1.34	1.37
85	AA	364	C	C2-N3	-5.03	1.31	1.35
85	AA	420	C	N1-C2	-5.03	1.35	1.40
85	AA	854	A	O4'-C1'	5.03	1.48	1.41
85	AA	894	A	O3'-P	-5.03	1.55	1.61
85	AA	911	A	N7-C5	-5.03	1.36	1.39
85	AA	928	U	C1'-N1	-5.03	1.39	1.46
85	AA	1148	G	N3-C4	-5.03	1.31	1.35
85	AA	1483	A	N1-C2	-5.03	1.29	1.34
85	AA	1493	A	C3'-C2'	5.03	1.58	1.52
85	AA	2063	C	O3'-P	-5.03	1.55	1.61
85	AA	2097	U	C2-N3	-5.03	1.34	1.37
85	AA	2176	U	C4'-C3'	-5.03	1.47	1.52
34	BA	113	G	C8-N7	-5.03	1.27	1.30
34	BA	278	U	N3-C4	-5.03	1.33	1.38
34	BA	621	G	C2-N2	-5.03	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	714	G	C6-N1	-5.03	1.36	1.39
34	BA	1266	A	C5'-C4'	5.03	1.57	1.51
34	BA	1610	A	C1'-N9	-5.03	1.39	1.46
34	BA	1839	G	O4'-C1'	-5.03	1.35	1.41
35	BB	367	C	C2'-C1'	-5.03	1.47	1.53
35	BB	536	U	O3'-P	-5.03	1.55	1.61
35	BB	1056	A	C5-C4	-5.03	1.35	1.38
35	BB	1070	G	C6-N1	-5.03	1.36	1.39
35	BB	1091	C	C4'-C3'	-5.03	1.47	1.52
35	BB	1363	A	C5-C4	-5.03	1.35	1.38
35	BB	1448	U	C5'-C4'	-5.03	1.45	1.51
36	BC	95	A	C3'-C2'	-5.03	1.47	1.52
36	BC	165	U	N1-C2	-5.03	1.34	1.38
38	BE	12	A	C3'-C2'	-5.03	1.47	1.52
40	BG	174	G	N3-C4	-5.03	1.31	1.35
85	AA	177	A	C4'-C3'	-5.03	1.47	1.52
85	AA	248	U	C1'-N1	-5.03	1.39	1.46
85	AA	327	G	C2'-C1'	-5.03	1.47	1.53
85	AA	698	G	C6-N1	-5.03	1.36	1.39
85	AA	1169	A	O3'-P	-5.03	1.55	1.61
85	AA	1624	U	O3'-P	-5.03	1.55	1.61
85	AA	1859	C	P-O5'	-5.03	1.54	1.59
85	AA	1936	C	C2'-C1'	-5.03	1.47	1.53
7	A6	157	PHE	CB-CG	-5.02	1.42	1.51
34	BA	322	U	C4-O4	-5.02	1.19	1.23
34	BA	583	G	C6-N1	-5.02	1.36	1.39
34	BA	790	G	C5-C4	-5.02	1.34	1.38
34	BA	1176	C	C5'-C4'	-5.02	1.45	1.51
34	BA	1382	G	O3'-P	-5.02	1.55	1.61
34	BA	1523	U	P-O5'	-5.02	1.54	1.59
34	BA	1813	C	C4-N4	-5.02	1.29	1.33
34	BA	1832	A	C3'-C2'	-5.02	1.47	1.52
35	BB	503	G	C4'-C3'	-5.02	1.47	1.52
35	BB	586	U	C3'-C2'	-5.02	1.47	1.52
35	BB	637	G	C6-N1	-5.02	1.36	1.39
36	BC	24	G	O4'-C1'	-5.02	1.35	1.41
37	BD	27	A	C1'-N9	-5.02	1.39	1.46
85	AA	496	C	C1'-N1	-5.02	1.39	1.46
34	BA	861	C	C4-N4	-5.02	1.29	1.33
34	BA	1315	C	P-O5'	-5.02	1.54	1.59
34	BA	1725	U	C4'-O4'	-5.02	1.39	1.45
35	BB	444	U	O3'-P	-5.02	1.55	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1243	A	C8-N7	-5.02	1.28	1.31
35	BB	1440	A	N7-C5	-5.02	1.36	1.39
35	BB	1508	G	C2-N2	-5.02	1.29	1.34
38	BE	119	U	C3'-C2'	-5.02	1.47	1.52
38	BE	128	G	C2-N2	-5.02	1.29	1.34
41	BH	54	U	N1-C2	5.02	1.43	1.38
85	AA	36	U	C4'-C3'	-5.02	1.47	1.52
85	AA	534	A	C5-C4	-5.02	1.35	1.38
85	AA	630	A	C6-N1	-5.02	1.32	1.35
85	AA	1690	A	C2'-C1'	-5.02	1.47	1.53
85	AA	2138	G	C5-C6	-5.02	1.37	1.42
34	BA	1133	A	C2'-C1'	-5.02	1.47	1.53
36	BC	52	A	C6-N1	-5.02	1.32	1.35
65	Bf	165	PHE	CB-CG	-5.02	1.42	1.51
85	AA	133	G	C2-N3	-5.02	1.28	1.32
85	AA	466	A	N7-C5	-5.02	1.36	1.39
85	AA	794	A	C5-C6	-5.02	1.36	1.41
85	AA	905	C	O3'-P	-5.02	1.55	1.61
85	AA	995	G	N3-C4	-5.02	1.31	1.35
15	AG	37	VAL	CA-C	-5.02	1.39	1.52
34	BA	146	G	C4'-O4'	-5.02	1.39	1.45
34	BA	249	A	N7-C5	-5.02	1.36	1.39
34	BA	417	A	N3-C4	-5.02	1.31	1.34
34	BA	800	G	C2-N3	5.02	1.36	1.32
34	BA	1085	G	P-O5'	-5.02	1.54	1.59
34	BA	1095	G	C1'-N9	-5.02	1.39	1.46
34	BA	1476	G	C6-N1	-5.02	1.36	1.39
34	BA	1709	A	C5-C6	-5.02	1.36	1.41
35	BB	82	G	O3'-P	-5.02	1.55	1.61
35	BB	435	A	N9-C8	-5.02	1.33	1.37
35	BB	1067	G	C2-N2	-5.02	1.29	1.34
35	BB	1449	G	N3-C4	-5.02	1.31	1.35
85	AA	464	A	C4'-C3'	-5.02	1.47	1.52
34	BA	401	A	N1-C2	-5.02	1.29	1.34
34	BA	861	C	C2-N3	-5.02	1.31	1.35
34	BA	959	G	C1'-N9	-5.02	1.39	1.46
34	BA	1232	C	C4-N4	-5.02	1.29	1.33
34	BA	1708	A	C4'-C3'	-5.02	1.47	1.52
35	BB	1053	G	O4'-C1'	-5.02	1.35	1.41
85	AA	499	G	N3-C4	-5.02	1.31	1.35
85	AA	541	A	N7-C5	-5.02	1.36	1.39
85	AA	872	U	P-O5'	-5.02	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AA	974	U	C4'-C3'	5.02	1.58	1.53
85	AA	1374	A	O3'-P	-5.02	1.55	1.61
34	BA	1212	A	N7-C5	-5.02	1.36	1.39
38	BE	83	U	C4'-C3'	-5.02	1.47	1.52
85	AA	471	U	C1'-N1	-5.02	1.39	1.46
85	AA	627	A	C5-C4	-5.02	1.35	1.38
85	AA	1104	G	C4'-O4'	-5.02	1.39	1.45
85	AA	1150	G	N7-C5	-5.02	1.36	1.39
34	BA	504	A	C4'-O4'	-5.01	1.39	1.45
34	BA	1008	A	N3-C4	-5.01	1.31	1.34
34	BA	1096	C	C1'-N1	-5.01	1.39	1.46
34	BA	1288	U	C4'-O4'	-5.01	1.39	1.45
34	BA	1525	G	N3-C4	-5.01	1.31	1.35
34	BA	1833	G	C2'-C1'	-5.01	1.47	1.53
35	BB	276	U	P-O5'	-5.01	1.54	1.59
35	BB	547	A	C3'-C2'	-5.01	1.47	1.52
35	BB	705	C	C3'-C2'	-5.01	1.47	1.52
35	BB	1211	C	C3'-C2'	-5.01	1.47	1.52
35	BB	1336	G	C6-N1	-5.01	1.36	1.39
40	BG	65	C	C2'-C1'	-5.01	1.47	1.53
85	AA	39	A	N7-C5	-5.01	1.36	1.39
85	AA	679	A	C8-N7	-5.01	1.28	1.31
85	AA	906	U	P-O5'	-5.01	1.54	1.59
85	AA	1158	U	P-O5'	-5.01	1.54	1.59
85	AA	1519	A	C3'-C2'	-5.01	1.47	1.52
85	AA	1863	A	C3'-C2'	-5.01	1.47	1.52
85	AA	2204	A	N9-C4	-5.01	1.34	1.37
34	BA	773	A	C4'-C3'	-5.01	1.47	1.52
34	BA	1225	A	C5-C4	-5.01	1.35	1.38
35	BB	78	C	C2'-C1'	-5.01	1.47	1.53
35	BB	412	A	C5-C4	-5.01	1.35	1.38
35	BB	1063	C	C2-N3	-5.01	1.31	1.35
35	BB	1487	G	N7-C5	-5.01	1.36	1.39
37	BD	95	G	O3'-P	-5.01	1.55	1.61
85	AA	605	A	C5-C4	-5.01	1.35	1.38
34	BA	377	G	C3'-C2'	-5.01	1.47	1.52
34	BA	393	G	P-O5'	-5.01	1.54	1.59
34	BA	992	A	N3-C4	-5.01	1.31	1.34
35	BB	103	C	C3'-C2'	-5.01	1.47	1.52
35	BB	383	U	P-O5'	-5.01	1.54	1.59
37	BD	56	G	C1'-N9	-5.01	1.39	1.46
37	BD	60	C	C4-N4	-5.01	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	171	U	C4'-C3'	-5.01	1.47	1.52
56	BW	128	TRP	C-N	-5.01	1.24	1.34
85	AA	54	C	C4-N4	-5.01	1.29	1.33
85	AA	436	G	C2-N2	-5.01	1.29	1.34
85	AA	851	G	P-O5'	-5.01	1.54	1.59
85	AA	1579	A	O3'-P	-5.01	1.55	1.61
85	AA	1698	A	N9-C8	-5.01	1.33	1.37
85	AA	1856	G	N1-C2	-5.01	1.33	1.37
85	AA	1923	A	O4'-C1'	-5.01	1.35	1.41
34	BA	260	A	O3'-P	-5.01	1.55	1.61
34	BA	504	A	O4'-C1'	-5.01	1.35	1.41
34	BA	523	A	N9-C4	5.01	1.40	1.37
34	BA	1104	C	C3'-C2'	-5.01	1.47	1.52
34	BA	1331	G	P-O5'	-5.01	1.54	1.59
34	BA	1553	G	C3'-O3'	5.01	1.49	1.42
34	BA	1679	C	N1-C6	-5.01	1.34	1.37
34	BA	1799	G	N1-C2	-5.01	1.33	1.37
35	BB	89	C	C3'-C2'	-5.01	1.47	1.52
35	BB	306	U	P-O5'	-5.01	1.54	1.59
35	BB	449	C	C3'-C2'	-5.01	1.47	1.52
35	BB	578	G	N3-C4	-5.01	1.31	1.35
35	BB	698	C	C4'-C3'	-5.01	1.47	1.52
35	BB	1170	U	C1'-N1	-5.01	1.39	1.46
35	BB	1309	A	N3-C4	-5.01	1.31	1.34
35	BB	1508	G	N1-C2	-5.01	1.33	1.37
37	BD	86	A	N9-C8	-5.01	1.33	1.37
37	BD	107	G	N1-C2	-5.01	1.33	1.37
38	BE	18	U	O3'-P	-5.01	1.55	1.61
38	BE	146	U	O4'-C1'	-5.01	1.35	1.41
39	BF	25	G	C2'-C1'	-5.01	1.47	1.53
56	BW	134	HIS	CA-C	-5.01	1.40	1.52
85	AA	61	C	C2-N3	-5.01	1.31	1.35
85	AA	774	C	O3'-P	-5.01	1.55	1.61
85	AA	1701	G	O4'-C1'	-5.01	1.35	1.41
85	AA	1977	G	O3'-P	-5.01	1.55	1.61
85	AA	1979	A	C2'-C1'	-5.01	1.47	1.53
85	AA	2247	C	O3'-P	-5.01	1.55	1.61
34	BA	28	C	N3-C4	-5.01	1.30	1.33
34	BA	1098	G	N7-C5	-5.01	1.36	1.39
34	BA	1429	A	C2'-C1'	-5.01	1.47	1.53
34	BA	1812	C	C2-N3	-5.01	1.31	1.35
35	BB	293	G	O3'-P	-5.01	1.55	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	BE	185	G	C5'-C4'	-5.01	1.45	1.51
40	BG	32	U	C2'-C1'	-5.01	1.47	1.53
34	BA	15	G	C6-N1	-5.01	1.36	1.39
34	BA	323	C	C4'-O4'	-5.01	1.39	1.45
34	BA	366	G	C5'-C4'	-5.01	1.45	1.51
34	BA	748	C	N1-C6	-5.01	1.34	1.37
34	BA	1826	C	C2'-C1'	-5.01	1.47	1.53
35	BB	572	G	C5-C4	-5.01	1.34	1.38
35	BB	1480	G	C8-N7	-5.01	1.27	1.30
35	BB	1521	G	C4'-C3'	-5.01	1.47	1.52
40	BG	31	G	C2-N3	-5.01	1.28	1.32
41	BH	47	G	N9-C8	-5.01	1.34	1.37
41	BH	105	U	N3-C4	-5.01	1.33	1.38
41	BH	107	A	N3-C4	-5.01	1.31	1.34
41	BH	113	G	C2-N2	-5.01	1.29	1.34
74	Bo	79	VAL	N-CA	-5.01	1.36	1.46
85	AA	732	G	N7-C5	-5.01	1.36	1.39
85	AA	741	G	C3'-C2'	-5.01	1.47	1.52
85	AA	939	A	C6-N6	-5.01	1.29	1.33
85	AA	1539	A	N7-C5	-5.01	1.36	1.39
34	BA	457	A	C1'-N9	-5.00	1.39	1.46
34	BA	1146	U	C5'-C4'	-5.00	1.45	1.51
34	BA	1158	A	C4'-C3'	-5.00	1.47	1.52
34	BA	1816	G	N7-C5	-5.00	1.36	1.39
35	BB	1260	A	N7-C5	-5.00	1.36	1.39
37	BD	41	G	C6-N1	-5.00	1.36	1.39
37	BD	48	G	C3'-C2'	-5.00	1.47	1.52
85	AA	293	A	N7-C5	-5.00	1.36	1.39
85	AA	406	U	C4'-C3'	-5.00	1.47	1.52
85	AA	2025	A	C1'-N9	-5.00	1.39	1.46
34	BA	35	U	O3'-P	-5.00	1.55	1.61
34	BA	263	G	N1-C2	-5.00	1.33	1.37
34	BA	454	G	C4'-C3'	-5.00	1.47	1.52
34	BA	568	G	C1'-N9	-5.00	1.39	1.46
34	BA	744	G	C2-N2	-5.00	1.29	1.34
34	BA	893	U	C1'-N1	-5.00	1.39	1.46
34	BA	1008	A	C2'-C1'	-5.00	1.47	1.53
34	BA	1161	G	P-O5'	-5.00	1.54	1.59
34	BA	1225	A	C4'-C3'	-5.00	1.47	1.52
34	BA	1244	G	N9-C4	-5.00	1.33	1.38
34	BA	1293	A	O4'-C1'	-5.00	1.35	1.41
34	BA	1379	G	C2-N2	-5.00	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	1465	C	C4'-C3'	-5.00	1.47	1.52
34	BA	1469	G	O3'-P	-5.00	1.55	1.61
34	BA	1806	A	C3'-C2'	-5.00	1.47	1.52
35	BB	825	U	C2-N3	-5.00	1.34	1.37
35	BB	982	A	P-O5'	-5.00	1.54	1.59
35	BB	1377	A	C3'-C2'	-5.00	1.47	1.52
36	BC	88	A	C3'-C2'	-5.00	1.47	1.52
36	BC	120	G	C2-N2	-5.00	1.29	1.34
38	BE	96	G	C5'-C4'	-5.00	1.45	1.51
40	BG	126	G	C4'-C3'	-5.00	1.47	1.52
58	BY	8	PHE	CB-CG	-5.00	1.42	1.51
85	AA	4	C	N3-C4	5.00	1.37	1.33
85	AA	152	A	O4'-C1'	-5.00	1.35	1.41
85	AA	402	G	C2-N2	-5.00	1.29	1.34
85	AA	443	A	C5-C4	-5.00	1.35	1.38
85	AA	561	C	C2-N3	-5.00	1.31	1.35
85	AA	698	G	O3'-P	-5.00	1.55	1.61
85	AA	2096	G	N7-C5	-5.00	1.36	1.39
85	AA	2101	C	O3'-P	-5.00	1.55	1.61
34	BA	100	A	C8-N7	-5.00	1.28	1.31
34	BA	694	G	P-O5'	-5.00	1.54	1.59
34	BA	1050	A	O3'-P	-5.00	1.55	1.61
34	BA	1438	C	C4-N4	-5.00	1.29	1.33
34	BA	1622	U	C4'-C3'	-5.00	1.47	1.52
35	BB	8	U	C5'-C4'	-5.00	1.45	1.51
35	BB	757	C	O3'-P	-5.00	1.55	1.61
35	BB	1176	G	C8-N7	-5.00	1.27	1.30
35	BB	1434	G	N7-C5	-5.00	1.36	1.39
36	BC	53	A	C8-N7	-5.00	1.28	1.31
36	BC	105	C	C4'-O4'	-5.00	1.39	1.45
40	BG	117	C	C3'-C2'	-5.00	1.47	1.52
85	AA	23	G	C2-N2	-5.00	1.29	1.34
85	AA	539	A	C5-C6	-5.00	1.36	1.41
85	AA	542	G	C3'-C2'	-5.00	1.47	1.52
85	AA	1442	U	P-O5'	-5.00	1.54	1.59
85	AA	1894	G	N9-C4	-5.00	1.33	1.38
85	AA	2108	C	O3'-P	-5.00	1.55	1.61

All (28260) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	469	G	N9-C4-C5	-49.23	85.71	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	32	G	P-O3'-C3'	41.15	169.07	119.70
35	BB	1212	C	C6-N1-C2	-40.14	104.24	120.30
85	AA	769	C	C6-N1-C2	-39.18	104.63	120.30
34	BA	692	U	P-O3'-C3'	38.13	165.46	119.70
38	BE	203	C	C6-N1-C2	-37.90	105.14	120.30
85	AA	469	G	C8-N9-C4	37.72	121.49	106.40
38	BE	175	U	P-O3'-C3'	35.72	162.56	119.70
85	AA	469	G	N3-C4-N9	35.43	147.26	126.00
34	BA	605	G	C8-N9-C4	-34.02	92.79	106.40
34	BA	647	U	P-O3'-C3'	-33.75	79.20	119.70
34	BA	743	A	C4-C5-N7	33.48	127.44	110.70
34	BA	1523	U	P-O3'-C3'	33.29	159.65	119.70
40	BG	9	G	P-O3'-C3'	33.23	159.58	119.70
85	AA	24	U	P-O3'-C3'	32.89	159.17	119.70
39	BF	65	U	C2-N3-C4	-32.08	107.75	127.00
34	BA	633	G	P-O3'-C3'	31.36	157.33	119.70
85	AA	1371	C	P-O3'-C3'	31.14	157.07	119.70
34	BA	743	A	N9-C4-C5	-30.20	93.72	105.80
35	BB	1024	G	P-O3'-C3'	29.96	155.65	119.70
34	BA	855	C	C6-N1-C2	-29.92	108.33	120.30
85	AA	150	U	C2-N3-C4	-29.81	109.12	127.00
35	BB	61	A	P-O3'-C3'	29.68	155.32	119.70
85	AA	1973	G	P-O3'-C3'	29.62	155.24	119.70
34	BA	896	U	C2-N3-C4	-29.21	109.47	127.00
35	BB	835	C	C6-N1-C2	-29.17	108.63	120.30
40	BG	22	G	P-O3'-C3'	28.94	154.43	119.70
34	BA	578	C	P-O3'-C3'	28.41	153.80	119.70
85	AA	1294	U	C2-N3-C4	-28.17	110.10	127.00
85	AA	330	C	C6-N1-C2	-28.03	109.09	120.30
35	BB	972	C	P-O3'-C3'	27.92	153.21	119.70
34	BA	557	U	C4'-C3'-C2'	-27.90	74.70	102.60
34	BA	1561	C	C6-N1-C2	-27.68	109.23	120.30
34	BA	517	A	P-O5'-C5'	27.48	164.87	120.90
38	BE	18	U	P-O3'-C3'	27.02	152.12	119.70
38	BE	183	C	C6-N1-C2	-26.98	109.51	120.30
85	AA	1816	C	C6-N1-C2	-26.98	109.51	120.30
34	BA	768	G	P-O3'-C3'	26.85	151.92	119.70
35	BB	1494	G	P-O3'-C3'	26.59	151.61	119.70
35	BB	838	G	P-O3'-C3'	26.53	151.54	119.70
34	BA	689	C	P-O3'-C3'	26.51	151.51	119.70
37	BD	83	A	P-O3'-C3'	26.34	151.31	119.70
34	BA	214	A	C2-N3-C4	26.26	123.73	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1280	U	C2-N3-C4	-26.14	111.31	127.00
34	BA	513	U	C2-N3-C4	-26.05	111.37	127.00
85	AA	742	U	C2-N3-C4	-26.03	111.38	127.00
34	BA	1494	G	C5-C6-O6	-25.92	113.05	128.60
37	BD	118	C	C6-N1-C2	-25.84	109.97	120.30
34	BA	205	G	P-O3'-C3'	25.73	150.58	119.70
34	BA	112	C	C6-N1-C2	-25.66	110.03	120.30
34	BA	1787	U	P-O3'-C3'	25.55	150.37	119.70
34	BA	606	G	P-O3'-C3'	25.46	150.26	119.70
40	BG	24	A	C4-C5-C6	-25.42	104.29	117.00
85	AA	654	A	N1-C6-N6	-25.16	103.51	118.60
34	BA	598	G	P-O3'-C3'	24.78	149.44	119.70
34	BA	743	A	C4-C5-C6	-24.71	104.64	117.00
34	BA	605	G	P-O5'-C5'	24.68	160.38	120.90
35	BB	2	C	P-O5'-C5'	24.66	160.36	120.90
34	BA	777	C	P-O5'-C5'	24.63	160.31	120.90
34	BA	766	A	P-O5'-C5'	24.43	159.99	120.90
34	BA	1831	A	P-O3'-C3'	24.43	149.01	119.70
34	BA	1494	G	P-O3'-C3'	24.40	148.99	119.70
34	BA	771	A	P-O3'-C3'	24.37	148.94	119.70
34	BA	280	A	P-O5'-C5'	24.27	159.74	120.90
85	AA	164	G	P-O5'-C5'	24.16	159.56	120.90
34	BA	678	C	C6-N1-C2	-24.07	110.67	120.30
85	AA	862	U	P-O3'-C3'	24.03	148.53	119.70
38	BE	23	G	P-O5'-C5'	23.94	159.21	120.90
34	BA	743	A	C8-N9-C4	-23.91	96.24	105.80
34	BA	763	U	C2-N3-C4	-23.88	112.67	127.00
40	BG	24	A	P-O3'-C3'	23.77	148.23	119.70
34	BA	605	G	C4-N9-C1'	23.66	157.26	126.50
40	BG	23	C	P-O5'-C5'	23.55	158.58	120.90
85	AA	1535	C	P-O3'-C3'	23.52	147.92	119.70
85	AA	529	G	P-O3'-C3'	23.44	147.83	119.70
85	AA	98	U	C2-N3-C4	-23.29	113.03	127.00
34	BA	147	U	C2-N3-C4	-23.27	113.04	127.00
34	BA	870	C	O5'-P-OP2	-23.05	83.04	110.70
35	BB	797	C	P-O3'-C3'	22.90	147.18	119.70
85	AA	300	C	P-O3'-C3'	22.89	147.17	119.70
35	BB	1438	U	C2-N3-C4	-22.89	113.27	127.00
85	AA	2244	G	P-O3'-C3'	22.74	146.99	119.70
85	AA	80	G	P-O3'-C3'	22.61	146.83	119.70
85	AA	1921	G	C5'-C4'-C3'	22.57	152.11	116.00
34	BA	570	G	P-O3'-C3'	22.57	146.78	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	890	U	P-O3'-C3'	22.39	146.56	119.70
85	AA	867	G	P-O3'-C3'	22.37	146.54	119.70
34	BA	384	U	C2-N3-C4	-22.29	113.62	127.00
41	BH	71	C	P-O3'-C3'	22.24	146.39	119.70
36	BC	123	G	P-O3'-C3'	22.23	146.38	119.70
35	BB	970	C	P-O3'-C3'	22.23	146.37	119.70
39	BF	51	C	P-O3'-C3'	22.06	146.17	119.70
35	BB	1337	C	C6-N1-C2	-22.03	111.49	120.30
85	AA	1301	C	P-O3'-C3'	21.85	145.92	119.70
41	BH	26	C	P-O3'-C3'	21.84	145.91	119.70
85	AA	735	G	P-O3'-C3'	21.76	145.81	119.70
34	BA	1722	U	C2-N3-C4	-21.73	113.96	127.00
38	BE	134	A	P-O3'-C3'	21.73	145.78	119.70
85	AA	45	U	P-O3'-C3'	21.73	145.77	119.70
35	BB	1202	G	O4'-C1'-N9	21.71	125.56	108.20
85	AA	381	A	N1-C6-N6	-21.58	105.65	118.60
35	BB	614	U	C2-N3-C4	-21.57	114.06	127.00
34	BA	91	C	O4'-C1'-N1	21.56	125.45	108.20
85	AA	1210	U	C6-N1-C2	-21.52	108.09	121.00
35	BB	1167	C	P-O3'-C3'	21.50	145.50	119.70
35	BB	3	C	O4'-C1'-N1	21.43	125.34	108.20
85	AA	744	C	C6-N1-C2	-21.42	111.73	120.30
34	BA	80	U	C2-N3-C4	-21.27	114.24	127.00
35	BB	795	A	P-O3'-C3'	21.27	145.22	119.70
85	AA	469	G	N7-C8-N9	-21.22	102.49	113.10
34	BA	871	G	C5-C6-O6	20.97	141.18	128.60
34	BA	532	C	C6-N1-C2	-20.92	111.93	120.30
34	BA	1307	U	P-O3'-C3'	20.89	144.77	119.70
34	BA	871	G	N1-C6-O6	-20.89	107.37	119.90
34	BA	605	G	N7-C8-N9	20.83	123.52	113.10
85	AA	4	C	C6-N1-C2	-20.70	112.02	120.30
34	BA	1488	C	C6-N1-C2	-20.69	112.02	120.30
85	AA	787	U	P-O5'-C5'	20.62	153.89	120.90
85	AA	902	A	P-O5'-C5'	20.58	153.82	120.90
41	BH	74	G	N1-C6-O6	20.54	132.23	119.90
34	BA	1422	A	P-O3'-C3'	20.54	144.35	119.70
35	BB	5	A	P-O5'-C5'	20.48	153.67	120.90
85	AA	710	A	P-O3'-C3'	20.47	144.26	119.70
85	AA	1458	G	N1-C6-O6	-20.42	107.65	119.90
85	AA	1018	G	P-O5'-C5'	20.42	153.57	120.90
34	BA	954	U	C2-N3-C4	-20.36	114.78	127.00
41	BH	74	G	C5-C6-O6	-20.33	116.40	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	936	C	C6-N1-C2	-20.30	112.18	120.30
85	AA	1535	C	C6-N1-C2	-20.27	112.19	120.30
34	BA	487	A	N1-C6-N6	-20.27	106.44	118.60
34	BA	827	A	P-O3'-C3'	20.27	144.02	119.70
34	BA	590	U	C2-N3-C4	-20.20	114.88	127.00
34	BA	896	U	C6-N1-C2	-20.20	108.88	121.00
35	BB	870	C	C6-N1-C2	-20.16	112.24	120.30
34	BA	315	U	P-O5'-C5'	20.15	153.14	120.90
85	AA	47	A	P-O3'-C3'	20.14	143.87	119.70
41	BH	128	G	C5-C6-O6	-20.14	116.51	128.60
85	AA	1090	A	P-O3'-C3'	20.11	143.84	119.70
85	AA	56	U	P-O3'-C3'	20.07	143.78	119.70
85	AA	1159	C	C6-N1-C2	-20.06	112.28	120.30
36	BC	148	C	P-O5'-C5'	20.02	152.93	120.90
35	BB	652	G	P-O3'-C3'	-19.93	95.79	119.70
36	BC	81	U	P-O5'-C5'	19.89	152.72	120.90
85	AA	2216	A	P-O3'-C3'	19.89	143.56	119.70
85	AA	1978	G	C5-C6-O6	-19.87	116.68	128.60
34	BA	961	C	C6-N1-C2	-19.78	112.39	120.30
34	BA	206	C	P-O3'-C3'	19.77	143.42	119.70
34	BA	769	U	P-O3'-C3'	19.73	143.38	119.70
38	BE	20	C	O4'-C1'-N1	19.48	123.78	108.20
34	BA	296	G	C5'-C4'-C3'	19.41	147.05	116.00
34	BA	162	G	N1-C6-O6	19.39	131.54	119.90
34	BA	712	C	P-O3'-C3'	19.38	142.96	119.70
34	BA	1202	G	N1-C6-O6	-19.27	108.34	119.90
40	BG	168	A	N1-C6-N6	-19.24	107.05	118.60
85	AA	1183	C	P-O3'-C3'	19.23	142.78	119.70
35	BB	1379	U	C2-N3-C4	-19.22	115.47	127.00
85	AA	523	U	P-O5'-C5'	19.21	151.64	120.90
85	AA	738	C	C6-N1-C2	-19.19	112.62	120.30
35	BB	1512	C	C6-N1-C2	-19.14	112.64	120.30
85	AA	2031	C	C6-N1-C2	-19.14	112.64	120.30
35	BB	894	A	P-O3'-C3'	19.13	142.66	119.70
35	BB	766	G	P-O5'-C5'	18.99	151.28	120.90
34	BA	625	U	P-O3'-C3'	18.93	142.42	119.70
85	AA	1396	C	P-O3'-C3'	18.91	142.39	119.70
34	BA	646	C	P-O3'-C3'	18.91	142.39	119.70
34	BA	557	U	C4'-C3'-O3'	18.86	150.71	113.00
85	AA	1208	C	P-O3'-C3'	18.82	142.28	119.70
85	AA	2022	A	N1-C6-N6	-18.81	107.31	118.60
34	BA	1494	G	N1-C6-O6	18.80	131.18	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	778	U	P-O3'-C3'	18.79	142.25	119.70
34	BA	1215	U	C2-N3-C4	-18.76	115.74	127.00
34	BA	711	C	P-O3'-C3'	18.75	142.21	119.70
34	BA	862	C	P-O3'-C3'	18.69	142.13	119.70
85	AA	1876	U	C2-N3-C4	-18.68	115.79	127.00
85	AA	674	U	C2-N3-C4	-18.67	115.80	127.00
85	AA	1067	G	P-O3'-C3'	18.66	142.09	119.70
34	BA	162	G	C5-C6-O6	-18.57	117.46	128.60
34	BA	896	U	C2-N1-C1'	18.54	139.95	117.70
40	BG	24	A	N1-C6-N6	-18.53	107.48	118.60
85	AA	1091	C	C6-N1-C2	-18.52	112.89	120.30
85	AA	267	U	C2-N1-C1'	-18.50	95.50	117.70
38	BE	183	C	C2-N1-C1'	18.50	139.15	118.80
85	AA	368	C	C6-N1-C2	-18.45	112.92	120.30
85	AA	1492	U	C6-N1-C2	-18.41	109.95	121.00
34	BA	870	C	O5'-P-OP1	-18.38	88.64	110.70
37	BD	95	G	C8-N9-C4	-18.38	99.05	106.40
34	BA	680	C	C6-N1-C2	-18.36	112.96	120.30
34	BA	591	G	P-O5'-C5'	18.36	150.27	120.90
35	BB	1439	U	C2-N3-C4	-18.29	116.03	127.00
40	BG	105	A	N1-C6-N6	-18.28	107.63	118.60
34	BA	214	A	N9-C4-C5	-18.20	98.52	105.80
34	BA	251	U	C2-N3-C4	-18.19	116.09	127.00
35	BB	5	A	C5'-C4'-C3'	18.18	145.09	116.00
40	BG	21	C	O4'-C1'-N1	18.17	122.74	108.20
35	BB	561	C	C1'-O4'-C4'	-18.15	95.38	109.90
36	BC	31	A	P-O3'-C3'	18.15	141.48	119.70
56	BW	87	TRP	CB-CG-CD2	-18.15	103.01	126.60
34	BA	214	A	N1-C2-N3	-18.04	120.28	129.30
85	AA	901	C	P-O3'-C3'	18.04	141.35	119.70
85	AA	327	G	O4'-C1'-N9	18.03	122.62	108.20
85	AA	1277	C	P-O3'-C3'	18.00	141.30	119.70
34	BA	1225	A	N1-C6-N6	-17.98	107.81	118.60
35	BB	59	U	P-O3'-C3'	17.97	141.26	119.70
85	AA	250	C	C6-N1-C2	-17.96	113.12	120.30
34	BA	629	G	C5-C6-O6	17.92	139.35	128.60
34	BA	588	C	P-O3'-C3'	17.91	141.20	119.70
34	BA	607	C	C6-N1-C2	-17.88	113.15	120.30
34	BA	1562	G	P-O3'-C3'	17.85	141.12	119.70
85	AA	207	G	O4'-C1'-N9	17.83	122.47	108.20
34	BA	797	A	P-O3'-C3'	17.83	141.10	119.70
85	AA	1825	A	P-O3'-C3'	17.78	141.04	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	882	G	P-O3'-C3'	17.78	141.03	119.70
34	BA	1222	C	C6-N1-C2	-17.77	113.19	120.30
34	BA	1204	U	P-O3'-C3'	17.75	140.99	119.70
34	BA	1700	C	C6-N1-C2	-17.74	113.20	120.30
85	AA	1514	A	P-O3'-C3'	17.73	140.98	119.70
34	BA	557	U	O4'-C1'-N1	17.73	122.38	108.20
34	BA	1005	C	C6-N1-C2	-17.73	113.21	120.30
35	BB	1063	C	C6-N1-C2	-17.71	113.22	120.30
34	BA	589	A	P-O3'-C3'	17.70	140.94	119.70
34	BA	1501	U	C2-N3-C4	-17.69	116.39	127.00
34	BA	1577	U	C2-N3-C4	-17.68	116.39	127.00
34	BA	1775	U	P-O3'-C3'	17.68	140.91	119.70
34	BA	528	C	C6-N1-C2	-17.66	113.24	120.30
34	BA	300	C	O4'-C1'-N1	17.63	122.30	108.20
34	BA	605	G	N3-C4-C5	-17.62	119.79	128.60
34	BA	7	U	C2-N3-C4	-17.60	116.44	127.00
85	AA	1454	U	P-O5'-C5'	17.57	149.02	120.90
40	BG	106	G	O4'-C1'-N9	17.54	122.23	108.20
35	BB	363	A	O4'-C1'-N9	17.54	122.23	108.20
34	BA	629	G	N1-C6-O6	-17.53	109.38	119.90
41	BH	128	G	P-O3'-C3'	17.51	140.72	119.70
34	BA	598	G	P-O5'-C5'	17.51	148.91	120.90
34	BA	1176	C	C6-N1-C2	-17.50	113.30	120.30
85	AA	1459	C	C6-N1-C2	-17.50	113.30	120.30
36	BC	81	U	P-O3'-C3'	17.47	140.66	119.70
34	BA	559	C	OP1-P-OP2	-17.44	93.44	119.60
38	BE	183	C	C6-N1-C1'	-17.44	99.88	120.80
85	AA	837	C	P-O3'-C3'	17.38	140.56	119.70
38	BE	103	C	P-O3'-C3'	17.37	140.55	119.70
35	BB	14	C	C6-N1-C2	-17.36	113.36	120.30
34	BA	800	G	C6-N1-C2	-17.34	114.69	125.10
34	BA	1724	G	C4-N9-C1'	-17.34	103.95	126.50
41	BH	48	G	P-O3'-C3'	17.34	140.50	119.70
34	BA	501	U	O4'-C1'-N1	17.33	122.06	108.20
34	BA	745	A	N1-C6-N6	-17.31	108.21	118.60
34	BA	1330	G	P-O3'-C3'	17.31	140.47	119.70
34	BA	1699	A	O4'-C1'-N9	17.30	122.04	108.20
35	BB	897	C	C6-N1-C2	-17.29	113.38	120.30
35	BB	683	U	C2-N3-C4	-17.28	116.63	127.00
41	BH	101	A	P-O5'-C5'	17.27	148.53	120.90
34	BA	281	C	P-O3'-C3'	17.27	140.42	119.70
85	AA	1789	C	P-O3'-C3'	17.26	140.41	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1604	A	P-O3'-C3'	17.23	140.38	119.70
40	BG	150	A	N1-C6-N6	17.22	128.93	118.60
38	BE	25	U	C2-N3-C4	-17.21	116.67	127.00
35	BB	25	A	N1-C6-N6	-17.18	108.29	118.60
85	AA	654	A	C5-C6-N6	17.13	137.41	123.70
35	BB	561	C	O4'-C1'-N1	17.12	121.90	108.20
34	BA	289	A	C4-C5-C6	-17.11	108.44	117.00
35	BB	1490	G	O4'-C1'-N9	17.11	121.89	108.20
34	BA	89	G	P-O3'-C3'	17.10	140.22	119.70
35	BB	1502	U	P-O3'-C3'	17.10	140.22	119.70
34	BA	1475	G	P-O3'-C3'	17.10	140.22	119.70
36	BC	31	A	O4'-C1'-N9	17.09	121.88	108.20
34	BA	122	U	C2-N3-C4	-17.09	116.75	127.00
85	AA	466	A	N3-C4-N9	-17.06	113.75	127.40
37	BD	48	G	C8-N9-C4	17.05	113.22	106.40
34	BA	1149	C	C6-N1-C2	-17.04	113.48	120.30
85	AA	556	C	C6-N1-C2	-17.01	113.49	120.30
85	AA	414	C	C6-N1-C2	-17.00	113.50	120.30
85	AA	509	C	P-O3'-C3'	16.99	140.09	119.70
36	BC	131	C	P-O5'-C5'	16.98	148.07	120.90
41	BH	72	G	P-O3'-C3'	16.98	140.08	119.70
34	BA	1656	A	C5-C6-N6	-16.98	110.12	123.70
34	BA	1282	G	C5-C6-O6	-16.95	118.43	128.60
34	BA	765	U	O4'-C1'-N1	16.95	121.76	108.20
34	BA	84	U	P-O3'-C3'	16.94	140.03	119.70
34	BA	1809	G	O4'-C1'-N9	16.94	121.75	108.20
34	BA	1506	C	P-O5'-C5'	16.93	147.99	120.90
41	BH	33	G	C5-C6-O6	-16.93	118.44	128.60
34	BA	1809	G	C1'-O4'-C4'	-16.91	96.37	109.90
35	BB	899	C	C6-N1-C2	-16.91	113.54	120.30
34	BA	1211	G	C8-N9-C4	-16.89	99.64	106.40
85	AA	115	U	C2-N3-C4	-16.88	116.87	127.00
40	BG	57	A	N1-C6-N6	16.87	128.72	118.60
34	BA	174	A	P-O3'-C3'	16.86	139.93	119.70
35	BB	784	C	P-O5'-C5'	16.84	147.84	120.90
85	AA	1691	U	P-O3'-C3'	16.83	139.90	119.70
85	AA	606	A	P-O3'-C3'	16.83	139.89	119.70
35	BB	868	C	C6-N1-C2	-16.82	113.57	120.30
85	AA	1455	C	P-O3'-C3'	-16.80	99.54	119.70
34	BA	1832	A	P-O5'-C5'	16.80	147.78	120.90
34	BA	597	C	P-O5'-C5'	16.80	147.78	120.90
38	BE	31	A	C5'-C4'-C3'	-16.79	89.14	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	641	C	P-O5'-C5'	16.78	147.75	120.90
34	BA	1636	C	P-O3'-C3'	16.77	139.83	119.70
38	BE	127	G	C4-N9-C1'	-16.74	104.73	126.50
34	BA	316	G	P-O5'-C5'	16.74	147.68	120.90
35	BB	870	C	P-O5'-C5'	16.73	147.67	120.90
85	AA	2058	C	C6-N1-C2	-16.73	113.61	120.30
85	AA	1134	G	C5-C6-O6	-16.72	118.57	128.60
38	BE	133	C	P-O3'-C3'	16.71	139.75	119.70
85	AA	603	C	P-O3'-C3'	16.71	139.76	119.70
85	AA	454	G	P-O3'-C3'	16.71	139.75	119.70
35	BB	1498	G	P-O3'-C3'	16.70	139.74	119.70
34	BA	141	G	N3-C2-N2	-16.69	108.22	119.90
85	AA	1421	U	P-O3'-C3'	16.68	139.71	119.70
39	BF	32	G	C5'-C4'-C3'	-16.68	89.32	116.00
85	AA	1271	U	P-O3'-C3'	16.67	139.70	119.70
85	AA	1107	A	P-O5'-C5'	16.66	147.55	120.90
41	BH	99	G	N1-C6-O6	-16.65	109.91	119.90
35	BB	1506	C	C6-N1-C2	-16.65	113.64	120.30
34	BA	1487	U	P-O3'-C3'	16.64	139.67	119.70
36	BC	125	A	P-O5'-C5'	16.62	147.49	120.90
34	BA	1696	G	P-O3'-C3'	16.61	139.64	119.70
35	BB	839	G	P-O5'-C5'	16.60	147.46	120.90
85	AA	1466	U	P-O3'-C3'	16.60	139.62	119.70
85	AA	136	U	P-O5'-C5'	16.59	147.44	120.90
35	BB	799	A	P-O3'-C3'	16.57	139.59	119.70
85	AA	862	U	C2-N1-C1'	-16.55	97.84	117.70
34	BA	312	U	C2-N3-C4	-16.55	117.07	127.00
36	BC	10	C	O4'-C1'-N1	16.52	121.42	108.20
34	BA	1319	A	P-O3'-C3'	16.48	139.48	119.70
34	BA	56	G	P-O3'-C3'	16.48	139.47	119.70
34	BA	1697	U	P-O3'-C3'	16.48	139.47	119.70
35	BB	1445	A	N1-C6-N6	-16.48	108.71	118.60
38	BE	190	U	P-O3'-C3'	16.44	139.43	119.70
34	BA	780	U	O4'-C1'-N1	16.40	121.32	108.20
38	BE	108	U	C5'-C4'-C3'	16.40	142.24	116.00
38	BE	117	A	N1-C2-N3	-16.39	121.10	129.30
34	BA	1443	U	P-O3'-C3'	16.38	139.35	119.70
35	BB	3	C	C6-N1-C2	-16.35	113.76	120.30
39	BF	33	C	P-O3'-C3'	16.33	139.30	119.70
34	BA	848	U	P-O3'-C3'	16.33	139.30	119.70
34	BA	1639	U	C6-N1-C2	-16.33	111.20	121.00
85	AA	860	C	C2-N1-C1'	-16.33	100.84	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	818	U	P-O3'-C3'	16.33	139.29	119.70
34	BA	91	C	C1'-O4'-C4'	-16.32	96.85	109.90
41	BH	33	G	N1-C6-O6	16.32	129.69	119.90
85	AA	1789	C	C5'-C4'-C3'	16.32	142.11	116.00
38	BE	9	C	P-O3'-C3'	16.32	139.28	119.70
86	AB	3	C	O4'-C1'-N1	16.32	121.25	108.20
85	AA	617	C	C6-N1-C2	-16.30	113.78	120.30
34	BA	813	C	C6-N1-C1'	16.30	140.36	120.80
35	BB	1102	U	O4'-C1'-N1	16.30	121.24	108.20
35	BB	1063	C	P-O3'-C3'	16.30	139.26	119.70
34	BA	685	C	P-O3'-C3'	-16.29	100.16	119.70
37	BD	70	C	C6-N1-C2	-16.27	113.79	120.30
35	BB	995	C	P-O5'-C5'	16.26	146.92	120.90
41	BH	85	C	P-O3'-C3'	16.26	139.21	119.70
85	AA	2004	U	P-O3'-C3'	16.26	139.21	119.70
34	BA	279	U	P-O3'-C3'	16.25	139.21	119.70
35	BB	981	A	P-O3'-C3'	16.24	139.19	119.70
39	BF	39	C	C6-N1-C2	-16.24	113.81	120.30
64	Be	70	ARG	NE-CZ-NH1	16.23	128.42	120.30
34	BA	743	A	N1-C6-N6	16.22	128.33	118.60
85	AA	1110	A	P-O5'-C5'	16.20	146.82	120.90
35	BB	472	C	C6-N1-C2	-16.18	113.83	120.30
35	BB	768	A	O4'-C1'-N9	16.18	121.15	108.20
85	AA	267	U	O4'-C1'-N1	16.18	121.14	108.20
38	BE	135	A	P-O3'-C3'	16.16	139.09	119.70
41	BH	102	C	O3'-P-O5'	16.15	134.68	104.00
37	BD	88	U	O4'-C1'-N1	16.14	121.11	108.20
35	BB	905	C	P-O3'-C3'	16.14	139.07	119.70
85	AA	360	C	P-O5'-C5'	16.13	146.71	120.90
34	BA	516	U	C5'-C4'-C3'	16.12	141.79	116.00
34	BA	1656	A	N1-C6-N6	16.12	128.27	118.60
85	AA	181	A	P-O3'-C3'	16.11	139.04	119.70
34	BA	156	U	P-O3'-C3'	16.08	139.00	119.70
85	AA	330	C	C2-N1-C1'	16.07	136.47	118.80
34	BA	1735	G	C5-C6-O6	-16.05	118.97	128.60
85	AA	1495	G	P-O5'-C5'	16.04	146.56	120.90
85	AA	1168	C	C6-N1-C2	-16.04	113.89	120.30
85	AA	1153	G	C5-C6-O6	-16.03	118.98	128.60
39	BF	21	C	P-O3'-C3'	-16.03	100.47	119.70
34	BA	1414	C	C6-N1-C2	-16.02	113.89	120.30
35	BB	1202	G	C5'-C4'-O4'	16.02	128.32	109.10
35	BB	4	C	P-O3'-C3'	16.01	138.91	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	99	G	C5-C6-O6	16.01	138.21	128.60
35	BB	1423	U	O4'-C1'-N1	16.00	121.00	108.20
37	BD	88	U	C1'-O4'-C4'	-15.98	97.11	109.90
86	AB	4	C	P-O3'-C3'	15.98	138.88	119.70
85	AA	913	U	P-O5'-C5'	15.98	146.47	120.90
85	AA	1211	C	P-O3'-C3'	-15.96	100.55	119.70
34	BA	214	A	C8-N9-C4	15.95	112.18	105.80
85	AA	708	G	P-O3'-C3'	15.95	138.84	119.70
34	BA	594	G	O4'-C1'-N9	15.93	120.94	108.20
40	BG	169	A	P-O3'-C3'	15.92	138.80	119.70
35	BB	822	G	C8-N9-C4	-15.90	100.04	106.40
38	BE	31	A	P-O5'-C5'	15.89	146.33	120.90
85	AA	1458	G	C5-C6-O6	15.89	138.14	128.60
40	BG	85	C	P-O3'-C3'	15.89	138.77	119.70
85	AA	760	U	O4'-C1'-N1	15.87	120.90	108.20
85	AA	895	C	O4'-C1'-N1	15.86	120.89	108.20
38	BE	127	G	N1-C6-O6	-15.86	110.39	119.90
34	BA	1614	G	C5-C6-O6	-15.85	119.09	128.60
34	BA	574	U	P-O3'-C3'	15.84	138.71	119.70
85	AA	117	C	C6-N1-C2	-15.84	113.96	120.30
85	AA	1562	U	P-O3'-C3'	15.84	138.71	119.70
36	BC	33	U	O4'-C1'-N1	15.84	120.87	108.20
35	BB	22	A	N1-C6-N6	-15.83	109.10	118.60
38	BE	207	G	C5-C6-O6	-15.82	119.11	128.60
34	BA	888	G	P-O5'-C5'	15.80	146.19	120.90
85	AA	830	A	P-O3'-C3'	15.77	138.62	119.70
85	AA	2063	C	P-O5'-C5'	15.77	146.12	120.90
85	AA	192	G	P-O3'-C3'	15.73	138.58	119.70
34	BA	740	A	C6-N1-C2	-15.72	109.17	118.60
85	AA	685	U	C6-N1-C2	-15.72	111.57	121.00
35	BB	878	G	P-O5'-C5'	15.71	146.04	120.90
35	BB	1507	U	O4'-C1'-N1	15.71	120.77	108.20
40	BG	171	A	O4'-C1'-N9	15.72	120.77	108.20
36	BC	38	U	C2-N3-C4	-15.70	117.58	127.00
35	BB	976	U	P-O3'-C3'	15.70	138.54	119.70
34	BA	3	G	C8-N9-C1'	15.70	147.41	127.00
38	BE	16	C	P-O5'-C5'	15.70	146.02	120.90
34	BA	743	A	C5-N7-C8	15.68	111.74	103.90
34	BA	568	G	P-O3'-C3'	15.67	138.51	119.70
34	BA	1485	U	P-O3'-C3'	15.67	138.51	119.70
34	BA	164	C	O4'-C1'-N1	15.64	120.72	108.20
34	BA	187	G	P-O3'-C3'	15.64	138.47	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	809	A	P-O5'-C5'	15.63	145.91	120.90
34	BA	1822	U	C2-N3-C4	-15.63	117.62	127.00
35	BB	685	G	P-O3'-C3'	15.63	138.45	119.70
34	BA	281	C	C6-N1-C2	-15.60	114.06	120.30
85	AA	821	U	C6-N1-C2	-15.59	111.64	121.00
34	BA	546	U	P-O3'-C3'	15.58	138.40	119.70
34	BA	209	A	C8-N9-C4	-15.58	99.57	105.80
85	AA	1662	U	P-O3'-C3'	15.56	138.37	119.70
34	BA	1795	A	P-O3'-C3'	15.55	138.36	119.70
37	BD	21	G	P-O3'-C3'	15.55	138.36	119.70
85	AA	1000	U	C2-N3-C4	-15.55	117.67	127.00
35	BB	901	U	O4'-C1'-N1	15.54	120.63	108.20
85	AA	1526	G	P-O3'-C3'	15.54	138.35	119.70
85	AA	1367	C	O4'-C1'-N1	15.54	120.63	108.20
35	BB	23	U	C2-N3-C4	-15.54	117.68	127.00
34	BA	372	U	C2-N1-C1'	-15.53	99.06	117.70
36	BC	13	U	C2-N3-C4	-15.53	117.68	127.00
36	BC	139	A	P-O3'-C3'	15.53	138.34	119.70
41	BH	81	U	P-O3'-C3'	15.52	138.32	119.70
35	BB	1231	U	P-O3'-C3'	15.52	138.32	119.70
85	AA	65	A	C5'-C4'-C3'	15.51	140.82	116.00
85	AA	1368	G	P-O5'-C5'	15.51	145.72	120.90
35	BB	1308	G	P-O3'-C3'	15.51	138.31	119.70
85	AA	488	G	P-O3'-C3'	15.48	138.27	119.70
40	BG	181	C	O4'-C1'-N1	15.45	120.56	108.20
34	BA	664	C	C6-N1-C2	-15.45	114.12	120.30
85	AA	504	U	P-O3'-C3'	15.43	138.22	119.70
85	AA	2127	G	C5-C6-O6	-15.43	119.34	128.60
85	AA	884	A	N1-C6-N6	-15.42	109.35	118.60
34	BA	185	A	P-O5'-C5'	15.40	145.55	120.90
85	AA	773	G	C5-C6-O6	-15.40	119.36	128.60
85	AA	174	U	P-O3'-C3'	15.39	138.16	119.70
34	BA	862	C	OP1-P-O3'	15.37	139.02	105.20
85	AA	2225	G	C5-C6-O6	-15.36	119.38	128.60
35	BB	1059	U	C2-N3-C4	-15.35	117.79	127.00
85	AA	1964	A	O4'-C1'-N9	15.32	120.46	108.20
34	BA	401	A	N1-C6-N6	-15.32	109.41	118.60
40	BG	174	G	C5-C6-O6	-15.32	119.41	128.60
85	AA	1116	G	N1-C6-O6	-15.31	110.71	119.90
34	BA	875	G	P-O5'-C5'	15.30	145.39	120.90
85	AA	150	U	C6-N1-C2	-15.30	111.82	121.00
35	BB	578	G	C5-C6-O6	-15.28	119.43	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1921	G	P-O5'-C5'	-15.28	96.46	120.90
41	BH	58	C	P-O3'-C3'	15.27	138.03	119.70
34	BA	692	U	P-O5'-C5'	15.26	145.31	120.90
36	BC	113	G	P-O5'-C5'	15.25	145.30	120.90
85	AA	286	C	C6-N1-C2	-15.24	114.20	120.30
35	BB	29	C	P-O3'-C3'	15.22	137.96	119.70
40	BG	113	G	P-O3'-C3'	15.21	137.95	119.70
34	BA	246	G	P-O3'-C3'	15.20	137.94	119.70
34	BA	1619	U	P-O3'-C3'	15.17	137.91	119.70
39	BF	63	U	P-O3'-C3'	15.16	137.89	119.70
35	BB	561	C	N3-C4-N4	15.16	128.61	118.00
34	BA	1723	U	O4'-C1'-N1	15.15	120.32	108.20
34	BA	1112	U	C2-N3-C4	-15.14	117.92	127.00
37	BD	93	G	N1-C6-O6	-15.14	110.82	119.90
85	AA	265	A	P-O3'-C3'	15.11	137.83	119.70
36	BC	108	A	P-O5'-C5'	15.10	145.06	120.90
34	BA	1138	C	C6-N1-C2	-15.10	114.26	120.30
85	AA	1533	C	C6-N1-C2	-15.10	114.26	120.30
85	AA	603	C	P-O5'-C5'	15.09	145.03	120.90
35	BB	314	A	P-O3'-C3'	15.06	137.78	119.70
34	BA	801	U	P-O5'-C5'	15.05	144.99	120.90
38	BE	24	G	O5'-P-OP2	-15.05	92.15	105.70
65	Bf	157	TRP	CB-CG-CD2	-15.05	107.03	126.60
41	BH	101	A	O5'-P-OP2	-15.05	92.16	105.70
34	BA	1790	U	P-O5'-C5'	15.04	144.97	120.90
34	BA	1626	U	C6-N1-C2	-15.04	111.98	121.00
35	BB	1044	U	P-O3'-C3'	15.04	137.75	119.70
85	AA	1735	U	C6-N1-C2	-15.03	111.98	121.00
85	AA	1235	G	C5-C6-O6	-15.03	119.58	128.60
85	AA	1275	A	P-O5'-C5'	15.03	144.94	120.90
77	Br	217	ARG	NE-CZ-NH1	15.02	127.81	120.30
85	AA	682	C	P-O3'-C3'	15.01	137.71	119.70
37	BD	94	C	C6-N1-C2	-15.01	114.30	120.30
39	BF	11	C	P-O3'-C3'	15.01	137.71	119.70
41	BH	104	U	C2-N3-C4	-15.01	118.00	127.00
35	BB	653	G	O4'-C1'-N9	15.00	120.20	108.20
35	BB	261	C	P-O3'-C3'	15.00	137.70	119.70
35	BB	1534	U	C2-N3-C4	-14.99	118.00	127.00
35	BB	431	U	C2-N1-C1'	-14.99	99.71	117.70
85	AA	1795	C	C6-N1-C2	-14.98	114.31	120.30
85	AA	252	G	P-O3'-C3'	14.98	137.67	119.70
85	AA	1896	G	P-O3'-C3'	14.96	137.66	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	267	U	P-O5'-C5'	14.96	144.84	120.90
34	BA	1732	A	C8-N9-C4	-14.96	99.82	105.80
35	BB	896	C	P-O3'-C3'	14.95	137.64	119.70
40	BG	150	A	C5-C6-N6	-14.94	111.75	123.70
40	BG	172	C	C2-N3-C4	-14.94	112.43	119.90
35	BB	975	G	P-O5'-C5'	14.93	144.79	120.90
41	BH	128	G	N1-C6-O6	14.93	128.86	119.90
85	AA	196	U	C2-N3-C4	-14.93	118.04	127.00
34	BA	800	G	C8-N9-C4	-14.91	100.43	106.40
34	BA	117	C	O4'-C1'-N1	14.91	120.13	108.20
34	BA	547	C	C4'-C3'-C2'	-14.91	87.69	102.60
35	BB	147	C	P-O3'-C3'	14.90	137.58	119.70
35	BB	1454	G	N1-C6-O6	14.90	128.84	119.90
85	AA	1921	G	C5'-C4'-O4'	-14.89	91.23	109.10
35	BB	816	U	C2-N3-C4	-14.88	118.07	127.00
66	Bg	96	PHE	CB-CG-CD2	-14.88	110.38	120.80
85	AA	859	G	C4-N9-C1'	-14.88	107.16	126.50
85	AA	1237	A	O4'-C1'-N9	14.87	120.10	108.20
85	AA	251	A	O4'-C1'-N9	14.87	120.10	108.20
85	AA	76	G	P-O3'-C3'	-14.87	101.86	119.70
37	BD	64	A	P-O5'-C5'	14.86	144.67	120.90
34	BA	1801	G	C5'-C4'-C3'	14.85	139.76	116.00
85	AA	1209	U	P-O5'-C5'	14.85	144.66	120.90
34	BA	1295	U	C5'-C4'-C3'	14.84	139.75	116.00
35	BB	561	C	C5-C4-N4	-14.84	109.81	120.20
38	BE	117	A	N9-C4-C5	-14.82	99.87	105.80
35	BB	68	G	P-O3'-C3'	14.82	137.48	119.70
34	BA	240	C	C6-N1-C2	-14.81	114.37	120.30
35	BB	778	A	C5'-C4'-C3'	-14.81	92.31	116.00
85	AA	1153	G	N1-C6-O6	14.80	128.78	119.90
38	BE	1	U	C2-N3-C4	-14.79	118.13	127.00
34	BA	1303	U	C2-N3-C4	-14.78	118.13	127.00
34	BA	1477	C	C1'-O4'-C4'	-14.78	98.07	109.90
85	AA	100	A	P-O5'-C5'	14.78	144.54	120.90
38	BE	100	U	O4'-C1'-N1	14.77	120.02	108.20
85	AA	743	C	P-O3'-C3'	14.77	137.43	119.70
34	BA	579	U	P-O3'-C3'	14.76	137.42	119.70
36	BC	116	C	P-O3'-C3'	14.76	137.41	119.70
85	AA	252	G	C5-C6-O6	-14.76	119.74	128.60
34	BA	471	U	N1-C2-O2	-14.76	112.47	122.80
34	BA	757	G	P-O3'-C3'	-14.76	101.99	119.70
34	BA	774	A	P-O5'-C5'	14.76	144.51	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1057	G	P-O3'-C3'	14.75	137.40	119.70
85	AA	1235	G	C6-N1-C2	-14.74	116.25	125.10
35	BB	651	G	P-O3'-C3'	14.74	137.38	119.70
35	BB	1464	G	N1-C6-O6	-14.74	111.06	119.90
34	BA	230	A	C5'-C4'-C3'	14.73	139.57	116.00
35	BB	973	G	P-O3'-C3'	14.73	137.38	119.70
35	BB	1024	G	C8-N9-C4	-14.73	100.51	106.40
85	AA	2218	G	C5'-C4'-C3'	14.73	139.56	116.00
85	AA	179	G	C5-C6-O6	-14.73	119.76	128.60
85	AA	1362	A	C5'-C4'-C3'	14.72	139.56	116.00
34	BA	865	C	O5'-P-OP2	-14.72	92.45	105.70
34	BA	593	G	P-O5'-C5'	14.72	144.45	120.90
85	AA	900	G	P-O3'-C3'	14.72	137.36	119.70
35	BB	1199	A	N1-C6-N6	-14.71	109.78	118.60
35	BB	1490	G	O4'-C4'-C3'	-14.70	89.30	104.00
85	AA	630	A	P-O3'-C3'	14.69	137.33	119.70
85	AA	374	C	O4'-C1'-N1	14.68	119.94	108.20
34	BA	587	U	C5'-C4'-C3'	-14.67	92.53	116.00
40	BG	169	A	O4'-C1'-N9	14.67	119.94	108.20
35	BB	764	C	C6-N1-C2	-14.66	114.44	120.30
85	AA	2119	C	C2-N3-C4	-14.65	112.58	119.90
85	AA	1016	G	P-O3'-C3'	14.59	137.21	119.70
34	BA	138	C	C6-N1-C2	-14.57	114.47	120.30
85	AA	469	G	C6-N1-C2	14.57	133.84	125.10
41	BH	47	G	N1-C6-O6	-14.57	111.16	119.90
85	AA	381	A	C5-C6-N6	14.56	135.35	123.70
85	AA	894	A	O4'-C1'-N9	14.56	119.85	108.20
34	BA	1724	G	N1-C6-O6	-14.56	111.17	119.90
85	AA	1465	C	C6-N1-C2	-14.55	114.48	120.30
35	BB	657	A	N1-C6-N6	-14.55	109.87	118.60
85	AA	2249	U	O4'-C1'-N1	14.54	119.83	108.20
41	BH	128	G	C8-N9-C4	14.53	112.21	106.40
85	AA	1035	C	O4'-C1'-N1	14.53	119.82	108.20
37	BD	84	U	C6-N1-C2	-14.52	112.29	121.00
34	BA	793	A	P-O5'-C5'	14.52	144.12	120.90
82	Bw	62	ARG	NE-CZ-NH1	14.50	127.55	120.30
34	BA	706	C	C6-N1-C2	-14.49	114.50	120.30
85	AA	997	U	C2-N3-C4	-14.48	118.31	127.00
85	AA	2121	G	C8-N9-C4	-14.47	100.61	106.40
34	BA	548	G	P-O5'-C5'	14.46	144.03	120.90
65	Bf	391	ARG	NE-CZ-NH1	14.46	127.53	120.30
34	BA	780	U	P-O5'-C5'	14.46	144.03	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	31	A	C5'-C4'-C3'	14.44	139.11	116.00
85	AA	599	C	P-O3'-C3'	14.44	137.02	119.70
85	AA	1989	A	P-O3'-C3'	14.43	137.02	119.70
49	BP	46	MET	CG-SD-CE	-14.42	77.12	100.20
34	BA	813	C	C2-N1-C1'	-14.41	102.94	118.80
34	BA	1425	G	O4'-C1'-N9	14.41	119.73	108.20
40	BG	16	G	N1-C6-O6	-14.41	111.25	119.90
38	BE	108	U	O4'-C1'-N1	14.41	119.73	108.20
41	BH	33	G	P-O3'-C3'	14.39	136.97	119.70
41	BH	32	U	C5'-C4'-C3'	-14.39	92.98	116.00
35	BB	957	A	P-O3'-C3'	14.38	136.96	119.70
36	BC	23	G	N1-C6-O6	-14.39	111.27	119.90
38	BE	25	U	P-O5'-C5'	14.38	143.91	120.90
85	AA	1860	A	P-O3'-C3'	14.38	136.96	119.70
36	BC	100	U	C2-N3-C4	-14.37	118.38	127.00
34	BA	690	G	P-O3'-C3'	14.37	136.94	119.70
54	BU	7	TYR	CB-CG-CD1	14.36	129.62	121.00
85	AA	1493	A	C4'-C3'-C2'	-14.36	88.24	102.60
85	AA	1923	A	C1'-O4'-C4'	-14.36	98.41	109.90
34	BA	1299	G	C8-N9-C1'	14.35	145.66	127.00
35	BB	68	G	C5-C6-O6	-14.35	119.99	128.60
40	BG	174	G	N1-C6-O6	14.35	128.51	119.90
34	BA	433	G	C5'-C4'-C3'	14.34	138.94	116.00
40	BG	84	U	C2-N3-C4	-14.34	118.40	127.00
34	BA	449	G	C4-N9-C1'	-14.33	107.87	126.50
85	AA	1539	A	P-O3'-C3'	14.33	136.90	119.70
85	AA	1960	C	C6-N1-C2	-14.32	114.57	120.30
35	BB	838	G	O5'-P-OP1	-14.31	92.82	105.70
85	AA	1718	C	P-O3'-C3'	14.31	136.87	119.70
85	AA	2107	C	C6-N1-C2	-14.30	114.58	120.30
34	BA	3	G	C4-N9-C1'	-14.30	107.91	126.50
41	BH	75	G	C5-C6-O6	-14.30	120.02	128.60
85	AA	26	A	P-O5'-C5'	14.30	143.78	120.90
35	BB	1436	U	P-O3'-C3'	14.30	136.85	119.70
35	BB	132	G	P-O3'-C3'	14.29	136.85	119.70
85	AA	745	C	P-O5'-C5'	14.29	143.76	120.90
85	AA	171	U	C6-N1-C2	-14.27	112.44	121.00
34	BA	1846	G	C6-N1-C2	-14.26	116.54	125.10
85	AA	895	C	C1'-O4'-C4'	-14.26	98.49	109.90
85	AA	766	G	C5'-C4'-C3'	-14.25	93.20	116.00
34	BA	570	G	O4'-C1'-N9	14.24	119.59	108.20
35	BB	1152	U	C2-N3-C4	-14.24	118.46	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	611	G	C5-C6-O6	-14.23	120.06	128.60
85	AA	1921	G	C8-N9-C1'	14.23	145.50	127.00
85	AA	1447	U	P-O3'-C3'	14.23	136.77	119.70
36	BC	33	U	P-O3'-C3'	14.22	136.77	119.70
34	BA	231	U	O3'-P-O5'	14.22	131.01	104.00
35	BB	995	C	P-O3'-C3'	14.22	136.76	119.70
34	BA	222	C	C6-N1-C1'	14.21	137.85	120.80
34	BA	1477	C	O4'-C1'-N1	14.21	119.56	108.20
40	BG	163	G	C5-C6-O6	-14.19	120.09	128.60
34	BA	1305	A	N1-C6-N6	-14.18	110.09	118.60
34	BA	858	C	C6-N1-C2	-14.18	114.63	120.30
85	AA	108	C	O4'-C1'-N1	14.18	119.54	108.20
85	AA	1978	G	N1-C6-O6	14.18	128.41	119.90
34	BA	871	G	O4'-C1'-N9	14.17	119.54	108.20
34	BA	896	U	C4'-C3'-C2'	-14.17	88.43	102.60
38	BE	20	C	C1'-O4'-C4'	-14.16	98.57	109.90
34	BA	1486	U	C2-N1-C1'	-14.16	100.71	117.70
40	BG	122	G	C5-C6-O6	-14.15	120.11	128.60
34	BA	513	U	N3-C2-O2	-14.14	112.30	122.20
34	BA	515	U	P-O5'-C5'	14.14	143.52	120.90
34	BA	1200	U	O4'-C1'-N1	14.13	119.51	108.20
34	BA	1299	G	C4-N9-C1'	-14.13	108.13	126.50
85	AA	1797	U	C2-N3-C4	-14.13	118.52	127.00
34	BA	215	C	C6-N1-C2	-14.12	114.65	120.30
38	BE	155	C	O4'-C1'-N1	14.12	119.49	108.20
38	BE	170	U	P-O3'-C3'	-14.12	102.76	119.70
38	BE	91	G	C4-N9-C1'	-14.11	108.15	126.50
38	BE	111	C	P-O3'-C3'	14.11	136.63	119.70
34	BA	484	A	P-O3'-C3'	14.10	136.62	119.70
85	AA	861	G	P-O3'-C3'	14.10	136.62	119.70
35	BB	802	G	O4'-C1'-N9	14.10	119.48	108.20
34	BA	683	C	C6-N1-C2	-14.09	114.66	120.30
36	BC	110	A	P-O3'-C3'	14.09	136.60	119.70
38	BE	202	C	O4'-C1'-N1	14.09	119.47	108.20
34	BA	211	C	C6-N1-C2	-14.09	114.67	120.30
34	BA	546	U	P-O5'-C5'	14.08	143.43	120.90
38	BE	117	A	C8-N9-C1'	-14.08	102.35	127.70
38	BE	107	U	C5'-C4'-C3'	-14.08	93.47	116.00
38	BE	207	G	N1-C6-O6	14.07	128.34	119.90
85	AA	1235	G	N1-C6-O6	14.07	128.34	119.90
35	BB	1201	G	C4'-C3'-C2'	-14.06	88.54	102.60
34	BA	1318	G	O4'-C1'-N9	14.06	119.45	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	269	G	P-O5'-C5'	14.06	143.40	120.90
85	AA	1373	U	C6-N1-C2	-14.06	112.56	121.00
85	AA	1644	G	C8-N9-C4	-14.06	100.78	106.40
85	AA	1959	G	C5-C6-O6	-14.06	120.17	128.60
85	AA	1466	U	C5'-C4'-C3'	14.06	138.49	116.00
36	BC	33	U	C5'-C4'-C3'	-14.05	93.52	116.00
38	BE	107	U	P-O5'-C5'	14.05	143.37	120.90
85	AA	65	A	P-O5'-C5'	14.05	143.37	120.90
35	BB	1251	G	C4-N9-C1'	-14.04	108.25	126.50
85	AA	1011	G	P-O3'-C3'	14.04	136.55	119.70
34	BA	1205	A	N1-C6-N6	-14.04	110.18	118.60
34	BA	847	U	O4'-C1'-N1	14.04	119.43	108.20
34	BA	205	G	C5-C6-O6	-14.03	120.18	128.60
35	BB	1283	C	C6-N1-C2	-14.03	114.69	120.30
85	AA	1238	U	C2-N3-C4	-14.03	118.58	127.00
40	BG	64	C	C6-N1-C2	-14.03	114.69	120.30
40	BG	78	C	C6-N1-C2	-14.02	114.69	120.30
40	BG	25	G	O4'-C1'-N9	14.01	119.41	108.20
85	AA	1473	U	P-O3'-C3'	14.01	136.51	119.70
39	BF	38	C	C6-N1-C2	-14.01	114.70	120.30
35	BB	1503	U	P-O3'-C3'	14.00	136.50	119.70
34	BA	1299	G	C4-C5-C6	-14.00	110.40	118.80
85	AA	314	C	P-O5'-C5'	14.00	143.30	120.90
34	BA	507	U	C5'-C4'-C3'	13.99	138.38	116.00
51	BR	56	ARG	NE-CZ-NH1	13.99	127.30	120.30
38	BE	208	G	P-O3'-C3'	13.98	136.48	119.70
38	BE	26	G	O5'-P-OP2	-13.98	93.12	105.70
34	BA	1565	U	C5'-C4'-C3'	13.97	138.36	116.00
34	BA	1816	G	C5-C6-O6	-13.97	120.22	128.60
85	AA	486	G	C4-N9-C1'	-13.96	108.35	126.50
85	AA	280	U	P-O3'-C3'	13.96	136.46	119.70
34	BA	1699	A	N1-C6-N6	-13.95	110.23	118.60
85	AA	1292	A	N1-C6-N6	13.95	126.97	118.60
85	AA	1701	G	N3-C2-N2	-13.95	110.13	119.90
34	BA	605	G	C6-N1-C2	-13.94	116.74	125.10
35	BB	529	A	N1-C6-N6	13.94	126.96	118.60
34	BA	472	G	C4-N9-C1'	13.94	144.62	126.50
85	AA	1535	C	O4'-C1'-N1	13.93	119.34	108.20
35	BB	60	A	P-O3'-C3'	13.93	136.41	119.70
34	BA	556	A	P-O3'-C3'	-13.92	103.00	119.70
34	BA	685	C	O4'-C1'-N1	13.92	119.33	108.20
34	BA	896	U	C6-N1-C1'	-13.91	101.73	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1894	G	C5-C6-O6	-13.90	120.26	128.60
34	BA	1566	G	C5-C6-O6	-13.89	120.26	128.60
38	BE	72	C	P-O5'-C5'	13.88	143.11	120.90
85	AA	1759	U	P-O3'-C3'	13.88	136.35	119.70
34	BA	665	C	C6-N1-C2	-13.87	114.75	120.30
34	BA	765	U	C6-N1-C2	-13.87	112.68	121.00
85	AA	388	G	P-O3'-C3'	13.87	136.34	119.70
35	BB	1512	C	O4'-C1'-N1	13.86	119.29	108.20
36	BC	84	U	P-O3'-C3'	13.85	136.32	119.70
34	BA	687	G	P-O3'-C3'	13.85	136.32	119.70
34	BA	238	C	C6-N1-C2	-13.85	114.76	120.30
36	BC	80	A	P-O3'-C3'	13.84	136.31	119.70
35	BB	2	C	O5'-C5'-C4'	-13.84	85.41	111.70
34	BA	618	G	C8-N9-C1'	13.83	144.98	127.00
34	BA	605	G	C5'-C4'-C3'	-13.83	93.88	116.00
34	BA	8	G	C4-N9-C1'	-13.82	108.53	126.50
34	BA	828	A	N1-C6-N6	-13.82	110.31	118.60
85	AA	25	C	P-O3'-C3'	13.82	136.28	119.70
85	AA	628	C	C6-N1-C2	-13.82	114.77	120.30
34	BA	1181	G	P-O5'-C5'	13.81	143.00	120.90
35	BB	1393	C	P-O3'-C3'	13.81	136.27	119.70
34	BA	756	A	P-O5'-C5'	13.81	142.99	120.90
86	AB	56	C	P-O3'-C3'	13.80	136.26	119.70
34	BA	866	C	O4'-C1'-N1	13.80	119.24	108.20
35	BB	622	G	C5-C6-O6	-13.80	120.32	128.60
34	BA	1200	U	P-O3'-C3'	13.79	136.25	119.70
40	BG	163	G	N1-C6-O6	13.79	128.17	119.90
41	BH	27	A	P-O3'-C3'	13.79	136.24	119.70
35	BB	824	C	O4'-C1'-N1	13.78	119.23	108.20
34	BA	488	C	P-O3'-C3'	13.77	136.23	119.70
85	AA	1654	G	C5-C6-O6	-13.77	120.34	128.60
34	BA	804	G	N1-C6-O6	-13.76	111.64	119.90
35	BB	1317	U	C2-N3-C4	-13.76	118.74	127.00
36	BC	86	U	O4'-C1'-N1	13.76	119.21	108.20
85	AA	1824	G	P-O3'-C3'	13.76	136.21	119.70
34	BA	1493	U	O4'-C1'-N1	13.75	119.20	108.20
85	AA	1355	U	C5'-C4'-C3'	13.74	137.99	116.00
85	AA	313	A	C4-C5-C6	-13.74	110.13	117.00
35	BB	878	G	C5'-C4'-C3'	13.74	137.98	116.00
34	BA	1282	G	N1-C6-O6	13.73	128.13	119.90
35	BB	798	A	N1-C6-N6	13.72	126.83	118.60
34	BA	796	G	C5-C6-O6	-13.72	120.37	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	546	A	C5-C6-N6	-13.71	112.73	123.70
45	BL	56	ARG	NE-CZ-NH1	13.71	127.16	120.30
85	AA	985	G	C5'-C4'-C3'	-13.71	94.07	116.00
85	AA	1898	C	P-O3'-C3'	13.69	136.13	119.70
34	BA	1052	G	P-O3'-C3'	13.69	136.13	119.70
85	AA	2197	A	C5'-C4'-C3'	13.68	137.89	116.00
34	BA	1634	A	P-O3'-C3'	13.67	136.11	119.70
35	BB	380	G	P-O3'-C3'	13.67	136.10	119.70
85	AA	1976	G	C5'-C4'-C3'	-13.66	94.14	116.00
41	BH	116	A	P-O3'-C3'	13.65	136.08	119.70
34	BA	189	G	C5'-C4'-C3'	-13.65	94.16	116.00
85	AA	1440	C	P-O3'-C3'	13.63	136.06	119.70
35	BB	1532	C	C2-N1-C1'	-13.63	103.81	118.80
85	AA	185	A	P-O5'-C5'	13.63	142.70	120.90
85	AA	2001	C	P-O3'-C3'	13.63	136.06	119.70
34	BA	572	G	P-O3'-C3'	13.62	136.05	119.70
85	AA	273	C	C6-N1-C2	-13.62	114.85	120.30
85	AA	991	G	C5-C6-O6	-13.62	120.43	128.60
7	A6	163	PHE	CB-CG-CD2	-13.61	111.27	120.80
35	BB	54	U	C2-N3-C4	-13.61	118.83	127.00
37	BD	48	G	C5-C6-O6	-13.61	120.43	128.60
85	AA	755	G	C8-N9-C4	-13.60	100.96	106.40
35	BB	1202	G	C1'-O4'-C4'	-13.60	99.02	109.90
85	AA	924	A	C5'-C4'-C3'	-13.60	94.24	116.00
85	AA	1301	C	C2-N3-C4	-13.59	113.11	119.90
85	AA	1457	C	C6-N1-C2	-13.58	114.87	120.30
35	BB	964	G	C4-N9-C1'	-13.57	108.86	126.50
85	AA	1716	U	P-O3'-C3'	13.56	135.97	119.70
34	BA	930	A	N1-C6-N6	-13.56	110.47	118.60
38	BE	29	C	C6-N1-C2	-13.55	114.88	120.30
34	BA	800	G	C5-C6-O6	-13.55	120.47	128.60
34	BA	111	U	P-O3'-C3'	13.54	135.95	119.70
85	AA	859	G	C8-N9-C1'	13.54	144.61	127.00
85	AA	730	G	C6-N1-C2	-13.54	116.98	125.10
35	BB	1492	C	C6-N1-C1'	13.54	137.04	120.80
85	AA	58	C	P-O3'-C3'	13.53	135.94	119.70
85	AA	854	A	C5'-C4'-O4'	13.53	125.34	109.10
40	BG	13	A	P-O3'-C3'	13.53	135.93	119.70
34	BA	1440	C	C5'-C4'-C3'	-13.52	94.37	116.00
35	BB	1150	A	N1-C6-N6	-13.52	110.49	118.60
27	AT	111	ARG	NE-CZ-NH2	13.52	127.06	120.30
34	BA	334	G	N1-C6-O6	-13.52	111.79	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	31	G	C5-C6-O6	-13.52	120.49	128.60
34	BA	429	G	C6-C5-N7	-13.51	122.30	130.40
35	BB	1359	G	C5-C6-O6	-13.51	120.50	128.60
34	BA	1676	A	P-O5'-C5'	13.50	142.50	120.90
34	BA	1055	U	C2-N3-C4	-13.50	118.90	127.00
34	BA	131	A	P-O3'-C3'	13.49	135.90	119.70
39	BF	16	C	P-O5'-C5'	13.49	142.49	120.90
34	BA	1217	A	P-O5'-C5'	13.49	142.49	120.90
37	BD	14	C	P-O5'-C5'	13.49	142.49	120.90
85	AA	1886	U	P-O3'-C3'	13.49	135.89	119.70
85	AA	165	C	P-O5'-C5'	-13.49	99.32	120.90
85	AA	930	G	C5-C6-O6	-13.48	120.51	128.60
85	AA	1022	G	P-O3'-C3'	13.48	135.88	119.70
85	AA	2117	U	C2-N3-C4	-13.48	118.91	127.00
34	BA	1561	C	O5'-P-OP1	-13.47	93.58	105.70
38	BE	108	U	O4'-C4'-C3'	-13.47	90.53	104.00
34	BA	1478	G	C5'-C4'-C3'	13.46	137.54	116.00
34	BA	572	G	C8-N9-C4	-13.46	101.02	106.40
34	BA	874	G	C5-C6-O6	-13.46	120.53	128.60
34	BA	1227	U	C5'-C4'-C3'	13.46	137.53	116.00
85	AA	740	A	N1-C6-N6	-13.45	110.53	118.60
38	BE	136	G	C5-C6-O6	-13.44	120.54	128.60
85	AA	23	G	P-O3'-C3'	13.44	135.83	119.70
85	AA	807	A	O4'-C1'-N9	13.44	118.95	108.20
41	BH	129	G	C5'-C4'-C3'	-13.43	94.51	116.00
34	BA	1003	A	C4'-C3'-C2'	13.42	116.02	102.60
85	AA	569	A	N1-C6-N6	-13.42	110.55	118.60
34	BA	1592	U	C5'-C4'-C3'	-13.42	94.53	116.00
85	AA	1482	C	C6-N1-C2	-13.42	114.93	120.30
85	AA	1756	C	C6-N1-C2	-13.41	114.94	120.30
34	BA	1735	G	N9-C4-C5	-13.39	100.04	105.40
85	AA	881	C	C6-N1-C2	-13.38	114.95	120.30
39	BF	51	C	C6-N1-C2	-13.38	114.95	120.30
34	BA	665	C	C6-N1-C1'	13.38	136.85	120.80
34	BA	674	G	C1'-O4'-C4'	-13.37	99.20	109.90
35	BB	487	A	C5'-C4'-C3'	13.37	137.40	116.00
34	BA	559	C	P-O3'-C3'	13.37	135.75	119.70
38	BE	195	G	C5-C6-N1	13.36	118.18	111.50
38	BE	147	G	C5-C6-O6	-13.36	120.59	128.60
38	BE	95	G	N1-C6-O6	-13.35	111.89	119.90
85	AA	1469	G	P-O3'-C3'	13.34	135.71	119.70
34	BA	548	G	C5'-C4'-C3'	13.33	137.33	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2234	C	P-O5'-C5'	13.33	142.22	120.90
35	BB	578	G	N1-C6-O6	13.32	127.89	119.90
34	BA	1538	G	O3'-P-O5'	13.32	129.31	104.00
35	BB	353	G	P-O3'-C3'	13.32	135.68	119.70
54	BU	7	TYR	CB-CG-CD2	-13.32	113.01	121.00
85	AA	1728	G	P-O3'-C3'	13.32	135.69	119.70
85	AA	2078	A	P-O3'-C3'	13.32	135.69	119.70
86	AB	56	C	C6-N1-C2	-13.32	114.97	120.30
57	BX	82	PHE	CB-CG-CD1	13.31	130.12	120.80
85	AA	179	G	N1-C6-O6	13.31	127.88	119.90
85	AA	1991	C	C6-N1-C2	-13.31	114.98	120.30
35	BB	837	A	P-O5'-C5'	13.30	142.18	120.90
38	BE	27	A	N1-C6-N6	13.30	126.58	118.60
39	BF	33	C	O3'-P-O5'	13.30	129.26	104.00
85	AA	2074	G	P-O3'-C3'	13.30	135.66	119.70
85	AA	805	A	O4'-C1'-N9	13.29	118.83	108.20
85	AA	569	A	O4'-C1'-N9	13.28	118.83	108.20
35	BB	1025	A	O4'-C1'-N9	13.28	118.82	108.20
34	BA	757	G	C3'-C2'-C1'	-13.28	90.88	101.50
85	AA	509	C	O4'-C1'-N1	13.28	118.82	108.20
34	BA	453	A	C5'-C4'-C3'	-13.26	94.78	116.00
34	BA	673	U	C5'-C4'-C3'	13.26	137.22	116.00
17	AI	104	TYR	CB-CG-CD2	-13.26	113.05	121.00
35	BB	1227	G	P-O3'-C3'	13.25	135.60	119.70
85	AA	308	U	P-O3'-C3'	-13.25	103.80	119.70
34	BA	777	C	P-O3'-C3'	13.25	135.59	119.70
41	BH	24	U	C1'-O4'-C4'	-13.24	99.31	109.90
37	BD	82	G	C4-N9-C1'	-13.24	109.28	126.50
85	AA	1878	C	C6-N1-C2	-13.24	115.00	120.30
34	BA	972	C	P-O3'-C3'	13.24	135.59	119.70
35	BB	1480	G	C4-N9-C1'	-13.24	109.29	126.50
35	BB	818	U	C2-N1-C1'	-13.23	101.82	117.70
34	BA	561	U	O3'-P-O5'	13.23	129.13	104.00
37	BD	87	G	C4-N9-C1'	-13.23	109.30	126.50
38	BE	104	G	O4'-C1'-N9	13.22	118.78	108.20
35	BB	405	U	C2-N3-C4	-13.21	119.07	127.00
40	BG	1	G	C5-C6-O6	-13.21	120.67	128.60
34	BA	83	G	O4'-C1'-N9	13.21	118.77	108.20
35	BB	1052	G	C5-C6-O6	-13.21	120.67	128.60
34	BA	1320	A	C4-C5-C6	-13.21	110.39	117.00
41	BH	28	U	C2-N3-C4	-13.21	119.07	127.00
36	BC	124	A	C5-C6-N6	-13.21	113.13	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	30	C	C1'-O4'-C4'	-13.21	99.34	109.90
56	BW	44	TYR	CB-CG-CD2	-13.20	113.08	121.00
41	BH	113	G	C5-C6-O6	-13.20	120.68	128.60
85	AA	2150	G	C8-N9-C1'	13.19	144.15	127.00
38	BE	195	G	C6-N1-C2	-13.19	117.19	125.10
35	BB	1226	G	C5-C6-O6	-13.18	120.69	128.60
34	BA	674	G	O4'-C1'-N9	13.17	118.74	108.20
34	BA	7	U	C2-N1-C1'	-13.17	101.90	117.70
34	BA	1454	G	P-O3'-C3'	13.16	135.50	119.70
85	AA	1900	C	O5'-P-OP1	-13.16	93.85	105.70
34	BA	1202	G	C5-C6-O6	13.16	136.50	128.60
40	BG	9	G	C4-N9-C1'	-13.16	109.39	126.50
34	BA	1723	U	O4'-C1'-C2'	-13.16	92.64	105.80
85	AA	830	A	C5'-C4'-C3'	13.16	137.05	116.00
85	AA	84	C	C5'-C4'-C3'	-13.15	94.96	116.00
85	AA	1911	A	P-O3'-C3'	13.14	135.47	119.70
34	BA	692	U	C5'-C4'-O4'	13.14	124.87	109.10
34	BA	1052	G	C5-C6-O6	-13.14	120.72	128.60
41	BH	22	A	P-O3'-C3'	13.14	135.47	119.70
34	BA	1787	U	O3'-P-O5'	13.14	128.96	104.00
36	BC	111	C	P-O5'-C5'	13.13	141.91	120.90
85	AA	850	U	C5'-C4'-C3'	-13.12	95.00	116.00
34	BA	1792	U	C2-N1-C1'	-13.12	101.96	117.70
20	AL	29	TYR	CB-CG-CD1	13.12	128.87	121.00
34	BA	289	A	O3'-P-O5'	13.12	128.92	104.00
34	BA	1792	U	C6-N1-C1'	13.12	139.56	121.20
85	AA	1287	C	C6-N1-C2	-13.12	115.05	120.30
34	BA	605	G	C8-N9-C1'	-13.12	109.95	127.00
35	BB	1464	G	C5-C6-O6	13.11	136.47	128.60
34	BA	260	A	P-O3'-C3'	-13.10	103.98	119.70
34	BA	599	U	C5'-C4'-O4'	13.10	124.82	109.10
85	AA	2058	C	C3'-C2'-C1'	-13.10	91.02	101.50
34	BA	171	U	C2-N3-C4	-13.09	119.15	127.00
35	BB	875	G	C5'-C4'-C3'	13.08	136.93	116.00
38	BE	85	G	C4-N9-C1'	-13.08	109.49	126.50
38	BE	91	G	C5-C6-O6	-13.08	120.75	128.60
41	BH	30	C	O4'-C1'-N1	13.08	118.66	108.20
85	AA	608	A	C1'-O4'-C4'	-13.07	99.44	109.90
34	BA	1334	G	C5-C6-O6	-13.07	120.76	128.60
40	BG	170	G	O4'-C1'-N9	13.06	118.65	108.20
37	BD	95	G	N3-C4-C5	-13.04	122.08	128.60
34	BA	1480	C	P-O3'-C3'	13.04	135.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	772	U	P-O5'-C5'	13.03	141.75	120.90
36	BC	141	C	P-O5'-C5'	13.03	141.75	120.90
85	AA	2122	A	C8-N9-C4	-13.03	100.59	105.80
34	BA	1005	C	P-O3'-C3'	-13.03	104.07	119.70
85	AA	709	A	P-O3'-C3'	-13.02	104.07	119.70
35	BB	1229	A	P-O5'-C5'	13.02	141.73	120.90
34	BA	399	G	N1-C6-O6	13.01	127.71	119.90
34	BA	13	U	P-O5'-C5'	13.01	141.71	120.90
34	BA	683	C	P-O3'-C3'	13.01	135.31	119.70
34	BA	1294	C	C1'-O4'-C4'	-13.00	99.50	109.90
34	BA	515	U	O3'-P-O5'	12.99	128.69	104.00
38	BE	136	G	P-O5'-C5'	12.99	141.69	120.90
85	AA	469	G	N3-C4-C5	-12.99	122.11	128.60
35	BB	546	A	N1-C6-N6	12.99	126.39	118.60
34	BA	222	C	C2-N1-C1'	-12.98	104.52	118.80
34	BA	1211	G	N1-C6-O6	12.98	127.69	119.90
34	BA	1211	G	C5-C6-O6	-12.97	120.81	128.60
40	BG	98	A	C5'-C4'-C3'	-12.97	95.25	116.00
34	BA	1735	G	C6-C5-N7	-12.97	122.62	130.40
85	AA	605	A	N1-C6-N6	12.96	126.38	118.60
35	BB	802	G	C5'-C4'-C3'	-12.96	95.26	116.00
35	BB	802	G	C4'-C3'-C2'	-12.96	89.64	102.60
34	BA	535	G	N1-C6-O6	-12.95	112.13	119.90
34	BA	547	C	C4'-C3'-O3'	12.95	138.90	113.00
85	AA	44	C	C6-N1-C2	-12.95	115.12	120.30
34	BA	1716	A	O4'-C1'-N9	12.94	118.55	108.20
34	BA	563	A	N1-C6-N6	-12.94	110.84	118.60
34	BA	606	G	P-O5'-C5'	12.93	141.59	120.90
36	BC	139	A	C8-N9-C4	-12.93	100.63	105.80
34	BA	1724	G	C5'-C4'-C3'	12.93	136.68	116.00
34	BA	1505	G	P-O3'-C3'	12.92	135.20	119.70
85	AA	469	G	C4-C5-C6	-12.92	111.05	118.80
30	AW	48	TYR	CB-CG-CD2	-12.92	113.25	121.00
34	BA	305	C	P-O5'-C5'	12.91	141.56	120.90
35	BB	1492	C	C2-N1-C1'	-12.91	104.59	118.80
34	BA	1649	A	C5'-C4'-C3'	-12.91	95.34	116.00
85	AA	68	A	P-O3'-C3'	-12.90	104.22	119.70
35	BB	1187	G	N3-C2-N2	-12.90	110.87	119.90
36	BC	123	G	C5-C6-O6	-12.90	120.86	128.60
85	AA	97	A	C8-N9-C4	12.90	110.96	105.80
34	BA	1792	U	C6-N1-C2	-12.89	113.27	121.00
85	AA	327	G	C4-N9-C1'	12.89	143.26	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	468	A	P-O3'-C3'	12.89	135.16	119.70
34	BA	388	A	P-O3'-C3'	12.88	135.16	119.70
35	BB	440	U	C2-N3-C4	-12.88	119.28	127.00
34	BA	1297	G	C5-C6-O6	-12.86	120.88	128.60
34	BA	303	C	P-O3'-C3'	12.86	135.13	119.70
35	BB	365	U	P-O5'-C5'	12.86	141.47	120.90
35	BB	831	C	C5'-C4'-C3'	-12.85	95.44	116.00
85	AA	514	U	P-O5'-C5'	12.85	141.46	120.90
34	BA	618	G	C4-N9-C1'	-12.84	109.80	126.50
34	BA	1068	C	C6-N1-C2	-12.84	115.16	120.30
34	BA	680	C	P-O3'-C3'	12.84	135.11	119.70
35	BB	957	A	O3'-P-O5'	-12.84	79.60	104.00
60	Ba	50	ARG	NE-CZ-NH1	12.84	126.72	120.30
85	AA	1374	A	P-O5'-C5'	12.84	141.44	120.90
85	AA	2196	G	C8-N9-C1'	12.84	143.69	127.00
34	BA	219	U	P-O3'-C3'	-12.84	104.30	119.70
34	BA	1570	C	C6-N1-C2	-12.84	115.17	120.30
85	AA	1505	G	N1-C6-O6	-12.83	112.20	119.90
85	AA	368	C	C2-N3-C4	-12.82	113.49	119.90
34	BA	557	U	C1'-O4'-C4'	-12.81	99.65	109.90
35	BB	1472	U	P-O3'-C3'	12.81	135.07	119.70
34	BA	559	C	O5'-P-OP1	12.81	126.07	110.70
41	BH	63	G	C5-C6-O6	-12.81	120.92	128.60
34	BA	10	G	C4-N9-C1'	-12.80	109.86	126.50
79	Bt	16	ARG	NE-CZ-NH1	12.80	126.70	120.30
38	BE	82	C	O4'-C1'-N1	12.79	118.44	108.20
85	AA	1955	U	P-O3'-C3'	-12.79	104.35	119.70
34	BA	323	C	O4'-C1'-N1	12.79	118.43	108.20
85	AA	2237	G	N1-C6-O6	-12.79	112.22	119.90
35	BB	1124	G	C5-C6-O6	-12.79	120.93	128.60
85	AA	2150	G	C4-N9-C1'	-12.79	109.88	126.50
35	BB	384	A	C5'-C4'-C3'	-12.79	95.54	116.00
85	AA	84	C	C6-N1-C2	-12.78	115.19	120.30
35	BB	1203	C	O4'-C1'-N1	12.76	118.41	108.20
36	BC	157	U	P-O3'-C3'	12.76	135.01	119.70
34	BA	1110	A	P-O3'-C3'	12.75	135.00	119.70
85	AA	615	A	P-O5'-C5'	12.75	141.31	120.90
34	BA	1723	U	C6-N1-C2	-12.75	113.35	121.00
36	BC	129	C	O4'-C1'-N1	12.74	118.39	108.20
85	AA	252	G	N1-C6-O6	12.74	127.55	119.90
86	AB	62	C	C6-N1-C2	-12.74	115.20	120.30
65	Bf	406	ARG	NE-CZ-NH1	12.74	126.67	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1204	A	N1-C6-N6	-12.74	110.96	118.60
34	BA	584	A	C5'-C4'-C3'	12.73	136.37	116.00
36	BC	23	G	C5'-C4'-C3'	-12.73	95.63	116.00
85	AA	471	U	C2-N3-C4	-12.72	119.36	127.00
38	BE	25	U	C2-N1-C1'	-12.72	102.44	117.70
34	BA	556	A	N1-C6-N6	12.71	126.23	118.60
36	BC	31	A	C1'-O4'-C4'	-12.71	99.73	109.90
85	AA	589	A	O4'-C1'-N9	12.71	118.37	108.20
85	AA	370	A	C5'-C4'-C3'	12.70	136.32	116.00
38	BE	174	U	C6-N1-C2	-12.69	113.39	121.00
85	AA	1684	U	O4'-C1'-N1	12.69	118.35	108.20
34	BA	842	U	C2-N3-C4	-12.69	119.39	127.00
37	BD	69	U	C2-N3-C4	-12.69	119.39	127.00
85	AA	1102	C	P-O3'-C3'	12.68	134.92	119.70
34	BA	1620	U	P-O3'-C3'	12.68	134.91	119.70
38	BE	107	U	C6-N1-C2	-12.67	113.40	121.00
35	BB	850	U	P-O5'-C5'	12.67	141.17	120.90
35	BB	1480	G	C5-C6-O6	-12.67	121.00	128.60
34	BA	539	C	C6-N1-C2	-12.66	115.24	120.30
34	BA	1468	U	C2-N3-C4	-12.65	119.41	127.00
34	BA	520	G	C5-C6-O6	-12.64	121.02	128.60
85	AA	1982	C	P-O3'-C3'	12.64	134.87	119.70
35	BB	498	G	C5-C6-O6	-12.63	121.02	128.60
85	AA	327	G	C8-N9-C1'	-12.63	110.58	127.00
34	BA	1197	U	P-O3'-C3'	12.62	134.85	119.70
34	BA	399	G	C5-C6-O6	-12.62	121.03	128.60
34	BA	297	A	P-O5'-C5'	12.62	141.09	120.90
34	BA	609	G	O4'-C1'-N9	12.61	118.29	108.20
85	AA	1361	A	N1-C6-N6	12.61	126.17	118.60
35	BB	797	C	C5'-C4'-C3'	12.61	136.18	116.00
85	AA	305	A	C5'-C4'-C3'	12.61	136.18	116.00
85	AA	1592	C	C6-N1-C2	-12.61	115.26	120.30
35	BB	62	C	P-O3'-C3'	12.60	134.82	119.70
37	BD	40	C	P-O3'-C3'	12.60	134.82	119.70
85	AA	387	U	O4'-C1'-N1	12.60	118.28	108.20
85	AA	374	C	C5'-C4'-C3'	-12.60	95.85	116.00
85	AA	814	G	C5-C6-O6	-12.60	121.04	128.60
35	BB	1023	G	P-O3'-C3'	12.59	134.81	119.70
38	BE	8	G	C4'-C3'-C2'	12.58	115.18	102.60
85	AA	1974	C	C5-C4-N4	-12.58	111.40	120.20
38	BE	198	A	C8-N9-C4	12.57	110.83	105.80
85	AA	526	G	P-O5'-C5'	12.57	141.01	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	539	A	N1-C6-N6	12.57	126.14	118.60
52	BS	69	ARG	NE-CZ-NH1	12.56	126.58	120.30
34	BA	497	U	C5'-C4'-C3'	12.56	136.10	116.00
35	BB	808	U	C6-N1-C2	-12.56	113.47	121.00
40	BG	86	U	P-O3'-C3'	-12.56	104.63	119.70
85	AA	2149	C	C6-N1-C2	-12.55	115.28	120.30
35	BB	730	G	P-O5'-C5'	12.55	140.98	120.90
35	BB	518	G	C5'-C4'-C3'	-12.55	95.92	116.00
36	BC	138	C	C6-N1-C2	-12.55	115.28	120.30
34	BA	1632	G	O4'-C1'-N9	12.54	118.23	108.20
34	BA	1800	G	P-O3'-C3'	-12.54	104.65	119.70
36	BC	139	A	O3'-P-O5'	12.54	127.83	104.00
85	AA	206	U	P-O3'-C3'	12.53	134.74	119.70
35	BB	569	G	N1-C6-O6	-12.53	112.38	119.90
35	BB	868	C	O4'-C1'-N1	12.53	118.22	108.20
41	BH	24	U	O4'-C1'-N1	12.51	118.21	108.20
34	BA	1626	U	C5'-C4'-C3'	12.50	135.99	116.00
35	BB	1215	U	C6-N1-C2	-12.50	113.50	121.00
38	BE	188	C	O4'-C1'-N1	12.50	118.20	108.20
39	BF	60	C	O4'-C1'-N1	12.50	118.20	108.20
37	BD	83	A	O3'-P-O5'	-12.49	80.26	104.00
39	BF	34	C	C5'-C4'-C3'	12.49	135.99	116.00
72	Bm	6	ARG	NE-CZ-NH1	12.49	126.55	120.30
40	BG	122	G	N1-C6-O6	12.49	127.39	119.90
41	BH	39	G	N1-C6-O6	-12.48	112.41	119.90
85	AA	2078	A	C5'-C4'-C3'	12.48	135.97	116.00
34	BA	472	G	C5-C6-O6	-12.48	121.11	128.60
34	BA	896	U	O4'-C1'-C2'	-12.48	93.32	105.80
34	BA	327	G	P-O3'-C3'	12.48	134.67	119.70
35	BB	504	C	C5'-C4'-C3'	-12.48	96.04	116.00
38	BE	45	G	C8-N9-C1'	12.48	143.22	127.00
35	BB	631	G	C5-C6-O6	-12.47	121.12	128.60
35	BB	1218	G	P-O3'-C3'	-12.46	104.74	119.70
38	BE	123	A	N1-C6-N6	12.46	126.08	118.60
85	AA	83	U	O4'-C1'-N1	12.46	118.16	108.20
85	AA	1320	G	P-O3'-C3'	12.45	134.64	119.70
35	BB	267	C	P-O3'-C3'	12.45	134.64	119.70
85	AA	403	G	C6-N1-C2	-12.45	117.63	125.10
39	BF	54	U	P-O3'-C3'	12.44	134.63	119.70
85	AA	8	U	C2-N3-C4	-12.44	119.53	127.00
85	AA	860	C	N3-C2-O2	-12.44	113.19	121.90
38	BE	37	C	C6-N1-C2	-12.44	115.33	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	2	G	N1-C6-O6	-12.43	112.44	119.90
34	BA	583	G	P-O3'-C3'	12.43	134.62	119.70
13	AE	97	ARG	NE-CZ-NH2	-12.43	114.09	120.30
85	AA	276	C	C5'-C4'-C3'	12.43	135.88	116.00
85	AA	967	C	C6-N1-C2	-12.43	115.33	120.30
34	BA	1442	A	N1-C6-N6	-12.42	111.15	118.60
35	BB	1454	G	O4'-C1'-N9	12.42	118.14	108.20
85	AA	2155	U	O4'-C1'-N1	12.42	118.13	108.20
38	BE	203	C	C5-C6-N1	12.41	127.21	121.00
36	BC	3	C	C2-N3-C4	-12.41	113.70	119.90
34	BA	186	G	P-O5'-C5'	12.41	140.75	120.90
34	BA	1699	A	C3'-C2'-C1'	-12.41	91.58	101.50
35	BB	1306	G	N1-C6-O6	-12.41	112.46	119.90
34	BA	535	G	P-O3'-C3'	12.40	134.58	119.70
38	BE	110	U	C5'-C4'-C3'	-12.40	96.16	116.00
35	BB	1202	G	C5'-C4'-C3'	-12.39	96.17	116.00
85	AA	1812	C	C6-N1-C2	-12.39	115.34	120.30
85	AA	1225	C	P-O3'-C3'	12.39	134.57	119.70
35	BB	1454	G	C5-C6-O6	-12.39	121.17	128.60
34	BA	1194	G	C4'-C3'-C2'	12.38	114.98	102.60
85	AA	926	C	P-O3'-C3'	12.38	134.56	119.70
85	AA	2077	G	N1-C6-O6	12.38	127.33	119.90
85	AA	1354	A	O3'-P-O5'	12.38	127.51	104.00
34	BA	891	C	P-O5'-C5'	12.37	140.70	120.90
85	AA	2119	C	C5'-C4'-C3'	12.37	135.80	116.00
29	AV	45	ARG	NE-CZ-NH1	12.37	126.48	120.30
34	BA	1541	G	C5-C6-O6	-12.37	121.18	128.60
35	BB	1329	G	N1-C6-O6	12.37	127.32	119.90
85	AA	982	G	C8-N9-C4	12.37	111.35	106.40
34	BA	1699	A	O4'-C4'-C3'	-12.37	91.63	104.00
35	BB	1024	G	O3'-P-O5'	12.37	127.50	104.00
38	BE	89	G	N1-C6-O6	-12.37	112.48	119.90
34	BA	855	C	C2-N3-C4	-12.36	113.72	119.90
35	BB	1329	G	C5-C6-O6	-12.36	121.18	128.60
85	AA	687	G	C5-C6-O6	-12.36	121.18	128.60
85	AA	266	U	O4'-C1'-N1	12.36	118.08	108.20
85	AA	1704	C	C2-N3-C4	-12.36	113.72	119.90
85	AA	1485	G	C8-N9-C1'	12.35	143.06	127.00
5	A4	145	TRP	CB-CG-CD1	12.35	143.05	127.00
34	BA	383	G	C8-N9-C1'	12.35	143.05	127.00
38	BE	102	U	P-O3'-C3'	12.35	134.51	119.70
38	BE	176	G	C8-N9-C4	-12.34	101.46	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	486	G	C8-N9-C1'	12.34	143.04	127.00
34	BA	678	C	C2-N1-C1'	12.33	132.36	118.80
40	BG	61	A	N1-C6-N6	12.32	126.00	118.60
85	AA	1157	U	P-O3'-C3'	12.32	134.48	119.70
35	BB	711	C	C6-N1-C2	-12.31	115.38	120.30
35	BB	1032	U	O4'-C1'-N1	12.31	118.05	108.20
36	BC	124	A	N1-C6-N6	12.31	125.99	118.60
34	BA	1489	U	P-O5'-C5'	12.30	140.59	120.90
34	BA	268	U	P-O3'-C3'	12.30	134.46	119.70
35	BB	287	C	P-O3'-C3'	12.30	134.46	119.70
85	AA	264	A	P-O5'-C5'	12.30	140.58	120.90
34	BA	1321	A	N1-C6-N6	12.29	125.98	118.60
85	AA	1052	C	P-O5'-C5'	12.29	140.57	120.90
34	BA	127	U	P-O3'-C3'	12.29	134.45	119.70
34	BA	115	U	C4'-C3'-C2'	-12.29	90.31	102.60
35	BB	845	C	P-O3'-C3'	12.29	134.45	119.70
85	AA	1325	C	P-O3'-C3'	12.29	134.44	119.70
85	AA	334	A	P-O5'-C5'	12.29	140.56	120.90
85	AA	1229	G	C8-N9-C4	-12.28	101.49	106.40
77	Br	32	ARG	NE-CZ-NH2	-12.28	114.16	120.30
34	BA	1656	A	C8-N9-C4	12.28	110.71	105.80
34	BA	270	U	O4'-C1'-N1	12.27	118.02	108.20
85	AA	989	U	P-O5'-C5'	12.27	140.53	120.90
35	BB	816	U	N3-C2-O2	-12.27	113.61	122.20
85	AA	1246	G	C5-C6-O6	-12.27	121.24	128.60
34	BA	178	C	C6-N1-C2	-12.26	115.40	120.30
86	AB	16	U	O4'-C1'-N1	12.26	118.01	108.20
35	BB	822	G	N3-C4-C5	-12.25	122.47	128.60
39	BF	22	U	C2-N1-C1'	-12.25	103.00	117.70
85	AA	736	U	P-O3'-C3'	-12.25	105.00	119.70
39	BF	10	A	O3'-P-O5'	12.25	127.28	104.00
41	BH	75	G	N1-C6-O6	12.25	127.25	119.90
35	BB	5	A	N1-C6-N6	-12.25	111.25	118.60
85	AA	2154	C	O4'-C1'-N1	12.25	118.00	108.20
35	BB	68	G	N1-C6-O6	12.24	127.24	119.90
35	BB	475	A	N1-C6-N6	-12.24	111.25	118.60
34	BA	1820	G	C5-C6-O6	-12.24	121.26	128.60
85	AA	208	U	P-O3'-C3'	12.24	134.38	119.70
36	BC	60	U	P-O3'-C3'	12.23	134.38	119.70
37	BD	82	G	C4'-C3'-C2'	12.23	114.83	102.60
85	AA	1964	A	C1'-O4'-C4'	-12.23	100.11	109.90
85	AA	8	U	C6-N1-C2	-12.23	113.66	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1097	G	P-O3'-C3'	12.22	134.37	119.70
40	BG	146	C	C6-N1-C2	-12.22	115.41	120.30
34	BA	1571	C	C6-N1-C2	-12.22	115.41	120.30
35	BB	653	G	C5-C6-O6	-12.22	121.27	128.60
85	AA	769	C	C2-N1-C1'	-12.21	105.36	118.80
34	BA	18	G	C5-C6-O6	-12.21	121.27	128.60
6	A5	197	ARG	NE-CZ-NH1	12.21	126.41	120.30
35	BB	798	A	C5-C6-N6	-12.21	113.94	123.70
34	BA	882	G	C5-C6-O6	-12.20	121.28	128.60
35	BB	869	G	O4'-C1'-N9	12.20	117.96	108.20
34	BA	1711	G	C1'-O4'-C4'	-12.20	100.14	109.90
34	BA	8	G	C8-N9-C1'	12.20	142.86	127.00
34	BA	1295	U	C2-N1-C1'	-12.20	103.06	117.70
35	BB	797	C	O4'-C1'-N1	12.19	117.95	108.20
34	BA	1491	U	O4'-C1'-N1	12.19	117.95	108.20
34	BA	880	G	C5-C6-O6	-12.19	121.29	128.60
34	BA	1549	U	C5'-C4'-C3'	-12.19	96.50	116.00
85	AA	1974	C	N3-C4-N4	12.19	126.53	118.00
35	BB	1091	C	C6-N1-C2	-12.18	115.43	120.30
38	BE	36	U	N3-C2-O2	-12.18	113.67	122.20
34	BA	1809	G	P-O5'-C5'	12.18	140.39	120.90
35	BB	692	G	N1-C6-O6	-12.18	112.59	119.90
34	BA	559	C	C6-N1-C2	-12.17	115.43	120.30
34	BA	603	U	C4'-C3'-C2'	-12.17	90.43	102.60
35	BB	139	G	O4'-C1'-N9	12.17	117.94	108.20
35	BB	622	G	N1-C6-O6	12.17	127.20	119.90
85	AA	1897	A	N1-C6-N6	-12.17	111.30	118.60
85	AA	860	C	P-O3'-C3'	12.17	134.30	119.70
34	BA	1293	A	C6-N1-C2	-12.16	111.30	118.60
38	BE	77	C	C6-N1-C2	-12.16	115.44	120.30
4	A3	7	TYR	CB-CG-CD2	-12.16	113.70	121.00
34	BA	869	C	O4'-C1'-N1	12.16	117.93	108.20
85	AA	619	A	O4'-C1'-N9	12.16	117.93	108.20
35	BB	1294	C	C6-N1-C1'	-12.15	106.21	120.80
85	AA	815	G	O4'-C1'-N9	12.15	117.92	108.20
35	BB	768	A	P-O3'-C3'	12.15	134.28	119.70
85	AA	1179	A	P-O3'-C3'	12.15	134.28	119.70
34	BA	1033	G	C5-C6-O6	-12.14	121.31	128.60
34	BA	635	G	P-O5'-C5'	12.14	140.32	120.90
85	AA	2127	G	N1-C6-O6	12.14	127.18	119.90
85	AA	864	C	O4'-C1'-N1	12.14	117.91	108.20
34	BA	1674	G	C1'-O4'-C4'	-12.12	100.20	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	976	U	C2-N3-C4	-12.12	119.73	127.00
41	BH	63	G	C8-N9-C4	-12.12	101.55	106.40
85	AA	1457	C	P-O3'-C3'	12.12	134.24	119.70
35	BB	877	A	C4'-C3'-C2'	12.11	114.71	102.60
85	AA	1197	U	C5'-C4'-C3'	-12.11	96.63	116.00
37	BD	77	A	P-O5'-C5'	12.11	140.27	120.90
85	AA	1535	C	O3'-P-O5'	12.10	127.00	104.00
35	BB	1140	C	P-O3'-C3'	12.10	134.22	119.70
85	AA	307	G	O4'-C1'-N9	12.10	117.88	108.20
34	BA	472	G	N1-C6-O6	12.10	127.16	119.90
34	BA	871	G	O5'-P-OP1	-12.09	94.82	105.70
85	AA	1292	A	C5-C6-N6	-12.09	114.03	123.70
34	BA	94	G	P-O5'-C5'	-12.09	101.56	120.90
39	BF	23	G	O5'-C5'-C4'	12.09	134.67	111.70
85	AA	414	C	C6-N1-C1'	12.09	135.31	120.80
85	AA	1719	C	P-O5'-C5'	12.09	140.24	120.90
85	AA	696	G	C5-C6-O6	-12.09	121.35	128.60
85	AA	2121	G	P-O3'-C3'	12.09	134.20	119.70
85	AA	47	A	C5'-C4'-C3'	-12.08	96.67	116.00
85	AA	1010	U	C6-N1-C2	-12.08	113.75	121.00
34	BA	1505	G	N9-C4-C5	-12.08	100.57	105.40
35	BB	315	C	C6-N1-C2	-12.08	115.47	120.30
85	AA	1921	G	C4-N9-C1'	-12.08	110.80	126.50
34	BA	128	C	C6-N1-C1'	12.07	135.29	120.80
85	AA	445	U	C1'-O4'-C4'	-12.07	100.25	109.90
85	AA	1123	C	C6-N1-C2	-12.07	115.47	120.30
85	AA	1699	A	P-O5'-C5'	12.07	140.21	120.90
34	BA	328	A	P-O3'-C3'	-12.06	105.22	119.70
34	BA	615	A	C5'-C4'-C3'	-12.06	96.70	116.00
85	AA	603	C	C6-N1-C2	-12.06	115.48	120.30
26	AS	131	TYR	CB-CG-CD2	-12.05	113.77	121.00
34	BA	1616	A	P-O3'-C3'	12.05	134.16	119.70
35	BB	50	A	C8-N9-C4	12.05	110.62	105.80
35	BB	712	U	P-O3'-C3'	12.05	134.16	119.70
34	BA	802	G	O4'-C1'-N9	12.04	117.84	108.20
41	BH	110	C	C6-N1-C2	-12.04	115.48	120.30
85	AA	61	C	C6-N1-C2	-12.04	115.48	120.30
85	AA	28	A	C5'-C4'-O4'	-12.04	94.66	109.10
34	BA	878	G	C5-C6-O6	-12.03	121.38	128.60
34	BA	1412	G	N1-C6-O6	-12.03	112.68	119.90
35	BB	1494	G	C8-N9-C1'	12.03	142.64	127.00
85	AA	1430	A	P-O5'-C5'	12.02	140.14	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	8	U	C2-N3-C4	-12.02	119.79	127.00
85	AA	284	C	O4'-C1'-N1	12.02	117.82	108.20
29	AV	100	TYR	CB-CG-CD2	-12.02	113.79	121.00
37	BD	49	A	C5'-C4'-C3'	-12.02	96.77	116.00
85	AA	1485	G	C4-N9-C1'	-12.01	110.88	126.50
35	BB	997	G	C5-C6-O6	-12.01	121.39	128.60
37	BD	84	U	P-O5'-C5'	12.01	140.12	120.90
34	BA	205	G	N1-C6-O6	12.01	127.11	119.90
38	BE	20	C	C5'-C4'-O4'	12.01	123.51	109.10
38	BE	149	A	C2-N3-C4	-12.01	104.60	110.60
35	BB	850	U	P-O3'-C3'	12.00	134.10	119.70
85	AA	1828	C	P-O5'-C5'	12.00	140.10	120.90
85	AA	2074	G	C5-C6-O6	-12.00	121.40	128.60
85	AA	1796	C	O4'-C1'-N1	12.00	117.80	108.20
35	BB	436	G	N1-C6-O6	11.99	127.09	119.90
34	BA	593	G	C5'-C4'-O4'	11.99	123.49	109.10
85	AA	535	G	C5-C6-O6	-11.99	121.41	128.60
85	AA	920	A	P-O5'-C5'	11.99	140.08	120.90
40	BG	76	C	C2-N3-C4	-11.98	113.91	119.90
85	AA	696	G	C4-N9-C1'	-11.98	110.92	126.50
85	AA	1730	C	P-O3'-C3'	11.98	134.07	119.70
38	BE	129	G	O4'-C1'-N9	11.98	117.78	108.20
34	BA	672	G	P-O3'-C3'	11.97	134.07	119.70
85	AA	770	C	C6-N1-C2	-11.97	115.51	120.30
85	AA	741	G	P-O3'-C3'	-11.97	105.34	119.70
34	BA	319	C	C6-N1-C2	-11.97	115.51	120.30
34	BA	363	G	C5-C6-O6	-11.96	121.42	128.60
34	BA	382	G	N1-C6-O6	-11.96	112.72	119.90
85	AA	599	C	O3'-P-O5'	11.96	126.73	104.00
85	AA	1053	A	P-O3'-C3'	11.96	134.06	119.70
85	AA	1372	C	P-O3'-C3'	-11.96	105.35	119.70
85	AA	2145	G	O4'-C1'-N9	11.96	117.77	108.20
40	BG	171	A	C8-N9-C4	-11.95	101.02	105.80
34	BA	520	G	N1-C6-O6	11.95	127.07	119.90
34	BA	817	U	C5'-C4'-C3'	-11.95	96.88	116.00
34	BA	993	C	O4'-C1'-N1	11.95	117.76	108.20
85	AA	525	C	O3'-P-O5'	-11.95	81.29	104.00
34	BA	21	C	P-O5'-C5'	11.95	140.01	120.90
85	AA	1784	G	P-O3'-C3'	11.95	134.03	119.70
35	BB	1480	G	C8-N9-C1'	11.94	142.52	127.00
38	BE	144	A	P-O5'-C5'	11.94	140.00	120.90
38	BE	176	G	C6-N1-C2	-11.94	117.94	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1490	A	C6-C5-N7	-11.94	123.94	132.30
39	BF	50	C	C2-N1-C1'	-11.94	105.67	118.80
35	BB	816	U	C2-N1-C1'	-11.93	103.38	117.70
52	BS	137	ARG	NE-CZ-NH1	11.93	126.27	120.30
34	BA	1537	G	P-O5'-C5'	11.93	139.99	120.90
54	BU	12	ARG	NE-CZ-NH1	11.93	126.27	120.30
39	BF	10	A	P-O3'-C3'	-11.93	105.39	119.70
34	BA	804	G	C5-C6-O6	11.93	135.76	128.60
85	AA	1492	U	O4'-C1'-N1	11.92	117.74	108.20
34	BA	874	G	N1-C6-O6	11.92	127.05	119.90
85	AA	461	G	C5-C6-O6	-11.92	121.45	128.60
40	BG	33	G	N1-C6-O6	11.91	127.05	119.90
40	BG	67	A	O4'-C1'-N9	11.91	117.73	108.20
85	AA	992	G	P-O5'-C5'	-11.91	101.85	120.90
41	BH	26	C	O4'-C1'-N1	11.90	117.72	108.20
34	BA	683	C	C2-N1-C1'	11.90	131.89	118.80
34	BA	1041	U	P-O3'-C3'	11.90	133.98	119.70
50	BQ	55	ARG	NE-CZ-NH1	11.90	126.25	120.30
34	BA	201	A	N1-C6-N6	-11.89	111.46	118.60
34	BA	1648	G	C5'-C4'-C3'	-11.89	96.97	116.00
85	AA	1577	G	P-O3'-C3'	11.89	133.97	119.70
34	BA	1191	C	O4'-C1'-N1	11.89	117.71	108.20
34	BA	113	G	C5'-C4'-C3'	11.89	135.02	116.00
85	AA	863	C	O4'-C1'-N1	11.88	117.71	108.20
35	BB	436	G	C5-C6-O6	-11.88	121.47	128.60
85	AA	1485	G	C5-C6-O6	-11.88	121.47	128.60
35	BB	1540	U	P-O3'-C3'	-11.88	105.45	119.70
85	AA	991	G	N1-C6-O6	11.88	127.03	119.90
34	BA	1442	A	P-O3'-C3'	11.88	133.95	119.70
34	BA	1658	G	N1-C6-O6	-11.88	112.77	119.90
85	AA	443	A	O3'-P-O5'	-11.88	81.44	104.00
34	BA	691	A	N1-C6-N6	-11.87	111.48	118.60
85	AA	1226	A	P-O5'-C5'	11.87	139.90	120.90
34	BA	692	U	O4'-C1'-N1	-11.87	98.71	108.20
35	BB	798	A	C5'-C4'-C3'	11.86	134.98	116.00
38	BE	87	U	C6-N1-C2	-11.86	113.89	121.00
39	BF	20	U	P-O3'-C3'	11.86	133.93	119.70
85	AA	696	G	C8-N9-C1'	11.86	142.41	127.00
34	BA	1641	G	C4-N9-C1'	-11.85	111.09	126.50
35	BB	1294	C	C2-N1-C1'	11.85	131.84	118.80
35	BB	1515	C	C6-N1-C1'	11.85	135.02	120.80
85	AA	1236	G	C6-N1-C2	-11.84	118.00	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	875	G	C8-N9-C4	11.84	111.14	106.40
38	BE	171	U	C5'-C4'-C3'	-11.84	97.06	116.00
85	AA	890	U	N1-C2-O2	-11.84	114.52	122.80
35	BB	1517	G	C6-C5-N7	-11.83	123.30	130.40
36	BC	155	C	O4'-C1'-N1	11.83	117.66	108.20
40	BG	25	G	C5'-C4'-C3'	-11.82	97.08	116.00
34	BA	504	A	N1-C6-N6	-11.81	111.51	118.60
35	BB	621	C	O4'-C1'-N1	11.81	117.65	108.20
35	BB	1327	U	C2-N3-C4	-11.81	119.91	127.00
38	BE	8	G	N9-C1'-C2'	-11.81	98.64	114.00
38	BE	25	U	N3-C2-O2	-11.81	113.93	122.20
85	AA	2061	C	P-O3'-C3'	11.81	133.87	119.70
85	AA	2244	G	N1-C6-O6	11.81	126.98	119.90
35	BB	713	U	P-O3'-C3'	11.80	133.87	119.70
35	BB	830	G	P-O3'-C3'	-11.80	105.54	119.70
85	AA	1909	C	O4'-C1'-N1	11.79	117.64	108.20
36	BC	13	U	C2-N1-C1'	-11.79	103.55	117.70
40	BG	64	C	P-O5'-C5'	11.79	139.77	120.90
85	AA	1035	C	C6-N1-C2	-11.79	115.58	120.30
34	BA	155	U	O4'-C1'-N1	11.79	117.63	108.20
85	AA	1457	C	P-O5'-C5'	11.79	139.76	120.90
85	AA	2119	C	C6-N1-C2	-11.79	115.58	120.30
35	BB	56	U	C6-N1-C2	-11.79	113.93	121.00
36	BC	157	U	C5'-C4'-C3'	11.78	134.84	116.00
35	BB	958	C	C5'-C4'-C3'	11.78	134.84	116.00
34	BA	687	G	N1-C6-O6	-11.77	112.84	119.90
38	BE	30	C	C6-N1-C1'	11.77	134.93	120.80
85	AA	1378	U	P-O3'-C3'	11.77	133.82	119.70
35	BB	3	C	P-O3'-C3'	11.77	133.82	119.70
85	AA	1471	G	C5-C6-O6	-11.77	121.54	128.60
85	AA	1455	C	C6-N1-C2	-11.76	115.59	120.30
24	AQ	63	ARG	NE-CZ-NH1	11.76	126.18	120.30
85	AA	753	U	P-O3'-C3'	11.76	133.81	119.70
35	BB	1177	U	O4'-C1'-N1	11.76	117.61	108.20
37	BD	48	G	P-O3'-C3'	11.76	133.81	119.70
35	BB	1026	G	P-O3'-C3'	-11.75	105.60	119.70
47	BN	52	PHE	CB-CG-CD2	-11.75	112.58	120.80
47	BN	206	ARG	NE-CZ-NH1	11.75	126.17	120.30
34	BA	210	G	C5'-C4'-C3'	11.74	134.79	116.00
39	BF	11	C	O4'-C1'-N1	11.74	117.59	108.20
34	BA	221	G	C4-N9-C1'	-11.74	111.24	126.50
34	BA	521	C	P-O3'-C3'	-11.74	105.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1736	A	C8-N9-C4	-11.74	101.11	105.80
85	AA	769	C	P-O3'-C3'	11.74	133.78	119.70
77	Br	32	ARG	NE-CZ-NH1	11.74	126.17	120.30
85	AA	1466	U	O4'-C1'-N1	-11.73	98.81	108.20
85	AA	1535	C	C2-N3-C4	-11.73	114.03	119.90
85	AA	1584	U	P-O3'-C3'	11.73	133.78	119.70
35	BB	148	C	C2-N1-C1'	11.73	131.70	118.80
85	AA	330	C	P-O3'-C3'	11.73	133.78	119.70
85	AA	1211	C	C2-N3-C4	-11.73	114.04	119.90
1	A0	83	TYR	CB-CG-CD2	-11.72	113.97	121.00
38	BE	30	C	C2-N3-C4	-11.72	114.04	119.90
85	AA	53	G	C8-N9-C1'	11.72	142.23	127.00
34	BA	959	G	C5-C6-O6	-11.72	121.57	128.60
35	BB	1511	U	C5'-C4'-C3'	11.72	134.75	116.00
34	BA	1820	G	N1-C6-O6	11.71	126.93	119.90
34	BA	109	A	N1-C6-N6	-11.71	111.57	118.60
36	BC	38	U	C1'-O4'-C4'	-11.71	100.53	109.90
85	AA	123	A	P-O3'-C3'	11.71	133.75	119.70
85	AA	653	A	P-O3'-C3'	11.71	133.75	119.70
85	AA	270	A	O4'-C1'-N9	11.71	117.56	108.20
34	BA	917	C	C6-N1-C2	-11.70	115.62	120.30
34	BA	538	G	P-O3'-C3'	11.70	133.74	119.70
34	BA	1440	C	O4'-C1'-N1	11.70	117.56	108.20
34	BA	1735	G	O4'-C1'-N9	11.70	117.56	108.20
34	BA	221	G	C8-N9-C1'	11.69	142.20	127.00
34	BA	250	G	P-O3'-C3'	-11.69	105.67	119.70
34	BA	1497	A	P-O3'-C3'	11.69	133.72	119.70
34	BA	897	U	P-O3'-C3'	11.69	133.72	119.70
38	BE	10	G	O4'-C1'-N9	11.69	117.55	108.20
41	BH	134	U	O4'-C1'-N1	11.69	117.55	108.20
85	AA	1458	G	C8-N9-C1'	11.69	142.19	127.00
34	BA	923	C	C6-N1-C2	-11.68	115.63	120.30
85	AA	133	G	C8-N9-C1'	11.68	142.19	127.00
34	BA	875	G	C4-N9-C1'	-11.68	111.31	126.50
35	BB	6	A	P-O5'-C5'	11.68	139.59	120.90
86	AB	7	A	N1-C6-N6	11.68	125.61	118.60
41	BH	135	U	P-O5'-C5'	11.67	139.58	120.90
85	AA	114	C	C5'-C4'-C3'	-11.67	97.32	116.00
85	AA	1578	G	O4'-C1'-N9	11.67	117.53	108.20
34	BA	593	G	P-O3'-C3'	11.66	133.70	119.70
34	BA	1708	A	O4'-C1'-N9	11.66	117.53	108.20
85	AA	730	G	C5-C6-O6	-11.66	121.60	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	57	A	C5-C6-N6	-11.66	114.37	123.70
39	BF	66	C	C6-N1-C2	-11.66	115.64	120.30
38	BE	20	C	P-O3'-C3'	-11.66	105.71	119.70
85	AA	1881	C	C6-N1-C2	-11.66	115.64	120.30
34	BA	383	G	C5'-C4'-C3'	-11.65	97.36	116.00
34	BA	1084	A	N1-C6-N6	-11.65	111.61	118.60
38	BE	1	U	N3-C2-O2	-11.65	114.04	122.20
34	BA	1294	C	C4'-C3'-C2'	-11.65	90.95	102.60
85	AA	626	G	C5-C6-O6	-11.65	121.61	128.60
85	AA	2060	G	P-O5'-C5'	11.64	139.53	120.90
34	BA	1085	G	O4'-C1'-N9	11.64	117.51	108.20
34	BA	286	C	O4'-C1'-N1	11.63	117.51	108.20
35	BB	1166	A	P-O3'-C3'	11.63	133.66	119.70
35	BB	1323	U	C2-N3-C4	-11.63	120.02	127.00
37	BD	73	U	P-O3'-C3'	11.63	133.66	119.70
85	AA	1226	A	O4'-C1'-N9	11.63	117.50	108.20
85	AA	1959	G	N1-C6-O6	11.63	126.88	119.90
34	BA	1725	U	C1'-O4'-C4'	-11.62	100.60	109.90
41	BH	39	G	P-O5'-C5'	11.62	139.50	120.90
85	AA	611	G	N1-C6-O6	11.62	126.88	119.90
39	BF	13	U	O4'-C1'-N1	11.62	117.50	108.20
34	BA	1809	G	C5-C6-O6	-11.62	121.63	128.60
82	Bw	41	PHE	CB-CG-CD1	-11.61	112.67	120.80
85	AA	778	C	C6-N1-C2	-11.61	115.65	120.30
34	BA	117	C	C1'-O4'-C4'	-11.61	100.61	109.90
85	AA	971	U	O4'-C1'-N1	11.61	117.49	108.20
85	AA	1051	A	P-O3'-C3'	11.61	133.63	119.70
44	BK	98	ARG	NE-CZ-NH1	11.61	126.10	120.30
85	AA	1260	G	O4'-C1'-N9	11.61	117.48	108.20
34	BA	631	G	C8-N9-C1'	11.60	142.08	127.00
34	BA	768	G	N1-C6-O6	11.60	126.86	119.90
34	BA	1509	U	C5'-C4'-C3'	11.60	134.56	116.00
36	BC	140	U	C6-N1-C2	-11.60	114.04	121.00
27	AT	83	TYR	CB-CG-CD2	-11.60	114.04	121.00
86	AB	14	A	N1-C6-N6	-11.60	111.64	118.60
34	BA	651	U	O4'-C1'-N1	11.59	117.47	108.20
34	BA	1592	U	C2-N3-C4	-11.59	120.04	127.00
40	BG	164	U	C2-N3-C4	-11.59	120.05	127.00
36	BC	140	U	P-O5'-C5'	11.59	139.44	120.90
35	BB	560	C	C4'-C3'-C2'	11.59	114.19	102.60
85	AA	790	A	P-O3'-C3'	-11.59	105.80	119.70
34	BA	1741	G	O4'-C1'-N9	11.58	117.46	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	10	G	O4'-C1'-C2'	-11.58	94.22	105.80
35	BB	1231	U	O4'-C1'-N1	11.58	117.46	108.20
38	BE	85	G	C8-N9-C1'	11.58	142.05	127.00
40	BG	22	G	O3'-P-O5'	-11.58	82.00	104.00
85	AA	1133	C	C5'-C4'-C3'	-11.57	97.48	116.00
59	BZ	37	ARG	NE-CZ-NH1	11.57	126.08	120.30
85	AA	633	C	O4'-C1'-N1	11.57	117.45	108.20
85	AA	588	G	C5-C6-O6	-11.56	121.66	128.60
85	AA	1441	G	C6-N1-C2	-11.56	118.16	125.10
85	AA	726	U	P-O5'-C5'	11.56	139.40	120.90
38	BE	168	C	C6-N1-C2	-11.56	115.67	120.30
85	AA	929	G	C5-C6-O6	-11.56	121.66	128.60
34	BA	523	A	N1-C6-N6	-11.56	111.66	118.60
39	BF	32	G	C5-C6-O6	-11.56	121.67	128.60
34	BA	1321	A	C5-C6-N6	-11.56	114.45	123.70
36	BC	146	U	P-O3'-C3'	11.56	133.57	119.70
85	AA	1458	G	C4-N9-C1'	-11.56	111.47	126.50
34	BA	487	A	C5-C6-N6	11.56	132.94	123.70
86	AB	3	C	C1'-O4'-C4'	-11.55	100.66	109.90
34	BA	507	U	C2-N3-C4	-11.55	120.07	127.00
85	AA	1158	U	C1'-O4'-C4'	-11.55	100.66	109.90
85	AA	2244	G	C5-C6-O6	-11.55	121.67	128.60
85	AA	368	C	C1'-O4'-C4'	-11.55	100.66	109.90
35	BB	1375	G	N1-C6-O6	-11.54	112.97	119.90
85	AA	83	U	P-O3'-C3'	11.55	133.56	119.70
39	BF	7	G	C4-N9-C1'	11.54	141.51	126.50
35	BB	964	G	C8-N9-C1'	11.53	141.99	127.00
35	BB	1038	G	C5-C6-O6	-11.53	121.68	128.60
41	BH	72	G	O5'-C5'-C4'	11.53	133.60	111.70
85	AA	1927	G	P-O3'-C3'	11.53	133.53	119.70
34	BA	1451	A	C4-C5-C6	-11.53	111.24	117.00
34	BA	1597	G	C8-N9-C4	11.53	111.01	106.40
85	AA	1985	C	C5'-C4'-C3'	-11.53	97.56	116.00
37	BD	41	G	C4-N9-C1'	-11.52	111.52	126.50
34	BA	282	A	OP1-P-OP2	-11.52	102.33	119.60
85	AA	264	A	N1-C6-N6	11.52	125.51	118.60
34	BA	740	A	O4'-C1'-N9	11.51	117.41	108.20
35	BB	1333	U	O4'-C1'-N1	11.51	117.41	108.20
37	BD	48	G	C6-N1-C2	-11.51	118.19	125.10
34	BA	993	C	C6-N1-C2	-11.51	115.70	120.30
35	BB	792	G	P-O3'-C3'	11.51	133.51	119.70
35	BB	362	A	N1-C6-N6	11.51	125.50	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	870	U	P-O5'-C5'	11.51	139.31	120.90
85	AA	1553	G	C5'-C4'-C3'	-11.50	97.60	116.00
34	BA	167	U	C2-N1-C1'	-11.50	103.90	117.70
38	BE	30	C	N3-C4-N4	-11.50	109.95	118.00
41	BH	84	A	N1-C2-N3	-11.50	123.55	129.30
34	BA	128	C	C2-N1-C1'	-11.50	106.15	118.80
39	BF	13	U	C2-N3-C4	-11.50	120.10	127.00
85	AA	1978	G	C8-N9-C4	11.49	111.00	106.40
34	BA	1606	A	O4'-C1'-N9	11.49	117.39	108.20
38	BE	129	G	C5'-C4'-C3'	-11.49	97.61	116.00
85	AA	1458	G	O4'-C1'-N9	11.49	117.39	108.20
35	BB	979	G	C5-C6-O6	-11.49	121.71	128.60
85	AA	743	C	O4'-C1'-N1	11.49	117.39	108.20
85	AA	518	A	P-O5'-C5'	11.48	139.28	120.90
34	BA	1846	G	C5-C6-N1	11.48	117.24	111.50
85	AA	207	G	C1'-O4'-C4'	-11.48	100.72	109.90
35	BB	635	A	P-O3'-C3'	-11.48	105.92	119.70
37	BD	74	A	N1-C6-N6	11.48	125.49	118.60
34	BA	331	G	O4'-C1'-N9	11.47	117.38	108.20
34	BA	1721	U	O4'-C1'-C2'	-11.47	94.33	105.80
35	BB	1510	G	C5'-C4'-C3'	-11.47	97.64	116.00
85	AA	262	G	P-O3'-C3'	11.47	133.47	119.70
35	BB	1533	U	C6-N1-C2	-11.47	114.12	121.00
37	BD	29	C	C2-N3-C4	-11.47	114.17	119.90
35	BB	384	A	O4'-C1'-N9	11.47	117.38	108.20
85	AA	35	U	C5'-C4'-C3'	-11.47	97.65	116.00
35	BB	526	A	N1-C6-N6	11.46	125.48	118.60
38	BE	203	C	C2-N3-C4	-11.46	114.17	119.90
85	AA	802	A	P-O5'-C5'	11.46	139.24	120.90
34	BA	414	A	P-O3'-C3'	-11.46	105.95	119.70
34	BA	597	C	C6-N1-C2	-11.46	115.72	120.30
41	BH	103	C	O4'-C1'-N1	11.46	117.36	108.20
44	BK	181	TYR	CB-CG-CD2	-11.46	114.13	121.00
34	BA	1454	G	N1-C6-O6	11.45	126.77	119.90
62	Bc	107	TYR	CB-CG-CD2	-11.45	114.13	121.00
34	BA	1299	G	C5-C6-N1	11.45	117.22	111.50
34	BA	1454	G	P-O5'-C5'	11.45	139.22	120.90
34	BA	1747	C	C6-N1-C1'	11.45	134.53	120.80
34	BA	1834	A	N1-C6-N6	-11.45	111.73	118.60
37	BD	83	A	P-O5'-C5'	11.44	139.21	120.90
34	BA	772	G	O4'-C1'-N9	11.44	117.35	108.20
35	BB	993	A	C8-N9-C4	11.44	110.38	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	1	G	N1-C6-O6	11.44	126.77	119.90
1	A0	83	TYR	CB-CG-CD1	11.44	127.86	121.00
85	AA	1801	U	P-O3'-C3'	11.44	133.43	119.70
34	BA	250	G	C5'-C4'-C3'	-11.44	97.70	116.00
34	BA	681	G	C4'-C3'-C2'	-11.44	91.16	102.60
85	AA	970	U	C5'-C4'-C3'	-11.44	97.70	116.00
5	A4	145	TRP	CB-CG-CD2	-11.43	111.74	126.60
34	BA	289	A	C6-C5-N7	-11.43	124.30	132.30
34	BA	684	G	O5'-C5'-C4'	11.43	133.42	111.70
34	BA	449	G	C8-N9-C1'	11.43	141.86	127.00
34	BA	1808	A	C5'-C4'-C3'	-11.43	97.72	116.00
38	BE	77	C	P-O3'-C3'	11.43	133.41	119.70
34	BA	629	G	O5'-P-OP1	-11.43	95.42	105.70
36	BC	134	G	P-O5'-C5'	11.43	139.18	120.90
53	BT	62	ARG	NE-CZ-NH1	11.42	126.01	120.30
34	BA	742	C	C5'-C4'-C3'	-11.42	97.73	116.00
85	AA	568	C	O4'-C1'-N1	11.42	117.33	108.20
34	BA	1609	U	C2-N1-C1'	-11.41	104.01	117.70
40	BG	2	U	C5'-C4'-C3'	-11.41	97.75	116.00
34	BA	1312	A	P-O3'-C3'	-11.41	106.01	119.70
34	BA	1430	C	C6-N1-C2	-11.41	115.74	120.30
35	BB	765	G	O3'-P-O5'	-11.41	82.33	104.00
85	AA	1844	A	N1-C6-N6	-11.41	111.76	118.60
34	BA	1240	G	C5-C6-O6	-11.40	121.76	128.60
40	BG	126	G	C5-C6-O6	-11.40	121.76	128.60
85	AA	520	A	O5'-C5'-C4'	11.40	133.36	111.70
85	AA	1933	G	O4'-C1'-N9	11.40	117.32	108.20
37	BD	75	G	N3-C2-N2	-11.39	111.92	119.90
34	BA	112	C	P-O3'-C3'	-11.39	106.03	119.70
38	BE	206	G	P-O3'-C3'	11.39	133.37	119.70
85	AA	1093	C	O4'-C1'-N1	11.39	117.31	108.20
39	BF	23	G	C5'-C4'-C3'	11.39	134.22	116.00
85	AA	1351	U	P-O3'-C3'	11.39	133.37	119.70
34	BA	608	G	P-O3'-C3'	-11.38	106.04	119.70
34	BA	219	U	O4'-C1'-N1	11.38	117.30	108.20
22	AO	89	TYR	CB-CG-CD1	-11.38	114.17	121.00
85	AA	927	A	C5-C6-N6	-11.38	114.60	123.70
85	AA	389	A	N1-C6-N6	-11.37	111.78	118.60
34	BA	15	G	C5-C6-O6	-11.37	121.78	128.60
35	BB	138	A	O4'-C1'-N9	11.37	117.29	108.20
34	BA	472	G	C8-N9-C1'	-11.36	112.23	127.00
35	BB	1226	G	C8-N9-C4	11.36	110.94	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	72	G	C5'-C4'-C3'	11.36	134.18	116.00
39	BF	34	C	P-O5'-C5'	11.36	139.08	120.90
34	BA	1131	G	P-O3'-C3'	11.36	133.33	119.70
20	AL	29	TYR	CB-CG-CD2	-11.35	114.19	121.00
34	BA	1225	A	C5-C6-N6	11.35	132.78	123.70
34	BA	89	G	C5-C6-O6	-11.35	121.79	128.60
85	AA	1994	G	C5'-C4'-C3'	11.35	134.16	116.00
34	BA	1694	C	C6-N1-C2	-11.35	115.76	120.30
34	BA	813	C	N3-C2-O2	-11.34	113.96	121.90
35	BB	1390	U	C2-N3-C4	-11.34	120.20	127.00
38	BE	106	C	O4'-C1'-N1	11.34	117.27	108.20
35	BB	1134	G	C5-C6-O6	-11.34	121.80	128.60
35	BB	1102	U	C1'-O4'-C4'	-11.33	100.84	109.90
85	AA	207	G	C4-N9-C1'	11.33	141.23	126.50
85	AA	264	A	C5-C6-N6	-11.33	114.64	123.70
34	BA	702	G	C4'-C3'-C2'	11.32	113.92	102.60
32	AY	33	ARG	NE-CZ-NH1	11.32	125.96	120.30
34	BA	383	G	C5-C6-O6	-11.32	121.81	128.60
35	BB	426	A	P-O3'-C3'	11.32	133.28	119.70
29	AV	45	ARG	NE-CZ-NH2	-11.31	114.64	120.30
85	AA	403	G	P-O3'-C3'	11.31	133.28	119.70
34	BA	547	C	P-O3'-C3'	11.31	133.27	119.70
35	BB	880	G	C8-N9-C4	-11.31	101.88	106.40
85	AA	682	C	O4'-C1'-N1	11.31	117.25	108.20
34	BA	488	C	C2-N1-C1'	11.30	131.24	118.80
38	BE	125	C	C6-N1-C2	-11.30	115.78	120.30
40	BG	118	U	C2-N1-C1'	-11.30	104.14	117.70
34	BA	136	A	C8-N9-C1'	11.30	148.04	127.70
38	BE	186	C	C1'-O4'-C4'	-11.30	100.86	109.90
34	BA	1284	G	N3-C2-N2	11.30	127.81	119.90
34	BA	756	A	N1-C6-N6	11.29	125.37	118.60
34	BA	1213	A	C8-N9-C4	11.29	110.31	105.80
34	BA	1215	U	C2-N1-C1'	-11.29	104.16	117.70
34	BA	548	G	P-O3'-C3'	11.28	133.24	119.70
41	BH	29	G	N1-C6-O6	-11.28	113.13	119.90
85	AA	1453	U	C2-N3-C4	-11.28	120.23	127.00
85	AA	92	G	P-O5'-C5'	11.28	138.95	120.90
35	BB	126	C	C6-N1-C2	-11.28	115.79	120.30
85	AA	773	G	N1-C6-O6	11.28	126.67	119.90
85	AA	1719	C	O4'-C1'-N1	11.28	117.22	108.20
17	AI	104	TYR	CB-CG-CD1	11.27	127.76	121.00
34	BA	383	G	C4-N9-C1'	-11.27	111.85	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	204	U	C2-N1-C1'	-11.27	104.18	117.70
35	BB	561	C	C6-N1-C1'	-11.26	107.29	120.80
85	AA	2215	C	O3'-P-O5'	11.26	125.40	104.00
5	A4	15	ARG	NE-CZ-NH1	11.26	125.93	120.30
34	BA	1069	U	C4'-C3'-C2'	11.26	113.86	102.60
34	BA	429	G	C4-C5-C6	-11.26	112.05	118.80
37	BD	104	C	C6-N1-C2	-11.26	115.80	120.30
35	BB	574	G	P-O3'-C3'	-11.26	106.19	119.70
37	BD	49	A	N1-C6-N6	-11.26	111.85	118.60
34	BA	763	U	C4'-C3'-C2'	-11.25	91.35	102.60
34	BA	1166	A	C4'-C3'-C2'	11.25	113.85	102.60
85	AA	2140	U	C6-N1-C2	-11.25	114.25	121.00
85	AA	120	C	C2-N1-C1'	11.24	131.17	118.80
38	BE	195	G	C5'-C4'-C3'	-11.24	98.01	116.00
41	BH	4	U	P-O5'-C5'	11.24	138.88	120.90
35	BB	836	U	C6-N1-C2	-11.24	114.26	121.00
85	AA	478	U	C2-N3-C4	-11.24	120.26	127.00
34	BA	1622	U	O4'-C1'-N1	11.24	117.19	108.20
34	BA	679	U	C5'-C4'-C3'	11.23	133.98	116.00
85	AA	1210	U	C2-N3-C4	-11.23	120.26	127.00
34	BA	481	A	C2-N3-C4	-11.23	104.99	110.60
41	BH	101	A	O5'-P-OP1	-11.22	95.60	105.70
34	BA	299	C	P-O3'-C3'	-11.22	106.23	119.70
85	AA	753	U	O4'-C1'-N1	11.22	117.18	108.20
86	AB	56	C	C5'-C4'-C3'	-11.22	98.05	116.00
41	BH	126	C	C2-N3-C4	-11.22	114.29	119.90
85	AA	505	U	C1'-O4'-C4'	-11.22	100.92	109.90
85	AA	77	C	O4'-C1'-N1	11.21	117.17	108.20
35	BB	378	C	C5'-C4'-C3'	-11.21	98.06	116.00
36	BC	157	U	O4'-C1'-N1	11.21	117.17	108.20
85	AA	1457	C	O5'-P-OP1	-11.21	95.61	105.70
85	AA	1931	C	C5'-C4'-C3'	11.21	133.94	116.00
85	AA	2234	C	O4'-C1'-N1	11.21	117.17	108.20
34	BA	1800	G	O4'-C1'-N9	11.21	117.17	108.20
37	BD	99	G	N1-C6-O6	11.21	126.62	119.90
34	BA	1454	G	C5-C6-O6	-11.21	121.88	128.60
38	BE	134	A	N1-C6-N6	-11.21	111.88	118.60
35	BB	912	C	P-O3'-C3'	11.20	133.14	119.70
38	BE	45	G	C4-N9-C1'	-11.20	111.94	126.50
85	AA	1730	C	P-O5'-C5'	11.20	138.82	120.90
36	BC	33	U	P-O5'-C5'	11.20	138.82	120.90
40	BG	168	A	C5-C6-N6	11.20	132.66	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	141	G	N3-C4-N9	-11.20	119.28	126.00
34	BA	868	C	O4'-C1'-N1	11.20	117.16	108.20
34	BA	1434	U	P-O3'-C3'	11.19	133.13	119.70
80	Bu	22	ARG	NE-CZ-NH1	11.19	125.90	120.30
41	BH	133	U	C5'-C4'-C3'	-11.19	98.09	116.00
38	BE	31	A	C5'-C4'-O4'	11.19	122.52	109.10
34	BA	1790	U	C6-N1-C2	-11.18	114.29	121.00
85	AA	24	U	P-O5'-C5'	11.18	138.79	120.90
85	AA	510	A	P-O5'-C5'	-11.18	103.01	120.90
34	BA	343	G	C5-C6-O6	-11.18	121.89	128.60
85	AA	836	A	P-O3'-C3'	11.18	133.11	119.70
34	BA	1725	U	P-O3'-C3'	11.17	133.11	119.70
36	BC	10	C	O4'-C4'-C3'	-11.17	92.83	104.00
85	AA	143	U	P-O3'-C3'	11.17	133.11	119.70
39	BF	17	U	P-O3'-C3'	11.17	133.10	119.70
35	BB	1541	G	P-O5'-C5'	11.17	138.77	120.90
35	BB	1226	G	C5'-C4'-C3'	11.16	133.86	116.00
35	BB	490	G	C5-C6-O6	-11.16	121.90	128.60
38	BE	112	G	C2-N3-C4	-11.16	106.32	111.90
85	AA	992	G	C4-N9-C1'	-11.16	112.00	126.50
37	BD	86	A	C5'-C4'-C3'	11.15	133.84	116.00
85	AA	1163	G	C5'-C4'-C3'	-11.15	98.15	116.00
34	BA	323	C	C3'-C2'-C1'	-11.15	92.58	101.50
38	BE	87	U	C5'-C4'-C3'	-11.15	98.17	116.00
34	BA	1828	A	P-O3'-C3'	-11.14	106.33	119.70
35	BB	797	C	N3-C4-N4	-11.14	110.20	118.00
85	AA	1283	C	C6-N1-C2	-11.14	115.84	120.30
34	BA	910	U	C2-N3-C4	-11.14	120.32	127.00
34	BA	23	A	N1-C6-N6	-11.14	111.92	118.60
85	AA	1731	G	C6-N1-C2	-11.14	118.42	125.10
34	BA	53	G	C4-N9-C1'	-11.13	112.02	126.50
34	BA	167	U	C6-N1-C1'	11.13	136.79	121.20
35	BB	1145	G	N1-C6-O6	11.13	126.58	119.90
34	BA	1313	U	O4'-C1'-N1	11.13	117.10	108.20
35	BB	115	A	N1-C6-N6	11.13	125.28	118.60
35	BB	1202	G	C5-C6-O6	-11.13	121.92	128.60
85	AA	180	A	N1-C6-N6	-11.12	111.93	118.60
34	BA	547	C	C5'-C4'-O4'	-11.12	95.76	109.10
35	BB	899	C	C6-N1-C1'	11.12	134.14	120.80
65	Bf	170	TYR	CB-CG-CD1	11.12	127.67	121.00
41	BH	126	C	C6-N1-C2	-11.12	115.85	120.30
40	BG	106	G	C1'-O4'-C4'	-11.11	101.01	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
65	Bf	339	TYR	CB-CG-CD2	-11.12	114.33	121.00
34	BA	135	G	P-O3'-C3'	-11.11	106.36	119.70
34	BA	1674	G	O4'-C1'-N9	11.11	117.09	108.20
35	BB	1202	G	P-O3'-C3'	-11.11	106.37	119.70
40	BG	84	U	O4'-C1'-N1	11.11	117.09	108.20
34	BA	690	G	C5'-C4'-C3'	-11.11	98.22	116.00
35	BB	521	U	P-O3'-C3'	11.11	133.03	119.70
34	BA	770	G	O4'-C1'-N9	11.11	117.09	108.20
34	BA	1500	G	C5'-C4'-C3'	11.11	133.78	116.00
85	AA	1361	A	C5-C6-N6	-11.11	114.81	123.70
35	BB	638	G	C5-C6-O6	-11.11	121.94	128.60
42	BI	18	HIS	C-N-CA	11.11	149.47	121.70
66	Bg	96	PHE	CB-CG-CD1	11.11	128.57	120.80
85	AA	901	C	C6-N1-C2	-11.11	115.86	120.30
85	AA	1464	G	C5-C6-N1	11.11	117.05	111.50
34	BA	548	G	O4'-C1'-N9	11.10	117.08	108.20
34	BA	201	A	C5-C6-N6	11.10	132.58	123.70
35	BB	13	A	P-O3'-C3'	-11.10	106.38	119.70
85	AA	2231	G	C5-C6-O6	-11.10	121.94	128.60
36	BC	156	A	P-O3'-C3'	11.10	133.01	119.70
85	AA	1598	A	O3'-P-O5'	-11.10	82.92	104.00
85	AA	707	U	P-O3'-C3'	-11.09	106.39	119.70
85	AA	1092	G	C8-N9-C4	-11.09	101.96	106.40
41	BH	91	G	C5-C6-O6	11.09	135.25	128.60
34	BA	1668	C	C2-N1-C1'	-11.08	106.61	118.80
85	AA	2211	G	C8-N9-C1'	11.08	141.41	127.00
36	BC	16	A	C8-N9-C4	11.08	110.23	105.80
43	BJ	59	ARG	NE-CZ-NH2	-11.08	114.76	120.30
35	BB	12	G	C5'-C4'-C3'	11.07	133.72	116.00
34	BA	131	A	N1-C6-N6	-11.07	111.96	118.60
85	AA	619	A	C1'-O4'-C4'	-11.06	101.05	109.90
34	BA	140	C	N3-C4-N4	11.06	125.74	118.00
34	BA	1673	G	N1-C6-O6	-11.06	113.26	119.90
34	BA	557	U	O4'-C4'-C3'	-11.06	92.94	104.00
35	BB	653	G	N1-C6-O6	11.06	126.54	119.90
35	BB	1426	G	N1-C6-O6	-11.06	113.26	119.90
85	AA	52	U	C5'-C4'-C3'	-11.06	98.31	116.00
34	BA	1535	G	C5-C6-O6	-11.06	121.97	128.60
7	A6	163	PHE	CB-CG-CD1	11.05	128.54	120.80
34	BA	1614	G	N1-C6-O6	11.05	126.53	119.90
85	AA	207	G	P-O5'-C5'	11.05	138.59	120.90
85	AA	1134	G	N1-C6-O6	11.05	126.53	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2196	G	C4-N9-C1'	-11.05	112.13	126.50
34	BA	678	C	C2-N3-C4	-11.05	114.38	119.90
38	BE	184	G	C5'-C4'-C3'	11.05	133.68	116.00
85	AA	53	G	C4-N9-C1'	-11.05	112.14	126.50
85	AA	578	U	C5'-C4'-C3'	-11.05	98.32	116.00
85	AA	556	C	O3'-P-O5'	-11.04	83.01	104.00
85	AA	817	G	P-O3'-C3'	11.05	132.96	119.70
34	BA	1486	U	C2-N3-C4	-11.04	120.38	127.00
39	BF	12	U	O4'-C1'-N1	11.04	117.03	108.20
35	BB	1138	A	P-O3'-C3'	-11.04	106.45	119.70
35	BB	1018	U	C5'-C4'-C3'	-11.04	98.34	116.00
35	BB	1460	G	C5-C6-O6	-11.04	121.98	128.60
85	AA	1977	G	C5-C6-O6	-11.04	121.98	128.60
85	AA	277	G	P-O5'-C5'	11.04	138.56	120.90
37	BD	99	G	C5-C6-O6	-11.03	121.98	128.60
40	BG	168	A	P-O3'-C3'	11.04	132.94	119.70
37	BD	87	G	C8-N9-C1'	11.03	141.34	127.00
85	AA	14	C	C6-N1-C2	-11.03	115.89	120.30
85	AA	1654	G	N1-C6-O6	11.03	126.52	119.90
34	BA	816	G	P-O3'-C3'	-11.03	106.47	119.70
34	BA	125	G	P-O3'-C3'	-11.02	106.47	119.70
34	BA	628	U	C1'-O4'-C4'	-11.02	101.08	109.90
34	BA	1719	G	N1-C6-O6	-11.02	113.28	119.90
35	BB	1466	A	P-O5'-C5'	11.02	138.54	120.90
34	BA	558	C	O5'-P-OP1	-11.02	95.78	105.70
85	AA	1562	U	O4'-C1'-N1	11.02	117.02	108.20
34	BA	481	A	N1-C2-N3	11.02	134.81	129.30
34	BA	1716	A	N1-C2-N3	-11.02	123.79	129.30
34	BA	1197	U	C2-N1-C1'	-11.01	104.48	117.70
35	BB	490	G	C5'-C4'-C3'	-11.01	98.39	116.00
35	BB	750	G	C5-C6-O6	-11.01	122.00	128.60
34	BA	1180	A	P-O3'-C3'	11.01	132.91	119.70
34	BA	105	U	C5'-C4'-C3'	-11.00	98.39	116.00
83	Bx	119	ARG	NE-CZ-NH1	11.00	125.80	120.30
85	AA	673	A	N1-C6-N6	-11.00	112.00	118.60
35	BB	1302	C	C2-N1-C1'	-11.00	106.70	118.80
35	BB	383	U	O4'-C1'-N1	11.00	117.00	108.20
34	BA	502	U	C2-N1-C1'	-10.99	104.51	117.70
39	BF	22	U	C2-N3-C4	-10.99	120.40	127.00
85	AA	466	A	C4-C5-N7	-10.99	105.20	110.70
85	AA	2194	U	C2-N3-C4	-10.99	120.40	127.00
35	BB	1328	C	P-O5'-C5'	10.98	138.47	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1458	A	C4'-C3'-C2'	10.98	113.58	102.60
37	BD	89	G	P-O3'-C3'	-10.98	106.53	119.70
34	BA	561	U	P-O3'-C3'	-10.98	106.53	119.70
35	BB	1045	G	C5'-C4'-C3'	10.98	133.56	116.00
34	BA	1194	G	C4-N9-C1'	-10.97	112.23	126.50
40	BG	31	G	C6-C5-N7	-10.97	123.81	130.40
34	BA	1056	C	C6-N1-C2	-10.97	115.91	120.30
35	BB	701	U	O4'-C1'-N1	10.97	116.98	108.20
35	BB	1529	G	C5-C6-O6	-10.97	122.02	128.60
38	BE	117	A	C4-N9-C1'	10.97	146.05	126.30
85	AA	619	A	C5'-C4'-O4'	10.97	122.26	109.10
35	BB	1143	A	C5'-C4'-C3'	-10.96	98.46	116.00
4	A3	24	ARG	NE-CZ-NH1	10.96	125.78	120.30
34	BA	306	G	N1-C6-O6	-10.95	113.33	119.90
85	AA	775	C	C2-N1-C1'	-10.95	106.75	118.80
85	AA	1698	A	P-O3'-C3'	10.95	132.84	119.70
34	BA	863	G	P-O3'-C3'	10.95	132.84	119.70
37	BD	65	G	C4-N9-C1'	-10.95	112.27	126.50
34	BA	896	U	C5'-C4'-C3'	-10.94	98.49	116.00
85	AA	2146	G	C4-N9-C1'	-10.95	112.27	126.50
34	BA	1595	G	P-O3'-C3'	10.94	132.83	119.70
35	BB	653	G	O5'-P-OP1	-10.94	95.85	105.70
85	AA	736	U	C6-N1-C2	-10.94	114.43	121.00
34	BA	249	A	O4'-C1'-N9	10.94	116.95	108.20
40	BG	131	U	C2-N3-C4	-10.94	120.44	127.00
34	BA	340	U	P-O5'-C5'	10.93	138.39	120.90
36	BC	34	U	C2-N3-C4	-10.93	120.44	127.00
38	BE	130	G	C4-N9-C1'	10.93	140.70	126.50
40	BG	61	A	C5-C6-N6	-10.93	114.96	123.70
85	AA	1421	U	O4'-C1'-N1	10.93	116.94	108.20
17	AI	130	TYR	CB-CG-CD2	-10.92	114.45	121.00
34	BA	140	C	C2-N1-C1'	-10.92	106.79	118.80
35	BB	653	G	C5'-C4'-C3'	10.91	133.46	116.00
85	AA	487	G	P-O5'-C5'	10.91	138.36	120.90
85	AA	2121	G	C8-N9-C1'	10.91	141.19	127.00
34	BA	322	U	N3-C4-O4	-10.91	111.76	119.40
35	BB	374	A	O4'-C1'-N9	10.91	116.93	108.20
85	AA	1110	A	N1-C6-N6	-10.91	112.06	118.60
34	BA	214	A	P-O3'-C3'	10.91	132.79	119.70
34	BA	1810	A	O4'-C1'-N9	10.91	116.93	108.20
35	BB	792	G	O4'-C1'-N9	10.91	116.93	108.20
39	BF	56	C	C2-N1-C1'	-10.91	106.80	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	13	A	O4'-C1'-N9	10.91	116.92	108.20
35	BB	1494	G	C4-N9-C1'	-10.90	112.32	126.50
38	BE	151	C	P-O5'-C5'	10.90	138.35	120.90
34	BA	718	U	O4'-C1'-N1	10.90	116.92	108.20
35	BB	1532	C	C2-N3-C4	-10.90	114.45	119.90
85	AA	67	C	C6-N1-C2	-10.90	115.94	120.30
85	AA	1484	G	C6-N1-C2	-10.90	118.56	125.10
38	BE	133	C	C4'-C3'-C2'	-10.89	91.71	102.60
35	BB	361	A	P-O3'-C3'	10.89	132.77	119.70
34	BA	599	U	O4'-C1'-N1	10.89	116.91	108.20
35	BB	1413	U	P-O5'-C5'	10.89	138.32	120.90
38	BE	28	C	C5'-C4'-O4'	10.88	122.16	109.10
85	AA	436	G	C5-C6-O6	-10.89	122.07	128.60
85	AA	1007	G	C8-N9-C1'	10.88	141.15	127.00
34	BA	1563	G	P-O3'-C3'	10.88	132.76	119.70
85	AA	838	G	C5-C6-O6	-10.88	122.07	128.60
37	BD	25	G	O4'-C1'-N9	10.88	116.91	108.20
34	BA	151	A	O4'-C1'-N9	10.88	116.90	108.20
34	BA	796	G	N1-C6-O6	10.88	126.43	119.90
34	BA	1299	G	C5-C6-O6	-10.88	122.07	128.60
85	AA	1538	C	O4'-C1'-N1	10.88	116.90	108.20
86	AB	68	C	C2-N1-C1'	-10.88	106.83	118.80
38	BE	9	C	O3'-P-O5'	10.88	124.67	104.00
85	AA	2084	U	P-O3'-C3'	-10.88	106.65	119.70
35	BB	454	U	C5'-C4'-C3'	-10.87	98.60	116.00
40	BG	24	A	C6-C5-N7	-10.87	124.69	132.30
85	AA	854	A	O5'-C5'-C4'	10.87	132.35	111.70
35	BB	1006	C	O4'-C1'-N1	10.87	116.89	108.20
34	BA	603	U	P-O3'-C3'	-10.87	106.66	119.70
36	BC	3	C	O4'-C1'-N1	10.87	116.89	108.20
34	BA	15	G	N1-C6-O6	10.86	126.42	119.90
34	BA	483	A	P-O5'-C5'	10.86	138.28	120.90
39	BF	5	U	C2-N3-C4	-10.86	120.48	127.00
85	AA	1814	U	C6-N1-C2	-10.86	114.48	121.00
39	BF	23	G	O4'-C4'-C3'	-10.86	93.14	104.00
34	BA	625	U	O4'-C1'-N1	10.86	116.89	108.20
38	BE	36	U	N1-C2-N3	10.86	121.41	114.90
34	BA	1442	A	C6-N1-C2	-10.86	112.09	118.60
35	BB	1100	C	C5'-C4'-C3'	-10.85	98.64	116.00
41	BH	72	G	C4'-C3'-C2'	-10.85	91.75	102.60
85	AA	648	G	C4-N9-C1'	-10.85	112.40	126.50
34	BA	1002	U	C1'-O4'-C4'	-10.85	101.22	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	72	C	C6-N1-C2	-10.84	115.96	120.30
40	BG	11	G	P-O5'-C5'	10.84	138.25	120.90
85	AA	967	C	P-O5'-C5'	10.84	138.25	120.90
36	BC	110	A	C1'-O4'-C4'	-10.84	101.23	109.90
38	BE	70	C	P-O3'-C3'	10.84	132.71	119.70
85	AA	802	A	N1-C6-N6	10.84	125.11	118.60
34	BA	382	G	C8-N9-C4	-10.84	102.06	106.40
34	BA	800	G	N3-C4-C5	-10.84	123.18	128.60
41	BH	30	C	P-O5'-C5'	10.84	138.24	120.90
35	BB	703	U	P-O5'-C5'	10.83	138.23	120.90
35	BB	802	G	N1-C6-O6	-10.83	113.40	119.90
85	AA	1111	A	P-O3'-C3'	10.83	132.70	119.70
85	AA	1701	G	C8-N9-C1'	10.83	141.08	127.00
34	BA	557	U	N1-C1'-C2'	-10.83	99.92	114.00
85	AA	687	G	C5-C6-N1	10.83	116.92	111.50
39	BF	15	U	O4'-C1'-N1	10.83	116.86	108.20
85	AA	424	A	C3'-C2'-C1'	-10.83	92.84	101.50
34	BA	398	G	C5'-C4'-C3'	10.82	133.32	116.00
34	BA	1670	A	N1-C6-N6	-10.82	112.11	118.60
35	BB	949	G	P-O3'-C3'	10.82	132.69	119.70
34	BA	616	G	O4'-C1'-N9	10.82	116.86	108.20
35	BB	1346	A	C6-N1-C2	-10.82	112.11	118.60
38	BE	111	C	C2-N1-C1'	10.82	130.70	118.80
38	BE	58	U	C6-N1-C2	-10.82	114.51	121.00
40	BG	182	G	N1-C6-O6	10.81	126.39	119.90
85	AA	469	G	N1-C2-N3	10.81	130.39	123.90
34	BA	214	A	N1-C6-N6	10.81	125.09	118.60
38	BE	85	G	C5'-C4'-C3'	10.81	133.29	116.00
38	BE	116	U	P-O3'-C3'	-10.81	106.73	119.70
41	BH	75	G	N1-C2-N3	-10.81	117.42	123.90
34	BA	166	G	C4-N9-C1'	-10.80	112.45	126.50
40	BG	31	G	C5-C6-N1	10.80	116.90	111.50
40	BG	31	G	C4-C5-C6	-10.81	112.32	118.80
85	AA	555	C	C6-N1-C2	-10.81	115.98	120.30
85	AA	589	A	P-O3'-C3'	10.80	132.66	119.70
34	BA	216	C	P-O3'-C3'	-10.80	106.74	119.70
35	BB	392	G	N1-C6-O6	-10.80	113.42	119.90
35	BB	557	C	C6-N1-C2	-10.80	115.98	120.30
35	BB	1306	G	C5-C6-O6	10.80	135.08	128.60
34	BA	91	C	C3'-C2'-C1'	-10.79	92.86	101.50
85	AA	1002	G	C5-C6-O6	-10.79	122.12	128.60
85	AA	1469	G	C8-N9-C4	-10.79	102.08	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	63	G	N1-C6-O6	10.79	126.37	119.90
85	AA	2056	C	C6-N1-C1'	10.79	133.75	120.80
34	BA	1792	U	P-O3'-C3'	10.79	132.64	119.70
85	AA	1004	G	C8-N9-C4	-10.79	102.08	106.40
38	BE	133	C	C6-N1-C2	-10.78	115.99	120.30
34	BA	1845	G	N3-C2-N2	-10.78	112.35	119.90
38	BE	14	C	C6-N1-C2	-10.78	115.99	120.30
34	BA	1835	A	C5'-C4'-C3'	-10.78	98.75	116.00
85	AA	355	G	P-O3'-C3'	10.78	132.64	119.70
34	BA	1729	G	O4'-C1'-N9	10.78	116.82	108.20
34	BA	764	G	C5'-C4'-C3'	10.78	133.24	116.00
35	BB	991	C	O4'-C1'-N1	10.78	116.82	108.20
34	BA	116	G	C1'-O4'-C4'	-10.78	101.28	109.90
34	BA	1112	U	C6-N1-C2	-10.78	114.53	121.00
35	BB	1401	G	C5-C6-O6	-10.78	122.13	128.60
38	BE	91	G	C8-N9-C1'	10.78	141.01	127.00
85	AA	2060	G	C5-C6-O6	-10.78	122.14	128.60
85	AA	2084	U	P-O5'-C5'	10.78	138.14	120.90
36	BC	87	C	C5'-C4'-C3'	-10.77	98.77	116.00
85	AA	1493	A	P-O3'-C3'	-10.77	106.78	119.70
85	AA	994	A	P-O3'-C3'	-10.77	106.78	119.70
34	BA	1325	G	C5-C6-O6	-10.77	122.14	128.60
85	AA	504	U	C1'-O4'-C4'	-10.77	101.29	109.90
35	BB	1145	G	C5-C6-O6	-10.77	122.14	128.60
34	BA	343	G	C6-N1-C2	-10.76	118.64	125.10
34	BA	631	G	C4-N9-C1'	-10.76	112.51	126.50
61	Bb	32	ARG	NE-CZ-NH1	10.76	125.68	120.30
35	BB	970	C	O4'-C1'-N1	10.76	116.81	108.20
36	BC	168	C	C5'-C4'-C3'	-10.76	98.79	116.00
85	AA	742	U	C6-N1-C2	-10.76	114.55	121.00
34	BA	593	G	C8-N9-C4	-10.75	102.10	106.40
35	BB	1030	U	C1'-O4'-C4'	-10.75	101.30	109.90
85	AA	860	C	C6-N1-C1'	10.75	133.70	120.80
85	AA	2099	C	C2-N3-C4	-10.75	114.53	119.90
85	AA	2231	G	P-O5'-C5'	10.75	138.10	120.90
35	BB	1517	G	C5-C6-O6	-10.75	122.15	128.60
35	BB	1470	G	C5-C6-O6	-10.75	122.15	128.60
85	AA	489	C	O4'-C1'-N1	10.75	116.80	108.20
34	BA	1797	A	P-O3'-C3'	10.74	132.59	119.70
37	BD	25	G	C4-N9-C1'	-10.74	112.53	126.50
85	AA	961	U	C5'-C4'-C3'	-10.74	98.81	116.00
85	AA	899	A	P-O3'-C3'	-10.74	106.81	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	322	U	C5-C4-O4	10.74	132.34	125.90
38	BE	97	G	C5-C6-O6	-10.74	122.16	128.60
85	AA	1491	G	P-O3'-C3'	10.74	132.59	119.70
34	BA	1829	A	P-O3'-C3'	-10.74	106.81	119.70
38	BE	101	C	P-O5'-C5'	10.74	138.08	120.90
34	BA	575	U	C4'-C3'-C2'	10.73	113.33	102.60
85	AA	133	G	C4-N9-C1'	-10.73	112.55	126.50
40	BG	171	A	O4'-C4'-C3'	-10.73	93.27	104.00
40	BG	75	C	C2-N3-C4	-10.73	114.54	119.90
38	BE	89	G	C5-C6-O6	10.73	135.04	128.60
34	BA	1613	G	P-O3'-C3'	-10.72	106.83	119.70
34	BA	1722	U	C1'-O4'-C4'	-10.72	101.32	109.90
35	BB	669	A	P-O5'-C5'	10.72	138.05	120.90
41	BH	113	G	N1-C6-O6	10.72	126.33	119.90
35	BB	1168	G	C8-N9-C1'	10.72	140.94	127.00
35	BB	1495	U	C2-N3-C4	-10.72	120.57	127.00
85	AA	972	G	C5'-C4'-C3'	10.72	133.15	116.00
85	AA	1872	G	C5-C6-O6	-10.72	122.17	128.60
34	BA	593	G	O4'-C1'-N9	10.71	116.77	108.20
34	BA	780	U	O4'-C4'-C3'	-10.72	93.28	104.00
36	BC	59	A	N1-C6-N6	-10.71	112.17	118.60
85	AA	1713	A	O4'-C1'-N9	10.71	116.77	108.20
34	BA	240	C	O4'-C1'-N1	10.71	116.77	108.20
59	BZ	48	ARG	NE-CZ-NH1	10.71	125.66	120.30
85	AA	1458	G	C8-N9-C4	-10.71	102.12	106.40
85	AA	1247	A	C5-C6-N6	-10.70	115.14	123.70
34	BA	6	C	P-O5'-C5'	10.70	138.02	120.90
34	BA	1313	U	C1'-O4'-C4'	-10.70	101.34	109.90
65	Bf	416	PHE	CB-CG-CD1	-10.70	113.31	120.80
38	BE	117	A	C5-N7-C8	-10.69	98.55	103.90
34	BA	660	C	C2-N1-C1'	-10.69	107.04	118.80
35	BB	145	G	P-O3'-C3'	10.69	132.53	119.70
34	BA	856	G	P-O5'-C5'	10.69	138.00	120.90
35	BB	389	G	C5-C6-O6	-10.69	122.19	128.60
35	BB	809	U	C2-N1-C1'	-10.69	104.87	117.70
47	BN	52	PHE	CB-CG-CD1	10.69	128.28	120.80
85	AA	157	G	C8-N9-C4	10.69	110.68	106.40
34	BA	1218	G	N1-C6-O6	-10.69	113.49	119.90
85	AA	863	C	C2-N3-C4	-10.69	114.56	119.90
35	BB	91	G	C6-N1-C2	-10.68	118.69	125.10
85	AA	211	C	C5'-C4'-C3'	10.68	133.09	116.00
34	BA	626	G	C8-N9-C4	-10.68	102.13	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	303	A	C5'-C4'-C3'	10.68	133.08	116.00
34	BA	1569	C	C6-N1-C2	-10.67	116.03	120.30
38	BE	115	U	O4'-C1'-N1	10.67	116.74	108.20
41	BH	91	G	N1-C6-O6	-10.67	113.50	119.90
85	AA	908	C	C5'-C4'-C3'	-10.67	98.92	116.00
85	AA	8	U	P-O3'-C3'	10.67	132.50	119.70
85	AA	450	A	C1'-O4'-C4'	-10.67	101.36	109.90
85	AA	2208	G	C8-N9-C4	-10.67	102.13	106.40
34	BA	1808	A	P-O3'-C3'	-10.67	106.90	119.70
34	BA	651	U	C3'-C2'-C1'	-10.66	92.97	101.50
40	BG	14	G	C5'-C4'-C3'	10.66	133.06	116.00
34	BA	232	U	P-O5'-C5'	10.66	137.96	120.90
34	BA	587	U	P-O3'-C3'	10.66	132.49	119.70
85	AA	925	G	C4-N9-C1'	-10.66	112.64	126.50
85	AA	2033	C	O4'-C1'-N1	10.66	116.73	108.20
34	BA	596	G	C5-C6-O6	-10.66	122.21	128.60
38	BE	127	G	C2-N3-C4	10.66	117.23	111.90
34	BA	1204	U	C5'-C4'-C3'	-10.66	98.95	116.00
35	BB	1294	C	O4'-C1'-N1	10.66	116.73	108.20
40	BG	9	G	C6-N1-C2	-10.66	118.71	125.10
34	BA	260	A	N1-C6-N6	-10.65	112.21	118.60
85	AA	877	G	C5-C6-N1	10.65	116.83	111.50
36	BC	129	C	C6-N1-C2	-10.65	116.04	120.30
35	BB	993	A	P-O3'-C3'	-10.65	106.92	119.70
85	AA	976	G	C4-N9-C1'	-10.65	112.66	126.50
85	AA	989	U	O4'-C1'-N1	10.65	116.72	108.20
34	BA	18	G	C6-N1-C2	-10.65	118.71	125.10
34	BA	743	A	C5-C6-N6	-10.65	115.18	123.70
34	BA	865	C	O4'-C1'-N1	10.65	116.72	108.20
38	BE	115	U	O3'-P-O5'	-10.65	83.77	104.00
34	BA	1182	U	P-O5'-C5'	10.64	137.93	120.90
85	AA	120	C	C6-N1-C1'	-10.64	108.03	120.80
85	AA	2023	U	O4'-C1'-N1	10.64	116.71	108.20
41	BH	129	G	O4'-C1'-N9	10.64	116.71	108.20
85	AA	2077	G	C5-C6-O6	-10.64	122.22	128.60
34	BA	1613	G	N1-C6-O6	10.64	126.28	119.90
34	BA	1599	A	C5'-C4'-C3'	-10.64	98.98	116.00
34	BA	1830	A	O4'-C1'-N9	10.64	116.71	108.20
35	BB	1250	A	N1-C6-N6	-10.64	112.22	118.60
35	BB	833	G	C8-N9-C1'	10.64	140.83	127.00
35	BB	989	C	C2-N1-C1'	10.63	130.50	118.80
38	BE	195	G	C5-C6-O6	-10.64	122.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	182	G	C5-C6-O6	-10.63	122.22	128.60
85	AA	691	U	C6-N1-C2	-10.64	114.62	121.00
85	AA	899	A	O4'-C1'-N9	10.63	116.70	108.20
41	BH	111	U	O4'-C1'-N1	10.63	116.70	108.20
85	AA	1464	G	C1'-O4'-C4'	-10.63	101.39	109.90
34	BA	573	U	C5'-C4'-C3'	10.63	133.00	116.00
40	BG	62	C	C6-N1-C2	-10.63	116.05	120.30
85	AA	286	C	O4'-C1'-N1	10.62	116.70	108.20
85	AA	442	G	C5-C6-O6	-10.62	122.22	128.60
34	BA	570	G	N9-C4-C5	-10.62	101.15	105.40
41	BH	6	U	C2-N1-C1'	-10.62	104.95	117.70
85	AA	337	C	O4'-C1'-N1	10.62	116.70	108.20
85	AA	455	G	C2-N3-C4	-10.62	106.59	111.90
34	BA	690	G	C4-N9-C1'	-10.62	112.70	126.50
34	BA	736	G	C5-C6-O6	-10.62	122.23	128.60
35	BB	975	G	C5'-C4'-C3'	10.62	132.99	116.00
34	BA	985	C	C4'-C3'-C2'	10.61	113.21	102.60
41	BH	20	A	C5'-C4'-C3'	-10.62	99.02	116.00
34	BA	524	G	O3'-P-O5'	10.61	124.17	104.00
34	BA	572	G	O3'-P-O5'	10.61	124.16	104.00
40	BG	9	G	C8-N9-C1'	10.61	140.79	127.00
41	BH	123	G	N9-C1'-C2'	-10.61	100.21	114.00
34	BA	25	C	O4'-C1'-N1	10.61	116.68	108.20
34	BA	1730	A	P-O5'-C5'	10.61	137.87	120.90
35	BB	692	G	C5-C6-O6	10.61	134.96	128.60
85	AA	325	C	P-O3'-C3'	10.61	132.43	119.70
85	AA	424	A	P-O3'-C3'	-10.61	106.97	119.70
34	BA	578	C	O4'-C1'-N1	10.60	116.68	108.20
35	BB	1212	C	C2-N3-C4	-10.60	114.60	119.90
34	BA	944	G	C4-N9-C1'	-10.60	112.72	126.50
39	BF	51	C	O3'-P-O5'	-10.60	83.86	104.00
35	BB	57	G	N9-C1'-C2'	-10.60	100.22	114.00
35	BB	1229	A	O3'-P-O5'	10.60	124.13	104.00
36	BC	169	G	C4-N9-C1'	-10.60	112.72	126.50
85	AA	1814	U	N3-C2-O2	-10.60	114.78	122.20
38	BE	136	G	P-O3'-C3'	-10.59	106.99	119.70
85	AA	1683	U	C2-N1-C1'	10.59	130.41	117.70
34	BA	248	G	C5-C6-O6	-10.59	122.25	128.60
34	BA	547	C	C3'-C2'-C1'	10.59	109.97	101.50
34	BA	1364	G	O4'-C1'-N9	10.59	116.67	108.20
38	BE	117	A	C8-N9-C4	-10.59	101.56	105.80
39	BF	54	U	C4'-C3'-C2'	-10.59	92.01	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	175	G	P-O5'-C5'	10.59	137.85	120.90
35	BB	60	A	C1'-O4'-C4'	-10.59	101.43	109.90
35	BB	1188	A	N1-C6-N6	-10.59	112.25	118.60
34	BA	870	C	O4'-C1'-N1	10.58	116.67	108.20
35	BB	1226	G	N1-C6-O6	10.58	126.25	119.90
85	AA	1979	A	O4'-C1'-N9	10.58	116.67	108.20
85	AA	2082	C	C6-N1-C2	-10.58	116.07	120.30
34	BA	882	G	C4-N9-C1'	-10.58	112.74	126.50
85	AA	668	A	P-O3'-C3'	10.58	132.40	119.70
34	BA	944	G	C5-C6-O6	-10.58	122.25	128.60
35	BB	780	U	C2-N3-C4	-10.58	120.65	127.00
35	BB	901	U	P-O5'-C5'	10.58	137.82	120.90
85	AA	687	G	C2'-C3'-O3'	10.58	132.77	109.50
36	BC	121	G	P-O3'-C3'	10.58	132.39	119.70
35	BB	1441	C	C6-N1-C1'	-10.57	108.11	120.80
85	AA	561	C	O4'-C1'-N1	10.57	116.66	108.20
85	AA	2075	C	P-O5'-C5'	10.57	137.82	120.90
27	AT	65	PHE	CB-CG-CD2	-10.57	113.40	120.80
35	BB	1520	C	O4'-C1'-N1	10.57	116.66	108.20
34	BA	140	C	C5-C4-N4	-10.57	112.80	120.20
85	AA	1921	G	O5'-C5'-C4'	10.57	131.78	111.70
35	BB	991	C	P-O3'-C3'	10.56	132.38	119.70
85	AA	1999	C	O4'-C1'-N1	10.56	116.65	108.20
34	BA	712	C	O4'-C1'-N1	10.56	116.65	108.20
85	AA	333	A	P-O3'-C3'	10.56	132.38	119.70
37	BD	47	U	P-O3'-C3'	10.56	132.37	119.70
85	AA	82	A	O3'-P-O5'	-10.56	83.94	104.00
34	BA	993	C	C2-N3-C4	-10.56	114.62	119.90
34	BA	1689	U	P-O3'-C3'	10.55	132.37	119.70
35	BB	1148	U	P-O3'-C3'	10.55	132.37	119.70
38	BE	55	C	C2-N1-C1'	10.56	130.41	118.80
35	BB	1535	G	P-O5'-C5'	-10.55	104.02	120.90
86	AB	67	C	C5'-C4'-C3'	-10.55	99.11	116.00
34	BA	605	G	C5'-C4'-O4'	10.55	121.76	109.10
34	BA	214	A	C5-C6-N6	-10.55	115.26	123.70
85	AA	510	A	P-O3'-C3'	10.55	132.36	119.70
34	BA	65	A	P-O5'-C5'	10.55	137.78	120.90
34	BA	136	A	C4-N9-C1'	-10.55	107.31	126.30
85	AA	386	G	C4-N9-C1'	10.55	140.21	126.50
35	BB	1063	C	C2-N1-C1'	-10.55	107.20	118.80
15	AG	121	ARG	NE-CZ-NH1	10.55	125.57	120.30
34	BA	326	A	P-O3'-C3'	-10.55	107.04	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	76	C	P-O3'-C3'	-10.55	107.05	119.70
37	BD	26	C	C3'-C2'-C1'	-10.55	93.06	101.50
85	AA	658	C	C6-N1-C2	-10.55	116.08	120.30
39	BF	7	G	C8-N9-C1'	-10.54	113.29	127.00
50	BQ	164	ARG	NE-CZ-NH2	-10.54	115.03	120.30
35	BB	17	U	P-O5'-C5'	10.54	137.77	120.90
23	AP	87	ARG	NE-CZ-NH1	10.54	125.57	120.30
34	BA	1070	G	N3-C2-N2	10.54	127.28	119.90
35	BB	2	C	O4'-C1'-N1	10.54	116.63	108.20
40	BG	4	A	N1-C6-N6	-10.54	112.28	118.60
41	BH	32	U	C2-N3-C4	-10.54	120.67	127.00
38	BE	135	A	O4'-C1'-N9	10.54	116.63	108.20
48	BO	103	ARG	NE-CZ-NH1	10.54	125.57	120.30
85	AA	740	A	O4'-C1'-N9	10.54	116.63	108.20
35	BB	882	U	P-O3'-C3'	10.53	132.34	119.70
35	BB	129	U	C2-N3-C4	-10.53	120.68	127.00
85	AA	1495	G	O5'-C5'-C4'	-10.53	91.69	111.70
35	BB	800	U	P-O5'-C5'	10.53	137.75	120.90
35	BB	868	C	C6-N1-C1'	10.53	133.43	120.80
85	AA	424	A	C4'-C3'-O3'	10.53	134.06	113.00
49	BP	11	ARG	NE-CZ-NH1	10.53	125.56	120.30
85	AA	1499	G	C4-N9-C1'	-10.53	112.82	126.50
34	BA	764	G	O4'-C1'-N9	10.52	116.62	108.20
85	AA	861	G	C2-N3-C4	-10.52	106.64	111.90
72	Bm	38	TYR	CB-CG-CD1	-10.52	114.69	121.00
34	BA	24	C	C6-N1-C2	-10.52	116.09	120.30
34	BA	670	U	O4'-C1'-N1	10.52	116.61	108.20
35	BB	796	C	O4'-C1'-N1	10.52	116.61	108.20
85	AA	1729	C	C6-N1-C2	-10.52	116.09	120.30
40	BG	24	A	P-O5'-C5'	-10.52	104.08	120.90
40	BG	105	A	P-O5'-C5'	10.52	137.73	120.90
54	BU	49	ARG	NE-CZ-NH1	10.52	125.56	120.30
86	AB	65	G	C5-C6-O6	-10.52	122.29	128.60
35	BB	816	U	N1-C2-N3	10.51	121.21	114.90
35	BB	756	C	O4'-C1'-N1	10.51	116.61	108.20
35	BB	1026	G	P-O5'-C5'	10.51	137.71	120.90
40	BG	85	C	C6-N1-C2	-10.51	116.10	120.30
31	AX	152	ARG	NE-CZ-NH1	10.50	125.55	120.30
35	BB	833	G	C1'-O4'-C4'	-10.50	101.50	109.90
85	AA	538	A	O4'-C1'-N9	10.50	116.60	108.20
35	BB	868	C	N3-C2-O2	-10.50	114.55	121.90
85	AA	986	U	C6-N1-C1'	10.50	135.90	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	23	G	C8-N9-C4	-10.50	102.20	106.40
42	BI	187	ARG	NE-CZ-NH1	10.50	125.55	120.30
65	Bf	170	TYR	CB-CG-CD2	-10.50	114.70	121.00
86	AB	39	U	O4'-C1'-N1	10.50	116.60	108.20
35	BB	691	A	N1-C6-N6	10.49	124.90	118.60
85	AA	357	C	O4'-C1'-N1	10.49	116.60	108.20
35	BB	472	C	C2-N1-C1'	-10.49	107.26	118.80
35	BB	261	C	O4'-C1'-N1	10.49	116.59	108.20
85	AA	203	C	O4'-C1'-N1	10.49	116.59	108.20
34	BA	604	G	O5'-P-OP2	-10.49	96.26	105.70
85	AA	964	C	C2-N1-C1'	10.48	130.33	118.80
34	BA	1786	C	C6-N1-C2	-10.48	116.11	120.30
85	AA	984	A	C5'-C4'-C3'	-10.48	99.23	116.00
85	AA	205	A	P-O3'-C3'	-10.48	107.12	119.70
85	AA	456	A	P-O3'-C3'	-10.48	107.12	119.70
85	AA	992	G	C8-N9-C1'	10.48	140.63	127.00
34	BA	519	G	O4'-C1'-N9	10.48	116.58	108.20
85	AA	1456	A	O4'-C1'-N9	10.48	116.58	108.20
85	AA	1095	C	O4'-C1'-N1	10.48	116.58	108.20
35	BB	815	G	C4-N9-C1'	-10.48	112.88	126.50
42	BI	159	PHE	CB-CG-CD2	-10.47	113.47	120.80
34	BA	223	U	C2-N3-C4	-10.47	120.72	127.00
35	BB	423	G	N1-C6-O6	-10.47	113.62	119.90
40	BG	14	G	C5-C6-O6	-10.47	122.32	128.60
85	AA	881	C	O4'-C1'-N1	10.47	116.58	108.20
85	AA	914	U	O4'-C1'-N1	10.46	116.57	108.20
41	BH	75	G	OP1-P-OP2	-10.46	103.91	119.60
34	BA	1711	G	C5'-C4'-C3'	-10.46	99.27	116.00
85	AA	721	C	C6-N1-C2	-10.46	116.12	120.30
35	BB	1509	G	C5'-C4'-C3'	-10.46	99.27	116.00
85	AA	1115	G	C6-N1-C2	-10.46	118.83	125.10
34	BA	1830	A	C5'-C4'-C3'	-10.46	99.27	116.00
85	AA	645	C	C6-N1-C2	-10.46	116.12	120.30
34	BA	1200	U	C2-N1-C1'	10.45	130.24	117.70
35	BB	1137	G	C5'-C4'-C3'	-10.45	99.28	116.00
38	BE	13	A	C4'-C3'-C2'	10.45	113.05	102.60
85	AA	715	G	O4'-C1'-N9	10.45	116.56	108.20
35	BB	76	C	O4'-C1'-N1	10.45	116.56	108.20
37	BD	47	U	C5'-C4'-C3'	10.45	132.71	116.00
41	BH	34	G	C5'-C4'-C3'	-10.45	99.29	116.00
85	AA	386	G	C8-N9-C1'	-10.45	113.42	127.00
85	AA	455	G	C5'-C4'-C3'	-10.44	99.29	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	804	G	C4'-C3'-C2'	-10.44	92.16	102.60
85	AA	1916	A	C2-N3-C4	-10.44	105.38	110.60
38	BE	71	A	P-O3'-C3'	10.44	132.22	119.70
35	BB	1312	U	P-O5'-C5'	10.44	137.60	120.90
34	BA	480	G	C8-N9-C4	10.44	110.57	106.40
5	A4	71	ARG	NE-CZ-NH1	10.43	125.52	120.30
34	BA	1641	G	C8-N9-C1'	10.43	140.56	127.00
85	AA	684	G	C6-N1-C2	-10.43	118.84	125.10
85	AA	1730	C	O3'-P-O5'	-10.43	84.18	104.00
41	BH	134	U	C2-N1-C1'	-10.43	105.19	117.70
85	AA	2082	C	C2-N1-C1'	10.43	130.27	118.80
34	BA	669	U	O4'-C1'-N1	10.43	116.54	108.20
35	BB	389	G	N1-C6-O6	10.43	126.16	119.90
35	BB	1357	C	C6-N1-C1'	-10.42	108.29	120.80
35	BB	1514	G	C8-N9-C1'	10.42	140.55	127.00
34	BA	1080	U	C5'-C4'-C3'	10.42	132.67	116.00
35	BB	867	C	O4'-C1'-N1	10.42	116.54	108.20
35	BB	1235	A	P-O5'-C5'	-10.42	104.23	120.90
41	BH	123	G	C5-C6-O6	-10.42	122.35	128.60
34	BA	242	U	C2-N3-C4	-10.42	120.75	127.00
34	BA	1568	A	N1-C6-N6	10.41	124.85	118.60
34	BA	255	G	C5'-C4'-C3'	-10.41	99.34	116.00
85	AA	801	U	P-O5'-C5'	10.41	137.56	120.90
7	A6	15	ARG	NE-CZ-NH1	10.41	125.50	120.30
34	BA	755	G	C5-C6-O6	-10.41	122.35	128.60
38	BE	191	U	P-O5'-C5'	-10.41	104.25	120.90
85	AA	68	A	C5'-C4'-C3'	-10.41	99.35	116.00
34	BA	521	C	O4'-C1'-N1	10.41	116.53	108.20
36	BC	123	G	N1-C6-O6	10.41	126.14	119.90
34	BA	141	G	N1-C6-O6	10.40	126.14	119.90
85	AA	1935	G	P-O5'-C5'	10.40	137.55	120.90
34	BA	668	G	P-O3'-C3'	-10.40	107.22	119.70
34	BA	1184	A	O4'-C1'-N9	10.40	116.52	108.20
34	BA	1735	G	N1-C6-O6	10.40	126.14	119.90
15	AG	94	ARG	NE-CZ-NH1	10.40	125.50	120.30
34	BA	1468	U	C5'-C4'-C3'	-10.40	99.36	116.00
35	BB	1151	A	C8-N9-C4	-10.40	101.64	105.80
34	BA	489	A	O4'-C1'-N9	10.40	116.52	108.20
84	By	94	TYR	CB-CG-CD1	-10.40	114.76	121.00
34	BA	837	U	O3'-P-O5'	-10.40	84.25	104.00
35	BB	1052	G	N1-C6-O6	10.39	126.14	119.90
35	BB	1167	C	C6-N1-C2	-10.39	116.14	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	90	A	O4'-C1'-N9	10.39	116.52	108.20
38	BE	130	G	C5'-C4'-C3'	10.39	132.63	116.00
35	BB	1410	G	C5'-C4'-C3'	-10.39	99.38	116.00
34	BA	81	C	C4'-C3'-C2'	10.39	112.99	102.60
35	BB	599	U	C5'-C4'-C3'	-10.39	99.38	116.00
35	BB	1480	G	N1-C6-O6	10.38	126.13	119.90
39	BF	16	C	C5'-C4'-C3'	10.38	132.61	116.00
85	AA	696	G	P-O3'-C3'	10.38	132.16	119.70
34	BA	804	G	C8-N9-C4	-10.38	102.25	106.40
34	BA	6	C	O5'-P-OP2	-10.38	96.36	105.70
34	BA	214	A	C3'-C2'-C1'	-10.38	93.19	101.50
35	BB	1302	C	C5-C4-N4	-10.38	112.93	120.20
34	BA	620	C	O4'-C1'-N1	10.38	116.50	108.20
41	BH	62	C	O4'-C1'-N1	10.38	116.50	108.20
85	AA	2241	C	O4'-C1'-N1	10.38	116.50	108.20
34	BA	1320	A	N1-C2-N3	-10.37	124.11	129.30
38	BE	132	U	C2-N1-C1'	-10.37	105.25	117.70
85	AA	731	U	C2-N3-C4	-10.37	120.78	127.00
34	BA	1688	G	C5-C6-O6	-10.37	122.38	128.60
35	BB	555	G	C5'-C4'-C3'	-10.37	99.41	116.00
85	AA	1310	G	N1-C6-O6	10.37	126.12	119.90
85	AA	1650	G	P-O3'-C3'	10.37	132.15	119.70
35	BB	6	A	C5'-C4'-C3'	-10.37	99.42	116.00
34	BA	574	U	O4'-C1'-N1	10.36	116.49	108.20
37	BD	92	G	O4'-C1'-N9	10.36	116.49	108.20
34	BA	111	U	C3'-C2'-C1'	-10.36	93.21	101.50
34	BA	692	U	N3-C2-O2	10.36	129.45	122.20
35	BB	1134	G	N1-C6-O6	10.36	126.11	119.90
34	BA	141	G	C5-C6-O6	-10.36	122.39	128.60
34	BA	194	G	N1-C6-O6	-10.35	113.69	119.90
34	BA	15	G	C8-N9-C4	10.35	110.54	106.40
34	BA	1732	A	C5'-C4'-O4'	10.35	121.52	109.10
85	AA	408	C	C6-N1-C2	-10.35	116.16	120.30
85	AA	963	U	C1'-O4'-C4'	-10.35	101.62	109.90
35	BB	619	A	P-O3'-C3'	-10.35	107.28	119.70
47	BN	120	ARG	NE-CZ-NH1	10.35	125.47	120.30
36	BC	25	C	C5-C4-N4	-10.35	112.96	120.20
85	AA	1506	U	C2-N1-C1'	-10.35	105.28	117.70
85	AA	1829	C	C2-N3-C4	-10.35	114.73	119.90
34	BA	172	A	N1-C6-N6	10.34	124.81	118.60
34	BA	72	U	O5'-P-OP1	10.34	123.11	110.70
34	BA	1474	G	C5'-C4'-C3'	-10.34	99.45	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	157	U	P-O3'-C3'	10.34	132.10	119.70
34	BA	526	C	P-O3'-C3'	10.34	132.11	119.70
34	BA	528	C	C5'-C4'-C3'	10.34	132.54	116.00
35	BB	115	A	C5-C6-N6	-10.34	115.43	123.70
85	AA	2200	A	C5'-C4'-C3'	-10.33	99.47	116.00
34	BA	875	G	N9-C4-C5	-10.33	101.27	105.40
85	AA	2018	U	C2-N3-C4	-10.33	120.80	127.00
34	BA	429	G	C5-C6-O6	-10.33	122.40	128.60
34	BA	618	G	C8-N9-C4	-10.33	102.27	106.40
85	AA	941	C	P-O3'-C3'	10.33	132.09	119.70
34	BA	1673	G	P-O3'-C3'	-10.32	107.31	119.70
35	BB	878	G	N9-C1'-C2'	-10.32	100.58	114.00
34	BA	1410	C	C5'-C4'-C3'	-10.32	99.49	116.00
35	BB	1062	G	C5-C6-O6	-10.32	122.41	128.60
34	BA	508	C	P-O3'-C3'	10.32	132.08	119.70
34	BA	1042	U	P-O3'-C3'	10.31	132.08	119.70
34	BA	1294	C	O4'-C1'-N1	10.31	116.45	108.20
85	AA	658	C	C5'-C4'-C3'	-10.31	99.50	116.00
35	BB	781	U	P-O5'-C5'	10.31	137.40	120.90
41	BH	98	U	O5'-P-OP1	10.31	123.07	110.70
34	BA	691	A	P-O3'-C3'	-10.30	107.33	119.70
35	BB	490	G	P-O5'-C5'	-10.30	104.42	120.90
85	AA	2220	U	P-O3'-C3'	-10.30	107.33	119.70
85	AA	730	G	C8-N9-C1'	10.30	140.39	127.00
34	BA	1416	C	C5'-C4'-C3'	10.30	132.48	116.00
85	AA	2014	G	C5-C6-O6	-10.30	122.42	128.60
85	AA	15	U	C2-N3-C4	-10.29	120.82	127.00
85	AA	313	A	C8-N9-C4	10.29	109.92	105.80
85	AA	816	A	O4'-C1'-N9	10.29	116.43	108.20
41	BH	133	U	C2-N3-C4	-10.29	120.83	127.00
85	AA	114	C	O4'-C1'-N1	10.29	116.43	108.20
34	BA	289	A	P-O3'-C3'	10.29	132.05	119.70
34	BA	801	U	P-O3'-C3'	-10.29	107.36	119.70
34	BA	923	C	C3'-C2'-C1'	-10.29	93.27	101.50
41	BH	119	U	C2-N1-C1'	-10.29	105.36	117.70
34	BA	787	A	P-O3'-C3'	10.28	132.04	119.70
34	BA	71	G	C8-N9-C4	-10.28	102.29	106.40
35	BB	530	C	P-O5'-C5'	10.28	137.35	120.90
35	BB	1465	U	P-O5'-C5'	-10.28	104.45	120.90
34	BA	939	C	C6-N1-C2	-10.28	116.19	120.30
34	BA	1455	C	C4'-C3'-C2'	10.28	112.88	102.60
40	BG	16	G	O4'-C1'-N9	10.28	116.42	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	149	G	O4'-C1'-N9	10.28	116.42	108.20
85	AA	1225	C	C2-N1-C1'	10.28	130.10	118.80
34	BA	103	G	C4-N9-C1'	-10.27	113.15	126.50
34	BA	480	G	P-O3'-C3'	-10.27	107.37	119.70
35	BB	1537	C	P-O5'-C5'	10.27	137.34	120.90
85	AA	327	G	O4'-C4'-C3'	-10.27	93.73	104.00
85	AA	1358	A	O4'-C1'-N9	10.27	116.42	108.20
86	AB	70	G	P-O3'-C3'	-10.27	107.38	119.70
34	BA	114	U	C5'-C4'-O4'	-10.27	96.78	109.10
34	BA	1744	C	O4'-C1'-N1	10.27	116.41	108.20
36	BC	6	G	C5-C6-O6	-10.27	122.44	128.60
34	BA	576	C	P-O3'-C3'	10.26	132.02	119.70
35	BB	1515	C	C6-N1-C2	-10.26	116.19	120.30
36	BC	124	A	C5'-C4'-C3'	10.26	132.42	116.00
85	AA	942	A	C1'-O4'-C4'	-10.26	101.69	109.90
85	AA	1909	C	P-O3'-C3'	10.26	132.02	119.70
85	AA	365	G	C4-N9-C1'	-10.26	113.16	126.50
42	BI	159	PHE	CB-CG-CD1	10.26	127.98	120.80
40	BG	157	A	N1-C6-N6	-10.26	112.44	118.60
85	AA	2011	C	O4'-C1'-N1	10.26	116.40	108.20
34	BA	768	G	C5-C6-O6	-10.25	122.45	128.60
85	AA	2066	C	C6-N1-C2	-10.25	116.20	120.30
34	BA	114	U	C2-N1-C1'	-10.25	105.40	117.70
84	By	113	PHE	CB-CG-CD2	-10.25	113.63	120.80
85	AA	2149	C	O4'-C1'-N1	10.25	116.40	108.20
85	AA	1125	G	C6-N1-C2	-10.25	118.95	125.10
85	AA	266	U	P-O3'-C3'	10.24	131.99	119.70
85	AA	370	A	O4'-C1'-N9	10.24	116.39	108.20
34	BA	1574	C	C5'-C4'-C3'	10.24	132.38	116.00
85	AA	788	G	C4'-C3'-C2'	10.24	112.84	102.60
38	BE	83	U	P-O3'-C3'	-10.24	107.42	119.70
85	AA	1799	C	C5-C4-N4	-10.24	113.03	120.20
34	BA	631	G	N3-C2-N2	-10.23	112.74	119.90
34	BA	1736	A	P-O3'-C3'	-10.23	107.42	119.70
35	BB	133	G	P-O3'-C3'	-10.23	107.42	119.70
38	BE	117	A	C5-C6-N6	-10.23	115.51	123.70
34	BA	115	U	C3'-C2'-C1'	-10.23	93.32	101.50
34	BA	1350	C	C6-N1-C2	-10.23	116.21	120.30
85	AA	87	C	C5'-C4'-C3'	-10.23	99.63	116.00
85	AA	1251	G	P-O3'-C3'	-10.23	107.42	119.70
34	BA	871	G	C5-N7-C8	10.23	109.41	104.30
34	BA	1193	A	N1-C6-N6	-10.23	112.46	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	495	G	C8-N9-C1'	10.23	140.29	127.00
38	BE	88	G	C5-C6-O6	-10.22	122.47	128.60
39	BF	32	G	N1-C6-O6	10.22	126.03	119.90
41	BH	50	A	P-O5'-C5'	10.22	137.26	120.90
22	AO	89	TYR	CB-CG-CD2	10.22	127.13	121.00
35	BB	589	U	C3'-C2'-C1'	-10.22	93.32	101.50
34	BA	753	G	C5-C6-O6	-10.22	122.47	128.60
37	BD	99	G	P-O5'-C5'	10.22	137.25	120.90
38	BE	23	G	C1'-O4'-C4'	-10.22	101.73	109.90
41	BH	41	A	C8-N9-C4	10.22	109.89	105.80
85	AA	1096	G	C8-N9-C1'	10.22	140.28	127.00
38	BE	188	C	C1'-O4'-C4'	-10.21	101.73	109.90
34	BA	247	U	C2-N3-C4	-10.21	120.87	127.00
34	BA	570	G	C8-N9-C4	10.21	110.48	106.40
34	BA	658	C	P-O5'-C5'	10.21	137.24	120.90
34	BA	1454	G	C8-N9-C4	10.21	110.48	106.40
35	BB	684	U	C6-N1-C2	-10.21	114.87	121.00
35	BB	1449	G	C5-C6-O6	-10.21	122.47	128.60
34	BA	291	C	O4'-C1'-N1	10.21	116.37	108.20
34	BA	1651	C	P-O3'-C3'	10.21	131.95	119.70
38	BE	160	C	P-O3'-C3'	-10.21	107.45	119.70
40	BG	35	G	P-O5'-C5'	10.21	137.23	120.90
85	AA	1469	G	C1'-O4'-C4'	10.21	118.06	109.90
36	BC	113	G	C5-C6-O6	-10.21	122.48	128.60
34	BA	582	U	C2-N3-C4	-10.20	120.88	127.00
38	BE	30	C	O4'-C1'-N1	10.20	116.36	108.20
85	AA	485	A	C5'-C4'-C3'	-10.21	99.67	116.00
34	BA	370	U	P-O3'-C3'	10.20	131.94	119.70
34	BA	991	U	O4'-C1'-N1	10.20	116.36	108.20
34	BA	1299	G	P-O3'-C3'	10.20	131.94	119.70
35	BB	88	U	C2-N3-C4	-10.20	120.88	127.00
35	BB	500	C	O4'-C1'-N1	10.20	116.36	108.20
35	BB	1347	C	P-O5'-C5'	10.20	137.22	120.90
86	AB	6	G	C8-N9-C1'	10.20	140.26	127.00
85	AA	2155	U	C6-N1-C2	-10.20	114.88	121.00
85	AA	778	C	C5'-C4'-C3'	10.19	132.31	116.00
85	AA	1132	A	P-O3'-C3'	-10.19	107.47	119.70
85	AA	2209	U	C3'-C2'-C1'	-10.19	93.35	101.50
35	BB	1347	C	C6-N1-C2	-10.19	116.22	120.30
34	BA	141	G	N1-C2-N2	10.18	125.37	116.20
34	BA	821	G	C5-C6-O6	-10.18	122.49	128.60
34	BA	440	A	N1-C6-N6	-10.18	112.49	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	765	U	C2-N1-C1'	10.18	129.92	117.70
34	BA	814	C	C6-N1-C1'	-10.18	108.58	120.80
85	AA	227	A	N1-C6-N6	-10.18	112.49	118.60
40	BG	33	G	C2-N3-C4	-10.18	106.81	111.90
34	BA	237	A	O4'-C1'-N9	10.18	116.34	108.20
34	BA	924	U	P-O5'-C5'	10.18	137.19	120.90
41	BH	23	G	C5-C6-O6	-10.18	122.49	128.60
85	AA	854	A	O4'-C1'-N9	10.18	116.34	108.20
34	BA	98	A	N1-C6-N6	10.18	124.71	118.60
34	BA	502	U	P-O5'-C5'	-10.18	104.62	120.90
36	BC	1	A	P-O3'-C3'	10.18	131.91	119.70
40	BG	174	G	C5'-C4'-C3'	10.18	132.28	116.00
85	AA	192	G	O4'-C1'-N9	10.18	116.34	108.20
85	AA	342	C	O4'-C1'-N1	10.18	116.34	108.20
85	AA	640	C	O4'-C1'-N1	10.18	116.34	108.20
85	AA	1209	U	C6-N1-C2	-10.17	114.90	121.00
34	BA	606	G	O3'-P-O5'	10.17	123.33	104.00
85	AA	523	U	P-O3'-C3'	10.17	131.91	119.70
85	AA	1468	G	C5'-C4'-C3'	10.17	132.28	116.00
34	BA	1519	G	N1-C6-O6	-10.17	113.80	119.90
34	BA	1145	U	C5'-C4'-C3'	-10.17	99.73	116.00
35	BB	834	U	C6-N1-C2	-10.17	114.90	121.00
70	Bk	120	ARG	NE-CZ-NH1	10.17	125.39	120.30
37	BD	62	A	P-O3'-C3'	10.17	131.90	119.70
38	BE	30	C	C6-N1-C2	-10.17	116.23	120.30
85	AA	571	G	O4'-C1'-N9	10.17	116.33	108.20
35	BB	560	C	C5'-C4'-C3'	10.16	132.26	116.00
34	BA	177	G	P-O3'-C3'	10.16	131.90	119.70
35	BB	1497	C	P-O5'-C5'	10.16	137.16	120.90
40	BG	24	A	C5-C6-N1	10.16	122.78	117.70
41	BH	126	C	C5'-C4'-C3'	-10.16	99.74	116.00
85	AA	588	G	N1-C6-O6	10.16	126.00	119.90
35	BB	566	A	N1-C6-N6	-10.16	112.50	118.60
41	BH	24	U	C3'-C2'-C1'	-10.16	93.37	101.50
85	AA	112	A	C5'-C4'-C3'	-10.16	99.74	116.00
85	AA	1463	A	C5'-C4'-C3'	-10.16	99.74	116.00
35	BB	1132	A	P-O5'-C5'	10.16	137.15	120.90
35	BB	1166	A	C8-N9-C4	10.16	109.86	105.80
36	BC	169	G	C8-N9-C1'	10.16	140.21	127.00
85	AA	5	U	O4'-C1'-N1	10.16	116.33	108.20
85	AA	268	A	O4'-C1'-N9	10.16	116.33	108.20
85	AA	1524	A	P-O5'-C5'	10.16	137.16	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1004	G	C8-N9-C1'	10.16	140.21	127.00
35	BB	773	G	N1-C6-O6	10.15	125.99	119.90
34	BA	110	C	N1-C1'-C2'	-10.15	100.80	114.00
85	AA	609	U	P-O5'-C5'	-10.15	104.66	120.90
34	BA	1188	U	P-O3'-C3'	10.15	131.88	119.70
85	AA	496	C	C6-N1-C2	-10.15	116.24	120.30
36	BC	7	U	C2-N1-C1'	10.15	129.88	117.70
36	BC	34	U	P-O5'-C5'	-10.15	104.66	120.90
41	BH	72	G	C4'-C3'-O3'	10.15	133.30	113.00
39	BF	22	U	N3-C2-O2	-10.15	115.10	122.20
34	BA	1199	U	O4'-C1'-N1	10.14	116.31	108.20
35	BB	797	C	C5-C4-N4	10.14	127.30	120.20
35	BB	1347	C	P-O3'-C3'	-10.14	107.53	119.70
1	A0	210	ARG	NE-CZ-NH1	-10.14	115.23	120.30
36	BC	17	U	C5'-C4'-C3'	-10.14	99.78	116.00
41	BH	77	G	C5-C6-O6	-10.14	122.52	128.60
85	AA	964	C	P-O3'-C3'	-10.14	107.54	119.70
34	BA	1626	U	C5'-C4'-O4'	-10.14	96.94	109.10
34	BA	1097	G	C5'-C4'-C3'	10.13	132.21	116.00
34	BA	1202	G	C5'-C4'-C3'	-10.13	99.78	116.00
85	AA	282	C	C6-N1-C2	-10.13	116.25	120.30
34	BA	1809	G	C4-N9-C1'	-10.13	113.33	126.50
41	BH	14	C	C6-N1-C1'	-10.13	108.64	120.80
69	Bj	62	HIS	CA-CB-CG	10.13	130.83	113.60
85	AA	909	C	P-O3'-C3'	10.13	131.86	119.70
7	A6	106	ARG	NE-CZ-NH2	-10.13	115.24	120.30
34	BA	175	G	C5'-C4'-O4'	-10.13	96.95	109.10
34	BA	702	G	N9-C1'-C2'	-10.13	100.83	114.00
35	BB	1249	G	P-O3'-C3'	10.13	131.85	119.70
34	BA	222	C	O4'-C1'-N1	10.12	116.30	108.20
37	BD	108	G	C8-N9-C1'	10.12	140.16	127.00
38	BE	89	G	C8-N9-C1'	10.12	140.16	127.00
38	BE	104	G	C4-N9-C1'	10.12	139.66	126.50
85	AA	2149	C	C5'-C4'-C3'	-10.12	99.80	116.00
34	BA	122	U	C6-N1-C2	-10.12	114.93	121.00
34	BA	294	C	C6-N1-C2	-10.12	116.25	120.30
35	BB	4	C	O4'-C1'-N1	10.12	116.30	108.20
69	Bj	89	ARG	NE-CZ-NH1	10.12	125.36	120.30
85	AA	940	G	P-O5'-C5'	-10.12	104.71	120.90
34	BA	539	C	O4'-C1'-N1	10.12	116.30	108.20
34	BA	967	C	P-O3'-C3'	-10.12	107.56	119.70
38	BE	136	G	N1-C6-O6	10.12	125.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1661	U	C6-N1-C2	-10.12	114.93	121.00
34	BA	1122	G	C5-C6-O6	-10.11	122.53	128.60
34	BA	1198	U	P-O3'-C3'	10.11	131.84	119.70
34	BA	1339	G	O4'-C1'-N9	10.11	116.29	108.20
34	BA	162	G	C6-C5-N7	-10.11	124.33	130.40
49	BP	67	ARG	NE-CZ-NH1	10.11	125.36	120.30
85	AA	542	G	P-O5'-C5'	10.11	137.08	120.90
37	BD	22	A	P-O3'-C3'	-10.11	107.57	119.70
85	AA	738	C	O4'-C1'-N1	10.11	116.29	108.20
3	A2	67	ARG	NE-CZ-NH1	10.10	125.35	120.30
85	AA	798	A	O4'-C1'-N9	10.10	116.28	108.20
85	AA	1252	A	C4'-C3'-C2'	-10.10	92.50	102.60
38	BE	50	G	P-O3'-C3'	-10.10	107.58	119.70
35	BB	24	C	P-O5'-C5'	10.10	137.05	120.90
35	BB	633	C	C6-N1-C2	-10.10	116.26	120.30
85	AA	65	A	O5'-P-OP1	-10.10	96.61	105.70
34	BA	179	U	O4'-C1'-N1	10.09	116.27	108.20
34	BA	223	U	N1-C2-N3	10.09	120.95	114.90
85	AA	2050	C	O4'-C1'-N1	10.09	116.27	108.20
34	BA	302	A	C5'-C4'-C3'	-10.09	99.86	116.00
34	BA	878	G	C5'-C4'-C3'	10.09	132.14	116.00
34	BA	1747	C	P-O5'-C5'	10.09	137.04	120.90
85	AA	893	G	C2-N3-C4	-10.09	106.86	111.90
85	AA	1575	G	C8-N9-C1'	10.09	140.11	127.00
34	BA	180	G	C5-C6-O6	-10.09	122.55	128.60
36	BC	108	A	O4'-C1'-N9	10.09	116.27	108.20
85	AA	382	G	C5'-C4'-C3'	10.09	132.13	116.00
85	AA	484	G	O4'-C1'-N9	10.08	116.27	108.20
85	AA	1310	G	C5-C6-O6	-10.08	122.55	128.60
85	AA	1930	U	P-O3'-C3'	10.08	131.80	119.70
35	BB	41	A	C5-C6-N6	-10.08	115.64	123.70
38	BE	178	G	C4-N9-C1'	-10.08	113.40	126.50
34	BA	546	U	C5'-C4'-C3'	-10.08	99.88	116.00
35	BB	1505	U	O4'-C1'-N1	10.07	116.26	108.20
34	BA	1782	C	O4'-C1'-N1	10.07	116.26	108.20
35	BB	363	A	N1-C6-N6	-10.07	112.56	118.60
35	BB	1345	A	P-O3'-C3'	10.07	131.78	119.70
41	BH	105	U	C2-N3-C4	-10.07	120.96	127.00
34	BA	584	A	P-O3'-C3'	10.07	131.78	119.70
35	BB	560	C	O4'-C1'-C2'	10.07	116.66	107.60
41	BH	73	A	OP1-P-OP2	-10.07	104.50	119.60
41	BH	128	G	N9-C4-C5	-10.06	101.37	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	259	C	C6-N1-C1'	10.06	132.88	120.80
34	BA	1477	C	N1-C1'-C2'	-10.06	100.92	114.00
34	BA	177	G	C4-N9-C1'	-10.06	113.42	126.50
34	BA	1613	G	C5-C6-O6	-10.06	122.56	128.60
39	BF	70	A	P-O5'-C5'	10.06	137.00	120.90
41	BH	10	U	C6-N1-C2	-10.06	114.96	121.00
45	BL	140	ARG	NE-CZ-NH1	10.06	125.33	120.30
85	AA	928	U	C2-N3-C4	-10.06	120.96	127.00
34	BA	594	G	C4-N9-C1'	10.06	139.57	126.50
34	BA	665	C	C2-N1-C1'	-10.06	107.74	118.80
34	BA	1846	G	C5'-C4'-C3'	-10.06	99.91	116.00
38	BE	111	C	O4'-C1'-N1	10.06	116.25	108.20
40	BG	29	U	C2-N3-C4	-10.06	120.97	127.00
85	AA	553	G	C8-N9-C4	-10.06	102.38	106.40
85	AA	755	G	O4'-C1'-N9	10.06	116.25	108.20
29	AV	68	MET	CG-SD-CE	-10.05	84.11	100.20
36	BC	107	C	P-O3'-C3'	-10.05	107.64	119.70
68	Bi	129	ARG	NE-CZ-NH1	10.05	125.33	120.30
34	BA	1326	U	P-O3'-C3'	10.05	131.76	119.70
40	BG	14	G	C4-N9-C1'	-10.05	113.43	126.50
85	AA	1854	U	C2-N3-C4	-10.05	120.97	127.00
34	BA	875	G	C5-C6-N1	10.05	116.52	111.50
35	BB	996	G	N9-C1'-C2'	-10.05	100.94	114.00
85	AA	2123	U	C6-N1-C1'	10.05	135.27	121.20
85	AA	96	C	C4'-C3'-C2'	10.05	112.65	102.60
85	AA	1106	A	O4'-C1'-N9	10.05	116.24	108.20
34	BA	258	C	C6-N1-C2	-10.04	116.28	120.30
38	BE	153	C	C6-N1-C2	-10.04	116.28	120.30
85	AA	1599	G	C5'-C4'-C3'	-10.04	99.93	116.00
82	Bw	82	ARG	NE-CZ-NH1	10.04	125.32	120.30
85	AA	1096	G	C5'-C4'-C3'	-10.04	99.94	116.00
85	AA	2198	G	C5'-C4'-C3'	-10.04	99.94	116.00
34	BA	1496	G	C5'-C4'-C3'	-10.04	99.94	116.00
85	AA	798	A	P-O3'-C3'	-10.04	107.66	119.70
85	AA	1490	A	C1'-O4'-C4'	-10.04	101.87	109.90
34	BA	653	U	C6-N1-C2	-10.04	114.98	121.00
35	BB	1187	G	C6-N1-C2	-10.04	119.08	125.10
39	BF	37	C	P-O3'-C3'	10.04	131.74	119.70
85	AA	2225	G	N1-C6-O6	10.04	125.92	119.90
34	BA	1033	G	N1-C6-O6	10.03	125.92	119.90
38	BE	113	C	P-O5'-C5'	10.03	136.95	120.90
85	AA	842	G	P-O3'-C3'	10.03	131.74	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1237	A	C1'-O4'-C4'	-10.03	101.88	109.90
86	AB	65	G	N1-C6-O6	10.03	125.92	119.90
35	BB	642	G	N1-C6-O6	-10.03	113.88	119.90
38	BE	208	G	O4'-C1'-N9	10.03	116.22	108.20
85	AA	597	A	C5'-C4'-C3'	-10.03	99.95	116.00
65	Bf	278	LYS	N-CA-CB	-10.03	92.55	110.60
85	AA	581	A	P-O3'-C3'	-10.03	107.67	119.70
85	AA	2157	G	C8-N9-C1'	10.02	140.03	127.00
85	AA	1090	A	O4'-C1'-N9	10.02	116.22	108.20
35	BB	871	C	O4'-C1'-N1	10.02	116.22	108.20
35	BB	1220	A	P-O3'-C3'	10.02	131.72	119.70
54	BU	92	ARG	NE-CZ-NH1	10.02	125.31	120.30
85	AA	2010	C	C5'-C4'-C3'	-10.02	99.97	116.00
38	BE	97	G	N1-C6-O6	10.02	125.91	119.90
48	BO	166	TRP	CB-CG-CD2	-10.02	113.58	126.60
35	BB	755	A	N1-C6-N6	-10.01	112.59	118.60
35	BB	1510	G	C6-N1-C2	-10.01	119.09	125.10
38	BE	117	A	N1-C6-N6	10.01	124.61	118.60
41	BH	23	G	P-O3'-C3'	10.01	131.72	119.70
85	AA	368	C	N3-C2-O2	-10.01	114.89	121.90
85	AA	1701	G	C4-N9-C1'	-10.01	113.48	126.50
85	AA	2002	A	C5'-C4'-C3'	10.01	132.02	116.00
34	BA	309	U	C2-N3-C4	-10.01	120.99	127.00
34	BA	1620	U	C5'-C4'-C3'	-10.01	99.98	116.00
85	AA	691	U	O3'-P-O5'	10.01	123.02	104.00
34	BA	1536	A	O4'-C1'-N9	10.01	116.20	108.20
34	BA	1580	U	P-O3'-C3'	-10.01	107.69	119.70
38	BE	180	G	P-O3'-C3'	10.01	131.71	119.70
85	AA	1268	C	C5'-C4'-C3'	-10.01	99.99	116.00
35	BB	993	A	C2-N3-C4	-10.01	105.60	110.60
38	BE	171	U	P-O3'-C3'	10.01	131.71	119.70
85	AA	1682	U	P-O3'-C3'	10.00	131.70	119.70
85	AA	1239	C	C5'-C4'-C3'	-10.00	100.00	116.00
85	AA	2055	G	C5-C6-O6	-10.00	122.60	128.60
85	AA	2058	C	C1'-O4'-C4'	-10.00	101.90	109.90
85	AA	1517	G	C5-C6-O6	-10.00	122.60	128.60
35	BB	797	C	C4'-C3'-C2'	-10.00	92.60	102.60
35	BB	1142	C	P-O3'-C3'	10.00	131.70	119.70
35	BB	1347	C	O4'-C1'-N1	10.00	116.20	108.20
34	BA	764	G	N3-C2-N2	10.00	126.90	119.90
35	BB	429	C	C6-N1-C2	-10.00	116.30	120.30
34	BA	1306	U	O4'-C1'-N1	10.00	116.20	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	469	C	C1'-O4'-C4'	-9.99	101.91	109.90
34	BA	1518	A	N9-C1'-C2'	-9.99	101.01	112.00
38	BE	129	G	C4'-C3'-C2'	-9.99	92.61	102.60
85	AA	473	C	O4'-C1'-N1	9.99	116.20	108.20
85	AA	662	U	N1-C1'-C2'	-9.99	101.01	112.00
34	BA	280	A	C8-N9-C4	-9.99	101.80	105.80
34	BA	741	A	C4'-C3'-C2'	-9.99	92.61	102.60
85	AA	1162	A	O4'-C1'-N9	9.99	116.19	108.20
85	AA	1819	U	P-O5'-C5'	9.99	136.88	120.90
34	BA	7	U	O3'-P-O5'	9.99	122.98	104.00
85	AA	386	G	O4'-C1'-N9	9.99	116.19	108.20
34	BA	1412	G	C5-C6-O6	9.99	134.59	128.60
34	BA	1846	G	C5-C6-O6	-9.99	122.61	128.60
35	BB	1513	U	C6-N1-C2	-9.99	115.01	121.00
85	AA	480	U	C2-N1-C1'	-9.99	105.72	117.70
85	AA	600	C	O4'-C1'-N1	9.99	116.19	108.20
33	AZ	97	ARG	NE-CZ-NH1	9.98	125.29	120.30
34	BA	517	A	C8-N9-C4	9.98	109.79	105.80
85	AA	988	C	O4'-C1'-N1	9.98	116.19	108.20
34	BA	261	A	O4'-C1'-N9	9.98	116.19	108.20
85	AA	295	U	P-O3'-C3'	9.98	131.68	119.70
85	AA	1000	U	C2-N1-C1'	-9.98	105.72	117.70
86	AB	3	C	C5'-C4'-O4'	9.98	121.08	109.10
34	BA	382	G	N3-C4-C5	-9.98	123.61	128.60
34	BA	1441	C	O4'-C1'-N1	9.98	116.18	108.20
85	AA	1882	U	P-O3'-C3'	9.98	131.68	119.70
34	BA	1657	A	C5'-C4'-C3'	9.98	131.96	116.00
78	Bs	35	ARG	NE-CZ-NH1	9.97	125.29	120.30
85	AA	251	A	P-O5'-C5'	9.97	136.86	120.90
85	AA	976	G	C8-N9-C1'	9.97	139.97	127.00
34	BA	248	G	P-O3'-C3'	-9.97	107.73	119.70
34	BA	575	U	P-O3'-C3'	9.97	131.66	119.70
34	BA	1469	G	C5-C6-O6	-9.97	122.62	128.60
36	BC	138	C	O4'-C1'-N1	9.97	116.18	108.20
39	BF	11	C	C2-N1-C1'	9.97	129.77	118.80
35	BB	540	G	C6-C5-N7	-9.97	124.42	130.40
34	BA	279	U	P-O5'-C5'	-9.96	104.96	120.90
35	BB	25	A	C5-C6-N6	9.97	131.67	123.70
85	AA	289	G	C5-C6-O6	-9.97	122.62	128.60
34	BA	979	G	N1-C6-O6	9.96	125.88	119.90
34	BA	1321	A	C5'-C4'-C3'	-9.96	100.06	116.00
34	BA	606	G	N3-C2-N2	9.96	126.87	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1711	G	P-O3'-C3'	-9.96	107.74	119.70
48	BO	136	ARG	NE-CZ-NH2	9.96	125.28	120.30
34	BA	1161	G	C5'-C4'-C3'	9.96	131.94	116.00
34	BA	1460	U	P-O5'-C5'	9.96	136.84	120.90
39	BF	9	C	O4'-C1'-N1	9.96	116.17	108.20
39	BF	39	C	O3'-P-O5'	-9.96	85.07	104.00
34	BA	1799	G	P-O3'-C3'	-9.96	107.75	119.70
38	BE	96	G	C2-N3-C4	-9.96	106.92	111.90
35	BB	1048	A	P-O3'-C3'	-9.96	107.75	119.70
35	BB	1459	U	C6-N1-C2	-9.96	115.03	121.00
36	BC	78	G	N1-C6-O6	-9.96	113.92	119.90
85	AA	4	C	C2-N3-C4	-9.96	114.92	119.90
85	AA	428	G	C5-C6-O6	-9.96	122.62	128.60
85	AA	833	U	O4'-C1'-N1	9.96	116.17	108.20
34	BA	1625	C	O4'-C1'-N1	9.96	116.17	108.20
85	AA	965	G	P-O5'-C5'	9.96	136.83	120.90
34	BA	1540	C	C2-N3-C4	-9.95	114.92	119.90
35	BB	39	C	C1'-O4'-C4'	-9.95	101.94	109.90
35	BB	1251	G	N1-C6-O6	-9.95	113.93	119.90
85	AA	1225	C	P-O5'-C5'	-9.95	104.98	120.90
38	BE	128	G	O3'-P-O5'	-9.95	85.09	104.00
85	AA	1674	G	C5-C6-O6	-9.95	122.63	128.60
36	BC	130	U	C2-N1-C1'	9.95	129.64	117.70
34	BA	1519	G	P-O3'-C3'	-9.95	107.77	119.70
35	BB	1470	G	N1-C6-O6	9.94	125.87	119.90
37	BD	93	G	C5-C6-O6	9.95	134.57	128.60
85	AA	371	C	C6-N1-C2	-9.95	116.32	120.30
85	AA	586	G	C5-C6-O6	-9.95	122.63	128.60
85	AA	895	C	C5'-C4'-O4'	9.95	121.03	109.10
85	AA	2213	A	P-O3'-C3'	-9.94	107.77	119.70
40	BG	10	U	P-O3'-C3'	-9.94	107.77	119.70
35	BB	687	C	C6-N1-C2	-9.94	116.32	120.30
35	BB	880	G	N7-C8-N9	9.94	118.07	113.10
38	BE	23	G	O4'-C1'-N9	9.94	116.15	108.20
85	AA	251	A	C8-N9-C4	-9.94	101.82	105.80
40	BG	98	A	C5'-C4'-O4'	9.94	121.03	109.10
85	AA	982	G	C6-N1-C2	-9.94	119.14	125.10
85	AA	1525	C	C6-N1-C2	-9.94	116.33	120.30
85	AA	2106	C	O4'-C1'-N1	9.94	116.15	108.20
85	AA	1756	C	C6-N1-C1'	9.94	132.72	120.80
34	BA	331	G	N1-C6-O6	-9.94	113.94	119.90
49	BP	20	ARG	NE-CZ-NH1	9.94	125.27	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	Bj	8	TYR	CB-CG-CD1	-9.94	115.04	121.00
85	AA	835	C	O4'-C1'-N1	9.94	116.15	108.20
85	AA	2002	A	C4'-C3'-C2'	9.93	112.53	102.60
34	BA	280	A	C2'-C3'-O3'	9.93	131.35	109.50
85	AA	917	A	C8-N9-C4	9.93	109.77	105.80
50	BQ	55	ARG	NE-CZ-NH2	-9.93	115.33	120.30
85	AA	2133	A	P-O5'-C5'	-9.93	105.02	120.90
34	BA	416	A	N1-C6-N6	-9.93	112.64	118.60
34	BA	919	A	N1-C6-N6	-9.93	112.64	118.60
35	BB	2	C	C2-N3-C4	-9.93	114.94	119.90
35	BB	379	U	C1'-O4'-C4'	-9.93	101.96	109.90
35	BB	1548	C	O4'-C1'-N1	9.93	116.14	108.20
85	AA	2237	G	C4'-C3'-C2'	9.93	112.53	102.60
34	BA	159	U	O4'-C1'-N1	9.92	116.14	108.20
35	BB	29	C	O4'-C1'-N1	9.92	116.14	108.20
35	BB	1069	C	O4'-C1'-N1	9.92	116.14	108.20
34	BA	20	A	O3'-P-O5'	-9.92	85.15	104.00
35	BB	991	C	C5'-C4'-C3'	9.92	131.87	116.00
34	BA	1477	C	P-O5'-C5'	-9.91	105.04	120.90
85	AA	1718	C	O4'-C1'-N1	9.91	116.13	108.20
34	BA	212	A	N1-C6-N6	-9.91	112.65	118.60
35	BB	41	A	P-O5'-C5'	-9.91	105.05	120.90
35	BB	295	U	P-O3'-C3'	9.91	131.59	119.70
85	AA	2123	U	N1-C2-N3	9.91	120.84	114.90
85	AA	605	A	C5-C6-N6	-9.91	115.78	123.70
85	AA	1139	G	O4'-C1'-N9	9.91	116.12	108.20
35	BB	823	G	C6-N1-C2	-9.90	119.16	125.10
40	BG	27	C	C5'-C4'-C3'	-9.90	100.15	116.00
34	BA	1776	G	P-O5'-C5'	9.90	136.74	120.90
35	BB	878	G	O4'-C4'-C3'	-9.90	94.10	104.00
35	BB	1334	C	O4'-C1'-N1	9.90	116.12	108.20
85	AA	100	A	C5'-C4'-C3'	-9.90	100.16	116.00
85	AA	526	G	C5-C6-O6	-9.90	122.66	128.60
34	BA	42	A	N1-C6-N6	-9.90	112.66	118.60
34	BA	751	A	P-O3'-C3'	9.90	131.58	119.70
34	BA	806	U	O4'-C1'-N1	9.90	116.12	108.20
34	BA	1175	G	O3'-P-O5'	-9.90	85.19	104.00
35	BB	1168	G	C4-N9-C1'	-9.90	113.63	126.50
34	BA	903	C	C2-N3-C4	-9.90	114.95	119.90
34	BA	1277	G	C8-N9-C1'	9.90	139.87	127.00
35	BB	638	G	C4'-C3'-C2'	9.90	112.50	102.60
38	BE	16	C	P-O3'-C3'	-9.90	107.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	Bx	234	ARG	NE-CZ-NH1	9.90	125.25	120.30
85	AA	273	C	C6-N1-C1'	9.90	132.68	120.80
34	BA	134	U	P-O3'-C3'	-9.89	107.83	119.70
34	BA	1591	G	C4-N9-C1'	-9.89	113.64	126.50
34	BA	194	G	P-O3'-C3'	-9.89	107.83	119.70
35	BB	618	U	C2-N3-C4	-9.89	121.06	127.00
35	BB	1289	G	C5-C6-O6	-9.89	122.67	128.60
38	BE	130	G	N3-C4-C5	-9.89	123.66	128.60
41	BH	128	G	P-O5'-C5'	-9.89	105.07	120.90
35	BB	726	A	O4'-C1'-N9	9.89	116.11	108.20
40	BG	16	G	C5'-C4'-C3'	9.89	131.82	116.00
34	BA	674	G	C5'-C4'-O4'	9.89	120.96	109.10
35	BB	545	C	C2-N1-C1'	9.89	129.67	118.80
38	BE	57	U	P-O3'-C3'	-9.89	107.84	119.70
85	AA	533	C	O4'-C1'-N1	9.89	116.11	108.20
17	AI	130	TYR	CB-CG-CD1	9.88	126.93	121.00
34	BA	585	G	C5-C6-O6	-9.88	122.67	128.60
34	BA	1192	A	O3'-P-O5'	-9.88	85.22	104.00
35	BB	609	G	C4-N9-C1'	-9.88	113.65	126.50
35	BB	993	A	C5'-C4'-C3'	-9.88	100.19	116.00
40	BG	33	G	N3-C2-N2	-9.88	112.98	119.90
35	BB	1475	U	C5'-C4'-C3'	-9.88	100.19	116.00
35	BB	10	C	C6-N1-C2	-9.88	116.35	120.30
40	BG	8	U	N3-C2-O2	-9.88	115.29	122.20
85	AA	72	C	C6-N1-C2	-9.88	116.35	120.30
34	BA	184	C	C5'-C4'-C3'	-9.88	100.20	116.00
34	BA	1197	U	C6-N1-C1'	9.88	135.03	121.20
35	BB	618	U	C4'-C3'-C2'	9.88	112.47	102.60
35	BB	851	U	O4'-C1'-N1	9.87	116.10	108.20
35	BB	1323	U	C4-C5-C6	-9.87	113.78	119.70
35	BB	1528	U	C2-N3-C4	-9.88	121.08	127.00
40	BG	16	G	C4'-C3'-C2'	9.88	112.48	102.60
85	AA	775	C	P-O5'-C5'	9.88	136.70	120.90
85	AA	1832	G	C5'-C4'-C3'	-9.88	100.20	116.00
85	AA	786	G	P-O3'-C3'	9.87	131.55	119.70
34	BA	1249	G	C5-C6-N1	9.87	116.44	111.50
34	BA	1413	G	C5-C6-O6	-9.87	122.68	128.60
35	BB	994	A	O4'-C1'-N9	9.87	116.10	108.20
40	BG	33	G	C5'-C4'-C3'	9.87	131.80	116.00
34	BA	1707	C	N3-C4-N4	-9.87	111.09	118.00
39	BF	17	U	C2-N3-C4	-9.87	121.08	127.00
85	AA	461	G	N1-C6-O6	9.87	125.82	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AM	33	MET	CG-SD-CE	-9.87	84.42	100.20
34	BA	557	U	P-O5'-C5'	9.87	136.68	120.90
34	BA	1200	U	C1'-O4'-C4'	-9.87	102.01	109.90
41	BH	114	G	C5-C6-O6	-9.86	122.68	128.60
34	BA	1532	G	P-O5'-C5'	9.86	136.68	120.90
36	BC	26	U	N3-C2-O2	9.86	129.10	122.20
85	AA	73	A	P-O3'-C3'	9.86	131.53	119.70
34	BA	951	C	O4'-C1'-N1	9.86	116.09	108.20
35	BB	461	U	C2-N3-C4	-9.86	121.08	127.00
35	BB	1083	C	C2-N1-C1'	9.86	129.65	118.80
85	AA	1170	C	O4'-C1'-N1	9.86	116.09	108.20
4	A3	96	ARG	NE-CZ-NH1	9.86	125.23	120.30
34	BA	980	C	C2-N3-C4	-9.86	114.97	119.90
35	BB	1091	C	P-O3'-C3'	-9.86	107.87	119.70
85	AA	1106	A	P-O3'-C3'	9.86	131.53	119.70
35	BB	1401	G	N1-C6-O6	9.86	125.81	119.90
51	BR	155	GLU	N-CA-CB	9.86	128.34	110.60
67	Bh	167	TYR	CB-CG-CD1	9.86	126.91	121.00
85	AA	2123	U	C6-N1-C2	-9.86	115.09	121.00
34	BA	690	G	C8-N9-C1'	9.85	139.81	127.00
35	BB	1458	U	C1'-O4'-C4'	-9.85	102.02	109.90
85	AA	1006	C	C6-N1-C1'	9.85	132.62	120.80
85	AA	2209	U	C1'-O4'-C4'	-9.85	102.02	109.90
34	BA	80	U	C2-N1-C1'	-9.85	105.88	117.70
34	BA	1809	G	C6-N1-C2	-9.85	119.19	125.10
35	BB	609	G	C8-N9-C1'	9.85	139.80	127.00
34	BA	360	C	C6-N1-C2	-9.85	116.36	120.30
36	BC	10	C	C5'-C4'-C3'	9.85	131.75	116.00
34	BA	56	G	C5-C6-O6	-9.84	122.69	128.60
34	BA	1581	G	O3'-P-O5'	9.84	122.70	104.00
36	BC	156	A	C4'-C3'-C2'	9.84	112.44	102.60
38	BE	203	C	P-O3'-C3'	9.84	131.51	119.70
34	BA	758	G	C4'-C3'-C2'	-9.84	92.76	102.60
38	BE	130	G	P-O5'-C5'	-9.84	105.16	120.90
26	AS	131	TYR	CB-CG-CD1	9.84	126.90	121.00
37	BD	67	C	C3'-C2'-C1'	-9.84	93.63	101.50
85	AA	635	G	C4-N9-C1'	-9.84	113.71	126.50
39	BF	49	C	C6-N1-C2	-9.84	116.37	120.30
35	BB	41	A	C4-C5-C6	-9.83	112.08	117.00
85	AA	1485	G	P-O3'-C3'	9.83	131.50	119.70
34	BA	979	G	C5-C6-O6	-9.83	122.70	128.60
34	BA	1818	A	O5'-C5'-C4'	9.83	130.38	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1721	U	C4'-C3'-C2'	-9.83	92.77	102.60
41	BH	93	G	O4'-C1'-N9	9.83	116.06	108.20
85	AA	149	A	C5'-C4'-C3'	9.83	131.73	116.00
85	AA	1797	U	P-O3'-C3'	-9.83	107.91	119.70
34	BA	547	C	O5'-C5'-C4'	9.83	130.37	111.70
39	BF	35	C	C6-N1-C2	-9.83	116.37	120.30
34	BA	687	G	P-O5'-C5'	-9.82	105.18	120.90
85	AA	2061	C	O4'-C1'-N1	9.82	116.06	108.20
34	BA	1747	C	C2-N1-C1'	-9.82	108.00	118.80
38	BE	210	G	P-O5'-C5'	9.82	136.62	120.90
65	Bf	339	TYR	CB-CG-CD1	9.82	126.89	121.00
35	BB	1030	U	O4'-C1'-N1	9.82	116.06	108.20
37	BD	26	C	C5'-C4'-C3'	-9.82	100.29	116.00
47	BN	31	PHE	CB-CG-CD2	-9.82	113.92	120.80
85	AA	787	U	C2-N1-C1'	9.82	129.49	117.70
85	AA	853	G	P-O3'-C3'	-9.82	107.91	119.70
85	AA	886	A	P-O3'-C3'	-9.82	107.91	119.70
85	AA	1459	C	P-O5'-C5'	9.82	136.62	120.90
85	AA	2001	C	C2-N1-C1'	9.82	129.60	118.80
85	AA	736	U	C3'-C2'-C1'	-9.82	93.64	101.50
85	AA	856	G	O4'-C1'-N9	9.82	116.06	108.20
34	BA	501	U	C3'-C2'-C1'	9.82	109.35	101.50
35	BB	971	A	C3'-C2'-C1'	-9.82	93.65	101.50
36	BC	39	G	C5-C6-O6	-9.82	122.71	128.60
85	AA	1451	U	C2-N3-C4	-9.81	121.11	127.00
35	BB	91	G	C5-C6-O6	-9.81	122.71	128.60
34	BA	1658	G	C5-C6-O6	9.81	134.49	128.60
34	BA	1472	G	N1-C6-O6	-9.81	114.02	119.90
85	AA	965	G	C1'-O4'-C4'	-9.81	102.05	109.90
85	AA	1002	G	N1-C6-O6	9.81	125.79	119.90
34	BA	401	A	O5'-C5'-C4'	-9.80	93.07	111.70
34	BA	869	C	C2-N3-C4	-9.81	115.00	119.90
34	BA	165	C	C5'-C4'-O4'	9.80	120.86	109.10
34	BA	166	G	N9-C1'-C2'	-9.80	101.22	112.00
35	BB	1391	G	C5'-C4'-C3'	-9.80	100.31	116.00
59	BZ	71	TYR	CB-CG-CD2	-9.80	115.12	121.00
35	BB	667	G	P-O5'-C5'	9.80	136.58	120.90
85	AA	607	U	P-O5'-C5'	9.80	136.58	120.90
85	AA	2062	U	C6-N1-C2	-9.80	115.12	121.00
34	BA	214	A	C4-C5-N7	-9.80	105.80	110.70
37	BD	81	C	C1'-O4'-C4'	-9.80	102.06	109.90
34	BA	1539	A	O4'-C1'-N9	9.80	116.04	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	8	G	O4'-C1'-N9	9.80	116.04	108.20
34	BA	574	U	C6-N1-C2	-9.79	115.12	121.00
35	BB	134	G	C5'-C4'-C3'	9.79	131.67	116.00
38	BE	207	G	P-O3'-C3'	9.79	131.46	119.70
40	BG	59	G	C5-C6-O6	-9.80	122.72	128.60
85	AA	1896	G	C5-C6-O6	-9.79	122.72	128.60
85	AA	2074	G	O4'-C1'-N9	9.80	116.04	108.20
34	BA	214	A	C4-N9-C1'	-9.79	108.67	126.30
34	BA	556	A	O5'-P-OP2	9.79	122.45	110.70
34	BA	931	G	N9-C1'-C2'	-9.79	101.23	112.00
35	BB	831	C	C5'-C4'-O4'	9.79	120.85	109.10
35	BB	1026	G	C6-C5-N7	-9.79	124.53	130.40
35	BB	1224	C	O4'-C1'-N1	9.79	116.03	108.20
36	BC	145	G	N1-C6-O6	-9.79	114.02	119.90
85	AA	1074	U	O4'-C1'-N1	9.79	116.03	108.20
85	AA	1290	G	C5-C6-O6	-9.79	122.72	128.60
34	BA	367	G	C5-C6-O6	-9.79	122.73	128.60
34	BA	1538	G	C8-N9-C4	-9.79	102.48	106.40
85	AA	2208	G	C3'-C2'-C1'	-9.79	93.67	101.50
53	BT	97	ARG	NE-CZ-NH1	9.79	125.19	120.30
34	BA	237	A	P-O5'-C5'	-9.79	105.24	120.90
34	BA	631	G	C5-C6-O6	-9.79	122.73	128.60
36	BC	160	C	C2-N1-C1'	-9.79	108.04	118.80
39	BF	33	C	P-O5'-C5'	-9.79	105.25	120.90
34	BA	118	C	P-O5'-C5'	9.78	136.55	120.90
35	BB	836	U	P-O5'-C5'	-9.78	105.25	120.90
35	BB	1404	A	C5'-C4'-O4'	9.78	120.84	109.10
35	BB	22	A	C5-C6-N6	9.78	131.53	123.70
35	BB	1218	G	C8-N9-C1'	-9.78	114.28	127.00
41	BH	6	U	C2-N3-C4	-9.78	121.13	127.00
85	AA	84	C	C3'-C2'-C1'	-9.78	93.67	101.50
85	AA	744	C	N3-C4-C5	-9.78	117.99	121.90
34	BA	694	G	O4'-C1'-N9	9.78	116.02	108.20
40	BG	156	G	C5-C6-O6	-9.78	122.73	128.60
35	BB	448	G	C5'-C4'-C3'	-9.78	100.36	116.00
52	BS	151	PHE	CB-CG-CD1	9.78	127.64	120.80
85	AA	970	U	P-O5'-C5'	9.78	136.55	120.90
34	BA	113	G	P-O3'-C3'	-9.78	107.97	119.70
34	BA	596	G	C4-N9-C1'	9.78	139.21	126.50
85	AA	288	G	P-O5'-C5'	9.78	136.54	120.90
85	AA	2189	U	P-O3'-C3'	-9.78	107.97	119.70
34	BA	52	G	C5-C6-N1	9.77	116.39	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1122	G	N1-C6-O6	9.77	125.77	119.90
85	AA	2022	A	C5-C6-N6	9.77	131.52	123.70
35	BB	776	U	P-O5'-C5'	-9.77	105.27	120.90
35	BB	1488	G	C8-N9-C1'	9.77	139.70	127.00
42	BI	112	PHE	CB-CG-CD1	9.77	127.64	120.80
85	AA	2104	C	P-O3'-C3'	9.77	131.43	119.70
85	AA	727	U	C2-N3-C4	-9.77	121.14	127.00
38	BE	70	C	O4'-C1'-N1	9.77	116.01	108.20
85	AA	890	U	C2-N3-C4	-9.77	121.14	127.00
85	AA	2143	U	O4'-C1'-N1	9.77	116.02	108.20
34	BA	1472	G	C4-N9-C1'	-9.77	113.80	126.50
85	AA	1225	C	C6-N1-C1'	-9.77	109.08	120.80
85	AA	1268	C	O4'-C1'-N1	9.77	116.01	108.20
85	AA	2141	G	C5-C6-O6	-9.77	122.74	128.60
85	AA	963	U	C2-N3-C4	-9.76	121.14	127.00
85	AA	1133	C	C6-N1-C2	-9.76	116.39	120.30
34	BA	798	G	O4'-C4'-C3'	-9.76	94.24	104.00
85	AA	648	G	C8-N9-C1'	9.76	139.69	127.00
37	BD	13	A	C5'-C4'-C3'	-9.76	100.39	116.00
38	BE	195	G	N3-C4-C5	-9.76	123.72	128.60
34	BA	1412	G	O3'-P-O5'	-9.75	85.47	104.00
85	AA	1821	C	O4'-C1'-N1	9.75	116.00	108.20
85	AA	2211	G	C4-N9-C1'	-9.75	113.82	126.50
35	BB	56	U	N1-C2-N3	9.75	120.75	114.90
38	BE	36	U	C2-N3-C4	-9.75	121.15	127.00
38	BE	111	C	C6-N1-C1'	-9.75	109.10	120.80
85	AA	1246	G	P-O3'-C3'	9.75	131.40	119.70
34	BA	1296	U	C4-C5-C6	-9.75	113.85	119.70
35	BB	841	U	P-O3'-C3'	-9.75	108.00	119.70
85	AA	101	C	O4'-C1'-N1	9.75	116.00	108.20
85	AA	940	G	C5-C6-O6	-9.75	122.75	128.60
35	BB	700	C	P-O5'-C5'	9.74	136.49	120.90
85	AA	509	C	O3'-P-O5'	9.74	122.52	104.00
34	BA	816	G	C5-C6-O6	-9.74	122.75	128.60
1	A0	202	ARG	NE-CZ-NH2	-9.74	115.43	120.30
34	BA	162	G	C2-N3-C4	-9.74	107.03	111.90
35	BB	817	C	C5'-C4'-O4'	9.74	120.79	109.10
35	BB	842	G	C4-N9-C1'	-9.74	113.84	126.50
38	BE	36	U	C5'-C4'-C3'	9.74	131.59	116.00
40	BG	8	U	P-O3'-C3'	-9.74	108.01	119.70
40	BG	134	U	O4'-C1'-N1	9.74	115.99	108.20
41	BH	130	G	P-O5'-C5'	-9.74	105.31	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	765	U	P-O5'-C5'	9.74	136.48	120.90
85	AA	1283	C	C2-N3-C4	-9.74	115.03	119.90
35	BB	690	C	C5'-C4'-C3'	-9.74	100.42	116.00
85	AA	357	C	C5'-C4'-C3'	-9.74	100.42	116.00
34	BA	1609	U	C2-N3-C4	-9.74	121.16	127.00
34	BA	1637	G	C8-N9-C4	-9.74	102.51	106.40
39	BF	48	G	C5-C6-O6	-9.74	122.76	128.60
41	BH	31	A	C4'-C3'-C2'	9.74	112.34	102.60
41	BH	96	G	C5-C6-O6	-9.74	122.76	128.60
85	AA	533	C	N3-C4-N4	9.74	124.82	118.00
35	BB	798	A	P-O5'-C5'	-9.73	105.32	120.90
85	AA	688	C	C1'-O4'-C4'	-9.73	102.11	109.90
18	AJ	28	ARG	NE-CZ-NH1	9.73	125.17	120.30
34	BA	1259	C	C6-N1-C2	-9.73	116.41	120.30
35	BB	768	A	C2'-C3'-O3'	9.73	130.91	109.50
55	BV	92	TYR	CB-CG-CD2	-9.73	115.16	121.00
58	BY	60	ARG	NE-CZ-NH1	9.73	125.17	120.30
4	A3	85	PHE	CB-CG-CD2	-9.73	113.99	120.80
34	BA	1501	U	N3-C2-O2	-9.73	115.39	122.20
35	BB	4	C	C6-N1-C2	-9.73	116.41	120.30
35	BB	628	A	N1-C6-N6	-9.73	112.76	118.60
67	Bh	1	MET	CG-SD-CE	-9.73	84.63	100.20
85	AA	1134	G	C6-N1-C2	-9.73	119.26	125.10
34	BA	508	C	O4'-C1'-N1	9.73	115.98	108.20
63	Bd	62	ARG	NE-CZ-NH1	9.73	125.16	120.30
34	BA	679	U	C5-C4-O4	-9.73	120.06	125.90
38	BE	26	G	C5-C6-O6	-9.73	122.76	128.60
41	BH	92	A	O4'-C1'-N9	9.73	115.98	108.20
85	AA	2153	G	C4'-C3'-C2'	-9.73	92.87	102.60
34	BA	1175	G	P-O5'-C5'	9.72	136.46	120.90
34	BA	564	C	C2-N1-C1'	9.72	129.50	118.80
34	BA	399	G	C8-N9-C4	9.72	110.29	106.40
34	BA	543	A	P-O3'-C3'	-9.72	108.03	119.70
34	BA	743	A	C6-N1-C2	9.72	124.43	118.60
38	BE	26	G	C5'-C4'-O4'	-9.72	97.43	109.10
34	BA	542	A	P-O3'-C3'	-9.72	108.04	119.70
34	BA	1801	G	C4-N9-C1'	-9.72	113.86	126.50
35	BB	29	C	C1'-O4'-C4'	-9.72	102.12	109.90
35	BB	872	A	C1'-O4'-C4'	-9.72	102.12	109.90
85	AA	863	C	N3-C2-O2	-9.72	115.10	121.90
35	BB	833	G	C5'-C4'-C3'	-9.72	100.45	116.00
37	BD	81	C	N3-C2-O2	-9.72	115.10	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2141	G	C4-N9-C1'	-9.72	113.87	126.50
85	AA	2156	C	C6-N1-C2	-9.72	116.41	120.30
34	BA	1693	U	P-O3'-C3'	9.71	131.35	119.70
35	BB	1279	C	O4'-C1'-N1	9.71	115.97	108.20
85	AA	207	G	C8-N9-C4	-9.71	102.52	106.40
85	AA	1058	G	C5-C6-O6	-9.71	122.77	128.60
85	AA	1329	U	P-O3'-C3'	9.71	131.35	119.70
85	AA	1883	C	C5'-C4'-C3'	-9.71	100.46	116.00
35	BB	833	G	C4'-C3'-C2'	-9.71	92.89	102.60
34	BA	501	U	C6-N1-C2	-9.71	115.18	121.00
85	AA	865	G	C5-C6-O6	-9.71	122.78	128.60
34	BA	1221	A	N1-C6-N6	-9.71	112.78	118.60
35	BB	1543	C	C6-N1-C2	-9.71	116.42	120.30
38	BE	101	C	C6-N1-C2	-9.71	116.42	120.30
85	AA	364	C	O4'-C1'-N1	9.71	115.96	108.20
85	AA	743	C	O4'-C4'-C3'	-9.71	94.30	104.00
34	BA	12	G	C5'-C4'-C3'	9.70	131.53	116.00
34	BA	729	C	C4'-C3'-C2'	9.70	112.30	102.60
35	BB	1492	C	C6-N1-C2	-9.70	116.42	120.30
35	BB	1539	C	C2-N1-C1'	-9.70	108.13	118.80
37	BD	48	G	N7-C8-N9	-9.70	108.25	113.10
85	AA	326	C	C2-N1-C1'	9.70	129.47	118.80
36	BC	145	G	C5'-C4'-C3'	-9.70	100.48	116.00
60	Ba	90	ARG	NE-CZ-NH1	9.70	125.15	120.30
34	BA	643	U	O4'-C1'-N1	9.70	115.96	108.20
35	BB	112	G	C5-C6-O6	-9.70	122.78	128.60
38	BE	116	U	C2-N1-C1'	-9.70	106.06	117.70
38	BE	198	A	C4-C5-C6	-9.70	112.15	117.00
85	AA	585	G	C4-C5-C6	-9.70	112.98	118.80
85	AA	1231	G	P-O3'-C3'	9.70	131.34	119.70
85	AA	1368	G	C8-N9-C4	-9.70	102.52	106.40
23	AP	78	ASP	N-CA-CB	-9.70	93.15	110.60
40	BG	19	C	O4'-C1'-N1	9.70	115.96	108.20
34	BA	30	A	C4-N9-C1'	-9.70	108.85	126.30
85	AA	1247	A	N1-C6-N6	9.70	124.42	118.60
85	AA	1465	C	C1'-O4'-C4'	-9.70	102.14	109.90
34	BA	329	G	C4-N9-C1'	-9.69	113.90	126.50
39	BF	11	C	O5'-C5'-C4'	9.69	130.12	111.70
86	AB	44	G	C5-C6-O6	-9.69	122.78	128.60
85	AA	613	G	O4'-C1'-N9	9.69	115.95	108.20
85	AA	1921	G	O4'-C1'-N9	9.69	115.95	108.20
34	BA	480	G	N1-C6-O6	9.69	125.71	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	966	C	O4'-C1'-N1	9.69	115.95	108.20
36	BC	135	A	O4'-C1'-N9	9.69	115.95	108.20
34	BA	881	C	C2-N1-C1'	-9.69	108.14	118.80
34	BA	1120	U	P-O3'-C3'	-9.69	108.07	119.70
34	BA	1510	C	P-O5'-C5'	-9.69	105.40	120.90
66	Bg	81	TYR	CB-CG-CD2	-9.69	115.19	121.00
85	AA	382	G	C8-N9-C1'	9.69	139.60	127.00
85	AA	1637	C	O4'-C1'-N1	9.69	115.95	108.20
86	AB	6	G	C4-N9-C1'	-9.69	113.91	126.50
34	BA	1432	C	C6-N1-C2	-9.69	116.42	120.30
85	AA	242	G	P-O5'-C5'	-9.69	105.40	120.90
85	AA	20	G	C6-N1-C2	-9.69	119.29	125.10
85	AA	39	A	P-O3'-C3'	-9.69	108.08	119.70
85	AA	436	G	N1-C6-O6	9.69	125.71	119.90
85	AA	1459	C	O4'-C1'-N1	9.69	115.95	108.20
85	AA	2224	U	C5'-C4'-C3'	-9.69	100.50	116.00
34	BA	188	C	C6-N1-C2	-9.68	116.43	120.30
34	BA	424	U	O4'-C1'-N1	9.68	115.94	108.20
34	BA	1220	C	C2-N1-C1'	-9.68	108.15	118.80
38	BE	10	G	P-O3'-C3'	-9.68	108.08	119.70
40	BG	169	A	C8-N9-C4	9.68	109.67	105.80
85	AA	753	U	C1'-O4'-C4'	-9.68	102.16	109.90
85	AA	1005	C	P-O5'-C5'	9.68	136.38	120.90
34	BA	557	U	C3'-C2'-C1'	-9.68	93.76	101.50
34	BA	1060	C	O4'-C1'-N1	9.68	115.94	108.20
85	AA	2020	C	C5'-C4'-C3'	-9.68	100.52	116.00
34	BA	426	A	C5'-C4'-C3'	-9.67	100.52	116.00
34	BA	785	G	O4'-C1'-N9	9.67	115.94	108.20
35	BB	1060	U	C2-N3-C4	-9.67	121.20	127.00
34	BA	290	G	N9-C1'-C2'	-9.67	101.36	112.00
35	BB	811	C	P-O3'-C3'	-9.67	108.09	119.70
85	AA	618	A	P-O3'-C3'	-9.67	108.10	119.70
37	BD	79	G	C6-N1-C2	-9.67	119.30	125.10
34	BA	10	G	N1-C6-O6	-9.67	114.10	119.90
51	BR	126	ARG	NE-CZ-NH1	9.67	125.13	120.30
85	AA	138	C	O4'-C1'-N1	9.67	115.93	108.20
85	AA	1869	U	P-O3'-C3'	-9.67	108.10	119.70
35	BB	380	G	O4'-C1'-N9	9.66	115.93	108.20
85	AA	2131	C	P-O3'-C3'	-9.66	108.10	119.70
85	AA	2210	C	C6-N1-C1'	9.66	132.40	120.80
34	BA	2	A	O4'-C1'-N9	9.66	115.93	108.20
34	BA	662	U	O4'-C1'-N1	9.66	115.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	39	C	C6-N1-C2	-9.66	116.44	120.30
85	AA	1248	U	O4'-C1'-N1	9.66	115.93	108.20
34	BA	209	A	O4'-C1'-N9	9.66	115.93	108.20
34	BA	1041	U	C2-N3-C4	-9.66	121.20	127.00
35	BB	561	C	C2-N1-C1'	9.66	129.42	118.80
35	BB	768	A	C4'-C3'-C2'	-9.66	92.94	102.60
85	AA	639	C	C5'-C4'-C3'	9.66	131.46	116.00
85	AA	991	G	C6-C5-N7	-9.66	124.61	130.40
86	AB	26	A	O4'-C1'-N9	9.66	115.93	108.20
34	BA	1297	G	N1-C6-O6	9.66	125.69	119.90
85	AA	1538	C	P-O5'-C5'	9.66	136.35	120.90
85	AA	2123	U	C5'-C4'-C3'	9.66	131.45	116.00
34	BA	816	G	O4'-C1'-N9	9.66	115.92	108.20
35	BB	883	G	O4'-C1'-N9	9.66	115.92	108.20
62	Bc	130	ARG	NE-CZ-NH1	9.66	125.13	120.30
85	AA	894	A	C5'-C4'-O4'	9.66	120.69	109.10
34	BA	1310	C	P-O5'-C5'	9.65	136.35	120.90
41	BH	90	C	P-O5'-C5'	9.65	136.34	120.90
85	AA	1338	C	O3'-P-O5'	-9.65	85.66	104.00
85	AA	1492	U	N1-C2-N3	9.65	120.69	114.90
34	BA	266	G	N3-C2-N2	9.65	126.66	119.90
85	AA	66	U	P-O3'-C3'	9.65	131.28	119.70
85	AA	1467	U	P-O5'-C5'	9.65	136.34	120.90
34	BA	177	G	N9-C1'-C2'	-9.65	101.39	112.00
34	BA	996	U	C4'-C3'-C2'	9.65	112.25	102.60
35	BB	1114	A	C5'-C4'-C3'	-9.65	100.56	116.00
34	BA	129	U	O3'-P-O5'	-9.65	85.67	104.00
34	BA	1240	G	C5'-C4'-C3'	9.65	131.44	116.00
85	AA	557	G	C4-N9-C1'	-9.65	113.96	126.50
37	BD	74	A	C5-C6-N6	-9.65	115.98	123.70
85	AA	1110	A	C4'-C3'-C2'	-9.65	92.95	102.60
35	BB	1453	G	O4'-C1'-N9	9.64	115.92	108.20
85	AA	821	U	N1-C2-N3	9.64	120.69	114.90
85	AA	1007	G	C4-N9-C1'	-9.64	113.96	126.50
85	AA	1346	C	C6-N1-C2	-9.64	116.44	120.30
85	AA	315	U	P-O5'-C5'	9.64	136.33	120.90
35	BB	1385	C	P-O3'-C3'	9.64	131.27	119.70
38	BE	26	G	C5'-C4'-C3'	9.64	131.43	116.00
35	BB	1431	G	C4-N9-C1'	-9.64	113.97	126.50
85	AA	251	A	P-O3'-C3'	-9.64	108.13	119.70
85	AA	254	G	P-O5'-C5'	9.64	136.32	120.90
85	AA	1594	G	O4'-C1'-N9	9.64	115.91	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1162	A	C5'-C4'-O4'	9.64	120.67	109.10
85	AA	962	U	C2-N1-C1'	-9.64	106.14	117.70
34	BA	1440	C	C1'-O4'-C4'	-9.64	102.19	109.90
85	AA	847	G	C5'-C4'-C3'	-9.64	100.58	116.00
38	BE	127	G	C5-C6-O6	9.63	134.38	128.60
39	BF	9	C	C6-N1-C2	-9.63	116.45	120.30
85	AA	271	A	N1-C6-N6	9.63	124.38	118.60
85	AA	896	C	P-O3'-C3'	-9.63	108.14	119.70
85	AA	1240	A	N1-C6-N6	9.63	124.38	118.60
64	Be	70	ARG	NE-CZ-NH2	-9.63	115.48	120.30
34	BA	688	G	C5'-C4'-C3'	-9.63	100.59	116.00
34	BA	1257	U	P-O3'-C3'	9.63	131.25	119.70
85	AA	937	G	O5'-P-OP2	-9.63	97.03	105.70
85	AA	2099	C	C5'-C4'-C3'	-9.63	100.60	116.00
85	AA	2237	G	C5-C6-O6	9.63	134.38	128.60
34	BA	165	C	O4'-C1'-N1	9.62	115.90	108.20
34	BA	349	G	N1-C6-O6	-9.62	114.12	119.90
34	BA	683	C	C4'-C3'-O3'	9.63	132.25	113.00
35	BB	37	C	P-O3'-C3'	-9.63	108.15	119.70
34	BA	682	A	P-O3'-C3'	-9.62	108.15	119.70
35	BB	1346	A	C5-C6-N6	-9.62	116.00	123.70
38	BE	27	A	C5-C6-N6	-9.62	116.00	123.70
81	Bv	68	TYR	CB-CG-CD2	-9.62	115.22	121.00
34	BA	222	C	N3-C2-O2	-9.62	115.17	121.90
35	BB	3	C	C2-N1-C1'	9.62	129.38	118.80
35	BB	845	C	C6-N1-C1'	9.62	132.35	120.80
39	BF	14	C	C2-N3-C4	-9.62	115.09	119.90
35	BB	833	G	C4-N9-C1'	-9.62	113.99	126.50
34	BA	1489	U	O5'-P-OP2	-9.62	97.04	105.70
35	BB	1097	U	C5'-C4'-C3'	-9.62	100.61	116.00
85	AA	63	G	C8-N9-C1'	9.62	139.50	127.00
40	BG	148	C	P-O5'-C5'	-9.62	105.51	120.90
85	AA	789	A	O5'-C5'-C4'	9.62	129.97	111.70
85	AA	1464	G	C5'-C4'-C3'	-9.62	100.61	116.00
34	BA	788	C	P-O5'-C5'	-9.62	105.51	120.90
35	BB	631	G	N1-C6-O6	9.62	125.67	119.90
36	BC	147	G	C5-C6-O6	-9.61	122.83	128.60
34	BA	648	C	P-O5'-C5'	9.61	136.28	120.90
34	BA	761	U	P-O5'-C5'	-9.61	105.52	120.90
34	BA	1508	C	C6-N1-C2	-9.61	116.45	120.30
35	BB	630	A	O5'-C5'-C4'	-9.61	93.44	111.70
41	BH	76	G	OP1-P-OP2	-9.61	105.18	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	125	A	C2'-C3'-O3'	9.61	130.64	109.50
85	AA	1115	G	O4'-C1'-N9	9.61	115.89	108.20
36	BC	42	G	C4-N9-C1'	-9.61	114.01	126.50
85	AA	2090	C	C6-N1-C2	-9.61	116.46	120.30
35	BB	427	U	P-O5'-C5'	-9.61	105.53	120.90
35	BB	1259	A	C5'-C4'-C3'	9.61	131.37	116.00
35	BB	1336	G	C5-C6-O6	-9.61	122.83	128.60
40	BG	12	A	P-O3'-C3'	-9.61	108.17	119.70
38	BE	25	U	O3'-P-O5'	9.61	122.25	104.00
38	BE	173	G	C5-C6-O6	-9.61	122.84	128.60
65	Bf	72	ARG	NE-CZ-NH1	9.61	125.10	120.30
85	AA	457	G	C4-N9-C1'	-9.61	114.01	126.50
34	BA	572	G	N9-C4-C5	9.60	109.24	105.40
34	BA	890	G	C5'-C4'-C3'	9.60	131.36	116.00
34	BA	1500	G	N3-C4-C5	-9.60	123.80	128.60
71	Bl	95	TRP	C-N-CA	9.60	145.71	121.70
85	AA	2085	C	C2'-C3'-O3'	9.60	130.62	109.50
34	BA	880	G	N1-C6-O6	9.60	125.66	119.90
35	BB	979	G	C5'-C4'-C3'	-9.60	100.64	116.00
34	BA	667	U	P-O3'-C3'	9.60	131.22	119.70
34	BA	1410	C	C5'-C4'-O4'	9.60	120.62	109.10
85	AA	1541	G	C5-C6-N1	9.60	116.30	111.50
85	AA	1645	G	P-O5'-C5'	9.60	136.26	120.90
34	BA	1067	G	C4-N9-C1'	-9.60	114.02	126.50
37	BD	19	C	C5'-C4'-C3'	-9.60	100.64	116.00
84	By	22	ARG	NE-CZ-NH1	9.60	125.10	120.30
85	AA	806	G	P-O5'-C5'	9.60	136.25	120.90
85	AA	2126	U	P-O3'-C3'	-9.60	108.18	119.70
85	AA	1756	C	O4'-C1'-N1	9.59	115.88	108.20
85	AA	1177	G	P-O3'-C3'	9.59	131.21	119.70
85	AA	2202	G	C5'-C4'-C3'	9.59	131.35	116.00
85	AA	1879	U	C2-N3-C4	-9.59	121.25	127.00
3	A2	27	TYR	CB-CG-CD2	-9.59	115.25	121.00
34	BA	214	A	C1'-O4'-C4'	-9.59	102.23	109.90
34	BA	845	U	O4'-C1'-N1	9.59	115.87	108.20
85	AA	351	C	O4'-C1'-N1	9.59	115.87	108.20
85	AA	1009	G	P-O3'-C3'	9.59	131.21	119.70
70	Bk	44	ARG	NE-CZ-NH2	9.59	125.09	120.30
34	BA	1124	U	C5'-C4'-C3'	-9.58	100.67	116.00
85	AA	2134	U	C5'-C4'-C3'	-9.58	100.67	116.00
34	BA	558	C	OP1-P-OP2	-9.58	105.23	119.60
34	BA	572	G	N3-C4-C5	-9.58	123.81	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	768	A	O4'-C1'-C2'	-9.58	96.22	105.80
35	BB	1071	G	C8-N9-C4	-9.58	102.57	106.40
41	BH	94	G	O4'-C1'-N9	9.58	115.86	108.20
7	A6	18	PHE	CB-CG-CD2	-9.58	114.10	120.80
40	BG	10	U	C2-N1-C1'	-9.58	106.21	117.70
85	AA	207	G	C5'-C4'-O4'	9.58	120.59	109.10
85	AA	384	C	C2-N1-C1'	-9.57	108.27	118.80
34	BA	534	C	C6-N1-C2	-9.57	116.47	120.30
38	BE	175	U	C2-N3-C4	-9.57	121.26	127.00
39	BF	24	G	O4'-C1'-N9	9.57	115.86	108.20
41	BH	26	C	C2-N3-C4	-9.57	115.11	119.90
41	BH	72	G	C1'-O4'-C4'	-9.57	102.24	109.90
15	AG	128	TYR	CB-CG-CD1	-9.57	115.26	121.00
34	BA	1265	G	O4'-C1'-N9	9.57	115.86	108.20
35	BB	1352	C	C1'-O4'-C4'	-9.57	102.24	109.90
85	AA	569	A	C8-N9-C1'	9.57	144.93	127.70
85	AA	847	G	C5-C6-O6	-9.57	122.86	128.60
85	AA	1735	U	P-O3'-C3'	9.57	131.18	119.70
34	BA	944	G	C8-N9-C1'	9.57	139.44	127.00
34	BA	1704	G	C5'-C4'-C3'	-9.57	100.69	116.00
35	BB	1197	G	C5-C6-O6	-9.57	122.86	128.60
85	AA	307	G	P-O3'-C3'	-9.57	108.22	119.70
85	AA	849	A	O4'-C1'-N9	9.57	115.85	108.20
34	BA	486	G	C5-C6-O6	-9.56	122.86	128.60
34	BA	878	G	N1-C6-O6	9.56	125.64	119.90
34	BA	911	G	C4-N9-C1'	-9.56	114.07	126.50
41	BH	10	U	O4'-C1'-N1	9.56	115.85	108.20
34	BA	1651	C	O4'-C1'-N1	9.56	115.85	108.20
39	BF	8	C	C1'-O4'-C4'	-9.56	102.25	109.90
85	AA	2131	C	C5'-C4'-C3'	-9.56	100.70	116.00
36	BC	157	U	O5'-P-OP2	-9.56	97.10	105.70
40	BG	81	G	C4-N9-C1'	-9.56	114.08	126.50
35	BB	132	G	C4-N9-C1'	-9.56	114.08	126.50
85	AA	66	U	C2-N3-C4	-9.56	121.27	127.00
85	AA	314	C	C6-N1-C2	-9.56	116.48	120.30
35	BB	504	C	C5'-C4'-O4'	9.55	120.56	109.10
85	AA	723	U	P-O5'-C5'	9.55	136.18	120.90
34	BA	362	G	N1-C6-O6	-9.55	114.17	119.90
37	BD	84	U	N1-C2-N3	9.55	120.63	114.90
35	BB	1359	G	N1-C6-O6	9.55	125.63	119.90
34	BA	150	C	O4'-C1'-N1	9.55	115.84	108.20
34	BA	800	G	O4'-C1'-N9	-9.55	100.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	17	U	C2-N3-C4	-9.55	121.27	127.00
34	BA	99	G	C6-N1-C2	-9.54	119.37	125.10
35	BB	1129	C	P-O5'-C5'	9.54	136.17	120.90
34	BA	330	A	N1-C6-N6	9.54	124.33	118.60
34	BA	819	G	C5'-C4'-C3'	-9.54	100.73	116.00
34	BA	1809	G	C3'-C2'-C1'	-9.54	93.87	101.50
85	AA	1797	U	O4'-C1'-N1	9.54	115.83	108.20
35	BB	963	G	C8-N9-C1'	9.54	139.40	127.00
85	AA	100	A	N9-C1'-C2'	9.54	126.40	114.00
34	BA	548	G	C8-N9-C4	-9.54	102.58	106.40
35	BB	423	G	C5'-C4'-C3'	-9.54	100.74	116.00
35	BB	505	G	N1-C6-O6	-9.54	114.18	119.90
36	BC	128	U	O4'-C1'-N1	9.54	115.83	108.20
36	BC	38	U	O4'-C1'-N1	9.54	115.83	108.20
85	AA	1547	G	N1-C6-O6	-9.54	114.18	119.90
35	BB	1302	C	N3-C4-N4	9.53	124.67	118.00
85	AA	974	U	O4'-C1'-N1	9.53	115.83	108.20
34	BA	636	G	N1-C6-O6	-9.53	114.18	119.90
35	BB	1206	G	N3-C2-N2	9.53	126.57	119.90
85	AA	572	G	C4-N9-C1'	-9.53	114.11	126.50
85	AA	1281	G	C8-N9-C4	9.53	110.21	106.40
80	Bu	109	MET	CG-SD-CE	-9.53	84.95	100.20
35	BB	503	G	C5-C6-O6	-9.53	122.88	128.60
34	BA	862	C	C2-N3-C4	-9.53	115.14	119.90
34	BA	1793	G	O4'-C1'-N9	9.53	115.82	108.20
34	BA	1804	A	O4'-C1'-N9	9.53	115.82	108.20
35	BB	384	A	P-O3'-C3'	-9.53	108.27	119.70
35	BB	453	C	C5'-C4'-C3'	9.53	131.24	116.00
85	AA	1797	U	P-O5'-C5'	9.53	136.14	120.90
85	AA	1190	G	C8-N9-C4	9.52	110.21	106.40
34	BA	874	G	P-O5'-C5'	9.52	136.13	120.90
85	AA	242	G	O4'-C1'-N9	9.52	115.82	108.20
85	AA	1794	U	P-O5'-C5'	-9.52	105.67	120.90
85	AA	1921	G	C4-C5-N7	-9.52	106.99	110.80
34	BA	1662	U	C2-N3-C4	-9.52	121.29	127.00
35	BB	524	C	O4'-C1'-N1	9.52	115.81	108.20
85	AA	572	G	C8-N9-C1'	9.52	139.37	127.00
34	BA	1723	U	N1-C2-N3	9.52	120.61	114.90
35	BB	791	A	N1-C6-N6	-9.52	112.89	118.60
34	BA	102	G	N1-C6-O6	-9.52	114.19	119.90
34	BA	1023	G	C5-C6-O6	-9.52	122.89	128.60
34	BA	1215	U	P-O5'-C5'	9.52	136.13	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	164	G	C8-N9-C1'	9.52	139.37	127.00
35	BB	608	A	N1-C6-N6	-9.51	112.89	118.60
40	BG	11	G	C2-N3-C4	-9.51	107.14	111.90
40	BG	170	G	P-O3'-C3'	-9.51	108.28	119.70
80	Bu	108	ARG	NE-CZ-NH1	9.51	125.06	120.30
34	BA	360	C	O4'-C1'-N1	9.51	115.81	108.20
38	BE	110	U	P-O3'-C3'	-9.51	108.29	119.70
34	BA	882	G	C1'-O4'-C4'	-9.51	102.29	109.90
85	AA	465	A	P-O3'-C3'	9.51	131.11	119.70
34	BA	763	U	C6-N1-C2	-9.51	115.30	121.00
34	BA	1821	A	N1-C6-N6	-9.51	112.90	118.60
35	BB	1203	C	C5'-C4'-C3'	-9.51	100.79	116.00
36	BC	164	G	C4-N9-C1'	-9.51	114.14	126.50
85	AA	1235	G	P-O3'-C3'	-9.51	108.29	119.70
85	AA	2053	A	C8-N9-C4	-9.51	102.00	105.80
34	BA	1658	G	C5'-C4'-C3'	-9.50	100.80	116.00
36	BC	20	C	O5'-P-OP1	-9.50	97.15	105.70
34	BA	1477	C	C5'-C4'-O4'	9.50	120.50	109.10
35	BB	1133	C	P-O5'-C5'	-9.50	105.70	120.90
85	AA	1692	U	N3-C2-O2	-9.50	115.55	122.20
85	AA	1921	G	N9-C4-C5	9.50	109.20	105.40
86	AB	17	C	O4'-C1'-N1	9.50	115.80	108.20
34	BA	530	A	P-O3'-C3'	9.49	131.09	119.70
34	BA	777	C	C6-N1-C2	-9.49	116.50	120.30
35	BB	520	G	C5-C6-O6	-9.49	122.90	128.60
85	AA	1248	U	C2-N3-C4	-9.49	121.31	127.00
36	BC	31	A	C3'-C2'-C1'	-9.49	93.91	101.50
38	BE	46	G	C4-N9-C1'	-9.49	114.16	126.50
85	AA	1235	G	O4'-C1'-N9	9.49	115.79	108.20
35	BB	490	G	C5'-C4'-O4'	9.49	120.49	109.10
35	BB	1426	G	N3-C4-C5	-9.49	123.86	128.60
34	BA	21	C	O4'-C1'-N1	9.48	115.79	108.20
34	BA	571	G	C4-N9-C1'	9.48	138.83	126.50
34	BA	802	G	C4-N9-C1'	-9.48	114.17	126.50
85	AA	881	C	C6-N1-C1'	9.48	132.18	120.80
34	BA	554	A	O5'-P-OP2	-9.48	97.17	105.70
34	BA	253	U	C2-N1-C1'	-9.48	106.32	117.70
85	AA	898	A	O4'-C1'-N9	9.48	115.78	108.20
85	AA	1006	C	C2-N1-C1'	-9.48	108.37	118.80
85	AA	1471	G	C4-C5-N7	9.48	114.59	110.80
37	BD	83	A	O4'-C1'-N9	9.48	115.78	108.20
34	BA	1716	A	C5'-C4'-C3'	9.48	131.16	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	881	G	C8-N9-C1'	9.48	139.32	127.00
35	BB	1475	U	P-O3'-C3'	9.48	131.07	119.70
85	AA	535	G	N1-C6-O6	9.48	125.59	119.90
34	BA	43	U	C2-N1-C1'	-9.47	106.33	117.70
34	BA	564	C	O4'-C1'-N1	9.47	115.78	108.20
85	AA	209	C	C6-N1-C2	-9.47	116.51	120.30
85	AA	857	G	C8-N9-C1'	9.47	139.32	127.00
85	AA	1496	U	O3'-P-O5'	9.47	122.00	104.00
34	BA	220	U	P-O5'-C5'	9.47	136.06	120.90
35	BB	1138	A	O5'-C5'-C4'	-9.47	93.71	111.70
85	AA	434	U	P-O5'-C5'	-9.47	105.75	120.90
34	BA	1071	G	C5-C6-O6	-9.47	122.92	128.60
34	BA	486	G	C8-N9-C4	-9.47	102.61	106.40
40	BG	59	G	C5'-C4'-C3'	-9.47	100.85	116.00
34	BA	1138	C	C6-N1-C1'	9.46	132.16	120.80
35	BB	363	A	C1'-O4'-C4'	-9.46	102.33	109.90
85	AA	767	A	O4'-C1'-N9	9.46	115.77	108.20
34	BA	272	A	C5'-C4'-C3'	9.46	131.14	116.00
34	BA	658	C	O4'-C1'-N1	9.46	115.77	108.20
34	BA	761	U	C2-N1-C1'	-9.46	106.34	117.70
34	BA	1226	G	P-O3'-C3'	-9.46	108.35	119.70
35	BB	1323	U	C6-N1-C2	-9.46	115.32	121.00
34	BA	1506	C	C6-N1-C2	-9.46	116.52	120.30
34	BA	1724	G	C5-C6-N1	9.46	116.23	111.50
37	BD	83	A	C4'-C3'-C2'	-9.46	93.14	102.60
85	AA	494	G	C5'-C4'-C3'	-9.46	100.86	116.00
85	AA	907	G	C1'-O4'-C4'	-9.46	102.33	109.90
85	AA	1789	C	C5'-C4'-O4'	-9.46	97.75	109.10
85	AA	1878	C	P-O5'-C5'	9.46	136.04	120.90
34	BA	1733	G	P-O5'-C5'	9.46	136.03	120.90
85	AA	2179	C	O4'-C1'-N1	9.46	115.77	108.20
35	BB	1445	A	C5-C6-N6	9.46	131.26	123.70
86	AB	61	C	C2-N1-C1'	-9.46	108.40	118.80
38	BE	146	U	N3-C2-O2	-9.45	115.58	122.20
85	AA	1897	A	O4'-C1'-N9	9.46	115.76	108.20
5	A4	143	ARG	NE-CZ-NH1	9.45	125.03	120.30
34	BA	243	C	C6-N1-C1'	9.45	132.14	120.80
35	BB	545	C	C6-N1-C2	-9.45	116.52	120.30
85	AA	888	A	P-O3'-C3'	9.45	131.04	119.70
85	AA	1541	G	C6-N1-C2	-9.45	119.43	125.10
85	AA	1852	U	P-O3'-C3'	9.45	131.04	119.70
85	AA	2008	G	N9-C4-C5	9.45	109.18	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1868	G	O4'-C1'-N9	9.45	115.76	108.20
34	BA	906	A	O4'-C1'-N9	9.45	115.76	108.20
34	BA	933	U	C2-N1-C1'	-9.45	106.36	117.70
34	BA	2	A	C2'-C3'-O3'	9.45	130.28	109.50
34	BA	966	G	N1-C6-O6	-9.45	114.23	119.90
34	BA	1563	G	C8-N9-C4	-9.44	102.62	106.40
35	BB	871	C	C3'-C2'-C1'	-9.45	93.94	101.50
35	BB	977	G	C8-N9-C4	-9.45	102.62	106.40
35	BB	996	G	P-O5'-C5'	-9.44	105.79	120.90
35	BB	1482	A	P-O3'-C3'	9.44	131.03	119.70
38	BE	185	G	C8-N9-C1'	9.44	139.27	127.00
85	AA	889	G	N3-C2-N2	-9.44	113.29	119.90
34	BA	526	C	C4'-C3'-C2'	-9.44	93.16	102.60
34	BA	685	C	O4'-C4'-C3'	-9.44	94.56	104.00
35	BB	529	A	C5-C6-N6	-9.44	116.15	123.70
40	BG	9	G	P-O5'-C5'	-9.44	105.80	120.90
85	AA	63	G	C4-N9-C1'	-9.44	114.23	126.50
68	Bi	111	ARG	NE-CZ-NH1	9.44	125.02	120.30
85	AA	584	G	C4-N9-C1'	9.44	138.77	126.50
37	BD	71	G	P-O3'-C3'	9.43	131.02	119.70
41	BH	129	G	N1-C6-O6	-9.43	114.24	119.90
35	BB	813	C	O4'-C1'-N1	9.43	115.75	108.20
85	AA	937	G	C5-C6-O6	-9.43	122.94	128.60
7	A6	84	PHE	CB-CG-CD2	-9.43	114.20	120.80
34	BA	99	G	C4-N9-C1'	9.43	138.76	126.50
34	BA	1207	A	P-O3'-C3'	9.43	131.01	119.70
85	AA	2126	U	C5'-C4'-C3'	9.43	131.09	116.00
34	BA	943	G	C4-N9-C1'	-9.43	114.25	126.50
34	BA	1541	G	N1-C6-O6	9.43	125.56	119.90
85	AA	253	C	C6-N1-C2	-9.43	116.53	120.30
85	AA	817	G	N1-C6-O6	-9.43	114.25	119.90
34	BA	513	U	O4'-C1'-N1	9.42	115.74	108.20
34	BA	1260	G	C3'-C2'-C1'	-9.42	93.96	101.50
34	BA	1803	A	C8-N9-C4	9.42	109.57	105.80
35	BB	1093	C	C6-N1-C2	-9.42	116.53	120.30
35	BB	1480	G	C6-C5-N7	-9.42	124.75	130.40
85	AA	1913	G	C8-N9-C4	-9.42	102.63	106.40
34	BA	1194	G	C8-N9-C1'	9.42	139.24	127.00
34	BA	1060	C	P-O3'-C3'	9.42	131.00	119.70
85	AA	1010	U	C6-N1-C1'	9.42	134.38	121.20
2	A1	97	ARG	NE-CZ-NH1	9.41	125.01	120.30
34	BA	1041	U	P-O5'-C5'	9.41	135.96	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	270	A	P-O3'-C3'	-9.41	108.40	119.70
34	BA	1566	G	N1-C6-O6	9.41	125.55	119.90
34	BA	1653	G	C4-N9-C1'	-9.41	114.26	126.50
34	BA	1631	U	C5'-C4'-C3'	9.41	131.06	116.00
35	BB	763	U	C2-N1-C1'	-9.41	106.40	117.70
35	BB	945	U	P-O3'-C3'	9.41	131.00	119.70
85	AA	2074	G	N1-C6-O6	9.41	125.55	119.90
85	AA	2127	G	O4'-C1'-N9	9.41	115.73	108.20
15	AG	55	ARG	NE-CZ-NH2	-9.41	115.60	120.30
27	AT	120	ARG	NE-CZ-NH1	9.41	125.00	120.30
34	BA	611	A	C5'-C4'-C3'	-9.41	100.95	116.00
39	BF	22	U	N1-C2-N3	9.41	120.54	114.90
85	AA	817	G	C5-C6-O6	9.41	134.24	128.60
85	AA	1050	C	C6-N1-C2	-9.41	116.54	120.30
85	AA	1245	U	C5'-C4'-C3'	-9.41	100.95	116.00
34	BA	196	A	N9-C1'-C2'	-9.40	101.66	112.00
35	BB	1459	U	C2-N3-C4	-9.40	121.36	127.00
41	BH	6	U	N3-C2-O2	-9.40	115.62	122.20
34	BA	89	G	C4-N9-C1'	-9.40	114.28	126.50
35	BB	878	G	P-O3'-C3'	9.40	130.98	119.70
34	BA	111	U	C1'-O4'-C4'	-9.40	102.38	109.90
34	BA	297	A	C5'-C4'-O4'	9.40	120.38	109.10
85	AA	799	G	C5-C6-O6	-9.40	122.96	128.60
34	BA	1515	U	O4'-C1'-N1	9.40	115.72	108.20
35	BB	441	G	C4-N9-C1'	-9.40	114.28	126.50
35	BB	1193	G	C5'-C4'-C3'	9.40	131.04	116.00
85	AA	2128	G	C4-N9-C1'	-9.40	114.28	126.50
34	BA	260	A	O4'-C1'-N9	9.40	115.72	108.20
37	BD	95	G	N1-C6-O6	-9.40	114.26	119.90
8	A7	105	PHE	CB-CG-CD2	-9.39	114.22	120.80
38	BE	78	C	O4'-C1'-N1	9.39	115.72	108.20
45	BL	135	TYR	CB-CG-CD1	-9.39	115.36	121.00
34	BA	141	G	N9-C4-C5	9.39	109.16	105.40
34	BA	297	A	C2'-C3'-O3'	9.39	130.16	109.50
85	AA	1186	C	O4'-C1'-N1	9.39	115.72	108.20
85	AA	2196	G	C8-N9-C4	-9.39	102.64	106.40
34	BA	248	G	N1-C6-O6	9.39	125.53	119.90
34	BA	720	A	N1-C6-N6	9.39	124.23	118.60
35	BB	1426	G	N1-C2-N2	-9.39	107.75	116.20
38	BE	158	U	P-O3'-C3'	9.39	130.97	119.70
85	AA	1464	G	C3'-C2'-C1'	-9.39	93.99	101.50
85	AA	1661	U	C5'-C4'-C3'	-9.39	100.97	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AD	17	PHE	CB-CG-CD2	-9.38	114.23	120.80
34	BA	1096	C	O4'-C1'-N1	9.38	115.71	108.20
35	BB	1204	C	P-O3'-C3'	9.38	130.96	119.70
40	BG	54	G	N3-C2-N2	-9.38	113.33	119.90
85	AA	365	G	C8-N9-C4	9.39	110.15	106.40
85	AA	1225	C	O4'-C1'-N1	9.38	115.71	108.20
34	BA	192	G	C5'-C4'-C3'	9.38	131.01	116.00
35	BB	1079	G	C4-N9-C1'	-9.38	114.30	126.50
85	AA	46	U	C2-N1-C1'	9.38	128.96	117.70
85	AA	424	A	C1'-O4'-C4'	-9.38	102.39	109.90
85	AA	1793	A	C8-N9-C1'	9.38	144.59	127.70
35	BB	1151	A	N1-C6-N6	-9.38	112.97	118.60
37	BD	29	C	C5'-C4'-C3'	-9.38	100.99	116.00
4	A3	157	ARG	NE-CZ-NH1	9.38	124.99	120.30
36	BC	58	G	C6-N1-C2	-9.38	119.47	125.10
34	BA	1265	G	C4-N9-C1'	9.38	138.69	126.50
35	BB	427	U	C1'-O4'-C4'	-9.38	102.40	109.90
40	BG	54	G	P-O3'-C3'	-9.38	108.45	119.70
85	AA	775	C	O4'-C1'-N1	9.38	115.70	108.20
34	BA	531	C	O4'-C1'-N1	9.38	115.70	108.20
34	BA	537	C	O4'-C1'-N1	9.38	115.70	108.20
34	BA	665	C	N3-C2-O2	-9.38	115.34	121.90
36	BC	50	C	O4'-C1'-N1	9.37	115.70	108.20
38	BE	142	A	N1-C6-N6	-9.38	112.97	118.60
85	AA	592	C	O4'-C1'-N1	9.38	115.70	108.20
85	AA	820	G	C4'-C3'-C2'	-9.37	93.23	102.60
85	AA	1088	C	O4'-C1'-N1	9.37	115.70	108.20
85	AA	2007	G	O4'-C1'-N9	9.37	115.70	108.20
12	AD	14	TYR	CB-CG-CD2	-9.37	115.38	121.00
85	AA	1645	G	C5-C6-O6	-9.37	122.98	128.60
85	AA	671	G	P-O5'-C5'	-9.37	105.91	120.90
85	AA	1806	C	C6-N1-C2	-9.37	116.55	120.30
85	AA	1558	U	C5'-C4'-C3'	9.37	130.99	116.00
85	AA	1763	G	C5-C6-O6	-9.37	122.98	128.60
34	BA	334	G	C5-C6-O6	9.37	134.22	128.60
34	BA	660	C	C6-N1-C1'	9.37	132.04	120.80
35	BB	799	A	C1'-O4'-C4'	9.37	117.39	109.90
35	BB	1201	G	C4'-C3'-O3'	9.37	131.73	113.00
37	BD	100	A	C5'-C4'-C3'	9.37	130.99	116.00
34	BA	1498	A	C5'-C4'-C3'	-9.36	101.02	116.00
85	AA	1676	G	C5'-C4'-C3'	-9.36	101.02	116.00
85	AA	1799	C	O5'-P-OP1	-9.36	97.27	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1845	G	P-O3'-C3'	-9.36	108.46	119.70
35	BB	853	U	P-O3'-C3'	9.36	130.94	119.70
36	BC	168	C	P-O3'-C3'	-9.36	108.47	119.70
38	BE	76	U	O4'-C1'-N1	9.36	115.69	108.20
38	BE	183	C	N3-C4-N4	9.36	124.55	118.00
85	AA	1117	G	N1-C6-O6	-9.36	114.28	119.90
85	AA	1636	C	O4'-C1'-N1	9.36	115.69	108.20
85	AA	618	A	O4'-C1'-N9	9.36	115.69	108.20
85	AA	807	A	C5'-C4'-C3'	-9.36	101.03	116.00
85	AA	1228	A	O4'-C1'-N9	9.36	115.69	108.20
85	AA	1647	G	N1-C6-O6	-9.36	114.28	119.90
85	AA	2056	C	C2-N1-C1'	-9.36	108.51	118.80
34	BA	1001	G	C5-C6-O6	-9.36	122.99	128.60
34	BA	1739	G	C5-C6-O6	-9.36	122.99	128.60
41	BH	113	G	C4-N9-C1'	-9.36	114.34	126.50
53	BT	107	ARG	NE-CZ-NH1	9.36	124.98	120.30
36	BC	74	U	C5-C6-N1	-9.35	118.02	122.70
38	BE	6	A	C6-N1-C2	-9.35	112.99	118.60
85	AA	277	G	C5'-C4'-C3'	-9.35	101.04	116.00
85	AA	392	G	C4-N9-C1'	-9.35	114.34	126.50
85	AA	1952	C	O4'-C1'-N1	9.35	115.68	108.20
85	AA	2046	G	C8-N9-C4	-9.35	102.66	106.40
34	BA	1426	A	C8-N9-C4	-9.35	102.06	105.80
34	BA	1847	G	C2-N3-C4	-9.35	107.22	111.90
39	BF	32	G	C5'-C4'-O4'	9.35	120.32	109.10
36	BC	126	G	O4'-C1'-N9	9.35	115.68	108.20
85	AA	253	C	C5'-C4'-C3'	-9.35	101.04	116.00
85	AA	604	C	O4'-C1'-N1	9.35	115.68	108.20
85	AA	1611	A	P-O5'-C5'	-9.35	105.94	120.90
35	BB	1467	A	O4'-C1'-N9	9.35	115.68	108.20
85	AA	326	C	C6-N1-C1'	-9.35	109.58	120.80
34	BA	146	G	C4'-C3'-C2'	-9.34	93.26	102.60
35	BB	522	A	C4'-C3'-C2'	9.34	111.94	102.60
85	AA	970	U	O4'-C1'-N1	9.34	115.67	108.20
34	BA	471	U	N3-C2-O2	9.34	128.74	122.20
34	BA	1579	G	N1-C6-O6	-9.34	114.30	119.90
40	BG	147	U	P-O5'-C5'	9.34	135.84	120.90
85	AA	684	G	C5-C6-N1	9.34	116.17	111.50
34	BA	1745	G	C8-N9-C1'	9.34	139.14	127.00
85	AA	977	U	C2-N3-C4	-9.34	121.40	127.00
34	BA	1052	G	N1-C6-O6	9.34	125.50	119.90
35	BB	544	C	C6-N1-C2	-9.34	116.57	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	120	C	O4'-C1'-N1	9.34	115.67	108.20
35	BB	1511	U	C5'-C4'-O4'	-9.34	97.90	109.10
85	AA	495	G	C4-N9-C1'	-9.34	114.36	126.50
85	AA	1299	A	O4'-C1'-N9	9.33	115.67	108.20
34	BA	108	A	P-O3'-C3'	9.33	130.90	119.70
34	BA	270	U	C2-N3-C4	-9.33	121.40	127.00
35	BB	881	G	C4-N9-C1'	-9.33	114.37	126.50
35	BB	1245	A	N1-C6-N6	-9.33	113.00	118.60
85	AA	1492	U	C2-N1-C1'	-9.33	106.50	117.70
34	BA	298	G	O4'-C1'-N9	9.33	115.66	108.20
34	BA	1190	A	O4'-C1'-N9	9.33	115.66	108.20
34	BA	1334	G	C5-C6-N1	9.33	116.16	111.50
34	BA	1579	G	O4'-C1'-N9	9.33	115.66	108.20
40	BG	2	U	C5'-C4'-O4'	9.33	120.29	109.10
85	AA	467	U	C2-N1-C1'	9.33	128.89	117.70
35	BB	262	C	O4'-C1'-N1	9.33	115.66	108.20
11	AC	216	ARG	NE-CZ-NH1	9.32	124.96	120.30
34	BA	839	U	O3'-P-O5'	-9.32	86.28	104.00
35	BB	1426	G	N3-C2-N2	9.32	126.43	119.90
37	BD	82	G	O4'-C1'-C2'	9.32	115.99	107.60
85	AA	1300	A	P-O3'-C3'	-9.32	108.51	119.70
85	AA	2018	U	O4'-C1'-N1	9.32	115.66	108.20
85	AA	2085	C	C2-N1-C1'	-9.32	108.54	118.80
34	BA	53	G	C4-C5-C6	-9.32	113.21	118.80
34	BA	701	G	C1'-O4'-C4'	-9.32	102.44	109.90
35	BB	1410	G	C5-C6-O6	-9.32	123.01	128.60
85	AA	240	A	O4'-C1'-N9	9.32	115.66	108.20
34	BA	450	G	C5-C6-O6	-9.32	123.01	128.60
39	BF	55	A	O4'-C1'-N9	9.32	115.66	108.20
85	AA	1717	G	P-O3'-C3'	9.32	130.88	119.70
85	AA	2092	A	P-O5'-C5'	9.32	135.81	120.90
34	BA	1668	C	P-O3'-C3'	-9.32	108.52	119.70
35	BB	432	C	C5'-C4'-C3'	9.32	130.91	116.00
36	BC	75	G	P-O3'-C3'	-9.32	108.52	119.70
35	BB	1083	C	C6-N1-C2	-9.32	116.57	120.30
38	BE	175	U	C6-N1-C2	-9.32	115.41	121.00
56	BW	37	TYR	CB-CG-CD2	-9.32	115.41	121.00
85	AA	1128	G	C4-N9-C1'	-9.32	114.39	126.50
29	AV	24	HIS	CA-CB-CG	9.31	129.43	113.60
34	BA	595	U	P-O3'-C3'	9.31	130.88	119.70
83	Bx	100	ARG	NE-CZ-NH1	9.31	124.96	120.30
85	AA	787	U	C5'-C4'-C3'	-9.31	101.10	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1919	G	C5-C6-O6	-9.31	123.01	128.60
34	BA	141	G	C5'-C4'-C3'	-9.31	101.10	116.00
35	BB	1218	G	C4-N9-C1'	9.31	138.60	126.50
85	AA	137	C	C6-N1-C2	-9.31	116.58	120.30
35	BB	545	C	P-O3'-C3'	9.31	130.87	119.70
83	Bx	48	GLY	N-CA-C	9.31	136.37	113.10
85	AA	450	A	C5'-C4'-C3'	-9.31	101.11	116.00
35	BB	1434	G	C5-C6-O6	-9.31	123.02	128.60
85	AA	388	G	C5-C6-O6	-9.31	123.02	128.60
85	AA	1962	U	C4'-C3'-C2'	9.31	111.91	102.60
35	BB	773	G	C5-C6-O6	-9.31	123.02	128.60
38	BE	30	C	C2-N1-C1'	-9.30	108.57	118.80
41	BH	41	A	C1'-O4'-C4'	-9.30	102.46	109.90
38	BE	195	G	N3-C2-N2	9.30	126.41	119.90
85	AA	32	U	C2-N3-C4	-9.30	121.42	127.00
85	AA	1090	A	O3'-P-O5'	-9.30	86.33	104.00
85	AA	1506	U	C2-N3-C4	-9.30	121.42	127.00
85	AA	2062	U	C2-N1-C1'	-9.30	106.54	117.70
40	BG	171	A	N9-C4-C5	9.30	109.52	105.80
41	BH	41	A	C3'-C2'-C1'	-9.30	94.06	101.50
85	AA	760	U	C3'-C2'-C1'	-9.30	94.06	101.50
85	AA	918	U	O4'-C1'-N1	9.30	115.64	108.20
85	AA	2225	G	C4-N9-C1'	-9.30	114.42	126.50
85	AA	159	G	C4-N9-C1'	-9.29	114.42	126.50
34	BA	190	U	O4'-C1'-N1	9.29	115.63	108.20
34	BA	357	A	N1-C6-N6	-9.29	113.02	118.60
34	BA	741	A	C1'-O4'-C4'	-9.29	102.47	109.90
38	BE	130	G	C8-N9-C4	-9.29	102.68	106.40
43	BJ	59	ARG	NE-CZ-NH1	9.29	124.95	120.30
85	AA	1594	G	N1-C6-O6	9.29	125.48	119.90
34	BA	564	C	C6-N1-C1'	-9.29	109.65	120.80
35	BB	405	U	C4'-C3'-C2'	-9.29	93.31	102.60
38	BE	128	G	O5'-P-OP2	-9.29	97.34	105.70
41	BH	58	C	C6-N1-C2	-9.29	116.58	120.30
42	BI	135	MET	N-CA-CB	-9.29	93.88	110.60
34	BA	236	A	C4'-C3'-C2'	9.29	111.89	102.60
35	BB	132	G	C5-C6-O6	-9.29	123.03	128.60
34	BA	480	G	C5-C6-O6	-9.29	123.03	128.60
34	BA	1210	A	P-O3'-C3'	-9.29	108.55	119.70
36	BC	121	G	C5-C6-O6	-9.29	123.03	128.60
85	AA	265	A	O4'-C1'-N9	9.29	115.63	108.20
34	BA	483	A	C1'-O4'-C4'	9.28	117.33	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	538	G	N1-C2-N2	-9.29	107.84	116.20
34	BA	642	U	O4'-C1'-N1	9.28	115.63	108.20
34	BA	666	C	C5'-C4'-C3'	-9.29	101.14	116.00
34	BA	349	G	C5-C6-O6	9.28	134.17	128.60
35	BB	43	G	P-O3'-C3'	-9.28	108.56	119.70
36	BC	137	C	O4'-C1'-N1	9.28	115.63	108.20
35	BB	605	C	C4'-C3'-C2'	9.28	111.88	102.60
22	AO	62	ARG	NE-CZ-NH1	9.28	124.94	120.30
34	BA	1206	C	O4'-C1'-N1	9.28	115.62	108.20
34	BA	1672	C	O4'-C1'-N1	9.28	115.62	108.20
85	AA	1240	A	C4'-C3'-C2'	9.28	111.88	102.60
13	AE	76	PHE	CB-CG-CD2	-9.28	114.31	120.80
34	BA	744	G	C3'-C2'-C1'	-9.28	94.08	101.50
34	BA	954	U	C2-N1-C1'	-9.28	106.57	117.70
85	AA	473	C	C6-N1-C2	-9.28	116.59	120.30
35	BB	439	G	C6-N1-C2	-9.28	119.53	125.10
53	BT	185	ARG	NE-CZ-NH1	9.27	124.94	120.30
34	BA	610	A	O4'-C1'-N9	9.27	115.62	108.20
34	BA	1789	A	C5'-C4'-C3'	-9.27	101.17	116.00
86	AB	21	A	O4'-C1'-N9	9.27	115.62	108.20
35	BB	82	G	C8-N9-C1'	9.27	139.05	127.00
35	BB	769	C	C5'-C4'-C3'	-9.27	101.17	116.00
35	BB	837	A	C8-N9-C4	-9.27	102.09	105.80
35	BB	1225	A	P-O3'-C3'	9.27	130.82	119.70
38	BE	117	A	O4'-C4'-C3'	9.27	113.52	106.10
49	BP	23	ARG	NE-CZ-NH2	-9.27	115.67	120.30
39	BF	39	C	C4'-C3'-C2'	9.27	111.87	102.60
35	BB	112	G	C6-N1-C2	-9.27	119.54	125.10
85	AA	353	G	C5-C6-O6	-9.27	123.04	128.60
85	AA	1086	U	C2-N1-C1'	-9.27	106.58	117.70
34	BA	112	C	C6-N1-C1'	-9.26	109.69	120.80
34	BA	516	U	P-O5'-C5'	9.26	135.72	120.90
34	BA	840	U	C1'-O4'-C4'	-9.26	102.49	109.90
34	BA	1711	G	C5-C6-O6	-9.26	123.04	128.60
35	BB	1331	U	O4'-C1'-N1	9.26	115.61	108.20
85	AA	866	U	O4'-C1'-N1	9.26	115.61	108.20
34	BA	229	C	P-O3'-C3'	9.26	130.81	119.70
34	BA	577	U	P-O3'-C3'	9.26	130.81	119.70
34	BA	1324	G	C5-C6-O6	-9.26	123.05	128.60
85	AA	452	A	O4'-C1'-N9	9.26	115.61	108.20
34	BA	237	A	C1'-O4'-C4'	-9.26	102.49	109.90
34	BA	889	U	N3-C2-O2	-9.26	115.72	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	755	G	N1-C6-O6	9.26	125.45	119.90
85	AA	84	C	P-O5'-C5'	9.26	135.71	120.90
85	AA	227	A	O4'-C1'-N9	9.26	115.60	108.20
22	AO	139	ARG	NE-CZ-NH1	9.25	124.93	120.30
34	BA	1516	G	C5'-C4'-C3'	-9.25	101.20	116.00
37	BD	118	C	P-O5'-C5'	9.25	135.70	120.90
85	AA	763	U	C1'-O4'-C4'	-9.25	102.50	109.90
34	BA	159	U	C5'-C4'-C3'	9.25	130.80	116.00
34	BA	329	G	C8-N9-C1'	9.25	139.03	127.00
40	BG	72	G	N1-C6-O6	-9.25	114.35	119.90
39	BF	45	G	P-O3'-C3'	-9.25	108.60	119.70
77	Br	313	TYR	CB-CG-CD2	-9.25	115.45	121.00
85	AA	126	U	O4'-C1'-N1	9.25	115.60	108.20
34	BA	12	G	P-O5'-C5'	9.25	135.70	120.90
34	BA	110	C	O4'-C1'-N1	9.25	115.60	108.20
34	BA	115	U	C1'-O4'-C4'	-9.25	102.50	109.90
34	BA	124	G	P-O3'-C3'	-9.25	108.60	119.70
34	BA	585	G	P-O3'-C3'	-9.25	108.60	119.70
34	BA	1475	G	C5'-C4'-C3'	9.25	130.80	116.00
34	BA	1707	C	C6-N1-C1'	9.25	131.90	120.80
35	BB	1000	U	O4'-C1'-N1	9.25	115.60	108.20
85	AA	382	G	C4-N9-C1'	-9.25	114.48	126.50
85	AA	476	C	C1'-O4'-C4'	-9.25	102.50	109.90
35	BB	789	G	P-O5'-C5'	-9.24	106.11	120.90
85	AA	608	A	O4'-C1'-N9	9.24	115.60	108.20
34	BA	1019	C	P-O3'-C3'	-9.24	108.61	119.70
37	BD	66	G	N3-C2-N2	9.24	126.37	119.90
38	BE	32	U	P-O5'-C5'	-9.24	106.11	120.90
85	AA	768	C	C6-N1-C1'	9.24	131.89	120.80
35	BB	1368	A	C8-N9-C4	9.24	109.50	105.80
36	BC	156	A	N1-C6-N6	9.24	124.14	118.60
85	AA	166	C	C6-N1-C2	-9.24	116.60	120.30
34	BA	540	G	C4-N9-C1'	-9.24	114.49	126.50
34	BA	1014	A	N1-C6-N6	-9.24	113.06	118.60
85	AA	1527	G	P-O3'-C3'	-9.24	108.61	119.70
35	BB	968	C	O4'-C1'-N1	9.24	115.59	108.20
85	AA	610	C	O4'-C1'-N1	9.24	115.59	108.20
85	AA	99	U	O3'-P-O5'	-9.23	86.45	104.00
85	AA	332	A	P-O3'-C3'	9.23	130.78	119.70
34	BA	175	G	O4'-C1'-N9	9.23	115.59	108.20
85	AA	486	G	C5-C6-O6	-9.23	123.06	128.60
85	AA	650	G	C4-N9-C1'	-9.23	114.49	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	AE	98	ARG	NE-CZ-NH2	-9.23	115.68	120.30
41	BH	121	A	C2-N3-C4	-9.23	105.98	110.60
85	AA	466	A	C5-C6-N1	-9.23	113.08	117.70
85	AA	923	A	O4'-C1'-N9	9.23	115.58	108.20
85	AA	78	A	C5'-C4'-C3'	-9.23	101.24	116.00
85	AA	400	G	C5-C6-O6	-9.23	123.06	128.60
85	AA	1469	G	C2-N3-C4	9.23	116.51	111.90
85	AA	2066	C	O4'-C1'-N1	9.23	115.58	108.20
34	BA	1419	A	C5-C6-N6	-9.23	116.32	123.70
35	BB	38	C	C6-N1-C2	-9.23	116.61	120.30
35	BB	1113	C	C3'-C2'-C1'	-9.23	94.12	101.50
85	AA	1549	G	C5-C6-O6	-9.23	123.06	128.60
35	BB	854	G	C8-N9-C1'	9.22	138.99	127.00
38	BE	68	U	C5'-C4'-C3'	9.22	130.76	116.00
13	AE	113	TYR	CA-CB-CG	-9.22	95.88	113.40
35	BB	672	C	O4'-C1'-N1	9.22	115.58	108.20
71	Bl	141	ARG	NE-CZ-NH2	-9.22	115.69	120.30
85	AA	16	G	C8-N9-C4	9.22	110.09	106.40
85	AA	1923	A	O4'-C1'-N9	9.22	115.58	108.20
34	BA	116	G	P-O5'-C5'	-9.22	106.15	120.90
34	BA	517	A	C1'-O4'-C4'	-9.22	102.52	109.90
34	BA	547	C	O4'-C1'-N1	9.22	115.58	108.20
34	BA	1526	C	C3'-C2'-C1'	-9.22	94.12	101.50
35	BB	1079	G	P-O3'-C3'	-9.22	108.63	119.70
85	AA	2181	G	C4-N9-C1'	-9.22	114.51	126.50
34	BA	650	C	O4'-C1'-N1	9.22	115.58	108.20
36	BC	130	U	O4'-C1'-N1	9.22	115.58	108.20
38	BE	117	A	C4-C5-C6	-9.22	112.39	117.00
39	BF	65	U	C2-N1-C1'	-9.22	106.64	117.70
80	Bu	30	TYR	CB-CG-CD2	-9.22	115.47	121.00
85	AA	624	A	P-O3'-C3'	9.22	130.76	119.70
85	AA	1106	A	C3'-C2'-C1'	-9.22	94.12	101.50
34	BA	464	U	O4'-C1'-N1	9.21	115.57	108.20
85	AA	1469	G	C5-C6-O6	-9.22	123.07	128.60
34	BA	1539	A	O5'-P-OP1	-9.21	97.41	105.70
35	BB	59	U	C5'-C4'-C3'	-9.21	101.26	116.00
85	AA	87	C	C6-N1-C2	-9.21	116.61	120.30
34	BA	82	A	P-O3'-C3'	-9.21	108.65	119.70
34	BA	1787	U	C5'-C4'-C3'	9.21	130.74	116.00
41	BH	4	U	P-O3'-C3'	-9.21	108.65	119.70
85	AA	2047	U	C2-N3-C4	-9.21	121.47	127.00
34	BA	1648	G	P-O5'-C5'	-9.21	106.16	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	715	G	O4'-C1'-N9	9.21	115.57	108.20
38	BE	139	U	C2-N1-C1'	-9.21	106.65	117.70
85	AA	293	A	P-O3'-C3'	9.21	130.75	119.70
85	AA	1912	U	P-O3'-C3'	9.21	130.75	119.70
85	AA	2064	A	N1-C6-N6	-9.21	113.07	118.60
85	AA	2127	G	C8-N9-C4	9.21	110.08	106.40
34	BA	692	U	O3'-P-O5'	9.21	121.50	104.00
34	BA	612	U	C5-C4-O4	-9.21	120.38	125.90
35	BB	1459	U	P-O5'-C5'	-9.21	106.17	120.90
85	AA	489	C	P-O3'-C3'	-9.21	108.65	119.70
85	AA	761	G	O4'-C1'-N9	9.21	115.57	108.20
85	AA	1159	C	O4'-C1'-N1	9.21	115.57	108.20
85	AA	1797	U	N1-C2-N3	9.21	120.42	114.90
34	BA	103	G	P-O3'-C3'	-9.21	108.65	119.70
34	BA	1317	U	P-O3'-C3'	-9.21	108.65	119.70
34	BA	1614	G	N9-C4-C5	-9.20	101.72	105.40
34	BA	1631	U	C2-N3-C4	-9.20	121.48	127.00
36	BC	94	C	C3'-C2'-C1'	-9.20	94.14	101.50
37	BD	95	G	N1-C2-N2	-9.21	107.92	116.20
47	BN	105	ARG	NE-CZ-NH1	9.20	124.90	120.30
85	AA	47	A	O4'-C1'-N9	9.21	115.56	108.20
85	AA	710	A	O4'-C1'-N9	9.21	115.56	108.20
85	AA	578	U	P-O5'-C5'	-9.20	106.17	120.90
34	BA	399	G	C5-N7-C8	-9.20	99.70	104.30
35	BB	466	A	N1-C6-N6	-9.20	113.08	118.60
35	BB	633	C	N3-C2-O2	-9.20	115.46	121.90
35	BB	1194	A	P-O3'-C3'	-9.20	108.66	119.70
37	BD	104	C	C3'-C2'-C1'	-9.20	94.14	101.50
35	BB	993	A	N9-C4-C5	-9.20	102.12	105.80
35	BB	1474	A	C4'-C3'-C2'	-9.20	93.40	102.60
36	BC	85	U	P-O3'-C3'	-9.20	108.66	119.70
37	BD	95	G	N3-C2-N2	9.20	126.34	119.90
85	AA	1008	C	O4'-C1'-N1	9.20	115.56	108.20
37	BD	78	C	C5-C4-N4	9.20	126.64	120.20
34	BA	7	U	N3-C2-O2	-9.20	115.76	122.20
34	BA	189	G	C5'-C4'-O4'	9.20	120.14	109.10
34	BA	994	G	N1-C6-O6	9.20	125.42	119.90
35	BB	969	C	O4'-C1'-N1	9.20	115.56	108.20
36	BC	32	U	P-O5'-C5'	9.20	135.61	120.90
85	AA	309	G	C5-C6-O6	-9.20	123.08	128.60
85	AA	696	G	N1-C6-O6	9.20	125.42	119.90
85	AA	2075	C	C5'-C4'-C3'	-9.19	101.29	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	164	C	C1'-O4'-C4'	-9.19	102.55	109.90
34	BA	642	U	C5-C4-O4	9.19	131.41	125.90
41	BH	88	C	O4'-C1'-N1	9.19	115.55	108.20
34	BA	557	U	C5'-C4'-O4'	9.19	120.13	109.10
34	BA	1524	G	C4-C5-C6	-9.19	113.29	118.80
34	BA	1568	A	P-O3'-C3'	9.19	130.73	119.70
38	BE	25	U	C6-N1-C1'	9.19	134.07	121.20
60	Ba	119	TYR	CB-CG-CD2	-9.19	115.49	121.00
34	BA	1225	A	P-O3'-C3'	-9.19	108.68	119.70
34	BA	1502	G	N9-C1'-C2'	-9.19	101.89	112.00
85	AA	368	C	C3'-C2'-C1'	-9.19	94.15	101.50
35	BB	1287	U	C5'-C4'-C3'	-9.18	101.31	116.00
85	AA	777	U	O4'-C1'-N1	9.18	115.55	108.20
34	BA	641	U	C5-C4-O4	9.18	131.41	125.90
15	AG	73	ARG	NE-CZ-NH1	9.18	124.89	120.30
38	BE	149	A	C5-N7-C8	-9.18	99.31	103.90
40	BG	128	U	C3'-C2'-C1'	-9.18	94.16	101.50
41	BH	45	G	C8-N9-C4	9.18	110.07	106.40
85	AA	869	A	C5'-C4'-C3'	-9.18	101.31	116.00
85	AA	923	A	C1'-O4'-C4'	-9.18	102.56	109.90
34	BA	241	U	P-O3'-C3'	-9.18	108.69	119.70
85	AA	2210	C	O4'-C1'-N1	9.18	115.54	108.20
34	BA	872	U	O4'-C1'-N1	9.18	115.54	108.20
34	BA	115	U	O4'-C1'-C2'	-9.17	96.63	105.80
41	BH	119	U	C6-N1-C1'	9.17	134.04	121.20
85	AA	639	C	C2-N1-C1'	9.17	128.89	118.80
85	AA	1190	G	C4-N9-C1'	-9.17	114.58	126.50
85	AA	1820	G	C5-C6-O6	-9.17	123.10	128.60
34	BA	3	G	C3'-C2'-C1'	-9.17	94.17	101.50
40	BG	171	A	O5'-C5'-C4'	-9.17	94.28	111.70
35	BB	4	C	C4'-C3'-C2'	-9.17	93.43	102.60
34	BA	11	U	O4'-C1'-N1	9.17	115.53	108.20
34	BA	1138	C	C2-N1-C1'	-9.17	108.72	118.80
35	BB	983	C	C1'-O4'-C4'	-9.17	102.57	109.90
35	BB	1326	U	P-O5'-C5'	9.17	135.56	120.90
35	BB	1503	U	O4'-C1'-N1	9.17	115.53	108.20
85	AA	1960	C	C2-N1-C1'	9.17	128.88	118.80
35	BB	1303	A	C5'-C4'-C3'	-9.16	101.34	116.00
35	BB	1361	A	C5'-C4'-C3'	-9.16	101.34	116.00
85	AA	987	C	C6-N1-C2	-9.16	116.63	120.30
86	AB	71	G	C5-C6-O6	-9.16	123.10	128.60
35	BB	1475	U	P-O5'-C5'	-9.16	106.25	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1535	G	C5'-C4'-C3'	-9.16	101.35	116.00
35	BB	90	G	C4-N9-C1'	-9.16	114.60	126.50
38	BE	11	A	P-O5'-C5'	-9.16	106.25	120.90
41	BH	66	G	C8-N9-C1'	9.16	138.90	127.00
85	AA	282	C	C5'-C4'-C3'	-9.16	101.35	116.00
85	AA	1128	G	C8-N9-C1'	9.16	138.90	127.00
34	BA	228	A	O4'-C1'-N9	9.15	115.52	108.20
34	BA	588	C	C5'-C4'-C3'	-9.15	101.35	116.00
35	BB	80	C	C6-N1-C2	-9.15	116.64	120.30
35	BB	706	G	C6-N1-C2	-9.15	119.61	125.10
35	BB	1203	C	C5'-C4'-O4'	9.15	120.08	109.10
35	BB	1511	U	C4'-C3'-C2'	-9.15	93.44	102.60
37	BD	80	G	C4-N9-C1'	-9.15	114.60	126.50
85	AA	519	A	P-O3'-C3'	9.15	130.69	119.70
85	AA	1829	C	C6-N1-C2	-9.15	116.64	120.30
85	AA	2051	G	O4'-C1'-N9	9.15	115.52	108.20
85	AA	2056	C	O4'-C1'-N1	9.15	115.52	108.20
34	BA	590	U	P-O3'-C3'	-9.15	108.72	119.70
34	BA	1447	C	O4'-C1'-N1	9.15	115.52	108.20
35	BB	87	G	N1-C6-O6	9.15	125.39	119.90
85	AA	361	U	O4'-C1'-N1	9.15	115.52	108.20
35	BB	789	G	O4'-C1'-N9	9.15	115.52	108.20
69	Bj	9	ARG	NE-CZ-NH1	9.15	124.88	120.30
34	BA	838	U	O4'-C1'-N1	9.15	115.52	108.20
34	BA	1609	U	N3-C2-O2	-9.15	115.80	122.20
85	AA	424	A	O4'-C1'-N9	9.15	115.52	108.20
85	AA	1958	C	C6-N1-C2	-9.15	116.64	120.30
35	BB	831	C	N1-C1'-C2'	-9.14	101.94	112.00
34	BA	678	C	O4'-C1'-N1	9.14	115.51	108.20
38	BE	26	G	N1-C6-O6	9.14	125.39	119.90
41	BH	130	G	N1-C6-O6	-9.14	114.41	119.90
85	AA	573	U	O4'-C1'-N1	9.14	115.52	108.20
85	AA	1904	C	C2-N3-C4	9.14	124.47	119.90
18	AJ	97	ARG	NE-CZ-NH1	9.14	124.87	120.30
35	BB	620	G	C4-N9-C1'	-9.14	114.62	126.50
85	AA	2199	G	O4'-C1'-N9	9.14	115.51	108.20
85	AA	201	U	P-O3'-C3'	-9.14	108.73	119.70
34	BA	555	C	O4'-C1'-N1	9.14	115.51	108.20
34	BA	1329	U	C3'-C2'-C1'	-9.14	94.19	101.50
35	BB	1356	G	N1-C2-N2	-9.14	107.98	116.20
34	BA	1168	C	P-O3'-C3'	9.13	130.66	119.70
34	BA	1540	C	C2-N1-C1'	9.14	128.85	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1515	C	C2-N1-C1'	-9.13	108.75	118.80
38	BE	130	G	C3'-C2'-C1'	-9.13	94.19	101.50
85	AA	117	C	C1'-O4'-C4'	-9.13	102.59	109.90
85	AA	363	A	C3'-C2'-C1'	-9.13	94.19	101.50
34	BA	1225	A	O4'-C1'-N9	9.13	115.51	108.20
35	BB	607	G	C4-N9-C1'	-9.13	114.63	126.50
41	BH	123	G	N1-C6-O6	9.13	125.38	119.90
85	AA	386	G	P-O3'-C3'	-9.13	108.74	119.70
34	BA	778	U	P-O5'-C5'	-9.13	106.29	120.90
35	BB	1035	C	C5'-C4'-C3'	-9.13	101.39	116.00
77	Br	158	ARG	NE-CZ-NH1	9.13	124.87	120.30
85	AA	303	A	O4'-C1'-N9	9.13	115.50	108.20
85	AA	501	A	C8-N9-C4	-9.13	102.15	105.80
85	AA	1755	U	C5'-C4'-C3'	9.13	130.61	116.00
40	BG	169	A	O4'-C1'-C2'	-9.13	96.67	105.80
13	AE	97	ARG	NE-CZ-NH1	9.13	124.86	120.30
35	BB	726	A	C5'-C4'-C3'	-9.13	101.40	116.00
39	BF	4	A	P-O3'-C3'	-9.13	108.75	119.70
48	BO	100	ARG	NE-CZ-NH1	9.13	124.86	120.30
34	BA	766	A	O4'-C1'-N9	9.12	115.50	108.20
34	BA	1485	U	N3-C4-O4	-9.12	113.01	119.40
35	BB	579	A	N1-C6-N6	9.12	124.08	118.60
85	AA	374	C	O5'-C5'-C4'	-9.12	94.36	111.70
85	AA	975	G	P-O5'-C5'	-9.12	106.30	120.90
34	BA	1597	G	C6-N1-C2	-9.12	119.63	125.10
34	BA	660	C	C6-N1-C2	-9.12	116.65	120.30
34	BA	851	C	N3-C2-O2	-9.12	115.52	121.90
35	BB	145	G	C4-N9-C1'	-9.12	114.64	126.50
37	BD	98	G	C5'-C4'-C3'	-9.12	101.41	116.00
35	BB	1484	A	O4'-C1'-N9	9.12	115.50	108.20
34	BA	89	G	C6-N1-C2	-9.12	119.63	125.10
34	BA	437	G	C4-N9-C1'	9.12	138.35	126.50
37	BD	71	G	C1'-O4'-C4'	-9.12	102.61	109.90
34	BA	1189	A	P-O5'-C5'	9.11	135.48	120.90
85	AA	1826	U	C5'-C4'-C3'	-9.11	101.42	116.00
34	BA	1277	G	C4-N9-C1'	-9.11	114.65	126.50
34	BA	403	A	O4'-C1'-N9	9.11	115.49	108.20
34	BA	525	A	O5'-P-OP2	-9.11	97.50	105.70
34	BA	1240	G	C4'-C3'-C2'	9.11	111.71	102.60
34	BA	1299	G	C6-N1-C2	-9.11	119.63	125.10
35	BB	1126	A	O4'-C1'-N9	9.11	115.49	108.20
37	BD	49	A	C5-C6-N6	9.11	130.99	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	815	G	N3-C4-C5	-9.11	124.04	128.60
85	AA	938	A	N1-C6-N6	9.11	124.07	118.60
34	BA	227	C	C5'-C4'-C3'	-9.11	101.43	116.00
35	BB	12	G	C4'-C3'-C2'	9.11	111.71	102.60
85	AA	70	U	C5'-C4'-C3'	-9.11	101.42	116.00
85	AA	2186	U	C5'-C4'-C3'	-9.11	101.42	116.00
85	AA	859	G	C3'-C2'-C1'	-9.11	94.21	101.50
34	BA	878	G	C4'-C3'-C2'	9.11	111.70	102.60
34	BA	1088	G	C8-N9-C4	9.11	110.04	106.40
35	BB	3	C	N3-C4-N4	9.11	124.37	118.00
41	BH	101	A	O4'-C1'-N9	9.11	115.48	108.20
69	Bj	9	ARG	NE-CZ-NH2	-9.11	115.75	120.30
40	BG	167	C	P-O3'-C3'	-9.10	108.78	119.70
34	BA	781	U	P-O3'-C3'	-9.10	108.78	119.70
34	BA	1300	G	C5-C6-O6	-9.10	123.14	128.60
35	BB	483	C	O4'-C1'-N1	9.10	115.48	108.20
35	BB	622	G	C5'-C4'-C3'	9.10	130.57	116.00
38	BE	90	G	C8-N9-C1'	9.10	138.83	127.00
40	BG	34	A	C8-N9-C4	9.10	109.44	105.80
85	AA	466	A	C6-N1-C2	9.10	124.06	118.60
35	BB	709	G	O4'-C1'-C2'	9.10	115.79	107.60
35	BB	1441	C	C3'-C2'-C1'	-9.10	94.22	101.50
85	AA	115	U	P-O3'-C3'	9.10	130.62	119.70
38	BE	157	C	O4'-C1'-N1	9.10	115.48	108.20
85	AA	788	G	O3'-P-O5'	-9.10	86.71	104.00
85	AA	1885	A	O4'-C1'-N9	9.10	115.48	108.20
34	BA	226	A	P-O3'-C3'	9.10	130.61	119.70
34	BA	1247	G	C5'-C4'-C3'	-9.10	101.45	116.00
35	BB	750	G	N1-C6-O6	9.10	125.36	119.90
38	BE	25	U	C5-C4-O4	-9.10	120.44	125.90
34	BA	316	G	P-O3'-C3'	9.09	130.61	119.70
34	BA	644	C	O4'-C1'-N1	9.09	115.47	108.20
34	BA	813	C	C6-N1-C2	-9.09	116.66	120.30
35	BB	1222	A	P-O3'-C3'	-9.09	108.79	119.70
69	Bj	114	VAL	O-C-N	-9.09	108.15	122.70
85	AA	1487	G	C4-N9-C1'	-9.09	114.68	126.50
34	BA	966	G	P-O3'-C3'	9.09	130.61	119.70
85	AA	330	C	C6-N1-C1'	-9.09	109.89	120.80
85	AA	1894	G	C5-C6-N1	9.09	116.05	111.50
85	AA	189	G	C8-N9-C1'	9.09	138.81	127.00
85	AA	374	C	C1'-O4'-C4'	-9.09	102.63	109.90
85	AA	1292	A	P-O5'-C5'	-9.09	106.36	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	641	C	O4'-C1'-N1	9.08	115.47	108.20
85	AA	699	U	C3'-C2'-C1'	-9.08	94.23	101.50
69	Bj	77	ARG	NE-CZ-NH1	9.08	124.84	120.30
85	AA	1786	G	N1-C6-O6	9.08	125.35	119.90
34	BA	1202	G	C4'-C3'-C2'	-9.08	93.52	102.60
40	BG	176	G	C6-N1-C2	-9.08	119.65	125.10
34	BA	230	A	C5'-C4'-O4'	-9.08	98.21	109.10
85	AA	774	C	C6-N1-C2	-9.08	116.67	120.30
34	BA	1616	A	O5'-P-OP2	-9.08	97.53	105.70
34	BA	1724	G	C3'-C2'-C1'	-9.08	94.24	101.50
85	AA	99	U	C5-C4-O4	-9.08	120.45	125.90
85	AA	541	A	C1'-O4'-C4'	-9.08	102.64	109.90
85	AA	1575	G	C4-N9-C1'	-9.07	114.70	126.50
85	AA	901	C	C2-N1-C1'	9.07	128.78	118.80
35	BB	1176	G	C1'-O4'-C4'	-9.07	102.64	109.90
34	BA	91	C	P-O5'-C5'	9.07	135.41	120.90
85	AA	2215	C	C5'-C4'-O4'	-9.07	98.22	109.10
85	AA	378	A	C4-C5-C6	-9.07	112.47	117.00
34	BA	10	G	C8-N9-C1'	9.07	138.79	127.00
38	BE	117	A	C5'-C4'-C3'	-9.07	101.49	116.00
40	BG	81	G	C8-N9-C1'	9.07	138.79	127.00
34	BA	469	C	C5'-C4'-C3'	-9.07	101.49	116.00
85	AA	143	U	C2-N3-C4	-9.06	121.56	127.00
35	BB	83	G	O4'-C1'-N9	9.06	115.45	108.20
35	BB	1232	A	C3'-C2'-C1'	-9.06	94.25	101.50
85	AA	930	G	P-O3'-C3'	9.06	130.58	119.70
34	BA	90	G	O5'-P-OP1	-9.06	97.55	105.70
34	BA	114	U	O4'-C1'-N1	9.06	115.45	108.20
34	BA	1539	A	N9-C1'-C2'	-9.06	102.03	112.00
37	BD	36	C	O4'-C1'-N1	9.06	115.45	108.20
41	BH	12	U	P-O3'-C3'	-9.06	108.83	119.70
85	AA	252	G	C5'-C4'-C3'	9.06	130.50	116.00
85	AA	1035	C	C5'-C4'-C3'	-9.06	101.50	116.00
85	AA	1289	U	C2-N1-C1'	-9.06	106.83	117.70
85	AA	1660	U	C4'-C3'-C2'	9.06	111.66	102.60
86	AB	7	A	P-O5'-C5'	9.06	135.40	120.90
34	BA	515	U	C4'-C3'-C2'	9.06	111.66	102.60
34	BA	869	C	OP1-P-OP2	9.06	133.19	119.60
85	AA	434	U	P-O3'-C3'	9.06	130.57	119.70
34	BA	658	C	P-O3'-C3'	9.06	130.57	119.70
34	BA	971	G	C6-N1-C2	-9.05	119.67	125.10
35	BB	91	G	N1-C6-O6	9.06	125.33	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1419	A	N1-C6-N6	9.05	124.03	118.60
34	BA	1518	A	C2-N3-C4	-9.05	106.07	110.60
36	BC	89	U	O4'-C1'-N1	9.05	115.44	108.20
37	BD	25	G	N9-C1'-C2'	-9.05	102.04	112.00
38	BE	203	C	N3-C4-N4	9.05	124.34	118.00
85	AA	930	G	N1-C6-O6	9.05	125.33	119.90
85	AA	1278	C	P-O5'-C5'	-9.05	106.41	120.90
85	AA	1877	G	C8-N9-C4	-9.05	102.78	106.40
34	BA	371	U	P-O3'-C3'	-9.05	108.84	119.70
40	BG	48	U	O4'-C1'-N1	9.05	115.44	108.20
40	BG	59	G	N1-C6-O6	9.05	125.33	119.90
34	BA	163	G	O4'-C1'-N9	9.05	115.44	108.20
34	BA	1658	G	O5'-P-OP2	-9.05	97.56	105.70
37	BD	10	C	P-O3'-C3'	9.05	130.56	119.70
85	AA	1096	G	C8-N9-C4	-9.05	102.78	106.40
34	BA	1616	A	P-O5'-C5'	-9.05	106.43	120.90
38	BE	32	U	C2'-C3'-O3'	9.04	129.40	109.50
40	BG	111	C	C6-N1-C2	-9.04	116.68	120.30
82	Bw	151	TYR	CB-CG-CD2	-9.05	115.57	121.00
85	AA	1236	G	O4'-C1'-N9	9.05	115.44	108.20
85	AA	2167	A	O4'-C1'-N9	9.04	115.44	108.20
34	BA	155	U	O4'-C4'-C3'	-9.04	94.96	104.00
34	BA	1170	A	N1-C6-N6	-9.04	113.17	118.60
34	BA	1192	A	C5'-C4'-C3'	-9.04	101.53	116.00
34	BA	1194	G	O4'-C1'-N9	9.04	115.43	108.20
34	BA	1724	G	C4-C5-C6	-9.04	113.38	118.80
37	BD	97	U	C2-N3-C4	-9.04	121.58	127.00
38	BE	117	A	O5'-C5'-C4'	-9.04	94.52	111.70
85	AA	201	U	P-O5'-C5'	9.04	135.37	120.90
85	AA	986	U	C2-N1-C1'	-9.04	106.85	117.70
34	BA	1365	U	P-O3'-C3'	9.04	130.55	119.70
36	BC	134	G	O4'-C1'-N9	9.04	115.43	108.20
85	AA	131	C	O4'-C1'-N1	9.04	115.43	108.20
34	BA	1322	A	C3'-C2'-C1'	-9.04	94.27	101.50
34	BA	1781	A	P-O3'-C3'	-9.04	108.85	119.70
35	BB	82	G	C4-N9-C1'	-9.04	114.75	126.50
37	BD	36	C	C3'-C2'-C1'	-9.04	94.27	101.50
85	AA	109	G	N1-C6-O6	-9.04	114.48	119.90
85	AA	1873	U	C2-N3-C4	-9.04	121.58	127.00
85	AA	233	C	O4'-C1'-N1	9.04	115.43	108.20
85	AA	905	C	O4'-C1'-N1	9.04	115.43	108.20
35	BB	1375	G	C5-C6-O6	9.04	134.02	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1106	A	O3'-P-O5'	-9.04	86.83	104.00
40	BG	95	U	C2-N1-C1'	-9.03	106.86	117.70
41	BH	53	C	O4'-C1'-N1	9.04	115.43	108.20
50	BQ	164	ARG	NE-CZ-NH1	9.03	124.82	120.30
85	AA	1373	U	C2-N3-C4	-9.04	121.58	127.00
85	AA	1520	A	N1-C6-N6	9.04	124.02	118.60
34	BA	739	A	C8-N9-C4	-9.03	102.19	105.80
34	BA	875	G	P-O3'-C3'	9.03	130.54	119.70
35	BB	1491	G	C4-N9-C1'	-9.03	114.76	126.50
36	BC	18	G	C2-N3-C4	-9.03	107.38	111.90
39	BF	32	G	C4'-C3'-C2'	9.03	111.63	102.60
41	BH	29	G	N9-C1'-C2'	-9.03	102.06	112.00
41	BH	127	A	N1-C6-N6	-9.03	113.18	118.60
85	AA	240	A	P-O3'-C3'	-9.03	108.86	119.70
34	BA	437	G	C8-N9-C1'	-9.03	115.26	127.00
35	BB	382	U	C6-N1-C2	-9.03	115.58	121.00
85	AA	473	C	C1'-O4'-C4'	-9.03	102.68	109.90
34	BA	943	G	C8-N9-C1'	9.03	138.74	127.00
34	BA	1705	C	O3'-P-O5'	9.03	121.15	104.00
35	BB	1132	A	N1-C6-N6	-9.03	113.18	118.60
35	BB	1334	C	C4'-C3'-C2'	9.03	111.63	102.60
35	BB	1546	C	C6-N1-C2	-9.03	116.69	120.30
41	BH	77	G	N1-C6-O6	9.03	125.32	119.90
85	AA	245	A	P-O3'-C3'	9.03	130.53	119.70
85	AA	2089	G	C5'-C4'-C3'	9.03	130.44	116.00
85	AA	1799	C	N3-C4-N4	9.03	124.32	118.00
34	BA	27	G	C5'-C4'-C3'	-9.02	101.56	116.00
34	BA	678	C	C4'-C3'-C2'	-9.02	93.58	102.60
38	BE	69	C	C6-N1-C2	-9.02	116.69	120.30
85	AA	2095	U	C5'-C4'-C3'	9.02	130.44	116.00
34	BA	431	A	C5-C6-N6	-9.02	116.48	123.70
34	BA	1233	U	C2-N3-C4	-9.02	121.59	127.00
85	AA	729	U	O4'-C1'-N1	9.02	115.42	108.20
37	BD	63	C	P-O3'-C3'	-9.02	108.88	119.70
85	AA	1431	U	O4'-C1'-N1	9.02	115.42	108.20
34	BA	221	G	O4'-C1'-N9	9.02	115.42	108.20
35	BB	417	A	N1-C6-N6	9.02	124.01	118.60
83	Bx	46	ASP	C-N-CA	9.02	144.25	121.70
34	BA	547	C	OP1-P-OP2	-9.02	106.08	119.60
34	BA	744	G	C1'-O4'-C4'	-9.02	102.69	109.90
40	BG	33	G	N9-C1'-C2'	-9.02	102.08	112.00
85	AA	551	C	C4'-C3'-C2'	-9.02	93.58	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1464	C	C6-N1-C2	-9.02	116.69	120.30
52	BS	165	ARG	NE-CZ-NH1	9.02	124.81	120.30
34	BA	1262	A	C8-N9-C4	9.01	109.41	105.80
34	BA	749	G	C5-C6-O6	-9.01	123.19	128.60
35	BB	995	C	O5'-C5'-C4'	9.01	128.83	111.70
38	BE	132	U	P-O3'-C3'	-9.01	108.89	119.70
85	AA	383	C	P-O5'-C5'	9.01	135.32	120.90
85	AA	114	C	C6-N1-C2	-9.01	116.69	120.30
86	AB	3	C	C2-N1-C1'	9.01	128.71	118.80
35	BB	714	U	C6-N1-C2	-9.01	115.59	121.00
35	BB	840	C	P-O5'-C5'	9.01	135.32	120.90
85	AA	785	C	P-O5'-C5'	9.01	135.31	120.90
85	AA	984	A	C3'-C2'-C1'	-9.01	94.29	101.50
85	AA	1098	C	C1'-O4'-C4'	-9.01	102.69	109.90
34	BA	174	A	O3'-P-O5'	-9.01	86.89	104.00
35	BB	1474	A	C5'-C4'-O4'	-9.01	98.29	109.10
85	AA	716	G	O4'-C1'-N9	9.01	115.41	108.20
85	AA	765	U	O5'-P-OP1	-9.01	97.59	105.70
85	AA	1589	G	C8-N9-C1'	9.01	138.71	127.00
34	BA	514	U	O4'-C1'-N1	9.01	115.40	108.20
34	BA	745	A	C5-C6-N6	9.01	130.90	123.70
34	BA	1720	U	O4'-C1'-N1	9.01	115.40	108.20
85	AA	2172	A	C8-N9-C4	-9.01	102.20	105.80
34	BA	247	U	C6-N1-C2	-9.00	115.60	121.00
34	BA	681	G	O4'-C4'-C3'	9.00	113.30	106.10
85	AA	822	U	C2-N3-C4	-9.00	121.60	127.00
38	BE	186	C	O4'-C1'-N1	9.00	115.40	108.20
34	BA	814	C	O4'-C1'-N1	9.00	115.40	108.20
35	BB	362	A	C5-C6-N6	-9.00	116.50	123.70
85	AA	1191	G	O5'-P-OP2	-9.00	97.60	105.70
85	AA	2049	U	P-O3'-C3'	9.00	130.50	119.70
34	BA	212	A	P-O5'-C5'	9.00	135.29	120.90
34	BA	1223	C	O4'-C1'-N1	9.00	115.40	108.20
37	BD	75	G	C4-N9-C1'	-9.00	114.80	126.50
38	BE	21	C	O4'-C1'-N1	8.99	115.40	108.20
34	BA	1087	A	C8-N9-C4	8.99	109.40	105.80
35	BB	111	C	O4'-C1'-N1	8.99	115.39	108.20
40	BG	66	C	C4'-C3'-C2'	8.99	111.59	102.60
85	AA	1523	G	C5-C6-O6	-8.99	123.20	128.60
35	BB	1421	C	N3-C2-O2	-8.99	115.61	121.90
85	AA	25	C	O5'-P-OP2	-8.99	97.61	105.70
40	BG	102	G	N3-C4-C5	-8.99	124.11	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	559	C	P-O5'-C5'	8.99	135.28	120.90
35	BB	28	G	P-O5'-C5'	8.99	135.28	120.90
85	AA	2164	G	C5-C6-O6	-8.99	123.21	128.60
34	BA	605	G	N9-C4-C5	8.99	109.00	105.40
34	BA	1491	U	O5'-C5'-C4'	8.99	128.77	111.70
34	BA	1496	G	C1'-O4'-C4'	-8.99	102.71	109.90
85	AA	390	U	O4'-C1'-N1	8.99	115.39	108.20
85	AA	479	C	O4'-C1'-N1	8.99	115.39	108.20
85	AA	575	G	O4'-C1'-C2'	8.99	115.69	107.60
85	AA	1301	C	O4'-C1'-N1	8.99	115.39	108.20
85	AA	1441	G	C5'-C4'-C3'	-8.99	101.62	116.00
34	BA	1442	A	N3-C4-C5	-8.98	120.51	126.80
35	BB	845	C	O4'-C1'-N1	8.98	115.39	108.20
35	BB	1253	U	C2-N3-C4	-8.98	121.61	127.00
67	Bh	167	TYR	CB-CG-CD2	-8.98	115.61	121.00
5	A4	170	ARG	NE-CZ-NH1	8.98	124.79	120.30
34	BA	842	U	C5'-C4'-C3'	8.98	130.37	116.00
35	BB	850	U	C5'-C4'-C3'	8.98	130.37	116.00
85	AA	2084	U	C5'-C4'-C3'	-8.98	101.63	116.00
34	BA	213	A	C5'-C4'-C3'	8.98	130.37	116.00
34	BA	1739	G	C8-N9-C1'	8.98	138.67	127.00
35	BB	415	A	C5'-C4'-C3'	-8.98	101.63	116.00
35	BB	1506	C	O4'-C1'-N1	8.98	115.38	108.20
86	AB	19	G	N3-C2-N2	-8.98	113.61	119.90
34	BA	1223	C	N1-C2-O2	8.98	124.29	118.90
35	BB	1416	A	N1-C6-N6	-8.98	113.21	118.60
41	BH	120	C	C5'-C4'-C3'	8.98	130.36	116.00
62	Bc	70	ASN	N-CA-C	-8.97	86.77	111.00
85	AA	688	C	C5'-C4'-C3'	-8.97	101.64	116.00
34	BA	102	G	P-O3'-C3'	-8.97	108.93	119.70
34	BA	950	C	C6-N1-C2	-8.97	116.71	120.30
36	BC	5	U	C5'-C4'-C3'	-8.97	101.64	116.00
34	BA	1466	U	P-O3'-C3'	-8.97	108.94	119.70
38	BE	204	U	C3'-C2'-C1'	-8.97	94.32	101.50
66	Bg	49	ARG	NE-CZ-NH1	8.97	124.78	120.30
85	AA	875	C	O4'-C1'-N1	8.97	115.38	108.20
85	AA	1731	G	C5'-C4'-C3'	-8.97	101.65	116.00
34	BA	1011	G	C4-N9-C1'	-8.97	114.84	126.50
34	BA	1500	G	C5-C6-N1	8.97	115.98	111.50
40	BG	180	C	C5'-C4'-C3'	-8.97	101.65	116.00
34	BA	1525	G	O4'-C1'-N9	8.96	115.37	108.20
38	BE	201	A	C8-N9-C4	8.97	109.39	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	139	G	P-O5'-C5'	-8.96	106.56	120.90
36	BC	33	U	C5'-C4'-O4'	8.96	119.86	109.10
85	AA	575	G	C5-C6-O6	-8.96	123.22	128.60
34	BA	890	G	N3-C2-N2	8.96	126.17	119.90
35	BB	1507	U	O5'-P-OP2	-8.96	97.63	105.70
38	BE	198	A	C5-C6-N6	-8.96	116.53	123.70
85	AA	10	G	C5'-C4'-C3'	-8.96	101.66	116.00
7	A6	157	PHE	CB-CG-CD1	-8.96	114.53	120.80
85	AA	211	C	P-O3'-C3'	8.96	130.46	119.70
85	AA	2183	U	C5'-C4'-C3'	-8.96	101.66	116.00
38	BE	139	U	C1'-O4'-C4'	-8.96	102.73	109.90
53	BT	74	ARG	NE-CZ-NH2	8.96	124.78	120.30
34	BA	1817	G	C2-N3-C4	-8.96	107.42	111.90
61	Bb	4	ARG	NE-CZ-NH1	8.96	124.78	120.30
85	AA	1492	U	C2-N3-C4	-8.96	121.63	127.00
34	BA	386	A	P-O5'-C5'	8.95	135.23	120.90
35	BB	1187	G	C8-N9-C4	-8.95	102.82	106.40
35	BB	1293	C	P-O3'-C3'	-8.96	108.95	119.70
35	BB	1491	G	C8-N9-C1'	8.96	138.64	127.00
85	AA	1499	G	C3'-C2'-C1'	-8.96	94.34	101.50
85	AA	1599	G	C5-C6-O6	-8.96	123.23	128.60
85	AA	2123	U	C2-N1-C1'	-8.96	106.95	117.70
34	BA	121	A	C3'-C2'-C1'	-8.95	94.34	101.50
34	BA	538	G	N3-C2-N2	8.95	126.17	119.90
34	BA	1828	A	O4'-C1'-N9	8.95	115.36	108.20
38	BE	14	C	O4'-C1'-N1	8.95	115.36	108.20
86	AB	16	U	C5'-C4'-C3'	8.95	130.32	116.00
35	BB	380	G	C4-N9-C1'	-8.95	114.86	126.50
41	BH	123	G	C8-N9-C4	8.95	109.98	106.40
44	BK	154	ARG	NE-CZ-NH1	8.95	124.78	120.30
85	AA	516	G	C5-C6-O6	-8.95	123.23	128.60
34	BA	1519	G	C5-C6-O6	8.95	133.97	128.60
85	AA	736	U	O4'-C1'-N1	8.95	115.36	108.20
35	BB	807	U	P-O3'-C3'	-8.95	108.96	119.70
85	AA	179	G	C6-N1-C2	-8.95	119.73	125.10
36	BC	123	G	O3'-P-O5'	8.94	120.99	104.00
34	BA	229	C	C6-N1-C2	-8.94	116.72	120.30
34	BA	238	C	P-O5'-C5'	8.94	135.21	120.90
85	AA	1786	G	C5-C6-O6	-8.94	123.23	128.60
35	BB	1518	U	P-O3'-C3'	8.94	130.43	119.70
37	BD	91	U	O3'-P-O5'	-8.94	87.01	104.00
85	AA	613	G	C5-C6-O6	-8.94	123.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1100	U	O4'-C1'-N1	8.94	115.35	108.20
37	BD	51	G	C5'-C4'-C3'	-8.94	101.70	116.00
40	BG	110	U	C5'-C4'-C3'	8.94	130.30	116.00
35	BB	1546	C	O4'-C1'-N1	8.94	115.35	108.20
38	BE	8	G	N3-C4-C5	-8.94	124.13	128.60
85	AA	383	C	P-O3'-C3'	-8.94	108.97	119.70
85	AA	822	U	C2-N1-C1'	-8.94	106.97	117.70
35	BB	660	G	C5-C6-O6	-8.94	123.24	128.60
35	BB	963	G	C4-N9-C1'	-8.94	114.88	126.50
34	BA	283	U	O4'-C1'-N1	8.94	115.35	108.20
34	BA	820	C	P-O3'-C3'	-8.94	108.98	119.70
38	BE	102	U	C2-N1-C1'	8.94	128.42	117.70
52	BS	120	TYR	CB-CG-CD2	-8.94	115.64	121.00
52	BS	151	PHE	CB-CG-CD2	-8.94	114.55	120.80
85	AA	687	G	P-O3'-C3'	8.94	130.42	119.70
85	AA	1125	G	N9-C4-C5	-8.94	101.83	105.40
85	AA	2168	C	C5'-C4'-C3'	-8.94	101.70	116.00
34	BA	1735	G	C4-C5-C6	-8.93	113.44	118.80
35	BB	878	G	C1'-O4'-C4'	8.93	117.05	109.90
40	BG	7	U	P-O3'-C3'	-8.93	108.98	119.70
85	AA	165	C	O4'-C1'-N1	8.93	115.35	108.20
85	AA	310	U	N3-C2-O2	-8.93	115.95	122.20
85	AA	991	G	N3-C2-N2	-8.93	113.65	119.90
37	BD	78	C	N3-C4-N4	-8.93	111.75	118.00
38	BE	20	C	C6-N1-C1'	-8.93	110.08	120.80
85	AA	824	C	O4'-C1'-N1	8.93	115.34	108.20
34	BA	1697	U	C5-C6-N1	8.93	127.16	122.70
35	BB	1079	G	C8-N9-C1'	8.93	138.61	127.00
35	BB	1489	A	C1'-O4'-C4'	-8.93	102.76	109.90
85	AA	887	A	C1'-O4'-C4'	-8.93	102.75	109.90
85	AA	262	G	C5'-C4'-C3'	8.93	130.29	116.00
85	AA	1595	G	C5'-C4'-C3'	-8.93	101.71	116.00
85	AA	773	G	C5'-C4'-C3'	-8.93	101.72	116.00
85	AA	779	G	P-O3'-C3'	-8.93	108.99	119.70
35	BB	1205	A	N1-C6-N6	8.93	123.96	118.60
39	BF	8	C	O4'-C1'-N1	8.93	115.34	108.20
85	AA	1468	G	C5'-C4'-O4'	-8.93	98.39	109.10
85	AA	2036	A	P-O5'-C5'	8.93	135.18	120.90
34	BA	926	A	O5'-C5'-C4'	-8.93	94.74	111.70
85	AA	1813	C	O4'-C1'-N1	8.93	115.34	108.20
37	BD	63	C	O4'-C1'-N1	8.92	115.34	108.20
38	BE	89	G	C4-N9-C1'	-8.92	114.90	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1109	G	P-O3'-C3'	-8.92	108.99	119.70
34	BA	821	G	O4'-C1'-N9	8.92	115.34	108.20
85	AA	1124	G	C8-N9-C1'	8.92	138.60	127.00
85	AA	2227	A	C8-N9-C4	8.92	109.37	105.80
35	BB	1354	C	O4'-C1'-N1	8.92	115.33	108.20
35	BB	1544	A	C8-N9-C1'	8.92	143.76	127.70
85	AA	552	C	C6-N1-C2	-8.92	116.73	120.30
85	AA	1731	G	C4'-C3'-C2'	-8.92	93.68	102.60
34	BA	380	A	N1-C6-N6	-8.92	113.25	118.60
35	BB	1202	G	N3-C4-N9	8.92	131.35	126.00
85	AA	210	G	P-O3'-C3'	-8.92	109.00	119.70
38	BE	41	C	C5'-C4'-C3'	8.92	130.27	116.00
34	BA	406	G	C5-C6-O6	-8.91	123.25	128.60
34	BA	942	G	C5'-C4'-C3'	-8.91	101.74	116.00
54	BU	84	THR	N-CA-CB	8.91	127.24	110.30
85	AA	2210	C	C6-N1-C2	-8.91	116.73	120.30
35	BB	542	A	N1-C6-N6	8.91	123.95	118.60
41	BH	114	G	N1-C6-O6	8.91	125.25	119.90
85	AA	646	C	O4'-C1'-N1	8.91	115.33	108.20
85	AA	815	G	N3-C4-N9	8.91	131.35	126.00
85	AA	1058	G	N1-C6-O6	8.91	125.25	119.90
2	A1	95	ARG	NE-CZ-NH1	8.91	124.76	120.30
34	BA	747	G	C8-N9-C4	-8.91	102.84	106.40
36	BC	8	C	P-O3'-C3'	8.91	130.39	119.70
4	A3	64	MET	CG-SD-CE	-8.91	85.95	100.20
17	AI	17	ARG	NE-CZ-NH1	8.91	124.75	120.30
34	BA	763	U	C6-N1-C1'	-8.91	108.73	121.20
34	BA	1493	U	C5'-C4'-C3'	8.91	130.25	116.00
36	BC	38	U	C3'-C2'-C1'	-8.91	94.37	101.50
85	AA	1669	G	C4-N9-C1'	-8.91	114.92	126.50
39	BF	1	C	O4'-C1'-N1	8.91	115.33	108.20
34	BA	510	U	P-O3'-C3'	8.90	130.39	119.70
34	BA	585	G	P-O5'-C5'	-8.90	106.65	120.90
38	BE	72	C	O4'-C1'-N1	8.90	115.32	108.20
41	BH	33	G	C4-N9-C1'	-8.90	114.92	126.50
85	AA	786	G	O4'-C1'-N9	8.90	115.32	108.20
85	AA	1595	G	N1-C6-O6	8.90	125.24	119.90
85	AA	1832	G	C1'-O4'-C4'	-8.90	102.78	109.90
85	AA	2206	A	P-O3'-C3'	-8.90	109.01	119.70
39	BF	21	C	O4'-C1'-N1	8.90	115.32	108.20
85	AA	1139	G	C4'-C3'-C2'	-8.90	93.70	102.60
34	BA	524	G	P-O5'-C5'	8.90	135.14	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	971	A	C5'-C4'-O4'	-8.90	98.42	109.10
35	BB	1477	C	O4'-C1'-N1	8.90	115.32	108.20
40	BG	14	G	C8-N9-C1'	8.90	138.56	127.00
41	BH	72	G	C4-N9-C1'	-8.90	114.93	126.50
34	BA	608	G	C1'-O4'-C4'	8.89	117.02	109.90
85	AA	2194	U	P-O3'-C3'	8.89	130.37	119.70
34	BA	594	G	O5'-P-OP2	8.89	121.37	110.70
34	BA	961	C	C1'-O4'-C4'	-8.89	102.78	109.90
35	BB	148	C	C6-N1-C1'	-8.89	110.13	120.80
35	BB	691	A	C5-C6-N6	-8.89	116.58	123.70
58	BY	51	ARG	NE-CZ-NH1	8.89	124.75	120.30
15	AG	131	ARG	NE-CZ-NH1	8.89	124.75	120.30
34	BA	98	A	C5-C6-N6	-8.89	116.59	123.70
40	BG	118	U	N3-C2-O2	-8.89	115.98	122.20
41	BH	41	A	O4'-C1'-N9	8.89	115.31	108.20
52	BS	7	ARG	NE-CZ-NH1	8.89	124.75	120.30
85	AA	495	G	C5'-C4'-O4'	-8.89	98.43	109.10
34	BA	238	C	C5-C6-N1	8.89	125.44	121.00
34	BA	1675	C	O5'-C5'-C4'	-8.89	94.81	111.70
41	BH	39	G	N3-C4-C5	-8.89	124.16	128.60
85	AA	1617	G	P-O3'-C3'	8.89	130.37	119.70
34	BA	300	C	C4'-C3'-C2'	-8.89	93.71	102.60
34	BA	470	C	OP2-P-O3'	8.89	124.76	105.20
34	BA	690	G	C2'-C3'-O3'	8.89	129.06	109.50
34	BA	875	G	O5'-C5'-C4'	-8.89	94.81	111.70
34	BA	1801	G	C8-N9-C1'	8.89	138.56	127.00
34	BA	1071	G	C4-N9-C1'	-8.89	114.95	126.50
34	BA	1258	G	C5-C6-O6	-8.89	123.27	128.60
34	BA	1506	C	C4'-C3'-C2'	8.89	111.49	102.60
40	BG	179	C	C4'-C3'-C2'	8.89	111.49	102.60
85	AA	989	U	O5'-P-OP1	-8.89	97.70	105.70
34	BA	1211	G	C6-N1-C2	-8.89	119.77	125.10
38	BE	133	C	C5'-C4'-C3'	-8.89	101.78	116.00
34	BA	1736	A	O4'-C1'-N9	8.88	115.31	108.20
35	BB	480	C	O4'-C1'-N1	8.88	115.31	108.20
38	BE	178	G	P-O3'-C3'	-8.88	109.04	119.70
85	AA	82	A	C5'-C4'-O4'	8.88	119.76	109.10
85	AA	1698	A	P-O5'-C5'	-8.88	106.69	120.90
34	BA	124	G	C4-N9-C1'	-8.88	114.96	126.50
62	Bc	107	TYR	CB-CG-CD1	8.88	126.33	121.00
34	BA	63	A	P-O5'-C5'	-8.88	106.70	120.90
34	BA	1195	G	C4-N9-C1'	-8.88	114.96	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	79	G	C5'-C4'-C3'	8.88	130.20	116.00
38	BE	6	A	C8-N9-C4	8.88	109.35	105.80
38	BE	104	G	C8-N9-C4	-8.88	102.85	106.40
85	AA	400	G	C6-N1-C2	-8.88	119.77	125.10
85	AA	1683	U	C6-N1-C1'	-8.88	108.77	121.20
34	BA	232	U	O4'-C1'-N1	8.88	115.30	108.20
34	BA	622	G	C5-C6-O6	-8.88	123.28	128.60
38	BE	123	A	C2-N3-C4	-8.88	106.16	110.60
85	AA	886	A	C3'-C2'-C1'	-8.88	94.40	101.50
34	BA	395	G	N9-C1'-C2'	-8.87	102.24	112.00
35	BB	1496	C	C6-N1-C2	-8.87	116.75	120.30
85	AA	2132	A	P-O5'-C5'	-8.87	106.70	120.90
34	BA	1411	C	P-O3'-C3'	-8.87	109.06	119.70
35	BB	739	C	O4'-C1'-N1	8.87	115.30	108.20
48	BO	55	ARG	NE-CZ-NH1	8.87	124.74	120.30
85	AA	1184	A	C6-N1-C2	-8.87	113.28	118.60
36	BC	157	U	P-O5'-C5'	-8.87	106.71	120.90
62	Bc	76	MET	CG-SD-CE	-8.87	86.00	100.20
85	AA	1872	G	N1-C6-O6	8.87	125.22	119.90
85	AA	1003	G	C8-N9-C4	-8.87	102.85	106.40
85	AA	2048	C	C5'-C4'-C3'	8.87	130.20	116.00
34	BA	1299	G	O4'-C1'-N9	8.87	115.30	108.20
34	BA	1380	G	O4'-C1'-N9	8.87	115.30	108.20
38	BE	203	C	C6-N1-C1'	-8.87	110.16	120.80
34	BA	508	C	C2-N1-C1'	8.87	128.55	118.80
34	BA	578	C	C3'-C2'-C1'	8.87	108.59	101.50
34	BA	692	U	N1-C2-O2	-8.87	116.59	122.80
52	BS	42	ARG	NE-CZ-NH1	8.87	124.73	120.30
65	Bf	456	ARG	NE-CZ-NH2	-8.87	115.87	120.30
85	AA	1516	A	C4'-C3'-C2'	8.87	111.47	102.60
34	BA	980	C	P-O5'-C5'	-8.87	106.72	120.90
34	BA	1485	U	C2-N1-C1'	-8.87	107.06	117.70
35	BB	80	C	P-O3'-C3'	8.87	130.34	119.70
34	BA	398	G	N1-C6-O6	8.86	125.22	119.90
35	BB	818	U	C6-N1-C1'	8.86	133.61	121.20
34	BA	4	A	C5'-C4'-C3'	8.86	130.18	116.00
34	BA	75	U	O4'-C1'-N1	8.86	115.29	108.20
34	BA	540	G	C8-N9-C1'	8.86	138.52	127.00
34	BA	1707	C	C2-N3-C4	-8.86	115.47	119.90
40	BG	140	G	C5'-C4'-C3'	-8.86	101.82	116.00
85	AA	845	A	O4'-C1'-N9	8.86	115.29	108.20
34	BA	730	C	C6-N1-C2	-8.86	116.76	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	958	G	C4'-C3'-C2'	-8.86	93.74	102.60
35	BB	1235	A	P-O3'-C3'	8.86	130.33	119.70
40	BG	94	G	C8-N9-C4	8.86	109.94	106.40
85	AA	2157	G	C4-N9-C1'	-8.86	114.98	126.50
16	AH	43	ARG	NE-CZ-NH1	8.86	124.73	120.30
34	BA	568	G	C5'-C4'-C3'	-8.86	101.83	116.00
34	BA	1731	A	C5'-C4'-C3'	8.86	130.17	116.00
35	BB	638	G	C8-N9-C4	8.86	109.94	106.40
85	AA	919	U	P-O3'-C3'	-8.86	109.07	119.70
85	AA	1180	C	C4'-C3'-C2'	8.86	111.45	102.60
85	AA	1426	G	C5'-C4'-C3'	-8.86	101.83	116.00
34	BA	917	C	C5'-C4'-C3'	-8.85	101.84	116.00
34	BA	994	G	C5-C6-O6	-8.85	123.29	128.60
35	BB	815	G	O4'-C1'-N9	8.85	115.28	108.20
35	BB	1362	G	C5-C6-O6	-8.85	123.29	128.60
85	AA	982	G	N3-C2-N2	-8.85	113.70	119.90
85	AA	2105	G	C5-C6-O6	-8.85	123.29	128.60
34	BA	402	G	O4'-C1'-N9	8.85	115.28	108.20
36	BC	160	C	N3-C2-O2	-8.85	115.70	121.90
38	BE	13	A	C5'-C4'-O4'	8.85	119.72	109.10
35	BB	1295	A	P-O3'-C3'	-8.85	109.08	119.70
41	BH	74	G	OP1-P-OP2	-8.85	106.33	119.60
85	AA	1793	A	C4-N9-C1'	-8.85	110.37	126.30
45	BL	160	ARG	NE-CZ-NH1	8.85	124.72	120.30
85	AA	38	C	C1'-O4'-C4'	-8.85	102.82	109.90
34	BA	472	G	C8-N9-C4	-8.85	102.86	106.40
35	BB	1507	U	C1'-O4'-C4'	-8.85	102.82	109.90
37	BD	106	G	C6-N1-C2	-8.85	119.79	125.10
60	Ba	87	ASP	CB-CG-OD1	8.85	126.26	118.30
85	AA	467	U	O4'-C1'-N1	8.85	115.28	108.20
40	BG	173	C	O4'-C1'-N1	8.85	115.28	108.20
34	BA	10	G	O4'-C1'-C2'	8.84	115.56	107.60
34	BA	655	U	C2-N1-C1'	-8.84	107.09	117.70
38	BE	64	A	C5-C6-N6	-8.84	116.62	123.70
85	AA	1899	A	N1-C6-N6	8.84	123.91	118.60
34	BA	550	U	C5-C4-O4	8.84	131.20	125.90
34	BA	866	C	N3-C4-C5	-8.84	118.36	121.90
35	BB	411	A	P-O3'-C3'	-8.84	109.09	119.70
35	BB	708	C	P-O5'-C5'	-8.84	106.76	120.90
35	BB	1453	G	C6-C5-N7	-8.84	125.09	130.40
85	AA	2215	C	O4'-C1'-N1	8.84	115.27	108.20
34	BA	17	A	C4'-C3'-C2'	8.84	111.44	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	574	U	N3-C2-O2	-8.84	116.01	122.20
85	AA	1165	C	O4'-C1'-N1	8.84	115.27	108.20
85	AA	1927	G	C4-N9-C1'	-8.84	115.01	126.50
34	BA	1013	A	O4'-C1'-N9	8.84	115.27	108.20
35	BB	610	U	O3'-P-O5'	8.84	120.79	104.00
85	AA	2096	G	C5-C6-O6	-8.84	123.30	128.60
34	BA	1538	G	C6-N1-C2	-8.84	119.80	125.10
85	AA	539	A	C5-C6-N6	-8.84	116.63	123.70
85	AA	557	G	P-O5'-C5'	8.84	135.04	120.90
34	BA	527	C	P-O3'-C3'	-8.83	109.10	119.70
35	BB	800	U	C6-N1-C2	-8.83	115.70	121.00
35	BB	1546	C	C5'-C4'-C3'	-8.83	101.87	116.00
85	AA	305	A	P-O5'-C5'	8.83	135.03	120.90
85	AA	740	A	C5-C6-N6	8.83	130.77	123.70
34	BA	112	C	N3-C2-O2	-8.83	115.72	121.90
34	BA	660	C	N3-C2-O2	-8.83	115.72	121.90
35	BB	35	G	C6-N1-C2	-8.83	119.80	125.10
38	BE	112	G	O5'-P-OP1	8.83	121.30	110.70
85	AA	1191	G	C4-N9-C1'	-8.83	115.02	126.50
34	BA	1568	A	C5-C6-N6	-8.83	116.64	123.70
35	BB	1506	C	P-O5'-C5'	8.83	135.02	120.90
85	AA	857	G	C4-N9-C1'	-8.83	115.03	126.50
34	BA	1294	C	P-O3'-C3'	8.82	130.29	119.70
35	BB	1004	A	C8-N9-C4	-8.82	102.27	105.80
35	BB	1157	G	C5-C6-O6	-8.82	123.31	128.60
38	BE	92	C	C6-N1-C2	-8.82	116.77	120.30
39	BF	67	A	N1-C6-N6	8.82	123.89	118.60
85	AA	1286	C	P-O3'-C3'	8.82	130.29	119.70
34	BA	1093	G	O4'-C1'-N9	8.82	115.26	108.20
38	BE	13	A	C8-N9-C4	-8.82	102.27	105.80
85	AA	755	G	N7-C8-N9	8.82	117.51	113.10
20	AL	80	ARG	NE-CZ-NH2	-8.82	115.89	120.30
85	AA	457	G	C8-N9-C1'	8.82	138.47	127.00
36	BC	4	G	C4-N9-C1'	-8.82	115.03	126.50
85	AA	921	C	C2-N1-C1'	8.82	128.50	118.80
85	AA	1499	G	C8-N9-C1'	8.82	138.47	127.00
34	BA	1647	G	O4'-C1'-N9	8.82	115.25	108.20
35	BB	815	G	N9-C1'-C2'	-8.82	102.30	112.00
35	BB	989	C	C6-N1-C1'	-8.82	110.22	120.80
38	BE	30	C	C5'-C4'-C3'	8.82	130.11	116.00
38	BE	177	U	P-O5'-C5'	8.82	135.01	120.90
51	BR	42	ARG	NE-CZ-NH1	8.82	124.71	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1658	G	C5-C6-O6	-8.82	123.31	128.60
4	A3	91	TYR	CB-CG-CD1	8.81	126.29	121.00
34	BA	151	A	O5'-C5'-C4'	8.81	128.45	111.70
41	BH	113	G	C8-N9-C1'	8.81	138.46	127.00
85	AA	163	C	C2-N1-C1'	8.81	128.50	118.80
85	AA	1108	U	C6-N1-C2	-8.81	115.71	121.00
85	AA	1260	G	C4-N9-C1'	-8.81	115.04	126.50
85	AA	1553	G	C5-C6-O6	-8.81	123.31	128.60
85	AA	2152	C	O4'-C1'-N1	8.81	115.25	108.20
34	BA	548	G	OP1-P-OP2	-8.81	106.38	119.60
34	BA	1445	U	O4'-C1'-N1	8.81	115.25	108.20
34	BA	289	A	C4-N9-C1'	-8.81	110.44	126.30
38	BE	19	G	O5'-P-OP2	-8.81	97.77	105.70
85	AA	744	C	C2-N3-C4	8.81	124.30	119.90
85	AA	1645	G	C3'-C2'-C1'	-8.81	94.45	101.50
85	AA	1543	C	C5'-C4'-C3'	8.81	130.09	116.00
85	AA	2039	G	P-O3'-C3'	-8.81	109.13	119.70
39	BF	46	G	C4-N9-C1'	-8.81	115.05	126.50
40	BG	12	A	O4'-C1'-N9	8.81	115.25	108.20
34	BA	527	C	C1'-O4'-C4'	-8.80	102.86	109.90
85	AA	331	G	C8-N9-C4	-8.80	102.88	106.40
85	AA	790	A	C1'-O4'-C4'	8.81	116.94	109.90
34	BA	1224	A	C4'-C3'-C2'	8.80	111.40	102.60
35	BB	807	U	C2-N1-C1'	-8.80	107.14	117.70
37	BD	95	G	N7-C8-N9	8.80	117.50	113.10
65	Bf	398	ARG	NE-CZ-NH1	8.80	124.70	120.30
85	AA	1056	C	O4'-C1'-N1	8.80	115.24	108.20
34	BA	114	U	C5'-C4'-C3'	8.80	130.08	116.00
34	BA	1722	U	N3-C2-O2	-8.80	116.04	122.20
34	BA	1776	G	C4-N9-C1'	-8.80	115.06	126.50
40	BG	148	C	C1'-O4'-C4'	-8.80	102.86	109.90
85	AA	821	U	C2-N3-C4	-8.80	121.72	127.00
85	AA	1540	A	C5'-C4'-C3'	-8.80	101.92	116.00
85	AA	815	G	N3-C2-N2	8.80	126.06	119.90
34	BA	857	C	C5'-C4'-C3'	8.80	130.07	116.00
35	BB	803	U	C1'-O4'-C4'	-8.80	102.86	109.90
37	BD	84	U	N3-C2-O2	-8.80	116.04	122.20
85	AA	90	A	C1'-O4'-C4'	-8.80	102.86	109.90
35	BB	546	A	C6-N1-C2	-8.80	113.32	118.60
34	BA	435	U	C2-N3-C4	-8.79	121.72	127.00
38	BE	184	G	P-O5'-C5'	8.79	134.97	120.90
60	Ba	83	ARG	NE-CZ-NH1	8.79	124.70	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	273	C	N3-C2-O2	-8.79	115.74	121.90
85	AA	1818	C	C6-N1-C2	-8.79	116.78	120.30
4	A3	91	TYR	CB-CG-CD2	-8.79	115.72	121.00
23	AP	217	ARG	NE-CZ-NH2	8.79	124.70	120.30
34	BA	990	G	C5'-C4'-C3'	-8.79	101.93	116.00
34	BA	1722	U	C2-N1-C1'	-8.79	107.15	117.70
35	BB	643	G	N1-C6-O6	-8.79	114.62	119.90
35	BB	747	A	P-O3'-C3'	8.79	130.25	119.70
85	AA	707	U	C5'-C4'-C3'	-8.79	101.93	116.00
85	AA	1934	A	C5-C6-N6	-8.79	116.67	123.70
35	BB	1458	U	C5'-C4'-C3'	-8.79	101.93	116.00
38	BE	132	U	C6-N1-C1'	8.79	133.51	121.20
15	AG	91	LEU	CB-CA-C	8.79	126.90	110.20
34	BA	557	U	OP1-P-O3'	8.79	124.54	105.20
34	BA	1054	U	P-O3'-C3'	8.79	130.25	119.70
85	AA	48	G	C1'-O4'-C4'	-8.79	102.87	109.90
34	BA	1142	C	C5'-C4'-C3'	-8.79	101.94	116.00
35	BB	607	G	C8-N9-C1'	8.79	138.42	127.00
35	BB	887	G	C8-N9-C4	-8.79	102.89	106.40
85	AA	786	G	C5-C6-O6	-8.79	123.33	128.60
85	AA	1260	G	C8-N9-C1'	8.79	138.42	127.00
35	BB	265	C	O4'-C1'-N1	8.79	115.23	108.20
35	BB	576	A	O4'-C1'-N9	8.79	115.23	108.20
35	BB	1376	G	C5-C6-O6	-8.79	123.33	128.60
85	AA	613	G	N1-C6-O6	8.79	125.17	119.90
34	BA	610	A	P-O3'-C3'	-8.78	109.16	119.70
35	BB	1519	U	P-O3'-C3'	-8.78	109.16	119.70
13	AE	98	ARG	NE-CZ-NH1	8.78	124.69	120.30
34	BA	495	A	C1'-O4'-C4'	-8.78	102.88	109.90
34	BA	1126	U	C6-N1-C2	-8.78	115.73	121.00
35	BB	549	U	C2-N3-C4	-8.78	121.73	127.00
35	BB	768	A	P-O5'-C5'	8.78	134.95	120.90
85	AA	1105	G	O4'-C1'-N9	8.78	115.23	108.20
36	BC	127	C	O4'-C1'-N1	8.78	115.22	108.20
52	BS	47	MET	CG-SD-CE	-8.78	86.15	100.20
85	AA	301	U	O4'-C1'-N1	8.78	115.22	108.20
34	BA	1211	G	O5'-P-OP1	8.78	121.23	110.70
85	AA	831	C	O4'-C1'-N1	8.78	115.22	108.20
37	BD	98	G	P-O3'-C3'	8.78	130.23	119.70
34	BA	881	C	C6-N1-C1'	8.78	131.33	120.80
36	BC	137	C	C6-N1-C2	-8.78	116.79	120.30
34	BA	55	G	C6-N1-C2	-8.78	119.83	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	167	U	C6-N1-C2	-8.78	115.73	121.00
85	AA	414	C	C2-N1-C1'	-8.78	109.15	118.80
85	AA	1451	U	O4'-C1'-N1	8.78	115.22	108.20
35	BB	987	U	C2-N1-C1'	8.77	128.23	117.70
36	BC	76	C	O4'-C1'-N1	8.77	115.22	108.20
40	BG	118	U	C6-N1-C1'	8.77	133.48	121.20
34	BA	875	G	C5-C6-O6	-8.77	123.34	128.60
85	AA	850	U	P-O3'-C3'	-8.77	109.17	119.70
34	BA	1262	A	C4'-C3'-C2'	-8.77	93.83	102.60
85	AA	1874	G	O4'-C1'-N9	8.77	115.22	108.20
34	BA	1166	A	O4'-C1'-C2'	8.77	115.49	107.60
85	AA	644	A	P-O3'-C3'	8.77	130.22	119.70
85	AA	655	U	P-O3'-C3'	-8.77	109.18	119.70
85	AA	974	U	C4'-C3'-C2'	8.77	111.37	102.60
85	AA	1977	G	N1-C6-O6	8.77	125.16	119.90
34	BA	323	C	O4'-C4'-C3'	-8.77	95.23	104.00
50	BQ	176	ARG	NE-CZ-NH1	8.77	124.68	120.30
85	AA	1289	U	O4'-C1'-N1	8.77	115.21	108.20
85	AA	1973	G	C4-N9-C1'	-8.77	115.10	126.50
35	BB	1464	G	C8-N9-C1'	8.77	138.39	127.00
36	BC	8	C	N3-C4-C5	-8.77	118.39	121.90
85	AA	272	C	C1'-O4'-C4'	-8.77	102.89	109.90
85	AA	708	G	C5-C6-N1	8.77	115.88	111.50
34	BA	654	C	O4'-C1'-N1	8.76	115.21	108.20
34	BA	1668	C	C6-N1-C1'	8.76	131.31	120.80
34	BA	1570	C	C2-N3-C4	-8.76	115.52	119.90
34	BA	1711	G	C3'-C2'-C1'	-8.76	94.49	101.50
44	BK	3	ARG	NE-CZ-NH2	-8.76	115.92	120.30
85	AA	1004	G	P-O3'-C3'	-8.76	109.19	119.70
35	BB	771	U	O3'-P-O5'	-8.76	87.36	104.00
35	BB	782	A	N1-C6-N6	8.76	123.86	118.60
85	AA	475	A	C4-N9-C1'	-8.76	110.53	126.30
85	AA	1597	C	O4'-C1'-N1	8.76	115.21	108.20
85	AA	1920	A	P-O3'-C3'	8.76	130.21	119.70
34	BA	871	G	OP1-P-OP2	8.76	132.74	119.60
35	BB	439	G	C5'-C4'-C3'	-8.76	101.99	116.00
85	AA	851	G	C5-C6-O6	-8.76	123.34	128.60
41	BH	129	G	C5-C6-O6	8.76	133.85	128.60
85	AA	1363	U	C5'-C4'-C3'	-8.76	101.99	116.00
85	AA	635	G	C8-N9-C1'	8.76	138.38	127.00
35	BB	705	C	P-O3'-C3'	-8.75	109.19	119.70
35	BB	1545	U	O4'-C1'-N1	8.75	115.20	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	61	G	C8-N9-C1'	8.75	138.38	127.00
34	BA	672	G	C4'-C3'-C2'	-8.75	93.85	102.60
35	BB	1303	A	C4'-C3'-C2'	8.75	111.35	102.60
65	Bf	376	ARG	NE-CZ-NH2	8.75	124.68	120.30
85	AA	794	A	N1-C6-N6	8.75	123.85	118.60
85	AA	942	A	P-O5'-C5'	-8.75	106.90	120.90
85	AA	1840	C	P-O5'-C5'	8.75	134.90	120.90
4	A3	210	ARG	NE-CZ-NH1	8.75	124.67	120.30
38	BE	36	U	C2-N1-C1'	-8.75	107.20	117.70
40	BG	76	C	C5-C4-N4	-8.75	114.08	120.20
85	AA	847	G	C5'-C4'-O4'	8.75	119.60	109.10
85	AA	1198	U	N3-C2-O2	-8.75	116.08	122.20
85	AA	1539	A	N1-C6-N6	8.75	123.85	118.60
34	BA	98	A	C8-N9-C4	8.75	109.30	105.80
34	BA	137	C	C4'-C3'-C2'	-8.75	93.85	102.60
36	BC	16	A	C4-C5-C6	-8.75	112.63	117.00
85	AA	670	C	P-O3'-C3'	-8.75	109.20	119.70
85	AA	105	A	C1'-O4'-C4'	-8.75	102.90	109.90
85	AA	1268	C	N1-C1'-C2'	-8.75	102.38	112.00
34	BA	1257	U	P-O5'-C5'	-8.74	106.91	120.90
35	BB	494	C	O4'-C1'-N1	8.74	115.19	108.20
85	AA	180	A	C5-C6-N6	8.74	130.70	123.70
85	AA	958	C	O4'-C1'-N1	8.74	115.20	108.20
85	AA	2029	G	C5'-C4'-C3'	-8.74	102.01	116.00
35	BB	590	G	N3-C2-N2	8.74	126.02	119.90
35	BB	996	G	N3-C2-N2	8.74	126.02	119.90
36	BC	62	A	C2-N3-C4	-8.74	106.23	110.60
34	BA	591	G	O5'-C5'-C4'	-8.74	95.09	111.70
40	BG	112	C	C6-N1-C2	-8.74	116.80	120.30
85	AA	861	G	N1-C6-O6	8.74	125.14	119.90
34	BA	1745	G	C4-N9-C1'	-8.74	115.14	126.50
85	AA	1157	U	C2-N3-C4	-8.74	121.76	127.00
85	AA	1650	G	C5'-C4'-C3'	-8.74	102.02	116.00
85	AA	2249	U	C1'-O4'-C4'	-8.74	102.91	109.90
85	AA	873	U	C2-N3-C4	-8.74	121.76	127.00
15	AG	114	ARG	NE-CZ-NH1	8.74	124.67	120.30
34	BA	799	A	O4'-C1'-N9	8.74	115.19	108.20
34	BA	828	A	C5-C6-N6	8.74	130.69	123.70
35	BB	637	G	C5'-C4'-C3'	-8.74	102.02	116.00
36	BC	7	U	C6-N1-C1'	-8.74	108.97	121.20
85	AA	784	C	C6-N1-C2	-8.74	116.81	120.30
85	AA	814	G	N1-C6-O6	8.74	125.14	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1594	G	C5-C6-O6	-8.74	123.36	128.60
85	AA	2002	A	C8-N9-C4	-8.74	102.31	105.80
85	AA	967	C	O4'-C1'-N1	8.73	115.19	108.20
34	BA	299	C	C5'-C4'-C3'	-8.73	102.03	116.00
34	BA	638	U	O4'-C1'-N1	8.73	115.19	108.20
85	AA	1622	G	P-O3'-C3'	8.73	130.18	119.70
40	BG	105	A	C5-C6-N6	8.73	130.69	123.70
34	BA	1448	G	C5-C6-O6	-8.73	123.36	128.60
41	BH	1	U	P-O3'-C3'	-8.73	109.22	119.70
85	AA	292	C	O4'-C1'-N1	8.73	115.19	108.20
34	BA	1073	G	C6-N1-C2	-8.73	119.86	125.10
35	BB	329	U	O4'-C1'-N1	8.73	115.18	108.20
35	BB	1027	U	C5'-C4'-O4'	8.73	119.58	109.10
85	AA	2189	U	O4'-C1'-N1	8.73	115.19	108.20
35	BB	83	G	C5-C6-O6	-8.73	123.36	128.60
41	BH	36	C	C2-N1-C1'	-8.73	109.20	118.80
85	AA	104	C	C6-N1-C2	-8.73	116.81	120.30
85	AA	1720	C	P-O5'-C5'	-8.73	106.93	120.90
34	BA	356	C	O4'-C1'-N1	8.73	115.18	108.20
85	AA	82	A	O4'-C1'-N9	8.73	115.18	108.20
85	AA	459	C	O4'-C1'-N1	8.73	115.18	108.20
19	AK	88	ARG	NE-CZ-NH1	8.72	124.66	120.30
37	BD	78	C	C5'-C4'-C3'	-8.72	102.04	116.00
38	BE	90	G	C4'-C3'-C2'	8.72	111.33	102.60
38	BE	10	G	C4'-C3'-C2'	-8.72	93.88	102.60
72	Bm	63	ARG	NE-CZ-NH1	8.72	124.66	120.30
34	BA	1454	G	C4'-C3'-C2'	-8.72	93.88	102.60
34	BA	1832	A	C5'-C4'-C3'	-8.72	102.05	116.00
41	BH	9	C	C2-N1-C1'	8.72	128.39	118.80
85	AA	2124	G	P-O3'-C3'	8.72	130.16	119.70
34	BA	1477	C	C4'-C3'-C2'	-8.72	93.88	102.60
35	BB	15	C	C6-N1-C2	-8.72	116.81	120.30
85	AA	1927	G	C8-N9-C1'	8.72	138.34	127.00
85	AA	2089	G	C4-N9-C1'	-8.72	115.17	126.50
35	BB	1483	A	C8-N9-C4	-8.72	102.31	105.80
34	BA	659	U	P-O3'-C3'	8.71	130.16	119.70
85	AA	1163	G	C1'-O4'-C4'	-8.72	102.93	109.90
40	BG	14	G	C5-C6-N1	8.71	115.86	111.50
85	AA	3	U	C2-N1-C1'	8.71	128.16	117.70
85	AA	1260	G	P-O3'-C3'	-8.71	109.24	119.70
85	AA	1900	C	C5'-C4'-C3'	-8.71	102.06	116.00
34	BA	144	C	C2-N3-C4	-8.71	115.54	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	196	A	C4'-C3'-C2'	8.71	111.31	102.60
34	BA	977	G	C5'-C4'-C3'	-8.71	102.06	116.00
34	BA	1344	G	C1'-O4'-C4'	-8.71	102.93	109.90
34	BA	1657	A	N1-C6-N6	-8.71	113.37	118.60
35	BB	682	U	C2-N3-C4	-8.71	121.77	127.00
35	BB	1453	G	N9-C4-C5	-8.71	101.92	105.40
37	BD	95	G	C5-C6-N1	8.71	115.86	111.50
35	BB	804	U	N1-C2-N3	8.71	120.13	114.90
38	BE	185	G	C4-N9-C1'	-8.71	115.18	126.50
47	BN	44	ARG	NE-CZ-NH1	8.71	124.66	120.30
80	Bu	33	ARG	NE-CZ-NH1	8.71	124.66	120.30
41	BH	119	U	C4'-C3'-C2'	-8.71	93.89	102.60
85	AA	840	A	P-O3'-C3'	-8.71	109.25	119.70
35	BB	1167	C	O4'-C4'-C3'	8.71	113.07	106.10
35	BB	1419	G	C5-C6-O6	-8.71	123.38	128.60
86	AB	49	C	O4'-C1'-N1	8.71	115.17	108.20
34	BA	480	G	C5'-C4'-C3'	-8.71	102.07	116.00
34	BA	1650	G	C3'-C2'-C1'	-8.71	94.53	101.50
37	BD	83	A	C1'-O4'-C4'	-8.71	102.94	109.90
85	AA	1486	G	O4'-C1'-N9	8.71	115.17	108.20
35	BB	1356	G	C5-C6-O6	-8.71	123.38	128.60
38	BE	198	A	N1-C2-N3	-8.71	124.95	129.30
34	BA	1184	A	P-O3'-C3'	8.70	130.14	119.70
34	BA	316	G	C4-N9-C1'	-8.70	115.19	126.50
34	BA	657	C	C6-N1-C2	-8.70	116.82	120.30
35	BB	641	C	C6-N1-C2	-8.70	116.82	120.30
35	BB	839	G	N1-C6-O6	-8.70	114.68	119.90
38	BE	8	G	N3-C4-N9	8.70	131.22	126.00
63	Bd	61	GLU	OE1-CD-OE2	8.70	133.74	123.30
34	BA	1790	U	C2-N3-C4	-8.70	121.78	127.00
62	Bc	13	ARG	N-CA-CB	8.70	126.26	110.60
85	AA	243	A	O5'-P-OP2	8.70	121.14	110.70
34	BA	1478	G	P-O3'-C3'	8.70	130.14	119.70
34	BA	1493	U	O3'-P-O5'	8.70	120.53	104.00
40	BG	35	G	P-O3'-C3'	-8.70	109.26	119.70
40	BG	164	U	C6-N1-C2	-8.70	115.78	121.00
34	BA	508	C	C5'-C4'-O4'	8.70	119.54	109.10
34	BA	564	C	C4-C5-C6	8.70	121.75	117.40
35	BB	842	G	C8-N9-C1'	8.70	138.31	127.00
85	AA	1663	U	O4'-C1'-N1	8.70	115.16	108.20
35	BB	653	G	C4-N9-C1'	-8.70	115.20	126.50
85	AA	977	U	C5'-C4'-C3'	-8.70	102.09	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1086	U	O4'-C1'-N1	8.70	115.16	108.20
85	AA	1242	A	C5'-C4'-C3'	-8.70	102.08	116.00
85	AA	2020	C	C2-N1-C1'	8.70	128.37	118.80
40	BG	6	A	C5'-C4'-C3'	8.69	129.91	116.00
85	AA	860	C	O4'-C1'-N1	8.70	115.16	108.20
85	AA	1226	A	O4'-C4'-C3'	-8.69	95.31	104.00
85	AA	1912	U	O4'-C1'-N1	8.69	115.16	108.20
34	BA	538	G	O4'-C1'-N9	8.69	115.16	108.20
34	BA	637	G	C5-C6-O6	8.69	133.81	128.60
34	BA	1286	C	C2-N3-C4	8.69	124.25	119.90
85	AA	1496	U	C2-N3-C4	-8.69	121.79	127.00
34	BA	513	U	C6-N1-C2	-8.69	115.79	121.00
34	BA	1202	G	C1'-O4'-C4'	-8.69	102.95	109.90
65	Bf	167	ARG	NE-CZ-NH1	8.69	124.64	120.30
35	BB	836	U	N3-C4-O4	8.69	125.48	119.40
85	AA	2150	G	O4'-C1'-N9	8.69	115.15	108.20
34	BA	347	A	P-O3'-C3'	8.69	130.12	119.70
34	BA	1693	U	O5'-P-OP2	-8.69	97.88	105.70
34	BA	1743	U	O4'-C1'-N1	8.69	115.15	108.20
35	BB	816	U	C6-N1-C1'	8.69	133.36	121.20
35	BB	1424	G	C5'-C4'-C3'	-8.69	102.10	116.00
39	BF	64	U	C2-N3-C4	-8.69	121.79	127.00
41	BH	95	C	O4'-C1'-N1	8.69	115.15	108.20
85	AA	385	A	C3'-C2'-C1'	-8.69	94.55	101.50
85	AA	1116	G	C5'-C4'-C3'	-8.69	102.10	116.00
34	BA	232	U	P-O3'-C3'	-8.68	109.28	119.70
34	BA	429	G	N9-C4-C5	-8.68	101.93	105.40
85	AA	442	G	C5-C6-N1	8.68	115.84	111.50
85	AA	1812	C	C2-N3-C4	-8.68	115.56	119.90
35	BB	852	G	O5'-P-OP1	-8.68	97.89	105.70
34	BA	94	G	C5'-C4'-C3'	-8.68	102.11	116.00
34	BA	807	U	C6-N1-C2	-8.68	115.79	121.00
34	BA	1735	G	P-O3'-C3'	8.68	130.12	119.70
35	BB	656	A	P-O3'-C3'	-8.68	109.28	119.70
35	BB	1391	G	C5'-C4'-O4'	8.68	119.52	109.10
49	BP	120	ARG	NE-CZ-NH2	-8.68	115.96	120.30
34	BA	259	C	C2-N1-C1'	-8.68	109.26	118.80
34	BA	575	U	C6-N1-C2	-8.68	115.79	121.00
34	BA	1176	C	O5'-C5'-C4'	-8.68	95.21	111.70
34	BA	1658	G	P-O3'-C3'	-8.68	109.29	119.70
85	AA	1900	C	C2-N3-C4	-8.68	115.56	119.90
85	AA	2057	G	C5'-C4'-C3'	-8.68	102.12	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1716	A	C1'-O4'-C4'	-8.68	102.96	109.90
85	AA	1832	G	C3'-C2'-C1'	-8.68	94.56	101.50
85	AA	1956	C	P-O5'-C5'	-8.67	107.02	120.90
34	BA	606	G	C5'-C4'-C3'	-8.67	102.12	116.00
35	BB	1146	C	O4'-C1'-N1	8.67	115.14	108.20
39	BF	5	U	C2-N1-C1'	8.67	128.11	117.70
39	BF	11	C	C6-N1-C2	-8.67	116.83	120.30
85	AA	313	A	N1-C2-N3	-8.67	124.97	129.30
85	AA	632	U	P-O3'-C3'	8.67	130.10	119.70
85	AA	796	U	C5'-C4'-C3'	8.67	129.87	116.00
85	AA	709	A	O4'-C1'-N9	8.67	115.14	108.20
85	AA	1661	U	P-O3'-C3'	8.67	130.10	119.70
85	AA	1984	A	N1-C6-N6	8.67	123.80	118.60
2	A1	127	TYR	CA-CB-CG	-8.67	96.93	113.40
34	BA	1072	U	C5-C6-N1	-8.67	118.37	122.70
85	AA	357	C	C6-N1-C2	-8.67	116.83	120.30
85	AA	1482	C	P-O3'-C3'	-8.67	109.30	119.70
34	BA	27	G	P-O3'-C3'	-8.67	109.30	119.70
34	BA	678	C	C5-C6-N1	8.67	125.33	121.00
35	BB	1066	G	C5-C6-O6	-8.67	123.40	128.60
77	Br	312	ARG	NE-CZ-NH1	8.66	124.63	120.30
34	BA	606	G	N1-C2-N2	-8.66	108.40	116.20
35	BB	14	C	P-O3'-C3'	-8.66	109.30	119.70
35	BB	1018	U	C1'-O4'-C4'	-8.66	102.97	109.90
38	BE	127	G	C5'-C4'-C3'	8.66	129.86	116.00
85	AA	671	G	C5'-C4'-C3'	-8.66	102.14	116.00
34	BA	165	C	O4'-C1'-C2'	-8.66	97.14	105.80
34	BA	506	U	O4'-C1'-N1	8.66	115.13	108.20
34	BA	938	C	C4'-C3'-C2'	8.66	111.26	102.60
34	BA	1265	G	C8-N9-C1'	-8.66	115.74	127.00
35	BB	1460	G	N1-C6-O6	8.66	125.10	119.90
36	BC	113	G	N1-C6-O6	8.66	125.10	119.90
85	AA	1441	G	C5-C6-O6	-8.66	123.40	128.60
15	AG	55	ARG	NE-CZ-NH1	8.66	124.63	120.30
34	BA	186	G	P-O3'-C3'	-8.66	109.31	119.70
34	BA	447	U	C2-N1-C1'	-8.66	107.31	117.70
34	BA	1137	U	C5'-C4'-C3'	-8.66	102.15	116.00
35	BB	118	A	N1-C6-N6	8.66	123.80	118.60
38	BE	75	C	P-O5'-C5'	8.66	134.75	120.90
85	AA	414	C	N3-C2-O2	-8.66	115.84	121.90
85	AA	495	G	O4'-C1'-N9	8.66	115.13	108.20
42	BI	19	THR	N-CA-C	8.66	134.37	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	806	G	O4'-C1'-N9	8.66	115.12	108.20
34	BA	465	A	O4'-C1'-N9	8.65	115.12	108.20
34	BA	877	U	O4'-C1'-N1	8.65	115.12	108.20
85	AA	482	C	P-O3'-C3'	-8.65	109.31	119.70
34	BA	1563	G	C2'-C3'-O3'	8.65	128.54	109.50
34	BA	1568	A	O4'-C1'-N9	8.65	115.12	108.20
35	BB	600	C	O4'-C1'-N1	8.65	115.12	108.20
35	BB	1485	G	O4'-C1'-N9	8.65	115.12	108.20
85	AA	2200	A	P-O3'-C3'	-8.65	109.31	119.70
34	BA	223	U	N3-C2-O2	-8.65	116.14	122.20
34	BA	576	C	P-O5'-C5'	-8.65	107.06	120.90
34	BA	1157	A	P-O3'-C3'	-8.65	109.32	119.70
34	BA	293	A	O4'-C1'-N9	8.65	115.12	108.20
35	BB	1200	A	O4'-C4'-C3'	-8.65	95.35	104.00
36	BC	51	A	O4'-C1'-N9	8.65	115.12	108.20
37	BD	70	C	C6-N1-C1'	8.65	131.18	120.80
37	BD	80	G	C5-C6-O6	-8.65	123.41	128.60
40	BG	145	C	C6-N1-C2	-8.65	116.84	120.30
34	BA	143	A	O5'-C5'-C4'	-8.65	95.27	111.70
35	BB	1226	G	O4'-C1'-C2'	8.65	115.38	107.60
36	BC	156	A	C5-C6-N6	-8.65	116.78	123.70
85	AA	732	G	P-O5'-C5'	-8.65	107.06	120.90
34	BA	348	U	C5'-C4'-C3'	-8.65	102.17	116.00
35	BB	1547	U	C2-N3-C4	-8.65	121.81	127.00
36	BC	7	U	N1-C2-N3	-8.65	109.71	114.90
85	AA	1763	G	P-O5'-C5'	8.65	134.74	120.90
34	BA	1458	A	C5-C6-N6	-8.64	116.78	123.70
34	BA	1730	A	O4'-C4'-C3'	-8.64	95.36	104.00
35	BB	367	C	O4'-C1'-N1	8.64	115.12	108.20
36	BC	123	G	C6-N1-C2	-8.64	119.91	125.10
71	Bl	138	ARG	NE-CZ-NH1	8.64	124.62	120.30
85	AA	2062	U	P-O5'-C5'	-8.64	107.07	120.90
85	AA	68	A	C1'-O4'-C4'	-8.64	102.99	109.90
85	AA	904	U	C5'-C4'-C3'	-8.64	102.17	116.00
34	BA	1202	G	C4-N9-C1'	-8.64	115.27	126.50
34	BA	1454	G	N9-C4-C5	-8.64	101.94	105.40
35	BB	1530	U	C2-N1-C1'	-8.64	107.33	117.70
38	BE	204	U	N3-C2-O2	-8.64	116.15	122.20
40	BG	21	C	O4'-C1'-C2'	-8.64	97.16	105.80
34	BA	1537	G	C5'-C4'-C3'	-8.64	102.18	116.00
34	BA	1822	U	P-O3'-C3'	-8.64	109.33	119.70
35	BB	516	G	P-O3'-C3'	8.64	130.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	528	G	C4-N9-C1'	-8.64	115.27	126.50
85	AA	239	G	P-O3'-C3'	-8.64	109.34	119.70
85	AA	1375	U	P-O3'-C3'	8.64	130.06	119.70
34	BA	387	A	P-O5'-C5'	8.64	134.72	120.90
35	BB	396	C	O4'-C1'-N1	8.63	115.11	108.20
35	BB	1181	A	C8-N9-C4	8.63	109.25	105.80
37	BD	35	C	O4'-C1'-N1	8.63	115.11	108.20
85	AA	802	A	O5'-P-OP2	-8.63	97.93	105.70
85	AA	1275	A	N1-C6-N6	-8.64	113.42	118.60
34	BA	479	U	C2-N3-C4	-8.63	121.82	127.00
34	BA	743	A	C5-C6-N1	-8.63	113.38	117.70
34	BA	1586	U	O4'-C1'-N1	8.63	115.10	108.20
34	BA	1702	G	P-O3'-C3'	-8.63	109.34	119.70
37	BD	79	G	C5-C6-O6	-8.63	123.42	128.60
38	BE	111	C	C5'-C4'-C3'	-8.63	102.19	116.00
83	Bx	49	ILE	C-N-CA	8.63	140.43	122.30
85	AA	931	G	C5-C6-O6	-8.63	123.42	128.60
67	Bh	150	ARG	NE-CZ-NH1	8.63	124.61	120.30
85	AA	1099	U	C6-N1-C2	-8.63	115.82	121.00
35	BB	571	C	O4'-C1'-N1	8.63	115.10	108.20
40	BG	166	C	N3-C4-N4	-8.63	111.96	118.00
34	BA	818	G	C5'-C4'-C3'	8.63	129.80	116.00
85	AA	690	G	N3-C2-N2	8.63	125.94	119.90
35	BB	1224	C	P-O3'-C3'	-8.62	109.35	119.70
38	BE	126	G	C4'-C3'-C2'	-8.62	93.98	102.60
85	AA	435	A	C5'-C4'-O4'	8.62	119.45	109.10
34	BA	9	A	C5'-C4'-C3'	-8.62	102.21	116.00
34	BA	244	A	C5'-C4'-C3'	-8.62	102.21	116.00
34	BA	853	A	P-O5'-C5'	8.62	134.69	120.90
34	BA	1618	A	C1'-O4'-C4'	-8.62	103.00	109.90
34	BA	1659	G	C5'-C4'-C3'	-8.62	102.20	116.00
85	AA	877	G	C6-N1-C2	-8.62	119.93	125.10
5	A4	188	PHE	CB-CG-CD1	-8.62	114.77	120.80
34	BA	740	A	C5-C6-N1	8.62	122.01	117.70
35	BB	1065	G	C5-C6-O6	-8.62	123.43	128.60
49	BP	17	ARG	NE-CZ-NH2	-8.62	115.99	120.30
60	Ba	60	SER	N-CA-CB	8.62	123.43	110.50
12	AD	17	PHE	CB-CG-CD1	8.62	126.83	120.80
34	BA	637	G	N1-C6-O6	-8.62	114.73	119.90
34	BA	673	U	P-O3'-C3'	8.62	130.04	119.70
34	BA	788	C	O4'-C1'-N1	8.62	115.09	108.20
34	BA	1011	G	C5-C6-O6	-8.62	123.43	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	895	U	C6-N1-C2	-8.62	115.83	121.00
41	BH	63	G	C4-N9-C1'	8.62	137.70	126.50
85	AA	1991	C	P-O5'-C5'	8.62	134.69	120.90
34	BA	11	U	C2-N3-C4	-8.62	121.83	127.00
34	BA	168	U	N3-C2-O2	-8.61	116.17	122.20
34	BA	1487	U	C2-N3-C4	-8.61	121.83	127.00
35	BB	323	C	O4'-C1'-N1	8.62	115.09	108.20
35	BB	1087	A	O3'-P-O5'	8.61	120.37	104.00
40	BG	10	U	C1'-O4'-C4'	-8.62	103.01	109.90
85	AA	1282	A	C4-N9-C1'	-8.62	110.79	126.30
85	AA	243	A	O5'-C5'-C4'	8.61	128.07	111.70
34	BA	180	G	P-O3'-C3'	-8.61	109.36	119.70
34	BA	1211	G	N7-C8-N9	8.61	117.41	113.10
34	BA	596	G	P-O3'-C3'	8.61	130.03	119.70
35	BB	96	A	C5-C6-N6	-8.61	116.81	123.70
35	BB	587	A	N9-C1'-C2'	-8.61	102.53	112.00
41	BH	58	C	C6-N1-C1'	8.61	131.13	120.80
85	AA	1128	G	N1-C6-O6	-8.61	114.73	119.90
85	AA	2161	C	C6-N1-C2	-8.61	116.86	120.30
85	AA	1174	G	C5-C6-O6	-8.61	123.43	128.60
34	BA	866	C	N3-C4-N4	8.61	124.03	118.00
34	BA	1556	A	C8-N9-C4	8.61	109.24	105.80
35	BB	26	C	C2-N3-C4	-8.61	115.60	119.90
35	BB	899	C	O4'-C1'-N1	8.61	115.09	108.20
40	BG	2	U	C3'-C2'-C1'	-8.61	94.61	101.50
41	BH	34	G	C8-N9-C4	-8.61	102.96	106.40
85	AA	1266	C	O4'-C1'-N1	8.61	115.09	108.20
85	AA	2215	C	C6-N1-C1'	8.61	131.13	120.80
34	BA	640	U	O4'-C1'-N1	8.61	115.09	108.20
34	BA	502	U	C1'-O4'-C4'	-8.61	103.02	109.90
34	BA	784	C	C4'-C3'-C2'	8.61	111.21	102.60
38	BE	129	G	O4'-C1'-C2'	-8.61	97.19	105.80
85	AA	1833	C	C6-N1-C2	-8.61	116.86	120.30
34	BA	134	U	C2-N3-C4	-8.60	121.84	127.00
34	BA	494	A	C8-N9-C4	8.60	109.24	105.80
35	BB	39	C	C3'-C2'-C1'	-8.60	94.62	101.50
36	BC	17	U	N3-C2-O2	8.60	128.22	122.20
34	BA	3	G	C1'-O4'-C4'	-8.60	103.02	109.90
34	BA	417	A	C8-N9-C4	8.60	109.24	105.80
35	BB	652	G	C5'-C4'-C3'	-8.60	102.23	116.00
35	BB	1453	G	C4-C5-C6	-8.60	113.64	118.80
40	BG	31	G	C6-N1-C2	-8.60	119.94	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	19	A	C4'-C3'-C2'	8.60	111.20	102.60
84	By	47	ASN	CB-CA-C	8.60	127.60	110.40
85	AA	1117	G	C4-N9-C1'	-8.60	115.32	126.50
34	BA	373	G	C4-N9-C1'	-8.60	115.32	126.50
34	BA	594	G	C8-N9-C1'	-8.60	115.82	127.00
34	BA	1433	U	O4'-C1'-C2'	8.60	115.34	107.60
35	BB	1441	C	C2-N1-C1'	8.60	128.26	118.80
36	BC	147	G	P-O5'-C5'	8.60	134.66	120.90
85	AA	1117	G	C8-N9-C1'	8.60	138.18	127.00
38	BE	11	A	N1-C6-N6	-8.60	113.44	118.60
35	BB	41	A	C5'-C4'-C3'	-8.60	102.25	116.00
35	BB	433	C	P-O3'-C3'	8.60	130.01	119.70
35	BB	762	C	C5-C4-N4	-8.60	114.18	120.20
85	AA	168	A	C8-N9-C4	-8.60	102.36	105.80
85	AA	787	U	C6-N1-C1'	-8.60	109.17	121.20
85	AA	1869	U	P-O5'-C5'	8.60	134.65	120.90
34	BA	837	U	P-O3'-C3'	8.59	130.01	119.70
35	BB	1061	G	N1-C6-O6	-8.59	114.75	119.90
40	BG	24	A	C2-N3-C4	-8.59	106.30	110.60
85	AA	719	C	O4'-C1'-N1	8.59	115.08	108.20
85	AA	858	G	C8-N9-C1'	8.59	138.17	127.00
50	BQ	221	ARG	NE-CZ-NH1	8.59	124.60	120.30
34	BA	527	C	C5'-C4'-C3'	-8.59	102.25	116.00
34	BA	991	U	N3-C2-O2	-8.59	116.19	122.20
85	AA	1190	G	C5-C6-O6	-8.59	123.45	128.60
11	AC	222	ARG	NE-CZ-NH2	-8.59	116.00	120.30
34	BA	489	A	P-O5'-C5'	8.59	134.64	120.90
40	BG	71	C	C2-N3-C4	-8.59	115.61	119.90
47	BN	187	TYR	CA-CB-CG	8.59	129.72	113.40
51	BR	23	ARG	NE-CZ-NH1	8.59	124.59	120.30
54	BU	20	ARG	NE-CZ-NH1	8.59	124.59	120.30
85	AA	1098	C	P-O5'-C5'	-8.59	107.16	120.90
85	AA	2033	C	P-O3'-C3'	-8.59	109.39	119.70
85	AA	2139	G	C5-C6-O6	-8.59	123.45	128.60
34	BA	384	U	C3'-C2'-C1'	-8.59	94.63	101.50
36	BC	114	C	C5'-C4'-C3'	-8.59	102.26	116.00
85	AA	1990	U	O4'-C1'-N1	8.59	115.07	108.20
34	BA	1290	A	O4'-C1'-N9	8.59	115.07	108.20
38	BE	127	G	C8-N9-C1'	8.59	138.16	127.00
39	BF	5	U	N3-C2-O2	-8.59	116.19	122.20
40	BG	110	U	P-O3'-C3'	-8.59	109.40	119.70
85	AA	983	A	N1-C6-N6	8.59	123.75	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	245	U	C2-N3-C4	-8.58	121.85	127.00
34	BA	864	G	C2-N3-C4	8.58	116.19	111.90
36	BC	167	U	P-O3'-C3'	8.58	130.00	119.70
60	Ba	35	ARG	NE-CZ-NH1	8.58	124.59	120.30
34	BA	206	C	O4'-C1'-N1	8.58	115.06	108.20
34	BA	748	C	C5'-C4'-C3'	-8.58	102.27	116.00
85	AA	210	G	C5-C6-N1	8.58	115.79	111.50
85	AA	1458	G	N3-C4-C5	-8.58	124.31	128.60
34	BA	895	U	P-O3'-C3'	8.58	129.99	119.70
34	BA	1783	C	O4'-C1'-N1	8.58	115.06	108.20
35	BB	96	A	N1-C6-N6	8.58	123.75	118.60
34	BA	53	G	C8-N9-C4	8.58	109.83	106.40
34	BA	208	A	O4'-C1'-N9	8.58	115.06	108.20
35	BB	964	G	O4'-C1'-N9	8.58	115.06	108.20
85	AA	252	G	C6-N1-C2	-8.58	119.95	125.10
85	AA	656	U	O5'-P-OP2	-8.58	97.98	105.70
35	BB	1457	A	P-O3'-C3'	-8.57	109.41	119.70
85	AA	964	C	C5'-C4'-O4'	8.57	119.39	109.10
85	AA	42	G	C5-C6-O6	-8.57	123.46	128.60
85	AA	1358	A	P-O3'-C3'	8.57	129.99	119.70
85	AA	1674	G	C4'-C3'-C2'	8.57	111.17	102.60
20	AL	81	ARG	NE-CZ-NH2	-8.57	116.01	120.30
34	BA	197	A	P-O3'-C3'	-8.57	109.42	119.70
34	BA	739	A	C2'-C3'-O3'	8.57	128.36	109.50
35	BB	62	C	O3'-P-O5'	8.57	120.29	104.00
37	BD	52	U	C5'-C4'-C3'	-8.57	102.28	116.00
34	BA	819	G	N9-C1'-C2'	-8.57	102.57	112.00
35	BB	957	A	O4'-C1'-N9	8.57	115.06	108.20
85	AA	1389	G	P-O3'-C3'	8.57	129.99	119.70
37	BD	102	C	C1'-O4'-C4'	-8.57	103.05	109.90
40	BG	112	C	C5'-C4'-C3'	-8.57	102.29	116.00
85	AA	183	C	O4'-C1'-N1	8.57	115.06	108.20
85	AA	687	G	C6-N1-C2	-8.57	119.96	125.10
85	AA	743	C	O3'-P-O5'	8.57	120.28	104.00
85	AA	1371	C	C5'-C4'-C3'	8.57	129.71	116.00
34	BA	1649	A	C4-C5-C6	-8.57	112.72	117.00
35	BB	1488	G	C4-N9-C1'	-8.57	115.36	126.50
34	BA	373	G	P-O5'-C5'	-8.57	107.19	120.90
34	BA	550	U	O5'-P-OP2	-8.57	97.99	105.70
35	BB	65	A	C5'-C4'-C3'	8.57	129.71	116.00
77	Br	181	ARG	NE-CZ-NH1	8.57	124.58	120.30
85	AA	1290	G	N1-C6-O6	8.57	125.04	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	34	G	P-O3'-C3'	-8.56	109.42	119.70
34	BA	920	U	O4'-C1'-N1	8.56	115.05	108.20
35	BB	125	G	C3'-C2'-C1'	-8.56	94.65	101.50
35	BB	812	G	C8-N9-C1'	8.56	138.13	127.00
35	BB	1397	G	N1-C6-O6	-8.56	114.76	119.90
35	BB	34	G	C5'-C4'-C3'	-8.56	102.31	116.00
35	BB	788	U	C2-N1-C1'	-8.56	107.43	117.70
35	BB	1204	C	O4'-C1'-N1	8.56	115.05	108.20
41	BH	105	U	C6-N1-C2	-8.56	115.86	121.00
44	BK	3	ARG	NE-CZ-NH1	8.56	124.58	120.30
85	AA	79	G	C4-N9-C1'	-8.56	115.38	126.50
85	AA	771	A	C5'-C4'-C3'	-8.56	102.31	116.00
34	BA	662	U	P-O3'-C3'	-8.56	109.43	119.70
35	BB	1416	A	C4'-C3'-C2'	8.56	111.16	102.60
85	AA	532	G	C4-N9-C1'	-8.56	115.38	126.50
85	AA	1175	A	O4'-C1'-N9	8.55	115.04	108.20
35	BB	845	C	C2-N1-C1'	-8.55	109.39	118.80
62	Bc	127	ARG	CD-NE-CZ	-8.55	111.63	123.60
85	AA	2064	A	C5-C6-N6	8.55	130.54	123.70
85	AA	2212	U	C5'-C4'-C3'	-8.55	102.31	116.00
35	BB	106	A	N1-C6-N6	8.55	123.73	118.60
41	BH	73	A	N1-C2-N3	-8.55	125.02	129.30
2	A1	186	ARG	NE-CZ-NH1	8.55	124.58	120.30
34	BA	609	G	N9-C1'-C2'	-8.55	102.59	112.00
35	BB	1308	G	C5-C6-O6	-8.55	123.47	128.60
35	BB	1485	G	C8-N9-C1'	8.55	138.12	127.00
41	BH	38	G	C4'-C3'-C2'	8.55	111.15	102.60
85	AA	581	A	C5'-C4'-C3'	-8.55	102.32	116.00
35	BB	709	G	C4'-C3'-C2'	8.55	111.15	102.60
36	BC	108	A	C1'-O4'-C4'	-8.55	103.06	109.90
85	AA	80	G	C4-N9-C1'	-8.55	115.39	126.50
85	AA	2112	G	P-O3'-C3'	-8.55	109.44	119.70
35	BB	1391	G	C5-C6-O6	-8.55	123.47	128.60
41	BH	101	A	C2-N3-C4	8.55	114.87	110.60
6	A5	7	ARG	NE-CZ-NH1	8.54	124.57	120.30
35	BB	778	A	C1'-O4'-C4'	-8.54	103.06	109.90
35	BB	818	U	N3-C2-O2	-8.54	116.22	122.20
35	BB	1487	G	C5-C6-O6	-8.54	123.47	128.60
53	BT	181	ARG	NE-CZ-NH1	8.54	124.57	120.30
85	AA	970	U	C4'-C3'-C2'	-8.54	94.06	102.60
34	BA	871	G	C2-N3-C4	-8.54	107.63	111.90
35	BB	782	A	C5-C6-N6	-8.54	116.86	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	657	A	O5'-P-OP1	-8.54	98.01	105.70
85	AA	375	C	C6-N1-C2	-8.54	116.88	120.30
85	AA	1576	G	P-O3'-C3'	8.54	129.95	119.70
85	AA	1863	A	N1-C6-N6	-8.54	113.47	118.60
34	BA	610	A	C5-C6-N6	-8.54	116.87	123.70
35	BB	1497	C	O4'-C1'-N1	8.54	115.03	108.20
37	BD	67	C	C6-N1-C2	-8.54	116.88	120.30
40	BG	146	C	P-O3'-C3'	8.54	129.95	119.70
85	AA	865	G	N1-C6-O6	8.54	125.02	119.90
85	AA	1137	C	P-O3'-C3'	8.54	129.94	119.70
85	AA	2108	C	O4'-C1'-N1	8.54	115.03	108.20
85	AA	2242	U	P-O3'-C3'	8.54	129.95	119.70
27	AT	83	TYR	CB-CG-CD1	8.54	126.12	121.00
34	BA	239	C	C2-N3-C4	-8.54	115.63	119.90
34	BA	1202	G	N3-C2-N2	8.54	125.88	119.90
34	BA	1451	A	P-O3'-C3'	-8.54	109.46	119.70
35	BB	128	C	C2-N1-C1'	8.54	128.19	118.80
35	BB	1357	C	C2-N1-C1'	8.53	128.19	118.80
41	BH	66	G	C4-N9-C1'	-8.54	115.40	126.50
41	BH	100	A	C2-N3-C4	8.53	114.87	110.60
85	AA	1	G	P-O3'-C3'	-8.54	109.46	119.70
85	AA	765	U	O4'-C1'-N1	8.54	115.03	108.20
85	AA	1441	G	N3-C2-N2	-8.53	113.93	119.90
85	AA	1974	C	C2-N1-C1'	8.54	128.19	118.80
1	A0	30	TYR	CB-CG-CD1	-8.53	115.88	121.00
14	AF	97	ARG	NE-CZ-NH1	8.53	124.57	120.30
34	BA	71	G	P-O3'-C3'	8.53	129.94	119.70
34	BA	310	C	P-O5'-C5'	8.53	134.55	120.90
34	BA	1222	C	C2-N3-C4	-8.53	115.63	119.90
34	BA	1811	A	P-O5'-C5'	8.53	134.55	120.90
35	BB	333	C	O4'-C1'-N1	8.53	115.03	108.20
36	BC	13	U	P-O3'-C3'	8.53	129.94	119.70
37	BD	20	C	P-O3'-C3'	8.53	129.94	119.70
37	BD	59	G	C5'-C4'-C3'	-8.53	102.35	116.00
38	BE	168	C	C6-N1-C1'	8.53	131.04	120.80
85	AA	741	G	N3-C2-N2	8.53	125.87	119.90
85	AA	1864	G	C5-C6-O6	-8.53	123.48	128.60
37	BD	107	G	C8-N9-C1'	8.53	138.09	127.00
31	AX	193	MET	CG-SD-CE	-8.53	86.56	100.20
77	Br	120	ARG	NE-CZ-NH2	-8.53	116.04	120.30
85	AA	516	G	P-O5'-C5'	-8.53	107.25	120.90
85	AA	1573	A	P-O5'-C5'	8.53	134.54	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1872	G	P-O3'-C3'	-8.53	109.47	119.70
85	AA	2070	C	C5'-C4'-C3'	-8.53	102.36	116.00
2	A1	143	ARG	NE-CZ-NH1	8.53	124.56	120.30
34	BA	14	G	C5-C6-O6	-8.53	123.48	128.60
57	BX	95	MET	CG-SD-CE	-8.53	86.56	100.20
85	AA	247	G	C5-C6-O6	-8.53	123.48	128.60
34	BA	401	A	C5-C6-N6	8.52	130.52	123.70
34	BA	1468	U	N3-C2-O2	-8.52	116.23	122.20
35	BB	444	U	C5'-C4'-C3'	8.52	129.64	116.00
35	BB	959	C	C6-N1-C2	-8.52	116.89	120.30
85	AA	1731	G	O3'-P-O5'	-8.52	87.81	104.00
85	AA	1830	U	C5'-C4'-C3'	-8.52	102.36	116.00
34	BA	921	G	P-O3'-C3'	-8.52	109.47	119.70
77	Br	43	MET	CG-SD-CE	-8.52	86.56	100.20
85	AA	1625	C	O4'-C1'-N1	8.52	115.02	108.20
34	BA	469	C	O4'-C1'-N1	8.52	115.01	108.20
35	BB	1227	G	O4'-C1'-N9	8.52	115.01	108.20
35	BB	1356	G	C6-N1-C2	-8.52	119.99	125.10
36	BC	121	G	O3'-P-O5'	-8.52	87.82	104.00
85	AA	339	A	C4-N9-C1'	-8.52	110.97	126.30
85	AA	1122	U	C2-N1-C1'	-8.52	107.48	117.70
34	BA	410	G	O3'-P-O5'	-8.51	87.82	104.00
34	BA	911	G	N1-C6-O6	-8.51	114.79	119.90
34	BA	1284	G	N1-C6-O6	-8.51	114.79	119.90
34	BA	1454	G	C6-C5-N7	-8.51	125.29	130.40
35	BB	512	C	C6-N1-C2	-8.51	116.89	120.30
35	BB	1284	U	N3-C2-O2	-8.51	116.24	122.20
36	BC	88	A	C1'-O4'-C4'	-8.51	103.09	109.90
85	AA	942	A	O5'-C5'-C4'	8.51	127.87	111.70
85	AA	1505	G	C6-N1-C2	-8.51	119.99	125.10
85	AA	1644	G	P-O5'-C5'	8.51	134.52	120.90
85	AA	15	U	N3-C2-O2	-8.51	116.24	122.20
85	AA	877	G	O4'-C1'-N9	8.51	115.01	108.20
34	BA	232	U	O4'-C4'-C3'	-8.51	95.49	104.00
36	BC	140	U	C2-N3-C4	-8.51	121.89	127.00
85	AA	28	A	C5'-C4'-C3'	8.51	129.61	116.00
41	BH	50	A	C8-N9-C4	-8.51	102.40	105.80
85	AA	567	G	O3'-P-O5'	-8.51	87.84	104.00
85	AA	819	G	N9-C1'-C2'	-8.51	102.64	112.00
85	AA	925	G	C8-N9-C1'	8.51	138.06	127.00
85	AA	1229	G	C3'-C2'-C1'	-8.51	94.69	101.50
34	BA	626	G	O4'-C1'-N9	8.51	115.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	49	C	C2-N1-C1'	8.51	128.16	118.80
85	AA	1350	A	P-O3'-C3'	8.51	129.91	119.70
6	A5	31	ARG	NE-CZ-NH2	-8.50	116.05	120.30
34	BA	431	A	N1-C6-N6	8.50	123.70	118.60
34	BA	867	C	N3-C4-C5	8.50	125.30	121.90
34	BA	944	G	P-O3'-C3'	8.50	129.90	119.70
35	BB	1141	A	C5'-C4'-O4'	8.50	119.30	109.10
85	AA	89	C	O4'-C1'-N1	8.50	115.00	108.20
85	AA	1345	C	P-O3'-C3'	8.50	129.90	119.70
85	AA	2054	G	C5'-C4'-C3'	-8.50	102.40	116.00
34	BA	228	A	C8-N9-C4	-8.50	102.40	105.80
34	BA	243	C	O4'-C1'-N1	8.50	115.00	108.20
34	BA	1202	G	P-O3'-C3'	-8.50	109.50	119.70
34	BA	1307	U	C6-N1-C2	-8.50	115.90	121.00
35	BB	1243	A	C8-N9-C4	8.50	109.20	105.80
35	BB	1475	U	C4'-C3'-C2'	-8.50	94.10	102.60
34	BA	254	U	N1-C2-O2	8.50	128.75	122.80
34	BA	548	G	C5'-C4'-O4'	-8.50	98.90	109.10
34	BA	605	G	N3-C4-N9	8.50	131.10	126.00
34	BA	684	G	O3'-P-O5'	8.50	120.14	104.00
34	BA	1283	U	C3'-C2'-C1'	-8.50	94.70	101.50
34	BA	1673	G	N3-C2-N2	8.50	125.85	119.90
34	BA	1844	U	O4'-C1'-N1	8.50	115.00	108.20
35	BB	1291	G	N3-C2-N2	8.50	125.85	119.90
58	BY	11	PHE	CB-CG-CD1	8.50	126.75	120.80
38	BE	175	U	C4'-C3'-O3'	8.50	129.99	113.00
41	BH	54	U	N3-C2-O2	-8.50	116.25	122.20
34	BA	129	U	C5'-C4'-C3'	8.49	129.59	116.00
34	BA	1081	U	P-O5'-C5'	8.49	134.49	120.90
35	BB	1479	C	O4'-C1'-N1	8.49	114.99	108.20
65	Bf	165	PHE	CB-CG-CD2	-8.49	114.86	120.80
85	AA	392	G	O4'-C1'-C2'	8.49	115.24	107.60
85	AA	736	U	C2-N1-C1'	-8.49	107.51	117.70
85	AA	2129	U	O4'-C1'-N1	8.49	114.99	108.20
34	BA	80	U	P-O3'-C3'	8.49	129.89	119.70
34	BA	1250	C	P-O3'-C3'	8.49	129.89	119.70
40	BG	16	G	N3-C4-C5	-8.49	124.36	128.60
85	AA	412	G	C5'-C4'-C3'	-8.49	102.42	116.00
20	AL	29	TYR	CA-CB-CG	8.49	129.53	113.40
34	BA	202	A	O5'-C5'-C4'	-8.49	95.58	111.70
34	BA	952	G	C4-N9-C1'	-8.49	115.47	126.50
34	BA	1301	G	C5-C6-O6	-8.49	123.51	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	137	A	P-O3'-C3'	8.49	129.88	119.70
78	Bs	52	ARG	NE-CZ-NH1	8.49	124.54	120.30
83	Bx	51	ARG	N-CA-C	8.49	133.92	111.00
85	AA	122	A	C5'-C4'-C3'	8.49	129.58	116.00
85	AA	1581	C	P-O3'-C3'	-8.49	109.52	119.70
85	AA	1974	C	C6-N1-C2	-8.49	116.91	120.30
34	BA	251	U	O3'-P-O5'	-8.48	87.88	104.00
34	BA	1610	A	P-O3'-C3'	-8.48	109.52	119.70
35	BB	1486	C	C6-N1-C2	-8.48	116.91	120.30
86	AB	55	U	O4'-C1'-N1	8.48	114.99	108.20
34	BA	174	A	C6-C5-N7	-8.48	126.36	132.30
34	BA	481	A	N3-C4-N9	-8.48	120.61	127.40
34	BA	1119	A	C5'-C4'-C3'	-8.48	102.43	116.00
40	BG	148	C	O4'-C4'-C3'	8.48	112.89	106.10
85	AA	511	A	P-O3'-C3'	-8.48	109.52	119.70
85	AA	1788	U	O4'-C1'-N1	8.48	114.99	108.20
34	BA	874	G	O5'-P-OP1	8.48	120.88	110.70
35	BB	687	C	P-O5'-C5'	8.48	134.47	120.90
35	BB	847	U	C1'-O4'-C4'	8.48	116.69	109.90
41	BH	74	G	O5'-P-OP1	8.48	120.88	110.70
85	AA	579	U	P-O5'-C5'	-8.48	107.33	120.90
27	AT	67	PHE	CB-CG-CD2	8.48	126.73	120.80
21	AM	133	ARG	NE-CZ-NH1	8.48	124.54	120.30
34	BA	269	G	C5'-C4'-O4'	8.48	119.27	109.10
34	BA	815	C	O4'-C1'-N1	8.48	114.98	108.20
34	BA	894	G	N9-C4-C5	-8.48	102.01	105.40
34	BA	1707	C	C5-C4-N4	8.48	126.13	120.20
35	BB	1130	U	C2-N1-C1'	-8.48	107.53	117.70
85	AA	767	A	P-O3'-C3'	8.48	129.87	119.70
34	BA	1354	G	C5-C6-O6	-8.47	123.52	128.60
35	BB	41	A	C6-N1-C2	-8.47	113.52	118.60
35	BB	381	C	P-O3'-C3'	8.47	129.87	119.70
35	BB	1547	U	O4'-C1'-N1	8.47	114.98	108.20
38	BE	10	G	C5'-C4'-C3'	-8.47	102.44	116.00
85	AA	1897	A	C6-N1-C2	-8.47	113.52	118.60
85	AA	2188	C	C4'-C3'-C2'	8.47	111.07	102.60
34	BA	1721	U	O4'-C4'-C3'	-8.47	95.53	104.00
35	BB	524	C	C2-N1-C1'	8.47	128.12	118.80
35	BB	847	U	P-O5'-C5'	8.47	134.46	120.90
36	BC	95	A	P-O3'-C3'	-8.47	109.53	119.70
37	BD	92	G	C5-C6-N1	8.47	115.74	111.50
37	BD	106	G	C5'-C4'-C3'	-8.47	102.45	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	9	C	C1'-O4'-C4'	-8.47	103.12	109.90
85	AA	889	G	C8-N9-C4	-8.47	103.01	106.40
85	AA	1116	G	C5-C6-O6	8.47	133.68	128.60
36	BC	124	A	C4-N9-C1'	8.47	141.54	126.30
85	AA	1491	G	O4'-C1'-N9	8.47	114.97	108.20
35	BB	1027	U	C6-N1-C2	-8.47	115.92	121.00
38	BE	141	A	P-O3'-C3'	-8.47	109.54	119.70
40	BG	104	A	C8-N9-C4	-8.47	102.41	105.80
85	AA	1255	C	C3'-C2'-C1'	-8.47	94.72	101.50
39	BF	60	C	P-O5'-C5'	8.47	134.45	120.90
41	BH	125	U	P-O3'-C3'	-8.47	109.54	119.70
34	BA	250	G	C5'-C4'-O4'	8.47	119.26	109.10
34	BA	596	G	N1-C6-O6	8.46	124.98	119.90
85	AA	234	G	N1-C6-O6	8.47	124.98	119.90
34	BA	1571	C	P-O3'-C3'	8.46	129.86	119.70
35	BB	999	G	N9-C1'-C2'	-8.46	102.69	112.00
37	BD	20	C	C6-N1-C2	-8.46	116.91	120.30
34	BA	558	C	O5'-P-OP2	-8.46	98.08	105.70
34	BA	892	C	N3-C2-O2	-8.46	115.98	121.90
35	BB	585	U	C2-N3-C4	-8.46	121.92	127.00
85	AA	2060	G	C4-N9-C1'	-8.46	115.50	126.50
34	BA	110	C	C6-N1-C2	-8.46	116.92	120.30
34	BA	185	A	N1-C6-N6	8.46	123.68	118.60
35	BB	1025	A	P-O3'-C3'	8.46	129.85	119.70
36	BC	39	G	P-O5'-C5'	8.46	134.44	120.90
65	Bf	463	ARG	NE-CZ-NH2	-8.46	116.07	120.30
85	AA	251	A	C2'-C3'-O3'	8.46	128.11	109.50
85	AA	347	U	P-O5'-C5'	-8.46	107.36	120.90
34	BA	621	G	C8-N9-C1'	8.46	138.00	127.00
38	BE	129	G	C5'-C4'-O4'	8.46	119.25	109.10
85	AA	1056	C	C2-N1-C1'	8.46	128.10	118.80
35	BB	65	A	O4'-C1'-N9	8.46	114.97	108.20
50	BQ	221	ARG	NE-CZ-NH2	-8.46	116.07	120.30
58	BY	21	TYR	CB-CG-CD2	-8.46	115.93	121.00
85	AA	495	G	C1'-O4'-C4'	-8.46	103.13	109.90
85	AA	737	G	C4-N9-C1'	8.46	137.49	126.50
34	BA	736	G	C1'-O4'-C4'	-8.46	103.14	109.90
34	BA	892	C	N3-C4-N4	-8.46	112.08	118.00
35	BB	792	G	C5-C6-O6	-8.46	123.53	128.60
35	BB	1431	G	N1-C6-O6	-8.45	114.83	119.90
35	BB	1482	A	C4'-C3'-C2'	-8.46	94.14	102.60
40	BG	118	U	C5-C6-N1	-8.45	118.47	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	270	U	C1'-O4'-C4'	-8.45	103.14	109.90
34	BA	331	G	C5-C6-O6	8.45	133.67	128.60
34	BA	486	G	O3'-P-O5'	8.45	120.06	104.00
34	BA	1088	G	C5-C6-O6	-8.45	123.53	128.60
34	BA	1116	G	P-O3'-C3'	8.45	129.84	119.70
41	BH	14	C	C2-N1-C1'	8.45	128.10	118.80
85	AA	1133	C	C5'-C4'-O4'	8.45	119.24	109.10
34	BA	1488	C	C5'-C4'-C3'	8.45	129.52	116.00
85	AA	1997	G	C5'-C4'-C3'	8.45	129.52	116.00
34	BA	888	G	C1'-O4'-C4'	-8.45	103.14	109.90
34	BA	1661	U	O4'-C1'-C2'	-8.45	97.35	105.80
34	BA	1835	A	O4'-C1'-N9	8.45	114.96	108.20
85	AA	900	G	P-O5'-C5'	8.45	134.42	120.90
85	AA	1996	A	C6-N1-C2	8.45	123.67	118.60
34	BA	468	A	O3'-P-O5'	-8.45	87.95	104.00
34	BA	502	U	C2-N3-C4	-8.45	121.93	127.00
34	BA	782	C	C2-N3-C4	-8.45	115.68	119.90
34	BA	992	A	P-O3'-C3'	-8.45	109.56	119.70
37	BD	72	U	P-O3'-C3'	8.45	129.84	119.70
85	AA	423	G	P-O3'-C3'	-8.45	109.56	119.70
35	BB	847	U	O4'-C4'-C3'	-8.44	95.56	104.00
35	BB	1141	A	O5'-C5'-C4'	8.45	127.75	111.70
85	AA	569	A	C4-N9-C1'	-8.45	111.10	126.30
38	BE	67	A	P-O3'-C3'	-8.44	109.57	119.70
85	AA	1719	C	C5'-C4'-O4'	8.44	119.23	109.10
86	AB	19	G	C5'-C4'-C3'	-8.44	102.49	116.00
34	BA	881	C	N3-C2-O2	-8.44	115.99	121.90
39	BF	37	C	C6-N1-C2	-8.44	116.92	120.30
58	BY	11	PHE	CB-CG-CD2	-8.44	114.89	120.80
85	AA	65	A	O4'-C1'-N9	8.44	114.95	108.20
34	BA	1592	U	P-O3'-C3'	-8.44	109.58	119.70
39	BF	46	G	C8-N9-C1'	8.44	137.97	127.00
85	AA	839	C	O4'-C1'-N1	8.44	114.95	108.20
85	AA	1162	A	C5'-C4'-O4'	8.44	119.22	109.10
85	AA	1715	C	C5'-C4'-C3'	-8.44	102.50	116.00
85	AA	1720	C	C6-N1-C2	-8.44	116.93	120.30
85	AA	2251	U	C2-N1-C1'	8.44	127.82	117.70
34	BA	1311	G	C5'-C4'-C3'	8.43	129.49	116.00
39	BF	54	U	C6-N1-C2	-8.43	115.94	121.00
85	AA	2008	G	C2-N3-C4	8.43	116.12	111.90
52	BS	89	TYR	CB-CG-CD1	8.43	126.06	121.00
35	BB	743	C	C6-N1-C2	-8.43	116.93	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1388	A	C5-C6-N1	8.43	121.92	117.70
85	AA	961	U	O4'-C1'-N1	8.43	114.94	108.20
85	AA	1670	U	C2-N3-C4	8.43	132.06	127.00
34	BA	1819	U	P-O5'-C5'	-8.43	107.42	120.90
40	BG	37	G	C8-N9-C1'	8.43	137.96	127.00
85	AA	1002	G	O4'-C1'-N9	8.43	114.94	108.20
41	BH	28	U	C6-N1-C2	-8.43	115.94	121.00
34	BA	253	U	O4'-C1'-N1	8.43	114.94	108.20
36	BC	25	C	N3-C4-N4	8.43	123.90	118.00
41	BH	57	A	O3'-P-O5'	-8.43	87.99	104.00
41	BH	120	C	P-O3'-C3'	8.43	129.81	119.70
85	AA	209	C	O4'-C1'-N1	8.43	114.94	108.20
85	AA	489	C	C6-N1-C2	-8.43	116.93	120.30
34	BA	50	G	C8-N9-C4	8.42	109.77	106.40
34	BA	843	G	C5'-C4'-C3'	-8.42	102.52	116.00
34	BA	1480	C	O4'-C1'-N1	8.42	114.94	108.20
35	BB	1361	A	C6-N1-C2	-8.42	113.55	118.60
83	Bx	198	ARG	NE-CZ-NH2	-8.42	116.09	120.30
85	AA	1284	A	P-O3'-C3'	-8.42	109.59	119.70
34	BA	117	C	P-O3'-C3'	-8.42	109.60	119.70
34	BA	814	C	P-O3'-C3'	-8.42	109.60	119.70
37	BD	80	G	P-O3'-C3'	-8.42	109.60	119.70
38	BE	24	G	P-O5'-C5'	-8.42	107.43	120.90
48	BO	115	ARG	NE-CZ-NH1	8.42	124.51	120.30
85	AA	124	A	C8-N9-C4	-8.42	102.43	105.80
85	AA	327	G	N9-C1'-C2'	-8.42	102.74	112.00
85	AA	967	C	P-O3'-C3'	-8.42	109.60	119.70
85	AA	1237	A	C5'-C4'-O4'	8.42	119.20	109.10
34	BA	1135	U	P-O3'-C3'	-8.42	109.60	119.70
34	BA	1335	A	O5'-C5'-C4'	-8.42	95.71	111.70
35	BB	1098	G	P-O3'-C3'	8.42	129.80	119.70
38	BE	199	A	O4'-C1'-N9	8.42	114.93	108.20
41	BH	75	G	P-O3'-C3'	8.42	129.80	119.70
53	BT	80	ARG	NE-CZ-NH1	8.42	124.51	120.30
85	AA	1282	A	C8-N9-C1'	8.42	142.85	127.70
85	AA	2062	U	C4'-C3'-C2'	8.42	111.02	102.60
4	A3	220	ARG	NE-CZ-NH1	8.41	124.51	120.30
34	BA	1078	U	C5'-C4'-C3'	-8.41	102.53	116.00
35	BB	617	C	O4'-C1'-N1	8.41	114.93	108.20
77	Br	160	TYR	CB-CG-CD2	-8.41	115.95	121.00
80	Bu	204	ARG	NE-CZ-NH1	8.41	124.51	120.30
85	AA	86	G	C5-C6-O6	-8.41	123.55	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	641	A	N1-C6-N6	-8.41	113.55	118.60
85	AA	1667	C	C6-N1-C2	-8.41	116.94	120.30
13	AE	113	TYR	CB-CG-CD2	-8.41	115.95	121.00
34	BA	336	A	C5-C6-N6	-8.41	116.97	123.70
34	BA	754	G	C6-N1-C2	-8.41	120.05	125.10
34	BA	780	U	C6-N1-C2	-8.41	115.95	121.00
34	BA	1260	G	P-O3'-C3'	-8.41	109.61	119.70
35	BB	1231	U	O4'-C4'-C3'	-8.41	95.59	104.00
37	BD	29	C	C1'-O4'-C4'	-8.41	103.17	109.90
38	BE	155	C	C2-N1-C1'	8.41	128.05	118.80
85	AA	749	C	P-O3'-C3'	8.41	129.79	119.70
41	BH	28	U	C5-C4-O4	-8.41	120.86	125.90
41	BH	123	G	C4-N9-C1'	-8.41	115.57	126.50
34	BA	1057	C	O4'-C1'-N1	8.41	114.93	108.20
39	BF	65	U	C5-C6-N1	-8.41	118.50	122.70
85	AA	987	C	C2-N3-C4	8.41	124.10	119.90
85	AA	1720	C	C5'-C4'-C3'	-8.41	102.55	116.00
34	BA	1192	A	O4'-C1'-N9	8.40	114.92	108.20
85	AA	2001	C	C6-N1-C1'	-8.40	110.71	120.80
34	BA	684	G	C4-N9-C1'	8.40	137.42	126.50
35	BB	306	U	O4'-C1'-N1	8.40	114.92	108.20
35	BB	524	C	C6-N1-C1'	-8.40	110.71	120.80
35	BB	855	G	C5-C6-O6	-8.40	123.56	128.60
37	BD	71	G	C8-N9-C1'	8.40	137.93	127.00
38	BE	100	U	C3'-C2'-C1'	-8.40	94.78	101.50
38	BE	108	U	C3'-C2'-C1'	-8.40	94.78	101.50
51	BR	86	LYS	N-CA-CB	-8.40	95.47	110.60
85	AA	163	C	C6-N1-C2	-8.40	116.94	120.30
85	AA	783	C	C6-N1-C2	-8.40	116.94	120.30
34	BA	71	G	C6-N1-C2	-8.40	120.06	125.10
34	BA	298	G	P-O3'-C3'	8.40	129.78	119.70
39	BF	3	A	P-O3'-C3'	-8.40	109.62	119.70
7	A6	39	ARG	NE-CZ-NH2	-8.40	116.10	120.30
35	BB	637	G	C8-N9-C4	-8.40	103.04	106.40
40	BG	4	A	C8-N9-C4	-8.40	102.44	105.80
85	AA	1285	C	P-O3'-C3'	-8.40	109.62	119.70
85	AA	1936	C	O4'-C1'-N1	8.40	114.92	108.20
35	BB	678	U	P-O3'-C3'	-8.40	109.62	119.70
34	BA	1690	U	O4'-C1'-N1	8.40	114.92	108.20
35	BB	775	U	C2-N3-C4	-8.40	121.96	127.00
40	BG	164	U	C5'-C4'-C3'	-8.40	102.56	116.00
47	BN	7	ALA	C-N-CA	8.40	142.69	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1483	A	C5'-C4'-C3'	-8.40	102.57	116.00
40	BG	24	A	C5'-C4'-C3'	-8.40	102.56	116.00
40	BG	76	C	N3-C4-N4	8.40	123.88	118.00
85	AA	744	C	P-O3'-C3'	-8.40	109.62	119.70
85	AA	1865	C	O4'-C1'-N1	8.40	114.92	108.20
40	BG	19	C	C6-N1-C2	-8.39	116.94	120.30
34	BA	1495	A	O4'-C1'-N9	8.39	114.92	108.20
35	BB	1462	G	N1-C6-O6	-8.39	114.86	119.90
36	BC	28	C	N1-C2-O2	-8.39	113.86	118.90
77	Br	120	ARG	NE-CZ-NH1	8.39	124.50	120.30
85	AA	773	G	C6-N1-C2	-8.39	120.06	125.10
85	AA	1655	G	P-O3'-C3'	-8.39	109.63	119.70
34	BA	723	C	C6-N1-C1'	-8.39	110.73	120.80
34	BA	1616	A	O5'-C5'-C4'	8.39	127.64	111.70
41	BH	10	U	P-O5'-C5'	-8.39	107.47	120.90
85	AA	2083	G	C5-C6-N1	8.39	115.70	111.50
85	AA	537	G	P-O3'-C3'	-8.39	109.63	119.70
85	AA	1078	A	O4'-C1'-N9	8.39	114.91	108.20
34	BA	1172	C	C4'-C3'-C2'	8.39	110.99	102.60
34	BA	1792	U	N1-C2-N3	8.39	119.93	114.90
39	BF	33	C	O5'-C5'-C4'	-8.39	95.76	111.70
85	AA	520	A	O4'-C1'-N9	8.39	114.91	108.20
85	AA	1107	A	C8-N9-C4	-8.39	102.44	105.80
34	BA	1565	U	O5'-C5'-C4'	8.39	127.63	111.70
35	BB	802	G	N3-C4-C5	-8.38	124.41	128.60
36	BC	107	C	O4'-C1'-N1	8.39	114.91	108.20
38	BE	91	G	N1-C6-O6	8.38	124.93	119.90
85	AA	1024	G	P-O3'-C3'	-8.39	109.64	119.70
40	BG	20	U	N3-C2-O2	-8.38	116.33	122.20
85	AA	3	U	O4'-C1'-N1	8.38	114.91	108.20
85	AA	586	G	C4-N9-C1'	-8.38	115.60	126.50
34	BA	745	A	P-O3'-C3'	-8.38	109.64	119.70
34	BA	1175	G	O4'-C1'-N9	8.38	114.91	108.20
35	BB	1495	U	C2-N1-C1'	-8.38	107.64	117.70
38	BE	25	U	N1-C2-N3	8.38	119.93	114.90
85	AA	622	G	C4-N9-C1'	-8.38	115.60	126.50
34	BA	76	U	C2-N3-C4	-8.38	121.97	127.00
35	BB	808	U	C6-N1-C1'	8.38	132.93	121.20
41	BH	134	U	P-O3'-C3'	8.38	129.76	119.70
35	BB	1222	A	N1-C6-N6	8.38	123.63	118.60
39	BF	69	A	P-O3'-C3'	-8.38	109.64	119.70
34	BA	575	U	C6-N1-C1'	-8.38	109.47	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	282	C	P-O5'-C5'	-8.38	107.50	120.90
85	AA	1647	G	O4'-C1'-N9	8.38	114.90	108.20
85	AA	1955	U	C1'-O4'-C4'	-8.38	103.20	109.90
34	BA	251	U	C5'-C4'-O4'	8.38	119.15	109.10
85	AA	790	A	C8-N9-C4	-8.38	102.45	105.80
85	AA	1732	G	C5-C6-O6	-8.38	123.57	128.60
34	BA	152	C	C6-N1-C2	-8.37	116.95	120.30
34	BA	732	A	N1-C6-N6	8.38	123.62	118.60
34	BA	1202	G	O4'-C1'-N9	8.38	114.90	108.20
85	AA	604	C	P-O5'-C5'	8.38	134.30	120.90
34	BA	1650	G	N1-C6-O6	-8.37	114.88	119.90
35	BB	832	C	O4'-C1'-N1	8.37	114.90	108.20
36	BC	16	A	C5-C6-N1	8.38	121.89	117.70
85	AA	2189	U	C5'-C4'-C3'	-8.38	102.60	116.00
41	BH	105	U	N3-C2-O2	-8.37	116.34	122.20
34	BA	1195	G	C8-N9-C1'	8.37	137.88	127.00
85	AA	2066	C	C3'-C2'-C1'	-8.37	94.80	101.50
35	BB	872	A	P-O5'-C5'	-8.37	107.51	120.90
37	BD	48	G	P-O5'-C5'	-8.37	107.51	120.90
38	BE	148	C	O5'-C5'-C4'	-8.37	95.79	111.70
85	AA	385	A	C1'-O4'-C4'	-8.37	103.20	109.90
85	AA	944	C	P-O3'-C3'	-8.37	109.66	119.70
35	BB	1511	U	P-O5'-C5'	-8.37	107.51	120.90
85	AA	488	G	P-O5'-C5'	8.37	134.29	120.90
85	AA	1584	U	O4'-C1'-N1	8.37	114.90	108.20
34	BA	228	A	C6-N1-C2	-8.37	113.58	118.60
85	AA	584	G	C5-C6-O6	-8.37	123.58	128.60
34	BA	384	U	C4-C5-C6	-8.37	114.68	119.70
35	BB	1230	A	C5-C6-N6	-8.37	117.01	123.70
38	BE	8	G	C6-N1-C2	-8.37	120.08	125.10
85	AA	1586	C	O4'-C1'-N1	8.37	114.89	108.20
85	AA	1991	C	N3-C4-C5	-8.37	118.55	121.90
34	BA	35	U	C2-N3-C4	-8.36	121.98	127.00
34	BA	486	G	C6-N1-C2	-8.36	120.08	125.10
34	BA	1071	G	C8-N9-C1'	8.36	137.87	127.00
35	BB	266	C	O4'-C1'-N1	8.36	114.89	108.20
35	BB	497	C	O4'-C1'-N1	8.36	114.89	108.20
35	BB	1115	G	C8-N9-C1'	8.37	137.87	127.00
54	BU	86	ARG	NE-CZ-NH1	8.37	124.48	120.30
35	BB	127	U	P-O5'-C5'	8.36	134.28	120.90
34	BA	596	G	C8-N9-C1'	-8.36	116.13	127.00
37	BD	17	G	C5-C6-O6	-8.36	123.58	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BN	7	ALA	CB-CA-C	8.36	122.64	110.10
85	AA	196	U	P-O3'-C3'	8.36	129.73	119.70
34	BA	1661	U	P-O5'-C5'	-8.36	107.52	120.90
34	BA	937	G	N3-C2-N2	8.36	125.75	119.90
35	BB	840	C	C4'-C3'-C2'	8.36	110.96	102.60
35	BB	1221	G	N1-C6-O6	-8.36	114.88	119.90
85	AA	21	U	C2-N3-C4	-8.36	121.98	127.00
85	AA	818	C	N3-C4-C5	-8.36	118.56	121.90
85	AA	552	C	C1'-O4'-C4'	-8.36	103.21	109.90
85	AA	686	U	C4'-C3'-C2'	-8.36	94.24	102.60
85	AA	1542	A	N1-C6-N6	-8.36	113.59	118.60
34	BA	482	C	O3'-P-O5'	8.36	119.87	104.00
34	BA	727	G	N1-C6-O6	-8.36	114.89	119.90
35	BB	51	U	C5'-C4'-O4'	8.36	119.13	109.10
35	BB	145	G	C8-N9-C1'	8.36	137.86	127.00
35	BB	366	G	C1'-O4'-C4'	-8.36	103.22	109.90
41	BH	109	G	C4-N9-C1'	-8.36	115.64	126.50
85	AA	414	C	C3'-C2'-C1'	-8.36	94.81	101.50
85	AA	55	A	P-O5'-C5'	-8.36	107.53	120.90
85	AA	62	A	P-O5'-C5'	-8.36	107.53	120.90
85	AA	1865	C	C6-N1-C2	-8.36	116.96	120.30
85	AA	2128	G	C8-N9-C1'	8.36	137.86	127.00
85	AA	2238	C	O4'-C1'-C2'	8.36	115.12	107.60
34	BA	1507	C	C6-N1-C2	-8.35	116.96	120.30
34	BA	147	U	C4-C5-C6	-8.35	114.69	119.70
34	BA	154	A	N1-C6-N6	8.35	123.61	118.60
85	AA	684	G	C5-C6-O6	-8.35	123.59	128.60
85	AA	820	G	C5-N7-C8	8.35	108.48	104.30
34	BA	488	C	C6-N1-C1'	-8.35	110.78	120.80
34	BA	888	G	C4-N9-C1'	-8.35	115.64	126.50
34	BA	1792	U	O4'-C1'-N1	8.35	114.88	108.20
37	BD	68	C	C3'-C2'-C1'	-8.35	94.82	101.50
80	Bu	30	TYR	CB-CG-CD1	8.35	126.01	121.00
85	AA	987	C	N3-C4-C5	-8.35	118.56	121.90
85	AA	1281	G	C5-C6-O6	-8.35	123.59	128.60
85	AA	1603	G	C5-C6-O6	-8.35	123.59	128.60
34	BA	732	A	C5-C6-N6	-8.35	117.02	123.70
38	BE	83	U	C4'-C3'-C2'	-8.35	94.25	102.60
35	BB	1498	G	C8-N9-C4	8.35	109.74	106.40
38	BE	67	A	C5'-C4'-C3'	-8.35	102.64	116.00
85	AA	767	A	O5'-C5'-C4'	8.35	127.56	111.70
85	AA	1427	A	O4'-C1'-N9	8.35	114.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2249	U	P-O3'-C3'	8.35	129.72	119.70
22	AO	60	ARG	NE-CZ-NH1	8.35	124.47	120.30
34	BA	754	G	O4'-C1'-N9	8.35	114.88	108.20
41	BH	3	U	C4'-C3'-C2'	8.35	110.95	102.60
41	BH	41	A	C4-N9-C1'	-8.35	111.28	126.30
85	AA	607	U	O4'-C1'-N1	8.35	114.88	108.20
34	BA	500	C	C2-N1-C1'	-8.34	109.62	118.80
35	BB	1534	U	C2-N1-C1'	-8.34	107.69	117.70
38	BE	97	G	C3'-C2'-C1'	-8.34	94.83	101.50
39	BF	22	U	C6-N1-C2	-8.34	115.99	121.00
40	BG	80	G	N1-C6-O6	-8.34	114.89	119.90
41	BH	51	C	O4'-C1'-N1	8.34	114.87	108.20
85	AA	1155	A	C5-C6-N6	-8.34	117.03	123.70
85	AA	2076	C	C5'-C4'-C3'	8.34	129.35	116.00
85	AA	1536	C	C6-N1-C2	-8.34	116.96	120.30
26	AS	119	ARG	N-CA-CB	-8.34	95.59	110.60
34	BA	870	C	OP1-P-OP2	8.34	132.11	119.60
37	BD	82	G	N1-C6-O6	-8.34	114.90	119.90
85	AA	2164	G	P-O3'-C3'	-8.34	109.69	119.70
35	BB	716	G	C8-N9-C4	-8.34	103.06	106.40
35	BB	1004	A	C1'-O4'-C4'	-8.34	103.23	109.90
85	AA	817	G	O3'-P-O5'	-8.34	88.15	104.00
85	AA	1476	C	C4'-C3'-C2'	8.34	110.94	102.60
34	BA	1069	U	O4'-C1'-N1	8.34	114.87	108.20
34	BA	1079	C	N3-C4-C5	-8.34	118.56	121.90
35	BB	706	G	C5-C6-N1	8.34	115.67	111.50
35	BB	788	U	C5'-C4'-C3'	8.34	129.34	116.00
41	BH	80	C	O4'-C1'-N1	8.34	114.87	108.20
34	BA	1406	U	P-O3'-C3'	-8.34	109.70	119.70
34	BA	1502	G	P-O3'-C3'	-8.34	109.70	119.70
35	BB	557	C	C6-N1-C1'	8.34	130.80	120.80
85	AA	981	A	O4'-C1'-N9	8.34	114.87	108.20
85	AA	1454	U	O4'-C1'-N1	8.34	114.87	108.20
85	AA	1492	U	N3-C2-O2	-8.34	116.36	122.20
34	BA	134	U	C6-N1-C1'	8.33	132.87	121.20
34	BA	1730	A	O4'-C1'-N9	8.33	114.87	108.20
35	BB	1039	A	P-O3'-C3'	8.33	129.70	119.70
63	Bd	61	GLU	CG-CD-OE1	-8.33	101.63	118.30
68	Bi	20	ARG	NE-CZ-NH1	8.33	124.47	120.30
5	A4	71	ARG	NE-CZ-NH2	-8.33	116.14	120.30
35	BB	1036	G	C4-N9-C1'	-8.33	115.67	126.50
34	BA	53	G	C5-C6-N1	8.33	115.66	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	315	U	O3'-P-O5'	-8.33	88.17	104.00
34	BA	681	G	O4'-C1'-N9	-8.33	101.54	108.20
34	BA	1652	G	N9-C1'-C2'	-8.33	102.84	112.00
35	BB	391	G	C4-N9-C1'	-8.33	115.67	126.50
85	AA	448	G	P-O3'-C3'	-8.33	109.70	119.70
85	AA	1014	U	O4'-C1'-N1	8.33	114.86	108.20
34	BA	174	A	C5'-C4'-C3'	-8.33	102.68	116.00
34	BA	773	A	P-O3'-C3'	-8.33	109.71	119.70
38	BE	37	C	C2-N1-C1'	8.33	127.96	118.80
34	BA	1846	G	P-O5'-C5'	-8.33	107.58	120.90
40	BG	5	G	O4'-C1'-N9	8.33	114.86	108.20
60	Ba	115	PHE	CB-CG-CD2	-8.33	114.97	120.80
85	AA	464	A	C5'-C4'-C3'	-8.33	102.68	116.00
85	AA	485	A	P-O3'-C3'	-8.33	109.71	119.70
85	AA	2186	U	C2-N3-C4	-8.33	122.00	127.00
34	BA	1054	U	C2-N3-C4	-8.32	122.01	127.00
35	BB	796	C	P-O3'-C3'	-8.32	109.71	119.70
35	BB	973	G	C8-N9-C4	-8.32	103.07	106.40
85	AA	532	G	C8-N9-C1'	8.32	137.82	127.00
85	AA	1521	U	C5'-C4'-C3'	-8.32	102.68	116.00
38	BE	42	C	O4'-C1'-N1	8.32	114.86	108.20
41	BH	79	A	N1-C6-N6	8.32	123.59	118.60
53	BT	181	ARG	NE-CZ-NH2	-8.32	116.14	120.30
35	BB	1328	C	C5'-C4'-C3'	8.32	129.31	116.00
35	BB	999	G	P-O3'-C3'	-8.32	109.72	119.70
40	BG	167	C	C6-N1-C2	-8.32	116.97	120.30
67	Bh	38	TRP	CB-CA-C	-8.32	93.76	110.40
85	AA	415	G	C4-N9-C1'	-8.32	115.68	126.50
85	AA	752	C	C6-N1-C2	-8.32	116.97	120.30
85	AA	1101	C	O4'-C1'-N1	8.32	114.86	108.20
34	BA	797	A	O4'-C1'-N9	8.32	114.85	108.20
35	BB	472	C	P-O3'-C3'	-8.32	109.72	119.70
35	BB	1132	A	O4'-C1'-N9	8.32	114.85	108.20
38	BE	123	A	C8-N9-C4	8.32	109.13	105.80
38	BE	184	G	C8-N9-C1'	8.32	137.81	127.00
85	AA	444	U	P-O5'-C5'	8.32	134.21	120.90
85	AA	568	C	C6-N1-C2	-8.32	116.97	120.30
34	BA	330	A	C8-N9-C4	8.31	109.12	105.80
36	BC	27	U	N3-C2-O2	8.31	128.02	122.20
38	BE	198	A	N9-C4-C5	-8.31	102.47	105.80
85	AA	1140	G	O4'-C1'-N9	8.31	114.85	108.20
85	AA	927	A	C5'-C4'-C3'	-8.31	102.70	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1545	U	P-O3'-C3'	8.31	129.68	119.70
4	A3	73	ARG	NE-CZ-NH1	8.31	124.46	120.30
35	BB	504	C	N3-C4-C5	-8.31	118.58	121.90
35	BB	690	C	P-O3'-C3'	-8.31	109.72	119.70
35	BB	979	G	O4'-C1'-N9	8.31	114.85	108.20
85	AA	788	G	P-O5'-C5'	8.31	134.20	120.90
85	AA	1159	C	C5'-C4'-O4'	-8.31	99.13	109.10
35	BB	717	A	C5'-C4'-C3'	-8.31	102.70	116.00
35	BB	736	G	C5-C6-O6	-8.31	123.61	128.60
67	Bh	36	ARG	NE-CZ-NH1	8.31	124.45	120.30
69	Bj	71	HIS	CA-CB-CG	8.31	127.73	113.60
85	AA	927	A	C5-C6-N1	8.31	121.86	117.70
85	AA	1955	U	C4'-C3'-C2'	-8.31	94.29	102.60
34	BA	526	C	C1'-O4'-C4'	-8.31	103.25	109.90
34	BA	1776	G	C8-N9-C1'	8.31	137.80	127.00
85	AA	366	A	P-O3'-C3'	-8.31	109.73	119.70
34	BA	280	A	O5'-C5'-C4'	-8.30	95.92	111.70
34	BA	623	U	P-O5'-C5'	-8.30	107.61	120.90
34	BA	774	A	N1-C6-N6	-8.30	113.62	118.60
34	BA	1197	U	C2'-C3'-O3'	8.30	127.77	109.50
34	BA	1478	G	C8-N9-C4	-8.30	103.08	106.40
35	BB	1054	G	N3-C2-N2	8.30	125.71	119.90
35	BB	1228	A	O4'-C1'-N9	8.30	114.84	108.20
85	AA	1479	U	P-O3'-C3'	-8.31	109.73	119.70
35	BB	1474	A	C5'-C4'-C3'	8.30	129.29	116.00
37	BD	57	C	C5'-C4'-C3'	-8.30	102.72	116.00
37	BD	108	G	C4-N9-C1'	-8.30	115.71	126.50
38	BE	141	A	C1'-O4'-C4'	-8.30	103.26	109.90
85	AA	1112	G	C5-C6-O6	-8.30	123.62	128.60
85	AA	1668	G	C8-N9-C1'	8.30	137.80	127.00
34	BA	166	G	O4'-C1'-N9	8.30	114.84	108.20
38	BE	57	U	P-O5'-C5'	8.30	134.18	120.90
85	AA	781	G	P-O3'-C3'	-8.30	109.74	119.70
85	AA	1640	G	C5-C6-O6	-8.30	123.62	128.60
12	AD	54	ARG	NE-CZ-NH1	8.30	124.45	120.30
34	BA	777	C	O4'-C1'-N1	8.30	114.84	108.20
35	BB	902	C	P-O5'-C5'	-8.30	107.62	120.90
35	BB	1194	A	N1-C6-N6	8.30	123.58	118.60
34	BA	1626	U	C1'-O4'-C4'	8.30	116.54	109.90
44	BK	21	ARG	NE-CZ-NH1	8.30	124.45	120.30
85	AA	675	A	O4'-C1'-N9	8.30	114.84	108.20
85	AA	1656	C	O4'-C1'-N1	8.30	114.84	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	100	A	C5'-C4'-C3'	8.29	129.27	116.00
34	BA	1442	A	C5-C6-N1	8.30	121.85	117.70
34	BA	113	G	O4'-C1'-N9	8.29	114.83	108.20
35	BB	1124	G	N1-C6-O6	8.29	124.88	119.90
38	BE	174	U	C2-N3-C4	-8.30	122.02	127.00
85	AA	189	G	C4-N9-C1'	-8.29	115.72	126.50
85	AA	1013	C	O4'-C1'-N1	8.29	114.83	108.20
34	BA	294	C	C2-N3-C4	-8.29	115.75	119.90
35	BB	762	C	N3-C4-N4	8.29	123.81	118.00
35	BB	1108	G	C5-C6-N1	8.29	115.65	111.50
38	BE	84	U	O4'-C1'-N1	8.29	114.83	108.20
35	BB	365	U	C4'-C3'-C2'	8.29	110.89	102.60
38	BE	88	G	P-O3'-C3'	8.29	129.65	119.70
85	AA	960	G	N7-C8-N9	8.29	117.25	113.10
37	BD	3	G	C4-N9-C1'	-8.29	115.72	126.50
85	AA	636	G	C5'-C4'-C3'	-8.29	102.74	116.00
34	BA	201	A	O4'-C1'-N9	8.29	114.83	108.20
37	BD	71	G	C4-N9-C1'	-8.29	115.72	126.50
38	BE	15	A	O3'-P-O5'	8.29	119.75	104.00
85	AA	474	C	N3-C2-O2	-8.29	116.10	121.90
85	AA	1253	G	C3'-C2'-C1'	-8.29	94.87	101.50
85	AA	1663	U	C2-N3-C4	-8.29	122.03	127.00
86	AB	6	G	O4'-C1'-N9	8.29	114.83	108.20
85	AA	747	U	O4'-C1'-N1	8.29	114.83	108.20
85	AA	936	C	P-O3'-C3'	8.29	129.65	119.70
85	AA	1420	U	P-O3'-C3'	8.29	129.65	119.70
85	AA	1779	C	O4'-C1'-N1	8.29	114.83	108.20
85	AA	1828	C	C5'-C4'-C3'	-8.29	102.74	116.00
34	BA	1489	U	P-O3'-C3'	-8.29	109.76	119.70
34	BA	1502	G	C5-C6-N1	8.29	115.64	111.50
2	A1	88	GLU	N-CA-CB	8.28	125.51	110.60
34	BA	502	U	C5'-C4'-C3'	-8.28	102.75	116.00
35	BB	852	G	C4'-C3'-C2'	-8.28	94.32	102.60
37	BD	108	G	C5'-C4'-C3'	-8.29	102.74	116.00
77	Br	250	TRP	CB-CG-CD2	-8.28	115.83	126.60
85	AA	370	A	O4'-C4'-C3'	-8.28	95.72	104.00
85	AA	1207	C	C5'-C4'-C3'	-8.29	102.74	116.00
34	BA	393	G	O4'-C1'-N9	8.28	114.83	108.20
34	BA	614	A	P-O3'-C3'	-8.28	109.76	119.70
40	BG	176	G	C4-N9-C1'	-8.28	115.73	126.50
34	BA	348	U	C1'-O4'-C4'	-8.28	103.28	109.90
34	BA	642	U	N3-C4-O4	-8.28	113.60	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	744	G	C8-N9-C4	-8.28	103.09	106.40
35	BB	379	U	C3'-C2'-C1'	-8.28	94.88	101.50
35	BB	1514	G	C4-N9-C1'	-8.28	115.73	126.50
41	BH	96	G	N1-C6-O6	8.28	124.87	119.90
85	AA	83	U	C6-N1-C2	-8.28	116.03	121.00
85	AA	207	G	C8-N9-C1'	-8.28	116.23	127.00
85	AA	407	G	P-O5'-C5'	8.28	134.15	120.90
85	AA	1094	G	O4'-C1'-N9	8.28	114.83	108.20
34	BA	1084	A	C5-C6-N6	8.28	130.32	123.70
40	BG	95	U	N3-C2-O2	-8.28	116.40	122.20
85	AA	921	C	C6-N1-C1'	-8.28	110.86	120.80
38	BE	129	G	P-O5'-C5'	8.28	134.14	120.90
85	AA	771	A	C2-N3-C4	8.28	114.74	110.60
85	AA	820	G	C1'-O4'-C4'	-8.28	103.28	109.90
34	BA	204	U	P-O5'-C5'	-8.28	107.66	120.90
34	BA	587	U	C5'-C4'-O4'	8.28	119.03	109.10
34	BA	1494	G	C5'-C4'-C3'	-8.28	102.76	116.00
35	BB	839	G	O3'-P-O5'	8.28	119.72	104.00
35	BB	1529	G	N1-C6-O6	8.28	124.86	119.90
38	BE	173	G	N1-C6-O6	8.28	124.87	119.90
74	Bo	8	MET	CG-SD-CE	-8.28	86.96	100.20
2	A1	100	TYR	CB-CG-CD1	-8.27	116.04	121.00
16	AH	124	ASP	N-CA-CB	8.27	125.49	110.60
34	BA	322	U	C2-N1-C1'	-8.27	107.77	117.70
34	BA	882	G	C8-N9-C4	-8.27	103.09	106.40
35	BB	1478	G	P-O3'-C3'	-8.27	109.77	119.70
38	BE	121	G	N1-C6-O6	8.27	124.86	119.90
38	BE	175	U	C2-N1-C1'	-8.27	107.77	117.70
34	BA	189	G	C6-N1-C2	-8.27	120.14	125.10
39	BF	23	G	O4'-C1'-N9	8.27	114.82	108.20
41	BH	44	A	N1-C6-N6	8.27	123.56	118.60
34	BA	501	U	C5'-C4'-C3'	8.27	129.23	116.00
34	BA	782	C	C5-C4-N4	-8.27	114.41	120.20
34	BA	840	U	C5'-C4'-C3'	-8.27	102.77	116.00
34	BA	1482	A	N1-C6-N6	-8.27	113.64	118.60
37	BD	85	C	C2-N3-C4	-8.27	115.76	119.90
41	BH	118	U	C4'-C3'-C2'	8.27	110.87	102.60
85	AA	1125	G	C8-N9-C4	8.27	109.71	106.40
86	AB	8	U	C1'-O4'-C4'	-8.27	103.28	109.90
35	BB	388	C	C5'-C4'-C3'	-8.27	102.77	116.00
35	BB	1506	C	P-O3'-C3'	8.27	129.62	119.70
85	AA	1199	C	P-O5'-C5'	-8.27	107.67	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1586	C	C3'-C2'-C1'	-8.27	94.89	101.50
35	BB	66	G	P-O3'-C3'	-8.27	109.78	119.70
85	AA	659	A	C1'-O4'-C4'	-8.27	103.29	109.90
35	BB	863	U	O4'-C1'-N1	8.27	114.81	108.20
35	BB	1102	U	C2-N3-C4	-8.27	122.04	127.00
36	BC	47	C	C6-N1-C2	-8.27	116.99	120.30
85	AA	201	U	C6-N1-C2	-8.27	116.04	121.00
85	AA	578	U	O4'-C1'-N1	8.27	114.81	108.20
85	AA	909	C	C2-N1-C1'	8.27	127.89	118.80
85	AA	2197	A	C8-N9-C4	-8.27	102.49	105.80
85	AA	86	G	C5'-C4'-O4'	-8.26	99.18	109.10
35	BB	871	C	C6-N1-C1'	8.26	130.71	120.80
85	AA	147	G	C5-C6-O6	-8.26	123.64	128.60
85	AA	557	G	O4'-C1'-N9	8.26	114.81	108.20
85	AA	818	C	O4'-C1'-N1	8.26	114.81	108.20
34	BA	624	G	C8-N9-C4	-8.26	103.10	106.40
41	BH	128	G	C6-N1-C2	-8.26	120.14	125.10
85	AA	2014	G	P-O5'-C5'	-8.26	107.68	120.90
38	BE	1	U	C6-N1-C2	-8.26	116.05	121.00
61	Bb	19	TYR	CB-CG-CD2	-8.26	116.05	121.00
61	Bb	42	ARG	NE-CZ-NH2	-8.26	116.17	120.30
85	AA	771	A	P-O5'-C5'	8.26	134.12	120.90
85	AA	1010	U	C2-N1-C1'	-8.26	107.79	117.70
34	BA	301	U	C2-N1-C1'	-8.26	107.79	117.70
34	BA	1027	C	C6-N1-C2	-8.26	117.00	120.30
34	BA	1260	G	C1'-O4'-C4'	-8.26	103.29	109.90
38	BE	191	U	C5'-C4'-C3'	-8.26	102.79	116.00
85	AA	493	A	P-O5'-C5'	-8.26	107.69	120.90
86	AB	7	A	C5-C6-N6	-8.26	117.09	123.70
34	BA	631	G	N1-C6-O6	8.26	124.85	119.90
34	BA	1354	G	C1'-O4'-C4'	-8.26	103.30	109.90
34	BA	1562	G	N9-C4-C5	-8.26	102.10	105.40
35	BB	1212	C	N3-C4-C5	-8.26	118.60	121.90
37	BD	25	G	C8-N9-C1'	8.26	137.73	127.00
35	BB	534	C	O4'-C1'-N1	8.25	114.80	108.20
41	BH	41	A	O4'-C1'-C2'	8.25	115.03	107.60
34	BA	201	A	N9-C4-C5	8.25	109.10	105.80
34	BA	882	G	C5-C6-N1	8.25	115.63	111.50
41	BH	100	A	OP1-P-OP2	-8.25	107.22	119.60
85	AA	509	C	C5'-C4'-C3'	-8.25	102.80	116.00
85	AA	540	A	C1'-O4'-C4'	-8.25	103.30	109.90
36	BC	7	U	C4'-C3'-C2'	-8.25	94.35	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	121	G	P-O3'-C3'	-8.25	109.80	119.70
33	AZ	89	MET	CG-SD-CE	-8.25	87.00	100.20
34	BA	895	U	O4'-C4'-C3'	-8.25	95.75	104.00
85	AA	788	G	C5'-C4'-C3'	8.25	129.20	116.00
85	AA	863	C	P-O5'-C5'	-8.25	107.70	120.90
85	AA	2082	C	C6-N1-C1'	-8.25	110.90	120.80
34	BA	118	C	N3-C4-N4	-8.25	112.23	118.00
34	BA	123	C	O4'-C1'-N1	8.25	114.80	108.20
34	BA	1483	U	P-O3'-C3'	-8.25	109.80	119.70
35	BB	64	U	C2-N3-C4	-8.25	122.05	127.00
34	BA	952	G	C8-N9-C1'	8.25	137.72	127.00
34	BA	1443	U	C4'-C3'-C2'	-8.25	94.35	102.60
82	Bw	33	PHE	CB-CG-CD1	8.25	126.57	120.80
34	BA	206	C	C6-N1-C2	-8.24	117.00	120.30
34	BA	239	C	C1'-O4'-C4'	-8.24	103.31	109.90
35	BB	506	G	N1-C6-O6	-8.24	114.95	119.90
40	BG	44	G	C3'-C2'-C1'	-8.24	94.90	101.50
85	AA	426	C	C1'-O4'-C4'	-8.24	103.31	109.90
35	BB	799	A	C5-C6-N6	-8.24	117.11	123.70
85	AA	857	G	P-O3'-C3'	-8.24	109.81	119.70
85	AA	1973	G	C5'-C4'-C3'	-8.24	102.81	116.00
34	BA	861	C	O4'-C1'-N1	8.24	114.79	108.20
34	BA	1413	G	O5'-P-OP1	8.24	120.59	110.70
35	BB	363	A	C5'-C4'-O4'	8.24	118.99	109.10
35	BB	866	A	C5'-C4'-C3'	-8.24	102.82	116.00
35	BB	1024	G	N7-C8-N9	8.24	117.22	113.10
36	BC	82	C	C5-C4-N4	-8.24	114.43	120.20
37	BD	54	A	N1-C6-N6	8.24	123.54	118.60
85	AA	982	G	C5'-C4'-C3'	-8.24	102.82	116.00
19	AK	115	TYR	CB-CG-CD2	-8.24	116.06	121.00
34	BA	526	C	N1-C1'-C2'	-8.24	102.94	112.00
34	BA	1832	A	P-O3'-C3'	8.24	129.59	119.70
47	BN	31	PHE	CB-CG-CD1	8.24	126.57	120.80
34	BA	513	U	N1-C2-N3	8.24	119.84	114.90
34	BA	1089	U	P-O3'-C3'	-8.24	109.82	119.70
34	BA	1149	C	N3-C4-N4	-8.24	112.23	118.00
35	BB	2	C	C4-C5-C6	-8.24	113.28	117.40
85	AA	899	A	O4'-C4'-C3'	-8.24	95.76	104.00
85	AA	1919	G	N1-C6-O6	8.24	124.84	119.90
34	BA	1495	A	C5'-C4'-O4'	8.23	118.98	109.10
34	BA	336	A	N1-C6-N6	8.23	123.54	118.60
34	BA	588	C	P-O5'-C5'	8.23	134.07	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	84	U	C1'-O4'-C4'	-8.23	103.31	109.90
34	BA	398	G	N3-C2-N2	-8.23	114.14	119.90
34	BA	935	A	P-O3'-C3'	-8.23	109.82	119.70
34	BA	1615	A	O3'-P-O5'	8.23	119.64	104.00
36	BC	23	G	C1'-O4'-C4'	-8.23	103.31	109.90
85	AA	1098	C	O5'-C5'-C4'	-8.23	96.06	111.70
35	BB	1260	A	N1-C6-N6	-8.23	113.66	118.60
85	AA	270	A	C8-N9-C1'	8.23	142.51	127.70
85	AA	1500	C	O4'-C1'-N1	8.23	114.78	108.20
34	BA	833	U	O4'-C1'-N1	8.23	114.78	108.20
34	BA	1100	A	C8-N9-C4	8.23	109.09	105.80
35	BB	52	G	N9-C1'-C2'	-8.23	102.95	112.00
35	BB	1016	C	P-O3'-C3'	-8.23	109.83	119.70
35	BB	1226	G	P-O3'-C3'	8.23	129.57	119.70
85	AA	28	A	N1-C6-N6	-8.23	113.66	118.60
34	BA	400	A	C5'-C4'-C3'	-8.23	102.84	116.00
34	BA	557	U	O3'-P-O5'	8.23	119.63	104.00
34	BA	617	G	N1-C6-O6	-8.23	114.96	119.90
34	BA	690	G	C5-C6-O6	-8.23	123.66	128.60
34	BA	1085	G	P-O3'-C3'	8.23	129.57	119.70
35	BB	1389	C	O4'-C1'-N1	8.23	114.78	108.20
85	AA	363	A	C1'-O4'-C4'	-8.23	103.32	109.90
85	AA	805	A	P-O3'-C3'	8.23	129.57	119.70
85	AA	1589	G	C4-N9-C1'	-8.23	115.81	126.50
35	BB	736	G	O3'-P-O5'	-8.22	88.37	104.00
35	BB	1108	G	N1-C6-O6	-8.22	114.97	119.90
34	BA	311	C	P-O3'-C3'	8.22	129.57	119.70
34	BA	1411	C	O4'-C1'-N1	8.22	114.78	108.20
34	BA	1451	A	P-O5'-C5'	-8.22	107.74	120.90
44	BK	139	ARG	NE-CZ-NH1	8.22	124.41	120.30
85	AA	487	G	C1'-O4'-C4'	-8.22	103.32	109.90
85	AA	495	G	C3'-C2'-C1'	-8.22	94.92	101.50
85	AA	765	U	C5'-C4'-O4'	8.22	118.97	109.10
34	BA	1077	G	C5-C6-O6	-8.22	123.67	128.60
4	A3	203	ARG	NE-CZ-NH1	8.22	124.41	120.30
35	BB	474	G	C8-N9-C4	8.22	109.69	106.40
35	BB	1071	G	C8-N9-C1'	8.22	137.69	127.00
37	BD	95	G	C8-N9-C1'	8.22	137.69	127.00
40	BG	95	U	N1-C2-O2	8.22	128.56	122.80
85	AA	198	U	O4'-C1'-N1	8.22	114.78	108.20
85	AA	210	G	P-O5'-C5'	8.22	134.05	120.90
85	AA	417	U	C4'-C3'-C2'	-8.22	94.38	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	916	A	P-O5'-C5'	-8.22	107.75	120.90
85	AA	1363	U	C6-N1-C2	-8.22	116.07	121.00
85	AA	1695	G	C8-N9-C4	8.22	109.69	106.40
86	AB	8	U	C5'-C4'-C3'	8.22	129.15	116.00
35	BB	870	C	P-O3'-C3'	-8.22	109.84	119.70
35	BB	964	G	C5-C6-O6	-8.22	123.67	128.60
85	AA	155	U	O4'-C1'-N1	8.22	114.77	108.20
85	AA	352	G	C8-N9-C4	8.22	109.69	106.40
85	AA	1690	A	C8-N9-C4	8.22	109.09	105.80
34	BA	210	G	C4'-C3'-C2'	8.21	110.81	102.60
37	BD	78	C	C2-N1-C1'	-8.22	109.76	118.80
85	AA	8	U	C4'-C3'-C2'	8.22	110.82	102.60
34	BA	449	G	O4'-C1'-N9	8.21	114.77	108.20
85	AA	1439	A	P-O3'-C3'	-8.21	109.84	119.70
34	BA	61	G	C4-N9-C1'	-8.21	115.82	126.50
34	BA	258	C	C1'-O4'-C4'	-8.21	103.33	109.90
34	BA	295	G	C6-N1-C2	-8.21	120.17	125.10
34	BA	793	A	N1-C6-N6	8.21	123.53	118.60
35	BB	1178	A	C5'-C4'-O4'	8.21	118.95	109.10
34	BA	1321	A	C1'-O4'-C4'	-8.21	103.33	109.90
36	BC	165	U	P-O3'-C3'	-8.21	109.85	119.70
39	BF	47	C	O4'-C1'-N1	8.21	114.77	108.20
52	BS	89	TYR	CA-CB-CG	8.21	129.00	113.40
85	AA	194	U	C2-N1-C1'	-8.21	107.84	117.70
85	AA	494	G	C1'-O4'-C4'	-8.21	103.33	109.90
85	AA	1458	G	N9-C4-C5	8.21	108.69	105.40
85	AA	1720	C	C2'-C3'-O3'	8.21	127.57	109.50
85	AA	674	U	C6-N1-C1'	8.21	132.69	121.20
85	AA	722	G	C8-N9-C1'	8.21	137.67	127.00
34	BA	300	C	N3-C2-O2	-8.21	116.15	121.90
34	BA	763	U	C5-C4-O4	-8.21	120.97	125.90
35	BB	983	C	O4'-C1'-N1	8.21	114.77	108.20
85	AA	1116	G	C5-C6-N1	8.21	115.60	111.50
34	BA	763	U	P-O3'-C3'	8.21	129.54	119.70
34	BA	875	G	C6-N1-C2	-8.21	120.18	125.10
34	BA	1675	C	C2-N1-C1'	-8.21	109.77	118.80
34	BA	1688	G	P-O3'-C3'	8.21	129.55	119.70
36	BC	139	A	C5'-C4'-C3'	8.21	129.13	116.00
41	BH	74	G	N1-C2-N3	-8.21	118.98	123.90
43	BJ	212	ARG	NE-CZ-NH1	8.21	124.40	120.30
85	AA	373	G	N9-C1'-C2'	-8.21	102.97	112.00
85	AA	394	C	O4'-C1'-N1	8.20	114.76	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	600	C	C5'-C4'-C3'	8.20	129.13	116.00
85	AA	1450	U	O4'-C1'-N1	8.21	114.76	108.20
34	BA	280	A	N1-C6-N6	8.20	123.52	118.60
34	BA	680	C	O5'-P-OP2	8.20	120.54	110.70
34	BA	1200	U	C6-N1-C1'	-8.20	109.72	121.20
36	BC	30	U	P-O3'-C3'	8.20	129.54	119.70
40	BG	164	U	C4-C5-C6	-8.20	114.78	119.70
34	BA	1205	A	C4-C5-C6	-8.20	112.90	117.00
76	Bq	25	TYR	CB-CG-CD2	-8.20	116.08	121.00
85	AA	813	G	P-O3'-C3'	-8.20	109.86	119.70
85	AA	1607	A	C8-N9-C4	-8.20	102.52	105.80
34	BA	239	C	C3'-C2'-C1'	-8.20	94.94	101.50
34	BA	3	G	N1-C6-O6	8.20	124.82	119.90
34	BA	144	C	O4'-C1'-N1	8.20	114.76	108.20
34	BA	296	G	C5'-C4'-O4'	-8.20	99.26	109.10
34	BA	944	G	N1-C6-O6	8.20	124.82	119.90
37	BD	29	C	C2-N1-C1'	-8.20	109.78	118.80
41	BH	129	G	P-O3'-C3'	-8.20	109.86	119.70
85	AA	390	U	C1'-O4'-C4'	-8.20	103.34	109.90
34	BA	422	C	O4'-C1'-N1	8.20	114.76	108.20
39	BF	22	U	P-O5'-C5'	8.20	134.02	120.90
85	AA	944	C	N3-C4-N4	8.20	123.74	118.00
85	AA	2017	U	N1-C1'-C2'	-8.20	102.98	112.00
4	A3	196	ARG	NE-CZ-NH1	8.20	124.40	120.30
34	BA	1736	A	N7-C8-N9	8.20	117.90	113.80
38	BE	181	U	P-O3'-C3'	8.20	129.54	119.70
85	AA	651	G	C5-C6-O6	-8.20	123.68	128.60
34	BA	130	U	O4'-C1'-N1	8.19	114.75	108.20
34	BA	732	A	C8-N9-C4	8.19	109.08	105.80
34	BA	1216	G	O4'-C1'-N9	8.20	114.76	108.20
35	BB	620	G	C8-N9-C1'	8.20	137.65	127.00
38	BE	15	A	C1'-O4'-C4'	-8.20	103.34	109.90
85	AA	307	G	C5'-C4'-C3'	8.20	129.11	116.00
35	BB	1063	C	C2'-C3'-O3'	8.19	127.53	109.50
38	BE	70	C	C6-N1-C1'	8.19	130.63	120.80
35	BB	406	A	O4'-C1'-C2'	-8.19	97.61	105.80
35	BB	1303	A	N1-C6-N6	8.19	123.52	118.60
85	AA	337	C	P-O3'-C3'	-8.19	109.87	119.70
85	AA	875	C	C2-N3-C4	-8.19	115.80	119.90
85	AA	1863	A	C3'-C2'-C1'	-8.19	94.95	101.50
35	BB	1131	C	C6-N1-C2	-8.19	117.02	120.30
85	AA	172	A	P-O3'-C3'	-8.19	109.87	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	927	A	N1-C6-N6	8.19	123.51	118.60
34	BA	711	C	O4'-C1'-N1	8.19	114.75	108.20
34	BA	771	A	C1'-O4'-C4'	-8.19	103.35	109.90
34	BA	1541	G	C6-C5-N7	-8.19	125.49	130.40
38	BE	131	C	P-O3'-C3'	8.19	129.53	119.70
56	BW	88	ARG	NE-CZ-NH1	8.19	124.39	120.30
85	AA	44	C	O4'-C1'-N1	8.19	114.75	108.20
85	AA	580	C	C6-N1-C2	-8.19	117.02	120.30
34	BA	1234	U	P-O5'-C5'	-8.19	107.80	120.90
35	BB	732	G	C5'-C4'-C3'	-8.19	102.90	116.00
38	BE	96	G	C6-N1-C2	-8.19	120.19	125.10
85	AA	556	C	C4'-C3'-C2'	8.19	110.79	102.60
85	AA	639	C	C6-N1-C1'	-8.19	110.97	120.80
85	AA	751	C	O4'-C1'-N1	8.19	114.75	108.20
85	AA	1254	A	C3'-C2'-C1'	-8.19	94.95	101.50
34	BA	1254	C	O4'-C1'-N1	8.19	114.75	108.20
34	BA	1439	C	C2-N1-C1'	-8.19	109.80	118.80
40	BG	166	C	C6-N1-C2	-8.19	117.03	120.30
35	BB	858	U	P-O3'-C3'	-8.19	109.88	119.70
38	BE	162	U	C2-N3-C4	-8.19	122.09	127.00
85	AA	139	G	O4'-C1'-N9	8.19	114.75	108.20
85	AA	246	C	O4'-C1'-N1	8.19	114.75	108.20
85	AA	1247	A	O4'-C1'-N9	8.19	114.75	108.20
85	AA	1458	G	C2'-C3'-O3'	8.19	127.51	109.50
85	AA	1832	G	C8-N9-C1'	8.19	137.64	127.00
34	BA	372	U	C6-N1-C1'	8.18	132.66	121.20
34	BA	1637	G	N3-C4-C5	-8.18	124.51	128.60
35	BB	42	A	C5'-C4'-C3'	8.18	129.09	116.00
35	BB	658	G	P-O5'-C5'	8.18	133.99	120.90
38	BE	90	G	C5-C6-O6	-8.18	123.69	128.60
37	BD	29	C	C3'-C2'-C1'	-8.18	94.95	101.50
39	BF	24	G	P-O5'-C5'	-8.18	107.81	120.90
85	AA	417	U	P-O5'-C5'	-8.18	107.81	120.90
85	AA	1236	G	C8-N9-C1'	8.18	137.64	127.00
85	AA	1667	C	C5'-C4'-C3'	-8.18	102.91	116.00
34	BA	1620	U	C2'-C3'-O3'	8.18	127.50	109.50
34	BA	1699	A	C5-C6-N6	8.18	130.25	123.70
35	BB	1442	C	O4'-C1'-N1	8.18	114.75	108.20
38	BE	59	U	N1-C2-O2	8.18	128.53	122.80
34	BA	1284	G	N1-C2-N2	-8.18	108.84	116.20
85	AA	494	G	C5'-C4'-O4'	8.18	118.92	109.10
82	Bw	68	ARG	NE-CZ-NH1	8.18	124.39	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1468	G	O4'-C1'-N9	8.18	114.74	108.20
34	BA	343	G	P-O3'-C3'	-8.18	109.89	119.70
34	BA	593	G	N9-C1'-C2'	8.18	124.63	114.00
34	BA	605	G	P-O3'-C3'	-8.18	109.89	119.70
34	BA	1677	C	P-O5'-C5'	-8.18	107.82	120.90
38	BE	133	C	C2-N3-C4	-8.18	115.81	119.90
85	AA	1280	U	P-O3'-C3'	8.18	129.51	119.70
35	BB	1228	A	P-O5'-C5'	8.18	133.98	120.90
35	BB	1285	U	O4'-C1'-N1	8.18	114.74	108.20
85	AA	1566	A	O4'-C1'-N9	8.18	114.74	108.20
85	AA	2130	G	C5-C6-O6	-8.18	123.69	128.60
19	AK	99	TYR	CB-CG-CD2	-8.17	116.10	121.00
34	BA	73	G	C4-N9-C1'	-8.17	115.87	126.50
34	BA	89	G	C8-N9-C4	8.17	109.67	106.40
34	BA	232	U	C5'-C4'-C3'	8.17	129.08	116.00
34	BA	805	A	P-O5'-C5'	8.17	133.98	120.90
34	BA	535	G	N3-C4-C5	-8.17	124.51	128.60
34	BA	804	G	P-O5'-C5'	-8.17	107.83	120.90
34	BA	1591	G	N9-C1'-C2'	-8.17	103.01	112.00
35	BB	168	U	P-O5'-C5'	8.17	133.98	120.90
40	BG	96	C	P-O5'-C5'	-8.17	107.83	120.90
41	BH	127	A	P-O3'-C3'	8.17	129.51	119.70
85	AA	210	G	O4'-C1'-N9	8.17	114.74	108.20
34	BA	678	C	N1-C2-N3	8.17	124.92	119.20
34	BA	903	C	P-O3'-C3'	-8.17	109.89	119.70
34	BA	1160	U	C5'-C4'-C3'	-8.17	102.93	116.00
35	BB	1445	A	O3'-P-O5'	8.17	119.52	104.00
34	BA	1265	G	C5-C6-O6	-8.17	123.70	128.60
40	BG	9	G	C5-C6-N1	8.17	115.58	111.50
41	BH	20	A	C6-N1-C2	-8.17	113.70	118.60
85	AA	1881	C	P-O3'-C3'	8.17	129.50	119.70
85	AA	2153	G	N1-C6-O6	8.17	124.80	119.90
34	BA	1003	A	O4'-C1'-C2'	8.17	114.95	107.60
35	BB	799	A	C4'-C3'-C2'	8.17	110.77	102.60
35	BB	1260	A	P-O5'-C5'	-8.17	107.83	120.90
38	BE	133	C	O4'-C1'-N1	8.17	114.73	108.20
85	AA	570	U	O4'-C1'-N1	8.17	114.73	108.20
83	Bx	263	ARG	NE-CZ-NH1	8.16	124.38	120.30
85	AA	389	A	P-O5'-C5'	-8.16	107.84	120.90
85	AA	1015	U	C6-N1-C2	-8.16	116.10	121.00
85	AA	2119	C	C3'-C2'-C1'	-8.16	94.97	101.50
34	BA	1510	C	O4'-C1'-N1	8.16	114.73	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1199	A	C3'-C2'-C1'	-8.16	94.97	101.50
85	AA	1110	A	O4'-C1'-N9	8.16	114.73	108.20
85	AA	1556	G	O4'-C1'-N9	8.16	114.73	108.20
34	BA	960	C	O4'-C1'-N1	8.16	114.73	108.20
35	BB	1376	G	C5'-C4'-C3'	-8.16	102.95	116.00
36	BC	143	C	C6-N1-C2	-8.16	117.04	120.30
85	AA	506	G	P-O3'-C3'	-8.16	109.91	119.70
85	AA	2201	A	C8-N9-C4	8.16	109.06	105.80
34	BA	876	C	C5'-C4'-C3'	8.16	129.05	116.00
35	BB	905	C	C6-N1-C2	-8.16	117.04	120.30
85	AA	713	G	C3'-C2'-C1'	-8.16	94.97	101.50
34	BA	462	C	O4'-C1'-N1	8.16	114.72	108.20
34	BA	1120	U	O4'-C1'-N1	8.16	114.72	108.20
34	BA	1505	G	C6-C5-N7	-8.16	125.51	130.40
35	BB	757	C	O4'-C1'-N1	8.16	114.72	108.20
35	BB	823	G	P-O3'-C3'	-8.16	109.91	119.70
41	BH	34	G	N1-C6-O6	-8.16	115.01	119.90
51	BR	52	LEU	CB-CA-C	8.16	125.70	110.20
85	AA	146	U	O4'-C1'-N1	8.16	114.72	108.20
85	AA	205	A	C3'-C2'-C1'	-8.16	94.97	101.50
34	BA	376	U	C1'-O4'-C4'	-8.15	103.38	109.90
34	BA	926	A	C4-N9-C1'	-8.15	111.62	126.30
34	BA	1203	G	P-O5'-C5'	-8.15	107.86	120.90
34	BA	1493	U	O5'-C5'-C4'	8.15	127.19	111.70
85	AA	415	G	C5-C6-O6	-8.15	123.71	128.60
85	AA	2075	C	C2-N1-C1'	-8.15	109.83	118.80
34	BA	1638	U	C6-N1-C1'	8.15	132.61	121.20
38	BE	130	G	C8-N9-C1'	-8.15	116.40	127.00
66	Bg	94	ARG	NE-CZ-NH1	8.15	124.38	120.30
35	BB	839	G	C8-N9-C1'	8.15	137.60	127.00
40	BG	16	G	N9-C1'-C2'	-8.15	103.03	112.00
85	AA	1612	C	O4'-C1'-N1	8.15	114.72	108.20
35	BB	14	C	C2-N3-C4	-8.15	115.83	119.90
41	BH	21	G	C6-N1-C2	-8.15	120.21	125.10
85	AA	268	A	C3'-C2'-C1'	-8.15	94.98	101.50
85	AA	1980	A	O4'-C1'-N9	8.15	114.72	108.20
4	A3	49	TYR	CB-CG-CD1	-8.15	116.11	121.00
34	BA	882	G	C2-N3-C4	8.15	115.97	111.90
35	BB	653	G	C8-N9-C1'	8.15	137.59	127.00
37	BD	91	U	C6-N1-C2	-8.15	116.11	121.00
38	BE	34	C	P-O5'-C5'	-8.15	107.86	120.90
85	AA	422	G	C8-N9-C1'	8.15	137.59	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1049	G	N1-C6-O6	8.15	124.79	119.90
34	BA	1475	G	C8-N9-C4	8.15	109.66	106.40
35	BB	455	G	P-O3'-C3'	8.15	129.48	119.70
39	BF	31	U	O3'-P-O5'	-8.15	88.52	104.00
85	AA	1	G	O4'-C1'-N9	8.15	114.72	108.20
85	AA	392	G	N1-C6-O6	-8.15	115.01	119.90
6	A5	22	ARG	NE-CZ-NH1	8.14	124.37	120.30
34	BA	1533	G	C5'-C4'-C3'	8.14	129.03	116.00
85	AA	2095	U	C2-N3-C4	-8.14	122.11	127.00
34	BA	764	G	O4'-C4'-C3'	-8.14	95.86	104.00
85	AA	339	A	C8-N9-C1'	8.14	142.36	127.70
85	AA	1713	A	C1'-O4'-C4'	-8.14	103.39	109.90
85	AA	620	U	C1'-O4'-C4'	-8.14	103.39	109.90
25	AR	17	TYR	CB-CG-CD2	-8.14	116.12	121.00
34	BA	1086	A	O4'-C1'-N9	8.14	114.71	108.20
35	BB	539	G	N9-C1'-C2'	-8.14	103.05	112.00
85	AA	2181	G	C8-N9-C1'	8.14	137.58	127.00
85	AA	2242	U	O5'-P-OP2	-8.14	98.37	105.70
34	BA	557	U	O5'-P-OP2	8.14	120.47	110.70
34	BA	1103	G	C8-N9-C4	8.14	109.66	106.40
58	BY	60	ARG	NE-CZ-NH2	-8.14	116.23	120.30
34	BA	1483	U	C4'-C3'-C2'	8.14	110.74	102.60
35	BB	701	U	C2-N1-C1'	8.14	127.47	117.70
35	BB	1029	U	C2'-C3'-O3'	8.14	127.40	109.50
85	AA	932	A	O5'-C5'-C4'	-8.14	96.24	111.70
38	BE	32	U	P-O3'-C3'	8.14	129.46	119.70
38	BE	123	A	N1-C2-N3	-8.14	125.23	129.30
41	BH	46	C	C6-N1-C1'	8.14	130.56	120.80
85	AA	476	C	C6-N1-C2	-8.14	117.05	120.30
85	AA	1397	U	O4'-C1'-N1	8.14	114.71	108.20
85	AA	1490	A	P-O3'-C3'	8.14	129.47	119.70
85	AA	1368	G	P-O3'-C3'	-8.14	109.94	119.70
34	BA	816	G	N9-C1'-C2'	-8.14	103.05	112.00
35	BB	642	G	C4-N9-C1'	8.13	137.08	126.50
35	BB	846	A	C1'-O4'-C4'	-8.14	103.39	109.90
35	BB	1220	A	C5-C6-N6	-8.13	117.19	123.70
85	AA	274	A	P-O3'-C3'	-8.13	109.94	119.70
85	AA	492	C	C6-N1-C2	-8.13	117.05	120.30
85	AA	494	G	C3'-C2'-C1'	-8.13	94.99	101.50
85	AA	736	U	C6-N1-C1'	8.13	132.59	121.20
85	AA	975	G	N1-C6-O6	-8.13	115.02	119.90
40	BG	15	G	N9-C1'-C2'	-8.13	103.06	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1549	U	C2-N1-C1'	-8.13	107.94	117.70
35	BB	1122	C	O4'-C1'-N1	8.13	114.70	108.20
35	BB	1266	A	O4'-C1'-N9	8.13	114.70	108.20
45	BL	130	TYR	CB-CG-CD2	-8.13	116.12	121.00
85	AA	1247	A	P-O5'-C5'	-8.13	107.89	120.90
85	AA	1700	C	P-O5'-C5'	8.13	133.91	120.90
85	AA	2191	C	O4'-C1'-N1	8.13	114.70	108.20
34	BA	101	G	N3-C2-N2	8.13	125.59	119.90
34	BA	661	C	C4'-C3'-C2'	8.13	110.73	102.60
34	BA	691	A	O4'-C1'-N9	8.13	114.70	108.20
34	BA	1282	G	C3'-C2'-C1'	-8.13	95.00	101.50
34	BA	1662	U	C5-C4-O4	8.13	130.78	125.90
39	BF	39	C	C5'-C4'-O4'	8.13	118.86	109.10
85	AA	790	A	O5'-C5'-C4'	8.13	127.14	111.70
34	BA	1321	A	P-O3'-C3'	-8.13	109.95	119.70
35	BB	380	G	C5'-C4'-C3'	-8.13	103.00	116.00
38	BE	132	U	N3-C2-O2	-8.13	116.51	122.20
85	AA	532	G	O4'-C1'-N9	8.13	114.70	108.20
85	AA	643	C	C6-N1-C2	-8.13	117.05	120.30
85	AA	1975	G	C8-N9-C1'	8.13	137.56	127.00
34	BA	1441	C	C5'-C4'-C3'	8.13	129.00	116.00
35	BB	427	U	C2-N3-C4	-8.12	122.12	127.00
85	AA	203	C	C6-N1-C1'	-8.13	111.05	120.80
85	AA	1121	U	C1'-O4'-C4'	-8.12	103.40	109.90
85	AA	1810	C	O4'-C1'-N1	8.12	114.70	108.20
85	AA	1836	U	O4'-C1'-N1	8.12	114.70	108.20
85	AA	1970	A	O4'-C1'-N9	8.13	114.70	108.20
34	BA	110	C	C5'-C4'-C3'	-8.12	103.01	116.00
35	BB	21	C	O4'-C1'-N1	8.12	114.70	108.20
35	BB	1315	C	C2-N3-C4	-8.12	115.84	119.90
36	BC	147	G	C8-N9-C4	-8.12	103.15	106.40
38	BE	13	A	C3'-C2'-C1'	-8.12	95.00	101.50
85	AA	779	G	C5-C6-O6	-8.12	123.73	128.60
85	AA	1515	A	C4'-C3'-C2'	-8.12	94.48	102.60
86	AB	14	A	C5'-C4'-C3'	8.12	128.99	116.00
35	BB	144	G	P-O5'-C5'	8.12	133.89	120.90
35	BB	817	C	C5'-C4'-C3'	-8.12	103.01	116.00
35	BB	1515	C	N3-C2-O2	-8.12	116.22	121.90
85	AA	647	C	P-O3'-C3'	8.12	129.44	119.70
85	AA	994	A	C5'-C4'-C3'	-8.12	103.01	116.00
34	BA	252	A	N9-C1'-C2'	-8.12	103.07	112.00
34	BA	1316	G	P-O5'-C5'	-8.12	107.91	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
62	Bc	16	SER	N-CA-CB	8.12	122.68	110.50
71	Bl	95	TRP	CA-C-N	8.12	135.06	117.20
85	AA	106	G	N3-C2-N2	8.12	125.58	119.90
34	BA	77	C	O4'-C1'-N1	8.12	114.69	108.20
34	BA	634	U	O5'-P-OP2	-8.12	98.40	105.70
34	BA	1486	U	N3-C2-O2	-8.12	116.52	122.20
85	AA	370	A	P-O3'-C3'	-8.12	109.96	119.70
35	BB	2	C	C6-N1-C2	-8.11	117.05	120.30
36	BC	25	C	C6-N1-C2	-8.11	117.05	120.30
38	BE	90	G	C2'-C3'-O3'	8.12	127.35	109.50
85	AA	1535	C	C5'-C4'-C3'	-8.12	103.01	116.00
85	AA	2088	U	P-O3'-C3'	-8.12	109.96	119.70
85	AA	2153	G	O4'-C1'-N9	8.12	114.69	108.20
34	BA	214	A	N7-C8-N9	8.11	117.86	113.80
38	BE	32	U	C5'-C4'-C3'	-8.11	103.02	116.00
41	BH	129	G	C4-N9-C1'	-8.11	115.95	126.50
57	BX	139	ASP	CB-CG-OD1	8.11	125.60	118.30
85	AA	2119	C	N3-C2-O2	-8.11	116.22	121.90
35	BB	25	A	O4'-C1'-N9	8.11	114.69	108.20
35	BB	1234	G	C5-C6-N1	8.11	115.56	111.50
62	Bc	78	LYS	CD-CE-NZ	8.11	130.35	111.70
85	AA	380	C	O4'-C1'-N1	8.11	114.69	108.20
85	AA	1239	C	C6-N1-C2	-8.11	117.06	120.30
85	AA	1456	A	N9-C1'-C2'	-8.11	103.08	112.00
34	BA	1379	G	C8-N9-C4	-8.11	103.16	106.40
34	BA	102	G	O4'-C1'-N9	8.11	114.69	108.20
34	BA	1320	A	P-O5'-C5'	8.11	133.87	120.90
35	BB	973	G	C5'-C4'-C3'	-8.11	103.03	116.00
35	BB	1020	U	C2-N3-C4	-8.11	122.13	127.00
35	BB	1301	U	P-O3'-C3'	8.11	129.43	119.70
35	BB	1458	U	P-O5'-C5'	-8.11	107.93	120.90
41	BH	18	C	O4'-C1'-N1	8.11	114.69	108.20
85	AA	893	G	C4-C5-C6	-8.11	113.93	118.80
85	AA	1231	G	C8-N9-C1'	8.11	137.54	127.00
40	BG	133	C	C2-N1-C1'	8.11	127.72	118.80
34	BA	146	G	C6-N1-C2	-8.11	120.24	125.10
34	BA	843	G	N3-C2-N2	8.11	125.57	119.90
34	BA	1058	C	P-O3'-C3'	8.11	129.43	119.70
35	BB	1141	A	O4'-C4'-C3'	-8.11	95.89	104.00
35	BB	1270	C	O4'-C1'-N1	8.11	114.69	108.20
36	BC	94	C	O4'-C1'-N1	8.11	114.69	108.20
85	AA	358	U	C5'-C4'-C3'	8.11	128.97	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	534	A	N1-C6-N6	-8.11	113.74	118.60
38	BE	195	G	N3-C4-N9	8.11	130.86	126.00
85	AA	230	U	O4'-C1'-N1	8.11	114.68	108.20
85	AA	610	C	C4'-C3'-C2'	-8.11	94.49	102.60
85	AA	862	U	N3-C2-O2	-8.11	116.53	122.20
85	AA	1665	G	C3'-C2'-C1'	-8.11	95.02	101.50
34	BA	1261	G	C1'-O4'-C4'	-8.10	103.42	109.90
34	BA	998	U	C5'-C4'-C3'	8.10	128.96	116.00
34	BA	1281	U	C1'-O4'-C4'	-8.10	103.42	109.90
35	BB	449	C	N3-C2-O2	-8.10	116.23	121.90
35	BB	858	U	C5'-C4'-C3'	-8.10	103.03	116.00
85	AA	646	C	P-O3'-C3'	-8.10	109.97	119.70
35	BB	1534	U	C5'-C4'-C3'	8.10	128.96	116.00
85	AA	874	A	C8-N9-C4	8.10	109.04	105.80
36	BC	86	U	C3'-C2'-C1'	-8.10	95.02	101.50
40	BG	58	G	C5'-C4'-C3'	-8.10	103.04	116.00
85	AA	755	G	N3-C2-N2	8.10	125.57	119.90
85	AA	1560	A	C5'-C4'-O4'	8.10	118.82	109.10
34	BA	8	G	N9-C1'-C2'	-8.10	103.09	112.00
34	BA	210	G	P-O3'-C3'	8.10	129.42	119.70
35	BB	62	C	C6-N1-C2	-8.10	117.06	120.30
38	BE	177	U	P-O3'-C3'	-8.10	109.98	119.70
56	BW	73	ARG	CD-NE-CZ	8.10	134.94	123.60
65	Bf	194	ARG	NE-CZ-NH1	8.10	124.35	120.30
85	AA	375	C	C4'-C3'-C2'	8.10	110.70	102.60
35	BB	1141	A	O4'-C1'-N9	8.10	114.68	108.20
41	BH	47	G	C5-C6-N1	8.10	115.55	111.50
85	AA	164	G	O5'-P-OP2	8.10	120.42	110.70
85	AA	414	C	C5-C4-N4	8.10	125.87	120.20
85	AA	1896	G	N1-C6-O6	8.10	124.76	119.90
34	BA	680	C	C3'-C2'-C1'	-8.10	95.02	101.50
85	AA	1520	A	C5-C6-N6	-8.10	117.22	123.70
34	BA	1103	G	C4-N9-C1'	-8.09	115.98	126.50
35	BB	42	A	C4'-C3'-C2'	8.09	110.69	102.60
35	BB	632	U	P-O3'-C3'	-8.09	109.99	119.70
35	BB	1432	U	P-O5'-C5'	-8.09	107.95	120.90
52	BS	157	ARG	C-N-CA	8.09	141.94	121.70
38	BE	96	G	C4-C5-C6	-8.09	113.94	118.80
85	AA	699	U	C5'-C4'-C3'	-8.09	103.05	116.00
34	BA	134	U	C6-N1-C2	-8.09	116.15	121.00
34	BA	221	G	C5'-C4'-C3'	-8.09	103.05	116.00
34	BA	1450	G	C5-C6-O6	-8.09	123.75	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	256	G	N1-C6-O6	8.09	124.75	119.90
35	BB	399	A	N1-C6-N6	8.09	123.45	118.60
36	BC	158	U	O4'-C1'-N1	8.09	114.67	108.20
79	Bt	23	PHE	CB-CG-CD2	-8.09	115.14	120.80
85	AA	893	G	P-O3'-C3'	-8.09	109.99	119.70
85	AA	2157	G	O4'-C1'-N9	8.09	114.67	108.20
34	BA	308	C	C3'-C2'-C1'	-8.09	95.03	101.50
34	BA	361	C	C6-N1-C2	-8.09	117.06	120.30
85	AA	1560	A	O4'-C1'-N9	8.09	114.67	108.20
34	BA	217	C	C6-N1-C1'	-8.09	111.10	120.80
34	BA	238	C	P-O3'-C3'	-8.09	110.00	119.70
34	BA	616	G	C8-N9-C1'	8.09	137.51	127.00
34	BA	894	G	C2-N3-C4	-8.09	107.86	111.90
34	BA	967	C	C1'-O4'-C4'	-8.09	103.43	109.90
35	BB	1207	C	P-O3'-C3'	-8.09	110.00	119.70
85	AA	443	A	C8-N9-C4	8.09	109.03	105.80
85	AA	1890	C	O4'-C1'-N1	8.09	114.67	108.20
85	AA	1992	A	C5'-C4'-C3'	8.09	128.94	116.00
34	BA	1229	G	C5-C6-O6	-8.09	123.75	128.60
38	BE	16	C	O4'-C4'-C3'	-8.09	95.92	104.00
85	AA	1459	C	N3-C2-O2	-8.09	116.24	121.90
35	BB	1212	C	O4'-C1'-N1	8.08	114.67	108.20
85	AA	1506	U	N3-C2-O2	-8.08	116.54	122.20
85	AA	2048	C	C6-N1-C2	-8.08	117.07	120.30
20	AL	124	VAL	C-N-CA	8.08	141.91	121.70
34	BA	1173	C	C1'-O4'-C4'	-8.08	103.44	109.90
34	BA	1732	A	N3-C4-N9	8.08	133.87	127.40
35	BB	1512	C	P-O5'-C5'	8.08	133.83	120.90
37	BD	84	U	C5'-C4'-C3'	-8.08	103.07	116.00
38	BE	104	G	C4'-C3'-C2'	-8.08	94.52	102.60
40	BG	64	C	C2-N3-C4	-8.08	115.86	119.90
47	BN	214	GLU	N-CA-CB	-8.08	96.05	110.60
85	AA	126	U	C3'-C2'-C1'	-8.08	95.03	101.50
85	AA	428	G	N1-C6-O6	8.08	124.75	119.90
34	BA	1503	U	O4'-C1'-N1	8.08	114.66	108.20
34	BA	1617	U	P-O3'-C3'	-8.08	110.00	119.70
85	AA	1982	C	C6-N1-C2	-8.08	117.07	120.30
34	BA	315	U	O5'-C5'-C4'	8.08	127.05	111.70
34	BA	447	U	C6-N1-C1'	8.08	132.51	121.20
34	BA	867	C	N3-C4-N4	-8.08	112.34	118.00
35	BB	161	G	O4'-C1'-N9	8.08	114.66	108.20
35	BB	1288	G	C5'-C4'-C3'	8.08	128.93	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2225	G	O4'-C1'-N9	8.08	114.67	108.20
85	AA	1884	A	O4'-C1'-N9	8.08	114.66	108.20
34	BA	709	C	C6-N1-C2	-8.08	117.07	120.30
35	BB	786	A	N1-C6-N6	-8.08	113.75	118.60
85	AA	1235	G	C5'-C4'-C3'	-8.08	103.08	116.00
35	BB	1431	G	C8-N9-C1'	8.08	137.50	127.00
36	BC	52	A	C3'-C2'-C1'	-8.08	95.04	101.50
85	AA	1682	U	O3'-P-O5'	-8.08	88.65	104.00
35	BB	139	G	C4-N9-C1'	-8.07	116.00	126.50
35	BB	679	G	N9-C1'-C2'	-8.07	103.12	112.00
35	BB	832	C	C6-N1-C2	-8.07	117.07	120.30
34	BA	62	A	C5'-C4'-C3'	-8.07	103.08	116.00
34	BA	103	G	C3'-C2'-C1'	-8.07	95.04	101.50
34	BA	1156	U	C2-N1-C1'	-8.07	108.01	117.70
35	BB	1475	U	C1'-O4'-C4'	-8.07	103.44	109.90
36	BC	55	U	C5'-C4'-C3'	-8.07	103.08	116.00
85	AA	1411	C	O4'-C1'-N1	8.07	114.66	108.20
85	AA	1517	G	C5'-C4'-C3'	-8.07	103.08	116.00
39	BF	30	C	P-O3'-C3'	-8.07	110.01	119.70
85	AA	1645	G	C4-N9-C1'	-8.07	116.00	126.50
86	AB	63	G	C1'-O4'-C4'	-8.07	103.44	109.90
35	BB	708	C	N3-C4-C5	-8.07	118.67	121.90
34	BA	166	G	C8-N9-C1'	8.07	137.49	127.00
34	BA	1467	U	C3'-C2'-C1'	-8.07	95.05	101.50
35	BB	1421	C	O4'-C1'-N1	8.07	114.66	108.20
40	BG	46	G	C5-C6-O6	-8.07	123.76	128.60
81	Bv	68	TYR	CB-CG-CD1	8.07	125.84	121.00
85	AA	463	G	C5-C6-O6	-8.07	123.76	128.60
85	AA	743	C	C2-N1-C1'	-8.07	109.92	118.80
34	BA	762	A	C5'-C4'-C3'	-8.07	103.09	116.00
34	BA	1294	C	N1-C1'-C2'	8.07	124.49	114.00
37	BD	48	G	N9-C4-C5	-8.07	102.17	105.40
34	BA	1738	G	C8-N9-C1'	8.07	137.49	127.00
35	BB	652	G	C4'-C3'-C2'	-8.07	94.53	102.60
35	BB	1538	G	C4-N9-C1'	-8.07	116.01	126.50
37	BD	94	C	P-O5'-C5'	-8.07	107.99	120.90
85	AA	549	A	C4-N9-C1'	-8.07	111.78	126.30
85	AA	735	G	C8-N9-C4	-8.07	103.17	106.40
34	BA	470	C	P-O3'-C3'	8.06	129.38	119.70
34	BA	748	C	C1'-O4'-C4'	-8.06	103.45	109.90
85	AA	698	G	C1'-O4'-C4'	-8.06	103.45	109.90
85	AA	2241	C	C1'-O4'-C4'	-8.06	103.45	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	780	U	O4'-C1'-N1	8.06	114.65	108.20
37	BD	64	A	N1-C6-N6	8.06	123.44	118.60
38	BE	127	G	C4'-C3'-C2'	8.06	110.66	102.60
85	AA	456	A	C8-N9-C4	8.06	109.03	105.80
85	AA	841	U	P-O3'-C3'	-8.06	110.02	119.70
85	AA	1787	G	P-O3'-C3'	8.06	129.38	119.70
34	BA	53	G	C8-N9-C1'	8.06	137.48	127.00
37	BD	31	U	O4'-C1'-N1	8.06	114.65	108.20
82	Bw	218	TRP	CB-CG-CD2	-8.06	116.12	126.60
85	AA	919	U	C2-N1-C1'	8.06	127.37	117.70
85	AA	484	G	P-O5'-C5'	8.06	133.80	120.90
85	AA	2014	G	N3-C2-N2	-8.06	114.26	119.90
34	BA	819	G	P-O3'-C3'	-8.06	110.03	119.70
35	BB	1212	C	C4'-C3'-C2'	8.06	110.66	102.60
38	BE	168	C	O4'-C1'-N1	8.06	114.65	108.20
85	AA	855	G	P-O3'-C3'	-8.06	110.03	119.70
85	AA	989	U	O5'-C5'-C4'	-8.06	96.39	111.70
85	AA	775	C	C3'-C2'-C1'	-8.06	95.05	101.50
85	AA	1281	G	C1'-O4'-C4'	-8.06	103.45	109.90
85	AA	1471	G	C5-C6-N1	8.06	115.53	111.50
85	AA	1839	G	C5'-C4'-C3'	-8.06	103.11	116.00
85	AA	2075	C	C6-N1-C1'	8.06	130.47	120.80
34	BA	847	U	P-O5'-C5'	8.05	133.79	120.90
34	BA	1798	G	P-O5'-C5'	8.05	133.79	120.90
35	BB	706	G	C5'-C4'-C3'	8.05	128.89	116.00
35	BB	1141	A	P-O5'-C5'	-8.05	108.01	120.90
35	BB	1426	G	C5-C6-N1	8.05	115.53	111.50
41	BH	81	U	O4'-C1'-N1	8.05	114.64	108.20
70	Bk	94	ARG	NE-CZ-NH1	8.05	124.33	120.30
85	AA	650	G	C8-N9-C1'	8.05	137.47	127.00
85	AA	1229	G	N3-C4-C5	-8.06	124.57	128.60
38	BE	7	U	N3-C2-O2	-8.05	116.56	122.20
34	BA	1415	C	O4'-C1'-N1	8.05	114.64	108.20
34	BA	1448	G	N1-C6-O6	8.05	124.73	119.90
77	Br	139	ARG	NE-CZ-NH2	-8.05	116.28	120.30
85	AA	768	C	C2-N1-C1'	-8.05	109.94	118.80
34	BA	110	C	C1'-O4'-C4'	-8.05	103.46	109.90
34	BA	314	A	C1'-O4'-C4'	-8.05	103.46	109.90
35	BB	37	C	C3'-C2'-C1'	-8.05	95.06	101.50
35	BB	109	U	C5'-C4'-C3'	-8.05	103.12	116.00
35	BB	534	C	C6-N1-C2	-8.05	117.08	120.30
35	BB	1016	C	O4'-C1'-N1	8.05	114.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1453	G	C2-N3-C4	-8.05	107.88	111.90
35	BB	1495	U	C1'-O4'-C4'	-8.05	103.46	109.90
44	BK	185	ARG	NE-CZ-NH1	8.05	124.32	120.30
85	AA	848	C	O4'-C1'-N1	8.05	114.64	108.20
85	AA	1560	A	C1'-O4'-C4'	-8.05	103.46	109.90
85	AA	1909	C	C6-N1-C2	-8.05	117.08	120.30
35	BB	1230	A	P-O5'-C5'	-8.05	108.03	120.90
40	BG	9	G	C1'-O4'-C4'	-8.05	103.46	109.90
34	BA	389	U	O4'-C1'-N1	8.04	114.64	108.20
41	BH	109	G	N1-C6-O6	-8.04	115.07	119.90
53	BT	132	PHE	CB-CG-CD1	8.05	126.43	120.80
75	Bp	27	HIS	CA-CB-CG	-8.04	99.92	113.60
85	AA	1544	G	N1-C6-O6	-8.04	115.07	119.90
85	AA	1845	G	C4-N9-C1'	-8.05	116.04	126.50
86	AB	19	G	P-O5'-C5'	-8.04	108.03	120.90
6	A5	25	MET	CG-SD-CE	-8.04	87.33	100.20
34	BA	1672	C	C6-N1-C2	-8.04	117.08	120.30
38	BE	135	A	C1'-O4'-C4'	-8.04	103.47	109.90
85	AA	1012	C	P-O3'-C3'	8.04	129.35	119.70
73	Bn	56	ARG	NE-CZ-NH1	8.04	124.32	120.30
84	By	44	PHE	CB-CG-CD1	8.04	126.43	120.80
85	AA	1988	A	N1-C6-N6	-8.04	113.78	118.60
34	BA	65	A	C5'-C4'-C3'	8.04	128.86	116.00
34	BA	290	G	C4-N9-C1'	-8.04	116.05	126.50
34	BA	1190	A	O3'-P-O5'	-8.04	88.72	104.00
35	BB	1480	G	O4'-C1'-N9	8.04	114.63	108.20
38	BE	75	C	C6-N1-C1'	8.04	130.45	120.80
38	BE	113	C	C6-N1-C2	-8.04	117.08	120.30
38	BE	176	G	C5'-C4'-C3'	8.04	128.86	116.00
39	BF	37	C	O4'-C1'-N1	8.04	114.63	108.20
34	BA	525	A	C4-N9-C1'	-8.04	111.83	126.30
34	BA	566	G	N9-C1'-C2'	-8.04	103.16	112.00
34	BA	1699	A	N9-C1'-C2'	-8.04	103.16	112.00
35	BB	816	U	P-O5'-C5'	-8.04	108.04	120.90
37	BD	35	C	P-O3'-C3'	-8.04	110.05	119.70
85	AA	1557	U	P-O3'-C3'	8.04	129.35	119.70
35	BB	1014	U	N3-C2-O2	-8.04	116.57	122.20
37	BD	77	A	N9-C1'-C2'	-8.04	103.16	112.00
40	BG	132	U	C2-N1-C1'	-8.04	108.06	117.70
34	BA	292	C	O4'-C1'-N1	8.04	114.63	108.20
34	BA	398	G	C5-C6-O6	-8.04	123.78	128.60
34	BA	1244	G	C5-C6-O6	-8.04	123.78	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1	U	C5'-C4'-C3'	8.04	128.86	116.00
35	BB	1032	U	C1'-O4'-C4'	-8.04	103.47	109.90
36	BC	5	U	C2-N3-C4	-8.04	122.18	127.00
36	BC	53	A	C8-N9-C4	8.03	109.01	105.80
41	BH	58	C	O4'-C1'-N1	8.03	114.63	108.20
85	AA	866	U	P-O3'-C3'	-8.04	110.06	119.70
85	AA	918	U	C1'-O4'-C4'	-8.04	103.47	109.90
85	AA	889	G	O5'-C5'-C4'	-8.03	96.44	111.70
85	AA	964	C	C6-N1-C1'	-8.04	111.16	120.80
85	AA	2169	C	O4'-C1'-N1	8.03	114.63	108.20
34	BA	696	A	P-O5'-C5'	-8.03	108.05	120.90
35	BB	522	A	C3'-C2'-C1'	-8.03	95.07	101.50
45	BL	179	PHE	CB-CG-CD2	-8.03	115.18	120.80
34	BA	254	U	O4'-C1'-N1	8.03	114.62	108.20
35	BB	1039	A	C5'-C4'-C3'	-8.03	103.15	116.00
36	BC	141	C	O4'-C1'-N1	8.03	114.62	108.20
41	BH	134	U	O4'-C4'-C3'	-8.03	95.97	104.00
85	AA	285	C	O5'-C5'-C4'	8.03	126.96	111.70
27	AT	65	PHE	CB-CG-CD1	8.03	126.42	120.80
34	BA	1080	U	C4'-C3'-C2'	-8.03	94.57	102.60
35	BB	589	U	C1'-O4'-C4'	-8.03	103.48	109.90
35	BB	1003	G	C3'-C2'-C1'	-8.03	95.08	101.50
36	BC	156	A	O4'-C1'-N9	8.03	114.62	108.20
38	BE	134	A	C5'-C4'-O4'	-8.03	99.46	109.10
85	AA	1727	U	P-O3'-C3'	-8.03	110.06	119.70
59	BZ	10	ARG	NE-CZ-NH1	8.03	124.31	120.30
85	AA	514	U	C2-N3-C4	-8.03	122.18	127.00
34	BA	502	U	N3-C2-O2	-8.03	116.58	122.20
85	AA	14	C	C2-N3-C4	-8.03	115.89	119.90
85	AA	565	G	C5'-C4'-C3'	-8.03	103.16	116.00
85	AA	774	C	C2-N3-C4	-8.03	115.89	119.90
34	BA	636	G	C5-C6-O6	8.03	133.41	128.60
34	BA	736	G	N1-C6-O6	8.03	124.72	119.90
34	BA	771	A	O4'-C1'-N9	8.03	114.62	108.20
34	BA	948	C	O4'-C1'-N1	8.03	114.62	108.20
34	BA	1460	U	O4'-C1'-N1	8.03	114.62	108.20
35	BB	503	G	N1-C6-O6	8.03	124.72	119.90
35	BB	556	U	C3'-C2'-C1'	-8.03	95.08	101.50
85	AA	1034	U	O4'-C1'-N1	8.03	114.62	108.20
85	AA	2187	G	P-O5'-C5'	-8.03	108.06	120.90
35	BB	1026	G	C2-N3-C4	-8.03	107.89	111.90
85	AA	335	G	C3'-C2'-C1'	-8.03	95.08	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	472	G	C6-C5-N7	-8.02	125.59	130.40
37	BD	30	A	N1-C6-N6	8.02	123.42	118.60
85	AA	1185	G	C5'-C4'-C3'	8.02	128.84	116.00
34	BA	1165	A	C5'-C4'-C3'	-8.02	103.17	116.00
34	BA	1482	A	C5'-C4'-C3'	8.02	128.84	116.00
34	BA	1503	U	N1-C1'-C2'	-8.02	103.18	112.00
34	BA	1528	U	P-O5'-C5'	8.02	133.74	120.90
34	BA	1561	C	P-O5'-C5'	8.02	133.74	120.90
47	BN	72	MET	CG-SD-CE	-8.02	87.36	100.20
36	BC	15	G	O4'-C1'-N9	8.02	114.62	108.20
45	BL	36	ARG	NE-CZ-NH1	8.02	124.31	120.30
70	Bk	121	ARG	NE-CZ-NH1	8.02	124.31	120.30
85	AA	726	U	P-O3'-C3'	8.02	129.32	119.70
85	AA	1502	A	N1-C6-N6	8.02	123.41	118.60
85	AA	2084	U	O4'-C1'-N1	8.02	114.62	108.20
34	BA	289	A	C2-N3-C4	-8.02	106.59	110.60
34	BA	610	A	C6-N1-C2	-8.02	113.79	118.60
34	BA	1281	U	C3'-C2'-C1'	-8.02	95.08	101.50
34	BA	1499	A	O4'-C1'-N9	8.02	114.61	108.20
35	BB	1487	G	N3-C2-N2	8.02	125.51	119.90
40	BG	16	G	C5-C6-O6	8.02	133.41	128.60
40	BG	163	G	P-O5'-C5'	-8.02	108.07	120.90
65	Bf	348	GLU	C-N-CD	-8.02	102.96	120.60
79	Bt	38	ARG	NE-CZ-NH2	-8.02	116.29	120.30
85	AA	1623	U	P-O5'-C5'	-8.02	108.07	120.90
85	AA	1757	C	C6-N1-C2	-8.02	117.09	120.30
5	A4	68	TYR	CB-CG-CD1	-8.02	116.19	121.00
34	BA	482	C	C4'-C3'-C2'	8.02	110.62	102.60
34	BA	560	U	OP1-P-OP2	-8.02	107.58	119.60
34	BA	621	G	O3'-P-O5'	8.02	119.23	104.00
34	BA	873	G	O5'-P-OP2	8.02	120.32	110.70
34	BA	23	A	C1'-O4'-C4'	-8.02	103.49	109.90
34	BA	198	U	P-O3'-C3'	-8.02	110.08	119.70
34	BA	765	U	O5'-C5'-C4'	8.02	126.93	111.70
35	BB	812	G	C4-N9-C1'	-8.02	116.08	126.50
40	BG	133	C	C6-N1-C1'	-8.02	111.18	120.80
85	AA	406	U	P-O5'-C5'	-8.02	108.08	120.90
85	AA	1941	C	O4'-C1'-N1	8.02	114.61	108.20
85	AA	2125	A	C2'-C3'-O3'	8.02	127.14	109.50
34	BA	926	A	N1-C2-N3	-8.01	125.29	129.30
34	BA	1735	G	C8-N9-C4	8.01	109.61	106.40
35	BB	30	A	O4'-C1'-N9	8.01	114.61	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1042	U	C5'-C4'-C3'	8.01	128.82	116.00
39	BF	36	G	C5'-C4'-C3'	-8.01	103.18	116.00
40	BG	50	G	C6-N1-C2	-8.01	120.29	125.10
40	BG	77	U	O4'-C1'-N1	8.01	114.61	108.20
82	Bw	204	TYR	CB-CG-CD2	-8.01	116.19	121.00
85	AA	92	G	C5-C6-O6	-8.01	123.79	128.60
85	AA	1644	G	N7-C8-N9	8.01	117.11	113.10
86	AB	2	C	O4'-C1'-N1	8.01	114.61	108.20
4	A3	85	PHE	CB-CG-CD1	8.01	126.41	120.80
34	BA	14	G	C2-N3-C4	-8.01	107.89	111.90
34	BA	262	A	P-O3'-C3'	8.01	129.31	119.70
85	AA	738	C	O4'-C1'-C2'	-8.01	97.79	105.80
85	AA	1346	C	P-O5'-C5'	8.01	133.72	120.90
85	AA	1553	G	O4'-C1'-N9	8.01	114.61	108.20
34	BA	896	U	N3-C4-C5	-8.01	109.79	114.60
34	BA	1069	U	N3-C2-O2	-8.01	116.59	122.20
34	BA	1500	G	N3-C2-N2	8.01	125.51	119.90
35	BB	642	G	O4'-C1'-N9	8.01	114.61	108.20
41	BH	115	A	P-O5'-C5'	8.01	133.71	120.90
85	AA	1622	G	C5'-C4'-C3'	-8.01	103.19	116.00
85	AA	1701	G	N1-C2-N2	8.01	123.41	116.20
34	BA	628	U	O4'-C1'-N1	8.01	114.61	108.20
34	BA	1149	C	N3-C2-O2	-8.01	116.29	121.90
34	BA	1309	U	P-O3'-C3'	8.01	129.31	119.70
34	BA	1782	C	N1-C1'-C2'	-8.01	103.19	112.00
35	BB	13	A	C3'-C2'-C1'	-8.01	95.09	101.50
40	BG	33	G	C5-C6-O6	-8.01	123.80	128.60
85	AA	77	C	C2-N1-C1'	8.01	127.61	118.80
37	BD	78	C	N1-C2-O2	8.01	123.70	118.90
85	AA	156	G	O4'-C1'-N9	8.01	114.61	108.20
85	AA	168	A	O4'-C1'-N9	8.01	114.61	108.20
85	AA	730	G	C4-N9-C1'	-8.01	116.09	126.50
85	AA	1457	C	C4'-C3'-C2'	-8.01	94.59	102.60
85	AA	1531	G	C5-C6-O6	-8.01	123.80	128.60
38	BE	131	C	O4'-C1'-N1	8.01	114.60	108.20
85	AA	75	U	O4'-C1'-N1	8.01	114.60	108.20
85	AA	1721	A	O4'-C1'-N9	8.01	114.60	108.20
85	AA	1810	C	C5'-C4'-O4'	8.01	118.71	109.10
34	BA	138	C	N3-C2-O2	-8.00	116.30	121.90
34	BA	213	A	N1-C6-N6	-8.00	113.80	118.60
34	BA	516	U	C4'-C3'-C2'	8.00	110.60	102.60
34	BA	850	C	O4'-C1'-N1	8.00	114.60	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1540	C	C6-N1-C2	-8.00	117.10	120.30
40	BG	60	A	O4'-C1'-N9	8.00	114.60	108.20
85	AA	4	C	C1'-O4'-C4'	-8.00	103.50	109.90
34	BA	4	A	C4'-C3'-C2'	8.00	110.60	102.60
34	BA	767	U	P-O3'-C3'	-8.00	110.10	119.70
56	BW	73	ARG	NE-CZ-NH1	8.00	124.30	120.30
77	Br	288	THR	N-CA-CB	-8.00	95.10	110.30
85	AA	182	C	C2-N1-C1'	8.00	127.60	118.80
85	AA	321	C	C6-N1-C2	-8.00	117.10	120.30
85	AA	1657	C	O4'-C1'-N1	8.00	114.60	108.20
34	BA	1637	G	O4'-C1'-N9	8.00	114.60	108.20
38	BE	95	G	C5-C6-O6	8.00	133.40	128.60
40	BG	148	C	C5'-C4'-C3'	-8.00	103.20	116.00
41	BH	120	C	O4'-C1'-N1	8.00	114.60	108.20
85	AA	485	A	C8-N9-C4	8.00	109.00	105.80
37	BD	70	C	C2-N1-C1'	-8.00	110.00	118.80
38	BE	2	G	C3'-C2'-C1'	-8.00	95.10	101.50
38	BE	64	A	N1-C6-N6	8.00	123.40	118.60
38	BE	141	A	N1-C6-N6	8.00	123.40	118.60
49	BP	48	ARG	NE-CZ-NH1	8.00	124.30	120.30
85	AA	926	C	C2-N3-C4	-8.00	115.90	119.90
85	AA	1048	C	O4'-C1'-N1	8.00	114.60	108.20
85	AA	1537	A	C6-N1-C2	-8.00	113.80	118.60
35	BB	866	A	C4'-C3'-C2'	-8.00	94.61	102.60
35	BB	885	U	O4'-C1'-N1	8.00	114.60	108.20
16	AH	34	PHE	CB-CG-CD2	-7.99	115.20	120.80
34	BA	596	G	N1-C2-N3	-7.99	119.10	123.90
34	BA	1379	G	C2-N3-C4	7.99	115.90	111.90
35	BB	781	U	C3'-C2'-C1'	-7.99	95.11	101.50
85	AA	46	U	C6-N1-C1'	-7.99	110.01	121.20
85	AA	478	U	C6-N1-C2	-7.99	116.20	121.00
85	AA	2008	G	C4-N9-C1'	-7.99	116.11	126.50
49	BP	174	ARG	NE-CZ-NH1	7.99	124.30	120.30
34	BA	103	G	C8-N9-C1'	7.99	137.39	127.00
34	BA	1707	C	C2-N1-C1'	-7.99	110.01	118.80
41	BH	122	U	O4'-C1'-N1	7.99	114.59	108.20
85	AA	1808	G	C4-N9-C1'	7.99	136.89	126.50
34	BA	214	A	N3-C4-C5	-7.99	121.21	126.80
34	BA	481	A	C5'-C4'-C3'	-7.99	103.22	116.00
85	AA	427	G	N3-C2-N2	7.99	125.49	119.90
85	AA	1022	G	C2'-C3'-O3'	7.99	127.08	109.50
85	AA	1926	A	C5'-C4'-C3'	-7.99	103.22	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2130	G	C8-N9-C1'	7.99	137.38	127.00
34	BA	1798	G	C8-N9-C1'	-7.99	116.62	127.00
35	BB	902	C	O4'-C1'-N1	7.99	114.59	108.20
85	AA	94	C	O4'-C1'-N1	7.99	114.59	108.20
85	AA	1432	C	C2-N1-C1'	7.99	127.59	118.80
7	A6	22	ARG	NE-CZ-NH1	7.99	124.29	120.30
34	BA	99	G	C8-N9-C1'	-7.99	116.62	127.00
34	BA	401	A	C8-N9-C4	7.99	108.99	105.80
34	BA	551	U	O4'-C1'-N1	7.99	114.59	108.20
34	BA	957	A	C5'-C4'-O4'	7.99	118.68	109.10
36	BC	137	C	P-O3'-C3'	-7.99	110.12	119.70
38	BE	90	G	C4-N9-C1'	-7.99	116.12	126.50
38	BE	174	U	P-O3'-C3'	7.99	129.28	119.70
85	AA	1426	G	P-O5'-C5'	7.99	133.68	120.90
34	BA	892	C	C5-C4-N4	7.98	125.79	120.20
37	BD	82	G	C8-N9-C1'	7.98	137.38	127.00
38	BE	33	C	P-O3'-C3'	-7.98	110.12	119.70
41	BH	133	U	P-O5'-C5'	-7.98	108.13	120.90
35	BB	791	A	O4'-C1'-N9	7.98	114.59	108.20
36	BC	158	U	O4'-C4'-C3'	-7.98	96.02	104.00
34	BA	1732	A	C4-C5-C6	7.98	120.99	117.00
35	BB	564	U	P-O5'-C5'	7.98	133.67	120.90
85	AA	1293	U	O4'-C1'-N1	7.98	114.58	108.20
35	BB	375	G	P-O3'-C3'	-7.98	110.13	119.70
65	Bf	61	ARG	NE-CZ-NH1	7.98	124.29	120.30
85	AA	66	U	O4'-C1'-N1	7.98	114.58	108.20
86	AB	71	G	C2'-C3'-O3'	7.98	127.05	109.50
34	BA	320	G	P-O3'-C3'	-7.98	110.13	119.70
35	BB	463	C	C6-N1-C2	-7.98	117.11	120.30
36	BC	151	G	C6-N1-C2	-7.98	120.31	125.10
85	AA	1105	G	C4-N9-C1'	7.98	136.87	126.50
27	AT	17	PHE	CB-CG-CD1	-7.98	115.22	120.80
34	BA	122	U	P-O5'-C5'	-7.98	108.14	120.90
34	BA	317	U	O4'-C1'-N1	7.98	114.58	108.20
34	BA	1019	C	O4'-C1'-N1	7.98	114.58	108.20
52	BS	137	ARG	NE-CZ-NH2	-7.98	116.31	120.30
34	BA	1268	C	P-O3'-C3'	-7.97	110.13	119.70
34	BA	1815	G	C5-C6-N1	7.97	115.49	111.50
35	BB	16	G	C4-N9-C1'	-7.97	116.13	126.50
38	BE	199	A	C6-N1-C2	-7.97	113.81	118.60
40	BG	59	G	C1'-O4'-C4'	-7.97	103.52	109.90
41	BH	85	C	C6-N1-C2	-7.97	117.11	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	BP	93	ARG	NE-CZ-NH1	7.97	124.29	120.30
74	Bo	49	ARG	NE-CZ-NH1	7.97	124.29	120.30
85	AA	1655	G	C4'-C3'-C2'	7.97	110.57	102.60
34	BA	231	U	C5'-C4'-C3'	7.97	128.75	116.00
34	BA	405	C	C5'-C4'-C3'	7.97	128.76	116.00
35	BB	2	C	N3-C4-C5	-7.97	118.71	121.90
35	BB	1129	C	C5'-C4'-C3'	-7.97	103.24	116.00
35	BB	1490	G	N9-C1'-C2'	-7.97	103.23	112.00
36	BC	129	C	C6-N1-C1'	7.97	130.37	120.80
37	BD	112	U	C2-N1-C1'	-7.97	108.13	117.70
38	BE	127	G	O4'-C1'-N9	7.97	114.58	108.20
85	AA	133	G	O4'-C1'-N9	7.97	114.58	108.20
85	AA	655	U	C2-N3-C4	-7.97	122.22	127.00
85	AA	1683	U	C2-N3-C4	-7.97	122.22	127.00
34	BA	14	G	C8-N9-C4	7.97	109.59	106.40
34	BA	167	U	N3-C2-O2	-7.97	116.62	122.20
34	BA	296	G	C6-C5-N7	-7.97	125.62	130.40
65	Bf	400	MET	CG-SD-CE	-7.97	87.45	100.20
34	BA	1708	A	C2-N3-C4	7.97	114.58	110.60
34	BA	1711	G	N3-C2-N2	7.97	125.48	119.90
35	BB	822	G	N3-C4-N9	7.97	130.78	126.00
36	BC	16	A	P-O5'-C5'	-7.97	108.15	120.90
85	AA	483	G	P-O5'-C5'	7.97	133.65	120.90
85	AA	991	G	C6-N1-C2	-7.97	120.32	125.10
85	AA	1183	C	C2-N1-C1'	7.97	127.57	118.80
34	BA	1510	C	C1'-O4'-C4'	-7.97	103.53	109.90
35	BB	604	C	C3'-C2'-C1'	-7.97	95.13	101.50
34	BA	8	G	O5'-P-OP2	-7.97	98.53	105.70
35	BB	1509	G	P-O3'-C3'	-7.97	110.14	119.70
85	AA	421	G	P-O3'-C3'	-7.97	110.14	119.70
85	AA	1633	A	P-O3'-C3'	7.97	129.26	119.70
85	AA	1950	G	O4'-C1'-N9	7.97	114.57	108.20
85	AA	2058	C	C2-N1-C1'	-7.97	110.04	118.80
85	AA	2168	C	O4'-C1'-N1	7.97	114.57	108.20
34	BA	1816	G	C5-C6-N1	7.96	115.48	111.50
35	BB	438	G	C4-N9-C1'	-7.96	116.14	126.50
35	BB	878	G	C4-N9-C1'	-7.96	116.15	126.50
35	BB	1268	C	O4'-C1'-N1	7.96	114.57	108.20
37	BD	36	C	C5'-C4'-C3'	-7.96	103.26	116.00
39	BF	57	C	P-O3'-C3'	-7.96	110.14	119.70
85	AA	16	G	C5-C6-N1	7.96	115.48	111.50
85	AA	708	G	C5-C6-O6	-7.96	123.82	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	545	U	C5'-C4'-C3'	-7.96	103.26	116.00
34	BA	615	A	O3'-P-O5'	-7.96	88.87	104.00
40	BG	105	A	C5-C6-N1	7.96	121.68	117.70
85	AA	2143	U	C5'-C4'-C3'	-7.96	103.26	116.00
34	BA	1809	G	P-O3'-C3'	7.96	129.25	119.70
35	BB	1424	G	C4-N9-C1'	-7.96	116.15	126.50
85	AA	2231	G	N1-C6-O6	7.96	124.68	119.90
35	BB	798	A	O4'-C1'-N9	7.96	114.57	108.20
37	BD	92	G	C8-N9-C4	-7.96	103.22	106.40
49	BP	122	TYR	CB-CG-CD1	-7.96	116.22	121.00
85	AA	352	G	C1'-O4'-C4'	-7.96	103.53	109.90
34	BA	1724	G	O4'-C1'-N9	7.96	114.57	108.20
85	AA	917	A	C1'-O4'-C4'	-7.96	103.53	109.90
85	AA	924	A	O5'-P-OP2	-7.96	98.54	105.70
85	AA	928	U	O4'-C1'-N1	7.96	114.57	108.20
85	AA	1720	C	C5'-C4'-O4'	7.96	118.65	109.10
85	AA	2182	A	N1-C6-N6	7.96	123.38	118.60
34	BA	1666	U	C5'-C4'-C3'	-7.96	103.27	116.00
34	BA	1768	G	O4'-C1'-N9	7.96	114.56	108.20
35	BB	839	G	C1'-O4'-C4'	-7.96	103.53	109.90
37	BD	48	G	N1-C6-O6	7.96	124.67	119.90
57	BX	61	ARG	NE-CZ-NH1	7.96	124.28	120.30
79	Bt	103	ASP	N-CA-CB	-7.96	96.28	110.60
85	AA	887	A	C8-N9-C4	7.96	108.98	105.80
85	AA	925	G	O4'-C1'-N9	7.96	114.56	108.20
85	AA	1529	A	P-O3'-C3'	7.96	129.25	119.70
35	BB	648	G	P-O3'-C3'	-7.96	110.15	119.70
34	BA	1297	G	C4-N9-C1'	7.95	136.84	126.50
34	BA	1671	A	N1-C6-N6	-7.95	113.83	118.60
35	BB	16	G	C8-N9-C1'	7.95	137.34	127.00
35	BB	1035	C	C6-N1-C2	-7.95	117.12	120.30
38	BE	28	C	P-O3'-C3'	-7.95	110.16	119.70
41	BH	2	U	O4'-C1'-N1	7.95	114.56	108.20
59	BZ	80	ASP	N-CA-CB	-7.95	96.28	110.60
85	AA	111	A	N1-C6-N6	-7.95	113.83	118.60
85	AA	704	A	C4-C5-C6	-7.95	113.02	117.00
85	AA	2056	C	C3'-C2'-C1'	-7.95	95.14	101.50
86	AB	16	U	C2-N3-C4	7.95	131.77	127.00
41	BH	133	U	N3-C2-O2	-7.95	116.63	122.20
85	AA	295	U	O4'-C1'-N1	7.95	114.56	108.20
85	AA	1082	U	O4'-C1'-N1	7.95	114.56	108.20
85	AA	1701	G	C6-N1-C2	-7.95	120.33	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2058	C	N3-C2-O2	-7.95	116.33	121.90
24	AQ	48	ARG	NE-CZ-NH1	7.95	124.28	120.30
36	BC	101	U	O4'-C1'-N1	7.95	114.56	108.20
34	BA	431	A	P-O5'-C5'	-7.95	108.18	120.90
34	BA	758	G	O4'-C1'-N9	7.95	114.56	108.20
34	BA	904	G	N9-C1'-C2'	-7.95	103.26	112.00
35	BB	878	G	O4'-C1'-N9	7.95	114.56	108.20
35	BB	1025	A	O5'-C5'-C4'	7.95	126.80	111.70
37	BD	2	G	C4-N9-C1'	-7.95	116.17	126.50
38	BE	208	G	N9-C1'-C2'	-7.95	103.26	112.00
39	BF	29	U	O4'-C1'-N1	7.95	114.56	108.20
41	BH	40	C	P-O3'-C3'	-7.95	110.16	119.70
85	AA	57	G	C5'-C4'-C3'	-7.95	103.28	116.00
34	BA	23	A	C5-C6-N1	7.95	121.67	117.70
34	BA	400	A	N1-C6-N6	-7.95	113.83	118.60
35	BB	560	C	C2-N1-C1'	-7.95	110.06	118.80
35	BB	93	A	P-O5'-C5'	7.95	133.61	120.90
35	BB	278	U	O4'-C1'-N1	7.95	114.56	108.20
38	BE	204	U	C6-N1-C2	-7.95	116.23	121.00
85	AA	1954	C	C6-N1-C2	-7.95	117.12	120.30
11	AC	138	ARG	NE-CZ-NH1	7.94	124.27	120.30
34	BA	815	C	C4'-C3'-C2'	7.94	110.54	102.60
35	BB	1416	A	P-O5'-C5'	7.94	133.61	120.90
37	BD	85	C	C6-N1-C2	-7.94	117.12	120.30
34	BA	750	C	O4'-C1'-N1	7.94	114.55	108.20
35	BB	488	G	N7-C8-N9	-7.94	109.13	113.10
36	BC	43	A	P-O3'-C3'	-7.94	110.17	119.70
38	BE	88	G	N1-C6-O6	7.94	124.67	119.90
85	AA	188	G	C8-N9-C1'	7.94	137.32	127.00
85	AA	1986	G	P-O3'-C3'	-7.94	110.17	119.70
34	BA	1730	A	C5'-C4'-C3'	7.94	128.70	116.00
35	BB	373	C	O4'-C1'-N1	7.94	114.55	108.20
35	BB	454	U	C2-N1-C1'	-7.94	108.17	117.70
35	BB	1015	U	N3-C2-O2	-7.94	116.64	122.20
35	BB	1026	G	N3-C4-N9	-7.94	121.23	126.00
35	BB	1196	A	C4'-C3'-C2'	7.94	110.54	102.60
36	BC	35	C	C5'-C4'-C3'	7.94	128.70	116.00
38	BE	96	G	C3'-C2'-C1'	-7.94	95.15	101.50
38	BE	178	G	N9-C1'-C2'	-7.94	103.27	112.00
39	BF	52	A	C8-N9-C4	-7.94	102.62	105.80
85	AA	282	C	C1'-O4'-C4'	-7.94	103.55	109.90
85	AA	1509	A	C8-N9-C4	-7.94	102.62	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2218	G	N1-C6-O6	7.94	124.67	119.90
85	AA	86	G	C5'-C4'-C3'	7.94	128.70	116.00
85	AA	1831	U	C5'-C4'-C3'	-7.94	103.30	116.00
34	BA	247	U	C2-N1-C1'	7.94	127.23	117.70
34	BA	1182	U	P-O3'-C3'	-7.94	110.17	119.70
34	BA	1411	C	C2-N3-C4	-7.94	115.93	119.90
35	BB	610	U	C2-N1-C1'	-7.94	108.18	117.70
36	BC	133	C	P-O5'-C5'	7.94	133.60	120.90
38	BE	63	C	C4'-C3'-C2'	7.94	110.54	102.60
39	BF	35	C	O5'-P-OP1	-7.94	98.56	105.70
85	AA	309	G	N1-C6-O6	7.94	124.66	119.90
85	AA	375	C	N3-C2-O2	-7.94	116.34	121.90
85	AA	2153	G	C5'-C4'-C3'	-7.94	103.30	116.00
35	BB	1206	G	C5'-C4'-C3'	-7.94	103.30	116.00
40	BG	78	C	C5'-C4'-O4'	7.94	118.62	109.10
65	Bf	377	ASN	N-CA-CB	7.94	124.89	110.60
85	AA	820	G	C4-N9-C1'	-7.94	116.18	126.50
34	BA	567	U	C3'-C2'-C1'	-7.93	95.15	101.50
34	BA	585	G	N1-C6-O6	7.93	124.66	119.90
34	BA	684	G	N3-C2-N2	7.93	125.45	119.90
34	BA	1735	G	P-O5'-C5'	-7.93	108.21	120.90
35	BB	872	A	C3'-C2'-C1'	-7.93	95.15	101.50
85	AA	553	G	C5'-C4'-C3'	-7.93	103.31	116.00
85	AA	1204	A	C8-N9-C4	-7.93	102.63	105.80
34	BA	135	G	C5'-C4'-C3'	-7.93	103.31	116.00
34	BA	571	G	C8-N9-C1'	-7.93	116.69	127.00
35	BB	622	G	P-O3'-C3'	-7.93	110.18	119.70
39	BF	32	G	C2'-C3'-O3'	7.93	126.95	109.50
85	AA	1254	A	P-O3'-C3'	-7.93	110.18	119.70
85	AA	2069	A	C1'-O4'-C4'	-7.93	103.55	109.90
85	AA	2130	G	C4-N9-C1'	-7.93	116.19	126.50
34	BA	1408	C	O4'-C1'-N1	7.93	114.55	108.20
37	BD	51	G	O5'-C5'-C4'	-7.93	96.63	111.70
85	AA	842	G	P-O5'-C5'	-7.93	108.21	120.90
34	BA	1669	C	P-O3'-C3'	-7.93	110.18	119.70
35	BB	1506	C	C5'-C4'-C3'	7.93	128.69	116.00
85	AA	128	U	C2-N1-C1'	7.93	127.22	117.70
85	AA	714	U	P-O3'-C3'	7.93	129.22	119.70
85	AA	924	A	O3'-P-O5'	7.93	119.07	104.00
35	BB	814	A	C8-N9-C1'	7.93	141.97	127.70
34	BA	935	A	N1-C6-N6	7.93	123.36	118.60
34	BA	1694	C	C3'-C2'-C1'	-7.93	95.16	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	788	U	C6-N1-C1'	7.93	132.30	121.20
35	BB	869	G	C4-N9-C1'	-7.93	116.20	126.50
82	Bw	140	ASN	CB-CA-C	-7.93	94.55	110.40
85	AA	179	G	C4'-C3'-C2'	-7.93	94.67	102.60
85	AA	2142	A	C8-N9-C4	7.93	108.97	105.80
34	BA	1665	G	C8-N9-C1'	7.92	137.30	127.00
35	BB	378	C	C1'-O4'-C4'	-7.92	103.56	109.90
35	BB	438	G	C8-N9-C1'	7.92	137.30	127.00
35	BB	979	G	N1-C6-O6	7.92	124.65	119.90
37	BD	79	G	C4-N9-C1'	-7.92	116.20	126.50
39	BF	67	A	C5-C6-N6	-7.92	117.36	123.70
85	AA	1588	A	P-O5'-C5'	7.92	133.58	120.90
35	BB	57	G	C4-N9-C1'	-7.92	116.20	126.50
41	BH	132	C	O3'-P-O5'	-7.92	88.95	104.00
77	Br	298	ARG	NE-CZ-NH1	7.92	124.26	120.30
34	BA	501	U	P-O3'-C3'	7.92	129.21	119.70
34	BA	608	G	C5'-C4'-C3'	7.92	128.67	116.00
39	BF	53	G	P-O3'-C3'	7.92	129.21	119.70
85	AA	1176	C	C6-N1-C1'	7.92	130.31	120.80
34	BA	242	U	O4'-C1'-N1	7.92	114.54	108.20
35	BB	645	C	C6-N1-C2	-7.92	117.13	120.30
35	BB	1195	A	O4'-C1'-N9	7.92	114.54	108.20
34	BA	325	A	P-O3'-C3'	7.92	129.20	119.70
34	BA	875	G	C2'-C3'-O3'	7.92	126.92	109.50
34	BA	1746	G	C8-N9-C1'	7.92	137.29	127.00
35	BB	26	C	P-O3'-C3'	-7.92	110.20	119.70
35	BB	540	G	C5-C6-O6	-7.92	123.85	128.60
35	BB	1523	U	P-O3'-C3'	-7.92	110.20	119.70
37	BD	87	G	C6-N1-C2	-7.92	120.35	125.10
34	BA	94	G	N1-C6-O6	-7.92	115.15	119.90
35	BB	472	C	N3-C2-O2	-7.92	116.36	121.90
39	BF	23	G	O3'-P-O5'	7.92	119.04	104.00
34	BA	1440	C	P-O5'-C5'	-7.92	108.24	120.90
35	BB	580	A	P-O5'-C5'	7.92	133.56	120.90
38	BE	104	G	N3-C4-C5	-7.92	124.64	128.60
85	AA	351	C	O3'-P-O5'	7.92	119.04	104.00
21	AM	114	ARG	NE-CZ-NH2	-7.91	116.34	120.30
34	BA	115	U	N1-C1'-C2'	7.91	124.29	114.00
35	BB	1362	G	C5'-C4'-C3'	7.91	128.66	116.00
37	BD	73	U	C4'-C3'-C2'	7.91	110.51	102.60
77	Br	349	ARG	NE-CZ-NH1	7.91	124.26	120.30
85	AA	16	G	C4-N9-C1'	-7.91	116.21	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	17	C	O4'-C1'-N1	7.91	114.53	108.20
85	AA	926	C	P-O5'-C5'	-7.91	108.24	120.90
85	AA	1178	A	P-O3'-C3'	7.91	129.20	119.70
35	BB	1372	G	C5'-C4'-C3'	-7.91	103.34	116.00
85	AA	1252	A	C1'-O4'-C4'	-7.91	103.57	109.90
35	BB	384	A	P-O5'-C5'	-7.91	108.24	120.90
62	Bc	119	ARG	NE-CZ-NH1	7.91	124.25	120.30
85	AA	753	U	C5'-C4'-O4'	7.91	118.59	109.10
3	A2	149	PHE	CB-CG-CD1	7.91	126.34	120.80
34	BA	574	U	O4'-C4'-C3'	-7.91	96.09	104.00
34	BA	1223	C	C4'-C3'-C2'	7.91	110.51	102.60
35	BB	1130	U	N3-C2-O2	-7.91	116.67	122.20
36	BC	23	G	N3-C2-N2	7.91	125.44	119.90
40	BG	71	C	C5-C4-N4	-7.91	114.66	120.20
85	AA	40	A	N1-C6-N6	7.91	123.34	118.60
34	BA	796	G	N7-C8-N9	7.91	117.05	113.10
34	BA	889	U	C2-N3-C4	-7.91	122.26	127.00
34	BA	563	A	O4'-C1'-N9	7.91	114.52	108.20
34	BA	684	G	O5'-P-OP1	-7.91	98.58	105.70
35	BB	532	C	C6-N1-C2	-7.91	117.14	120.30
35	BB	1168	G	C6-N1-C2	-7.91	120.36	125.10
35	BB	1313	C	C6-N1-C2	-7.91	117.14	120.30
5	A4	91	PHE	CB-CG-CD1	-7.90	115.27	120.80
85	AA	413	G	O4'-C1'-N9	7.90	114.52	108.20
85	AA	2248	A	N1-C6-N6	-7.90	113.86	118.60
34	BA	377	G	P-O5'-C5'	-7.90	108.26	120.90
65	Bf	143	TYR	N-CA-CB	7.90	124.83	110.60
85	AA	821	U	N3-C2-O2	-7.90	116.67	122.20
7	A6	25	ARG	NE-CZ-NH2	-7.90	116.35	120.30
34	BA	1558	C	O4'-C1'-N1	7.90	114.52	108.20
35	BB	1127	A	P-O3'-C3'	-7.90	110.22	119.70
35	BB	1510	G	C4'-C3'-C2'	-7.90	94.70	102.60
36	BC	23	G	C5-C6-N1	7.90	115.45	111.50
36	BC	89	U	P-O5'-C5'	-7.90	108.26	120.90
36	BC	124	A	C8-N9-C4	-7.90	102.64	105.80
38	BE	70	C	C5'-C4'-C3'	-7.90	103.36	116.00
19	AK	88	ARG	NE-CZ-NH2	-7.90	116.35	120.30
34	BA	1555	G	C4-N9-C1'	-7.90	116.23	126.50
35	BB	1084	A	C4'-C3'-C2'	-7.90	94.70	102.60
35	BB	1542	C	O4'-C1'-N1	7.90	114.52	108.20
85	AA	1119	A	C1'-O4'-C4'	-7.90	103.58	109.90
34	BA	86	A	P-O5'-C5'	7.90	133.54	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	166	G	C8-N9-C4	7.90	109.56	106.40
35	BB	802	G	P-O3'-C3'	-7.90	110.22	119.70
35	BB	1100	C	P-O3'-C3'	-7.90	110.22	119.70
85	AA	272	C	O4'-C1'-N1	7.90	114.52	108.20
85	AA	983	A	C5'-C4'-C3'	-7.90	103.36	116.00
34	BA	559	C	O4'-C1'-N1	7.90	114.52	108.20
34	BA	557	U	OP1-P-OP2	-7.89	107.76	119.60
35	BB	528	G	O4'-C1'-N9	7.89	114.52	108.20
35	BB	1099	U	O4'-C1'-N1	7.89	114.52	108.20
39	BF	8	C	C6-N1-C2	-7.89	117.14	120.30
85	AA	1754	G	P-O5'-C5'	7.89	133.53	120.90
34	BA	211	C	N3-C2-O2	-7.89	116.38	121.90
34	BA	249	A	C8-N9-C4	-7.89	102.64	105.80
34	BA	363	G	N1-C6-O6	7.89	124.64	119.90
35	BB	711	C	C2-N1-C1'	-7.89	110.12	118.80
40	BG	94	G	P-O5'-C5'	7.89	133.53	120.90
41	BH	47	G	C6-N1-C2	-7.89	120.36	125.10
85	AA	643	C	C6-N1-C1'	7.89	130.27	120.80
85	AA	1512	U	C2-N3-C4	-7.89	122.26	127.00
34	BA	1437	G	C5-C6-N1	7.89	115.45	111.50
35	BB	488	G	C8-N9-C4	7.89	109.56	106.40
35	BB	604	C	C6-N1-C2	-7.89	117.14	120.30
5	A4	10	LEU	N-CA-CB	-7.89	94.62	110.40
34	BA	1594	G	N1-C6-O6	7.89	124.63	119.90
35	BB	738	G	C5-C6-O6	-7.89	123.87	128.60
35	BB	870	C	C5'-C4'-C3'	-7.89	103.38	116.00
37	BD	97	U	C2-N1-C1'	-7.89	108.23	117.70
71	Bl	114	ARG	NE-CZ-NH1	7.89	124.24	120.30
85	AA	124	A	P-O3'-C3'	7.89	129.17	119.70
85	AA	1455	C	O4'-C1'-N1	7.89	114.51	108.20
85	AA	1500	C	C6-N1-C2	-7.89	117.14	120.30
34	BA	55	G	C5-C6-N1	7.89	115.44	111.50
34	BA	127	U	C2-N1-C1'	-7.89	108.23	117.70
34	BA	1565	U	P-O3'-C3'	-7.89	110.23	119.70
34	BA	1802	C	C5'-C4'-C3'	7.89	128.62	116.00
34	BA	1515	U	C5'-C4'-O4'	7.89	118.56	109.10
85	AA	533	C	C5-C4-N4	-7.89	114.68	120.20
85	AA	825	U	O4'-C1'-N1	7.89	114.51	108.20
34	BA	504	A	C5-C6-N6	7.88	130.01	123.70
34	BA	1814	U	O4'-C1'-N1	7.88	114.51	108.20
35	BB	367	C	C5'-C4'-C3'	-7.88	103.38	116.00
36	BC	54	G	C6-N1-C2	-7.88	120.37	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	46	G	C8-N9-C1'	7.88	137.25	127.00
40	BG	8	U	C2-N1-C1'	-7.88	108.24	117.70
85	AA	1226	A	C3'-C2'-C1'	-7.88	95.19	101.50
85	AA	1670	U	P-O3'-C3'	-7.88	110.24	119.70
34	BA	1397	C	C6-N1-C2	-7.88	117.15	120.30
35	BB	964	G	N9-C1'-C2'	-7.88	103.33	112.00
39	BF	4	A	C8-N9-C4	7.88	108.95	105.80
85	AA	1190	G	P-O5'-C5'	-7.88	108.29	120.90
4	A3	162	ARG	NE-CZ-NH1	7.88	124.24	120.30
5	A4	136	TYR	CB-CG-CD1	-7.88	116.27	121.00
34	BA	519	G	C1'-O4'-C4'	-7.88	103.59	109.90
34	BA	661	C	C5'-C4'-C3'	7.88	128.61	116.00
34	BA	1601	C	C4'-C3'-C2'	7.88	110.48	102.60
35	BB	852	G	C5'-C4'-C3'	-7.88	103.39	116.00
35	BB	1191	G	C4-N9-C1'	-7.88	116.25	126.50
38	BE	134	A	C4-C5-C6	-7.88	113.06	117.00
40	BG	126	G	C5-C6-N1	7.88	115.44	111.50
56	BW	88	ARG	NE-CZ-NH2	-7.88	116.36	120.30
85	AA	2204	A	C5'-C4'-C3'	-7.88	103.39	116.00
34	BA	1707	C	P-O3'-C3'	-7.88	110.24	119.70
35	BB	814	A	C4-N9-C1'	-7.88	112.11	126.30
34	BA	243	C	C2-N1-C1'	-7.88	110.13	118.80
34	BA	677	U	C5'-C4'-C3'	-7.88	103.39	116.00
35	BB	1524	G	C4-N9-C1'	-7.88	116.26	126.50
38	BE	173	G	O3'-P-O5'	7.88	118.97	104.00
40	BG	87	G	O3'-P-O5'	-7.88	89.03	104.00
85	AA	737	G	C8-N9-C1'	-7.88	116.76	127.00
85	AA	1525	C	C2-N1-C1'	-7.88	110.13	118.80
85	AA	1690	A	P-O3'-C3'	7.88	129.16	119.70
85	AA	2123	U	N3-C2-O2	-7.88	116.69	122.20
34	BA	559	C	C5-C6-N1	7.88	124.94	121.00
34	BA	895	U	O4'-C1'-N1	7.88	114.50	108.20
34	BA	1186	U	O4'-C1'-N1	7.88	114.50	108.20
34	BA	1343	A	N1-C6-N6	-7.88	113.87	118.60
35	BB	1413	U	O4'-C1'-N1	7.88	114.50	108.20
41	BH	48	G	C8-N9-C4	-7.88	103.25	106.40
41	BH	86	G	C5-C6-O6	-7.88	123.87	128.60
85	AA	330	C	C5-C6-N1	7.88	124.94	121.00
85	AA	959	C	P-O5'-C5'	-7.88	108.30	120.90
85	AA	1275	A	C5'-C4'-O4'	7.88	118.55	109.10
85	AA	2217	A	P-O5'-C5'	-7.88	108.30	120.90
34	BA	836	U	O4'-C1'-N1	7.88	114.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1369	C	O4'-C1'-N1	7.88	114.50	108.20
34	BA	485	C	C5'-C4'-C3'	7.87	128.60	116.00
34	BA	1469	G	C5'-C4'-C3'	7.87	128.60	116.00
34	BA	1567	G	O4'-C1'-N9	7.87	114.50	108.20
34	BA	1639	U	C2-N1-C1'	-7.87	108.25	117.70
35	BB	418	G	C1'-O4'-C4'	-7.87	103.60	109.90
36	BC	39	G	N1-C6-O6	7.87	124.62	119.90
39	BF	46	G	C3'-C2'-C1'	-7.87	95.20	101.50
40	BG	52	A	C5'-C4'-C3'	-7.87	103.40	116.00
41	BH	39	G	C5-C6-N1	7.87	115.44	111.50
85	AA	974	U	O5'-C5'-C4'	7.87	126.66	111.70
34	BA	493	G	P-O5'-C5'	-7.87	108.31	120.90
37	BD	97	U	C4'-C3'-C2'	7.87	110.47	102.60
85	AA	281	C	O4'-C1'-N1	7.87	114.50	108.20
35	BB	92	C	O4'-C1'-N1	7.87	114.50	108.20
34	BA	372	U	C3'-C2'-C1'	-7.87	95.20	101.50
35	BB	493	U	O4'-C1'-N1	7.87	114.49	108.20
81	Bv	42	ARG	NE-CZ-NH2	-7.87	116.36	120.30
85	AA	353	G	C4-N9-C1'	-7.87	116.27	126.50
37	BD	52	U	P-O3'-C3'	-7.87	110.26	119.70
38	BE	194	A	P-O5'-C5'	7.87	133.49	120.90
40	BG	152	G	N3-C2-N2	7.87	125.41	119.90
57	BX	55	ARG	NE-CZ-NH1	7.87	124.23	120.30
34	BA	1577	U	C2-N1-C1'	-7.87	108.26	117.70
35	BB	599	U	C2-N3-C4	-7.87	122.28	127.00
40	BG	125	C	O4'-C1'-N1	7.87	114.49	108.20
41	BH	86	G	C2-N3-C4	7.87	115.83	111.90
85	AA	507	C	P-O3'-C3'	-7.87	110.26	119.70
85	AA	1291	A	C3'-C2'-C1'	-7.87	95.21	101.50
34	BA	283	U	C6-N1-C2	-7.86	116.28	121.00
34	BA	1508	C	O3'-P-O5'	7.86	118.94	104.00
35	BB	590	G	O4'-C1'-N9	7.86	114.49	108.20
35	BB	704	G	O5'-C5'-C4'	-7.86	96.76	111.70
35	BB	1441	C	C2-N3-C4	-7.86	115.97	119.90
38	BE	70	C	C2-N1-C1'	-7.86	110.15	118.80
85	AA	768	C	O4'-C1'-N1	7.86	114.49	108.20
85	AA	792	A	P-O3'-C3'	7.86	129.14	119.70
15	AG	20	ARG	NE-CZ-NH1	7.86	124.23	120.30
35	BB	1201	G	C1'-O4'-C4'	-7.86	103.61	109.90
85	AA	818	C	C6-N1-C2	-7.86	117.16	120.30
85	AA	316	C	C6-N1-C2	-7.86	117.16	120.30
85	AA	321	C	O4'-C1'-N1	7.86	114.49	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	116	C	N3-C2-O2	-7.86	116.40	121.90
39	BF	49	C	C1'-O4'-C4'	-7.86	103.61	109.90
85	AA	1000	U	C6-N1-C2	-7.86	116.28	121.00
85	AA	1252	A	P-O5'-C5'	-7.86	108.33	120.90
85	AA	1509	A	C5'-C4'-C3'	7.86	128.57	116.00
35	BB	805	G	C5-C6-N1	-7.86	107.57	111.50
35	BB	1314	G	C1'-O4'-C4'	-7.86	103.61	109.90
37	BD	65	G	C8-N9-C1'	7.86	137.22	127.00
38	BE	20	C	O4'-C4'-C3'	-7.86	96.14	104.00
38	BE	132	U	C6-N1-C2	-7.86	116.29	121.00
38	BE	147	G	N1-C6-O6	7.86	124.61	119.90
34	BA	525	A	P-O3'-C3'	7.86	129.13	119.70
34	BA	1307	U	O4'-C1'-N1	7.86	114.48	108.20
34	BA	1767	G	O4'-C1'-N9	7.86	114.48	108.20
57	BX	55	ARG	NE-CZ-NH2	-7.86	116.37	120.30
85	AA	766	G	P-O5'-C5'	7.86	133.47	120.90
85	AA	1548	A	P-O3'-C3'	7.86	129.13	119.70
34	BA	1379	G	O3'-P-O5'	-7.85	89.08	104.00
38	BE	204	U	P-O5'-C5'	-7.85	108.33	120.90
40	BG	115	C	O4'-C1'-N1	7.85	114.48	108.20
41	BH	26	C	O5'-P-OP2	7.85	120.12	110.70
34	BA	932	G	C4'-C3'-C2'	-7.85	94.75	102.60
34	BA	1591	G	N7-C8-N9	-7.85	109.17	113.10
37	BD	106	G	C5-C6-N1	7.85	115.43	111.50
85	AA	266	U	C6-N1-C1'	-7.85	110.21	121.20
85	AA	469	G	N1-C2-N2	-7.85	109.13	116.20
85	AA	686	U	C5'-C4'-C3'	-7.85	103.44	116.00
85	AA	737	G	C5'-C4'-C3'	-7.85	103.44	116.00
85	AA	1720	C	O4'-C4'-C3'	7.85	112.38	106.10
38	BE	166	G	C5-C6-O6	-7.85	123.89	128.60
85	AA	551	C	C1'-O4'-C4'	-7.85	103.62	109.90
18	AJ	111	MET	CG-SD-CE	-7.85	87.64	100.20
19	AK	129	ARG	NE-CZ-NH1	7.85	124.22	120.30
34	BA	166	G	OP2-P-O3'	7.85	122.47	105.20
34	BA	1722	U	O4'-C1'-N1	7.85	114.48	108.20
35	BB	704	G	N3-C2-N2	7.85	125.39	119.90
35	BB	1426	G	C5'-C4'-C3'	-7.85	103.44	116.00
40	BG	16	G	C2-N3-C4	7.85	115.83	111.90
85	AA	527	A	P-O5'-C5'	7.85	133.46	120.90
85	AA	690	G	N1-C6-O6	-7.85	115.19	119.90
85	AA	1536	C	P-O3'-C3'	-7.85	110.28	119.70
34	BA	306	G	C1'-O4'-C4'	-7.85	103.62	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	829	U	C3'-C2'-C1'	-7.85	95.22	101.50
71	Bl	37	ARG	NE-CZ-NH1	7.85	124.22	120.30
85	AA	636	G	C5-C6-O6	-7.85	123.89	128.60
34	BA	13	U	C2'-C3'-O3'	7.85	126.76	109.50
85	AA	802	A	C5'-C4'-C3'	7.85	128.55	116.00
85	AA	1162	A	C1'-O4'-C4'	-7.85	103.62	109.90
85	AA	2171	A	O3'-P-O5'	-7.85	89.09	104.00
34	BA	86	A	C5-C6-N6	-7.84	117.42	123.70
35	BB	805	G	O5'-C5'-C4'	-7.84	96.80	111.70
85	AA	422	G	C4-N9-C1'	-7.84	116.30	126.50
85	AA	1457	C	O4'-C1'-N1	7.84	114.48	108.20
85	AA	1687	U	C1'-O4'-C4'	-7.84	103.62	109.90
85	AA	21	U	C4'-C3'-C2'	7.84	110.44	102.60
85	AA	302	C	O5'-C5'-C4'	7.84	126.60	111.70
85	AA	365	G	N1-C6-O6	-7.84	115.19	119.90
85	AA	1827	U	P-O3'-C3'	-7.84	110.29	119.70
34	BA	367	G	C4-N9-C1'	7.84	136.69	126.50
34	BA	772	G	C8-N9-C4	-7.84	103.26	106.40
34	BA	1746	G	C4-N9-C1'	-7.84	116.31	126.50
35	BB	751	A	O4'-C1'-N9	7.84	114.47	108.20
85	AA	24	U	O5'-C5'-C4'	-7.84	96.80	111.70
85	AA	822	U	C3'-C2'-C1'	-7.84	95.23	101.50
85	AA	980	U	C5'-C4'-C3'	-7.84	103.45	116.00
85	AA	1449	C	O4'-C1'-N1	7.84	114.47	108.20
34	BA	568	G	C1'-O4'-C4'	-7.84	103.63	109.90
34	BA	832	C	O4'-C1'-N1	7.84	114.47	108.20
34	BA	851	C	O4'-C1'-N1	7.84	114.47	108.20
34	BA	1482	A	C8-N9-C4	7.84	108.94	105.80
34	BA	1829	A	C4'-C3'-C2'	-7.84	94.76	102.60
38	BE	154	A	P-O3'-C3'	-7.84	110.29	119.70
85	AA	145	C	P-O5'-C5'	7.84	133.44	120.90
85	AA	469	G	C5-N7-C8	7.84	108.22	104.30
85	AA	611	G	P-O5'-C5'	-7.84	108.36	120.90
85	AA	1146	C	C5'-C4'-C3'	-7.84	103.46	116.00
85	AA	1799	C	C5'-C4'-C3'	-7.84	103.46	116.00
85	AA	1976	G	C8-N9-C1'	7.84	137.19	127.00
35	BB	505	G	N3-C4-C5	-7.84	124.68	128.60
85	AA	115	U	C5'-C4'-C3'	7.84	128.54	116.00
85	AA	1172	A	N1-C6-N6	7.84	123.30	118.60
34	BA	573	U	C4'-C3'-C2'	-7.84	94.76	102.60
34	BA	1792	U	N3-C2-O2	-7.84	116.71	122.20
35	BB	1536	G	C5-C6-O6	-7.84	123.90	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	35	U	C6-N1-C2	-7.84	116.30	121.00
85	AA	113	U	C3'-C2'-C1'	-7.84	95.23	101.50
85	AA	1271	U	O4'-C1'-N1	7.84	114.47	108.20
85	AA	1536	C	O5'-C5'-C4'	7.84	126.59	111.70
34	BA	72	U	P-O5'-C5'	7.83	133.44	120.90
34	BA	379	C	C6-N1-C2	-7.83	117.17	120.30
34	BA	1110	A	N1-C6-N6	-7.83	113.90	118.60
34	BA	157	U	C5'-C4'-C3'	7.83	128.53	116.00
34	BA	945	A	P-O3'-C3'	7.83	129.10	119.70
34	BA	1288	U	P-O5'-C5'	-7.83	108.37	120.90
34	BA	1395	C	O4'-C1'-N1	7.83	114.47	108.20
35	BB	385	C	O4'-C1'-N1	7.83	114.47	108.20
40	BG	81	G	C5-C6-O6	-7.83	123.90	128.60
60	Ba	93	ARG	NE-CZ-NH1	7.83	124.22	120.30
85	AA	289	G	O4'-C1'-N9	7.83	114.47	108.20
85	AA	427	G	P-O5'-C5'	7.83	133.43	120.90
85	AA	750	A	C4-N9-C1'	-7.83	112.20	126.30
85	AA	1204	A	C5-C6-N6	7.83	129.97	123.70
85	AA	1468	G	P-O5'-C5'	7.83	133.43	120.90
85	AA	1495	G	C5-C6-N1	7.83	115.42	111.50
85	AA	2248	A	O4'-C1'-N9	7.83	114.47	108.20
16	AH	9	TYR	CB-CG-CD2	-7.83	116.30	121.00
34	BA	437	G	C5-C6-O6	-7.83	123.90	128.60
35	BB	68	G	O3'-P-O5'	7.83	118.88	104.00
35	BB	971	A	N1-C6-N6	7.83	123.30	118.60
38	BE	117	A	P-O3'-C3'	-7.83	110.30	119.70
85	AA	1140	G	P-O5'-C5'	-7.83	108.37	120.90
85	AA	2173	A	P-O5'-C5'	7.83	133.43	120.90
34	BA	241	U	C5'-C4'-C3'	-7.83	103.47	116.00
34	BA	937	G	N1-C2-N2	-7.83	109.15	116.20
35	BB	1137	G	C5'-C4'-O4'	7.83	118.50	109.10
34	BA	1505	G	C2-N3-C4	-7.83	107.98	111.90
35	BB	272	C	O4'-C1'-N1	7.83	114.46	108.20
35	BB	533	U	C1'-O4'-C4'	-7.83	103.64	109.90
85	AA	383	C	O4'-C1'-N1	7.83	114.46	108.20
85	AA	1702	G	O5'-C5'-C4'	-7.83	96.83	111.70
85	AA	1864	G	C5'-C4'-C3'	-7.83	103.47	116.00
34	BA	1725	U	C2'-C3'-O3'	7.83	126.72	109.50
35	BB	871	C	C2-N1-C1'	-7.83	110.19	118.80
35	BB	956	G	P-O5'-C5'	7.83	133.42	120.90
34	BA	497	U	N3-C2-O2	-7.83	116.72	122.20
34	BA	632	U	O4'-C1'-N1	7.83	114.46	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	763	U	O4'-C1'-C2'	-7.83	97.97	105.80
38	BE	43	A	P-O3'-C3'	-7.83	110.31	119.70
85	AA	64	A	C4'-C3'-C2'	-7.83	94.78	102.60
85	AA	964	C	O3'-P-O5'	-7.83	89.13	104.00
85	AA	1594	G	P-O3'-C3'	-7.83	110.31	119.70
1	A0	177	ARG	NE-CZ-NH1	7.82	124.21	120.30
34	BA	316	G	C5-C6-O6	-7.82	123.91	128.60
35	BB	963	G	C3'-C2'-C1'	-7.82	95.24	101.50
40	BG	112	C	C2-N1-C1'	-7.82	110.19	118.80
85	AA	330	C	N3-C4-C5	-7.82	118.77	121.90
85	AA	1848	G	C6-C5-N7	-7.82	125.71	130.40
86	AB	48	C	N1-C2-O2	7.82	123.59	118.90
34	BA	487	A	O4'-C1'-C2'	-7.82	97.98	105.80
34	BA	641	U	O4'-C1'-N1	7.82	114.46	108.20
85	AA	2052	U	P-O3'-C3'	-7.82	110.31	119.70
34	BA	6	C	O4'-C1'-N1	7.82	114.46	108.20
34	BA	127	U	C2'-C3'-O3'	7.82	126.71	109.50
34	BA	740	A	O4'-C4'-C3'	-7.82	96.18	104.00
34	BA	1247	G	O4'-C1'-N9	7.82	114.46	108.20
35	BB	1461	C	C3'-C2'-C1'	-7.82	95.24	101.50
35	BB	1500	U	C5'-C4'-C3'	7.82	128.51	116.00
40	BG	55	A	C8-N9-C4	7.82	108.93	105.80
84	By	128	VAL	N-CA-C	-7.82	89.88	111.00
85	AA	118	C	O4'-C1'-N1	7.82	114.46	108.20
85	AA	237	G	O4'-C1'-N9	7.82	114.46	108.20
86	AB	62	C	O4'-C1'-N1	7.82	114.46	108.20
35	BB	572	G	N9-C1'-C2'	-7.82	103.40	112.00
34	BA	883	C	C2-N1-C1'	7.82	127.40	118.80
34	BA	1468	U	C2-N1-C1'	-7.82	108.32	117.70
35	BB	838	G	C8-N9-C4	-7.82	103.27	106.40
35	BB	1507	U	P-O3'-C3'	7.82	129.08	119.70
38	BE	105	A	N1-C6-N6	7.82	123.29	118.60
85	AA	611	G	C8-N9-C1'	7.82	137.16	127.00
85	AA	831	C	C4'-C3'-C2'	-7.82	94.78	102.60
85	AA	881	C	C2-N1-C1'	-7.82	110.20	118.80
34	BA	222	C	N1-C2-N3	7.82	124.67	119.20
34	BA	556	A	C2-N3-C4	-7.82	106.69	110.60
34	BA	782	C	N1-C2-O2	-7.82	114.21	118.90
36	BC	88	A	C8-N9-C4	-7.82	102.67	105.80
85	AA	251	A	N1-C6-N6	-7.82	113.91	118.60
34	BA	966	G	N9-C1'-C2'	-7.81	103.41	112.00
34	BA	531	C	O4'-C4'-C3'	-7.81	96.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	611	A	O4'-C1'-N9	7.81	114.45	108.20
38	BE	6	A	C5-C6-N6	-7.81	117.45	123.70
34	BA	582	U	N1-C2-O2	7.81	128.27	122.80
34	BA	864	G	OP1-P-OP2	-7.81	107.88	119.60
34	BA	1705	C	C5'-C4'-C3'	7.81	128.50	116.00
35	BB	431	U	N3-C2-O2	-7.81	116.73	122.20
34	BA	1219	G	C5'-C4'-C3'	-7.81	103.50	116.00
35	BB	1284	U	O4'-C1'-N1	7.81	114.45	108.20
39	BF	12	U	O5'-P-OP1	-7.81	98.67	105.70
85	AA	903	G	O4'-C1'-N9	7.81	114.45	108.20
85	AA	2024	U	C1'-O4'-C4'	-7.81	103.65	109.90
34	BA	698	U	C3'-C2'-C1'	-7.81	95.25	101.50
35	BB	587	A	N1-C6-N6	7.81	123.28	118.60
35	BB	1484	A	C8-N9-C4	-7.81	102.68	105.80
38	BE	182	U	O4'-C1'-N1	7.81	114.45	108.20
40	BG	103	C	C6-N1-C2	-7.81	117.18	120.30
85	AA	575	G	C4-N9-C1'	-7.81	116.35	126.50
85	AA	967	C	C6-N1-C1'	7.81	130.17	120.80
85	AA	1179	A	C4'-C3'-C2'	-7.81	94.79	102.60
38	BE	83	U	O5'-P-OP2	7.81	120.07	110.70
5	A4	155	MET	CB-CA-C	7.80	126.01	110.40
19	AK	78	SER	N-CA-CB	7.80	122.21	110.50
34	BA	763	U	C3'-C2'-C1'	7.80	107.74	101.50
34	BA	1206	C	C2-N1-C1'	7.80	127.39	118.80
34	BA	1324	G	C5-C6-N1	7.80	115.40	111.50
36	BC	113	G	P-O3'-C3'	-7.80	110.33	119.70
39	BF	51	C	C5'-C4'-C3'	-7.80	103.51	116.00
74	Bo	56	ARG	N-CA-CB	7.80	124.65	110.60
85	AA	1459	C	C2-N3-C4	-7.80	116.00	119.90
35	BB	141	G	C5-C6-O6	-7.80	123.92	128.60
38	BE	18	U	O3'-P-O5'	7.80	118.83	104.00
45	BL	140	ARG	NE-CZ-NH2	-7.80	116.40	120.30
34	BA	281	C	O5'-C5'-C4'	-7.80	96.88	111.70
34	BA	685	C	C6-N1-C1'	-7.80	111.44	120.80
34	BA	1083	A	N1-C2-N3	-7.80	125.40	129.30
34	BA	1739	G	N1-C6-O6	7.80	124.58	119.90
35	BB	412	A	O4'-C1'-N9	7.80	114.44	108.20
85	AA	162	A	C5'-C4'-C3'	-7.80	103.52	116.00
85	AA	492	C	C5'-C4'-C3'	-7.80	103.52	116.00
85	AA	1213	U	C2-N3-C4	-7.80	122.32	127.00
85	AA	1719	C	O5'-C5'-C4'	7.80	126.52	111.70
34	BA	782	C	P-O3'-C3'	-7.80	110.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	950	C	C5'-C4'-C3'	-7.80	103.52	116.00
34	BA	1164	C	O4'-C1'-N1	7.80	114.44	108.20
38	BE	63	C	C5'-C4'-C3'	7.80	128.48	116.00
40	BG	149	U	C1'-O4'-C4'	-7.80	103.66	109.90
85	AA	80	G	P-O5'-C5'	-7.80	108.42	120.90
85	AA	265	A	C3'-C2'-C1'	-7.80	95.26	101.50
85	AA	488	G	C5-C6-N1	7.80	115.40	111.50
85	AA	2194	U	C2-N1-C1'	-7.80	108.34	117.70
34	BA	81	C	O4'-C1'-C2'	7.80	114.62	107.60
34	BA	817	U	C5'-C4'-O4'	7.80	118.46	109.10
34	BA	980	C	C5'-C4'-C3'	-7.80	103.52	116.00
85	AA	534	A	C4-N9-C1'	-7.80	112.26	126.30
34	BA	1450	G	N1-C6-O6	7.80	124.58	119.90
34	BA	1611	A	C8-N9-C4	-7.80	102.68	105.80
45	BL	56	ARG	NE-CZ-NH2	-7.80	116.40	120.30
8	A7	5	TYR	CB-CG-CD2	-7.79	116.32	121.00
84	By	178	TYR	CB-CG-CD1	7.79	125.68	121.00
85	AA	158	C	C6-N1-C1'	7.79	130.15	120.80
85	AA	1009	G	C8-N9-C1'	7.79	137.13	127.00
34	BA	97	A	N1-C6-N6	-7.79	113.92	118.60
35	BB	52	G	C4-N9-C1'	-7.79	116.37	126.50
35	BB	132	G	C8-N9-C1'	7.79	137.13	127.00
35	BB	1399	A	C8-N9-C4	7.79	108.92	105.80
35	BB	1544	A	C4-N9-C1'	-7.79	112.27	126.30
85	AA	569	A	C5-C6-N6	7.79	129.93	123.70
85	AA	1823	G	C4'-C3'-C2'	7.79	110.39	102.60
35	BB	38	C	C5'-C4'-C3'	-7.79	103.53	116.00
35	BB	603	U	C5'-C4'-O4'	7.79	118.45	109.10
35	BB	888	U	O4'-C1'-N1	7.79	114.43	108.20
77	Br	77	ARG	NE-CZ-NH1	7.79	124.20	120.30
85	AA	187	C	C1'-O4'-C4'	-7.79	103.67	109.90
7	A6	170	ARG	NE-CZ-NH1	7.79	124.19	120.30
34	BA	528	C	C5-C6-N1	7.79	124.89	121.00
34	BA	1300	G	C5'-C4'-C3'	-7.79	103.54	116.00
35	BB	2	C	P-O3'-C3'	-7.79	110.35	119.70
53	BT	110	ARG	NE-CZ-NH1	7.79	124.19	120.30
84	By	111	ARG	NE-CZ-NH1	7.79	124.19	120.30
85	AA	304	G	O3'-P-O5'	7.79	118.80	104.00
85	AA	857	G	C3'-C2'-C1'	-7.79	95.27	101.50
35	BB	1167	C	C2'-C3'-O3'	7.79	126.63	109.50
15	AG	128	TYR	CB-CG-CD2	7.79	125.67	121.00
34	BA	1300	G	C1'-O4'-C4'	-7.79	103.67	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1809	G	O3'-P-O5'	7.79	118.79	104.00
35	BB	1168	G	P-O3'-C3'	-7.79	110.36	119.70
40	BG	146	C	C1'-O4'-C4'	-7.79	103.67	109.90
53	BT	65	GLN	N-CA-CB	-7.79	96.59	110.60
67	Bh	148	ARG	CD-NE-CZ	-7.79	112.70	123.60
35	BB	806	U	C2-N3-C4	-7.78	122.33	127.00
85	AA	1432	C	N3-C4-N4	7.78	123.45	118.00
85	AA	1837	U	O4'-C1'-N1	7.78	114.43	108.20
38	BE	184	G	C8-N9-C4	-7.78	103.29	106.40
38	BE	195	G	N1-C2-N2	-7.78	109.20	116.20
85	AA	824	C	P-O3'-C3'	7.78	129.04	119.70
85	AA	1213	U	C2-N1-C1'	7.78	127.04	117.70
34	BA	124	G	C8-N9-C1'	7.78	137.12	127.00
34	BA	565	U	C5'-C4'-C3'	-7.78	103.55	116.00
34	BA	772	G	N7-C8-N9	7.78	116.99	113.10
34	BA	1022	C	O4'-C1'-N1	7.78	114.42	108.20
34	BA	1109	G	N9-C1'-C2'	-7.78	103.44	112.00
34	BA	1261	G	P-O3'-C3'	-7.78	110.36	119.70
35	BB	865	C	P-O3'-C3'	-7.78	110.36	119.70
35	BB	1232	A	C1'-O4'-C4'	-7.78	103.67	109.90
36	BC	23	G	C5-C6-O6	7.78	133.27	128.60
38	BE	32	U	O4'-C1'-N1	-7.78	101.98	108.20
34	BA	104	A	C3'-C2'-C1'	-7.78	95.28	101.50
35	BB	1477	C	C6-N1-C2	-7.78	117.19	120.30
40	BG	12	A	C5'-C4'-O4'	7.78	118.44	109.10
85	AA	584	G	N1-C6-O6	7.78	124.57	119.90
85	AA	1595	G	C5-C6-O6	-7.78	123.93	128.60
34	BA	601	A	C5'-C4'-C3'	7.78	128.44	116.00
34	BA	743	A	C6-C5-N7	-7.78	126.86	132.30
34	BA	779	U	O4'-C1'-N1	7.78	114.42	108.20
35	BB	600	C	N1-C1'-C2'	-7.78	103.44	112.00
37	BD	69	U	N3-C2-O2	-7.78	116.76	122.20
85	AA	203	C	C2-N1-C1'	7.78	127.36	118.80
85	AA	342	C	P-O3'-C3'	-7.78	110.37	119.70
85	AA	371	C	P-O3'-C3'	-7.78	110.37	119.70
85	AA	909	C	C6-N1-C1'	-7.78	111.47	120.80
34	BA	227	C	O4'-C1'-N1	7.78	114.42	108.20
34	BA	279	U	C2-N3-C4	-7.78	122.33	127.00
34	BA	550	U	N3-C4-O4	-7.78	113.96	119.40
35	BB	1211	C	P-O5'-C5'	7.78	133.34	120.90
85	AA	1528	A	P-O3'-C3'	7.78	129.03	119.70
85	AA	2246	U	O5'-P-OP1	-7.78	98.70	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1363	A	C1'-O4'-C4'	-7.77	103.68	109.90
34	BA	1816	G	P-O3'-C3'	7.77	129.03	119.70
35	BB	652	G	O4'-C1'-N9	7.77	114.42	108.20
35	BB	1024	G	N3-C4-C5	-7.77	124.71	128.60
34	BA	1202	G	C8-N9-C1'	7.77	137.10	127.00
35	BB	993	A	P-O5'-C5'	7.77	133.34	120.90
36	BC	11	G	N3-C2-N2	7.77	125.34	119.90
38	BE	32	U	C2-N3-C4	-7.77	122.34	127.00
85	AA	385	A	N1-C6-N6	7.77	123.26	118.60
85	AA	386	G	N3-C2-N2	7.77	125.34	119.90
85	AA	1009	G	O4'-C1'-N9	7.77	114.42	108.20
86	AB	16	U	O5'-C5'-C4'	7.77	126.47	111.70
34	BA	1485	U	O4'-C1'-N1	7.77	114.42	108.20
35	BB	57	G	C8-N9-C1'	7.77	137.10	127.00
35	BB	1053	G	C2-N3-C4	-7.77	108.01	111.90
85	AA	1291	A	O4'-C4'-C3'	-7.77	96.23	104.00
35	BB	677	U	C4'-C3'-C2'	7.77	110.37	102.60
40	BG	169	A	C4-C5-C6	-7.77	113.11	117.00
41	BH	60	A	O4'-C1'-N9	7.77	114.42	108.20
64	Be	133	TYR	CB-CG-CD2	-7.77	116.34	121.00
85	AA	1487	G	N9-C1'-C2'	-7.77	103.45	112.00
34	BA	1305	A	C5-C6-N6	7.77	129.91	123.70
35	BB	141	G	N1-C6-O6	7.77	124.56	119.90
41	BH	30	C	C5'-C4'-O4'	7.77	118.42	109.10
85	AA	915	G	C5-C6-O6	-7.77	123.94	128.60
85	AA	659	A	C3'-C2'-C1'	-7.77	95.29	101.50
85	AA	854	A	O4'-C4'-C3'	-7.77	96.23	104.00
34	BA	756	A	C5'-C4'-C3'	7.76	128.42	116.00
35	BB	534	C	C3'-C2'-C1'	-7.76	95.29	101.50
35	BB	1208	G	O4'-C1'-C2'	-7.76	98.04	105.80
41	BH	120	C	O5'-P-OP1	-7.76	98.71	105.70
85	AA	789	A	C5'-C4'-O4'	7.76	118.42	109.10
85	AA	1265	C	O4'-C1'-N1	7.76	114.41	108.20
85	AA	2209	U	C2-N1-C1'	-7.76	108.38	117.70
16	AH	114	ARG	NE-CZ-NH2	-7.76	116.42	120.30
35	BB	1063	C	N3-C2-O2	-7.76	116.47	121.90
35	BB	1531	G	O4'-C1'-N9	7.76	114.41	108.20
38	BE	36	U	C6-N1-C2	-7.76	116.34	121.00
85	AA	649	C	P-O5'-C5'	-7.76	108.48	120.90
85	AA	858	G	C4-N9-C1'	-7.76	116.41	126.50
10	A9	140	ARG	NE-CZ-NH1	7.76	124.18	120.30
34	BA	246	G	C2'-C3'-O3'	7.76	126.58	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1800	G	C1'-O4'-C4'	-7.76	103.69	109.90
35	BB	285	C	C6-N1-C2	-7.76	117.19	120.30
35	BB	708	C	C2-N3-C4	7.76	123.78	119.90
35	BB	775	U	O4'-C1'-N1	7.76	114.41	108.20
35	BB	901	U	C5'-C4'-C3'	-7.76	103.58	116.00
35	BB	1475	U	C2-N3-C4	-7.76	122.34	127.00
38	BE	62	C	C2-N1-C1'	-7.76	110.26	118.80
85	AA	587	G	C4-N9-C1'	-7.76	116.41	126.50
85	AA	594	C	C2-N1-C1'	-7.76	110.26	118.80
85	AA	962	U	P-O3'-C3'	-7.76	110.39	119.70
85	AA	1432	C	C5'-C4'-C3'	7.76	128.42	116.00
85	AA	1570	A	C1'-O4'-C4'	-7.76	103.69	109.90
34	BA	499	C	C2-N1-C1'	-7.76	110.26	118.80
34	BA	889	U	C2-N1-C1'	-7.76	108.39	117.70
34	BA	1119	A	O5'-C5'-C4'	-7.76	96.96	111.70
34	BA	1473	A	C1'-O4'-C4'	-7.76	103.69	109.90
34	BA	1656	A	C5-C6-N1	7.76	121.58	117.70
38	BE	25	U	O5'-P-OP1	7.76	120.01	110.70
41	BH	7	C	P-O5'-C5'	-7.76	108.48	120.90
85	AA	45	U	P-O5'-C5'	-7.76	108.49	120.90
85	AA	2092	A	O4'-C1'-N9	7.76	114.41	108.20
34	BA	1000	G	P-O3'-C3'	-7.76	110.39	119.70
34	BA	1814	U	C6-N1-C2	-7.76	116.34	121.00
85	AA	966	G	C5'-C4'-C3'	-7.76	103.59	116.00
34	BA	755	G	C6-N1-C2	-7.76	120.45	125.10
34	BA	896	U	P-O3'-C3'	7.76	129.01	119.70
34	BA	1411	C	C5'-C4'-C3'	-7.76	103.59	116.00
34	BA	1721	U	P-O5'-C5'	-7.76	108.49	120.90
38	BE	1	U	C3'-C2'-C1'	-7.76	95.29	101.50
40	BG	8	U	O4'-C1'-N1	7.76	114.41	108.20
84	By	51	ARG	NE-CZ-NH2	-7.76	116.42	120.30
34	BA	532	C	C5'-C4'-O4'	7.75	118.41	109.10
35	BB	268	G	C5-C6-O6	-7.75	123.95	128.60
35	BB	380	G	C8-N9-C1'	7.75	137.08	127.00
40	BG	35	G	C5'-C4'-C3'	-7.75	103.59	116.00
85	AA	157	G	C1'-O4'-C4'	-7.75	103.70	109.90
85	AA	158	C	C1'-O4'-C4'	-7.75	103.70	109.90
85	AA	1102	C	C6-N1-C2	-7.75	117.20	120.30
34	BA	389	U	P-O3'-C3'	-7.75	110.40	119.70
34	BA	1572	G	N1-C6-O6	-7.75	115.25	119.90
35	BB	827	U	P-O5'-C5'	7.75	133.30	120.90
38	BE	82	C	O3'-P-O5'	-7.75	89.27	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	BZ	51	ASP	N-CA-CB	-7.75	96.64	110.60
85	AA	1701	G	N9-C4-C5	7.75	108.50	105.40
85	AA	1974	C	O4'-C1'-N1	7.75	114.40	108.20
34	BA	530	A	C2'-C3'-O3'	7.75	126.56	109.50
34	BA	543	A	C5'-C4'-C3'	-7.75	103.60	116.00
35	BB	771	U	P-O3'-C3'	7.75	129.00	119.70
85	AA	449	G	C8-N9-C4	7.75	109.50	106.40
34	BA	382	G	C5-C6-O6	7.75	133.25	128.60
34	BA	1002	U	C3'-C2'-C1'	-7.75	95.30	101.50
85	AA	1541	G	O5'-C5'-C4'	-7.75	96.97	111.70
34	BA	145	U	C5'-C4'-C3'	-7.75	103.60	116.00
34	BA	1326	U	C2-N1-C1'	7.75	127.00	117.70
34	BA	1506	C	C5'-C4'-C3'	7.75	128.40	116.00
34	BA	1518	A	N9-C4-C5	-7.75	102.70	105.80
85	AA	447	C	O4'-C1'-N1	7.75	114.40	108.20
34	BA	1119	A	C5-C6-N6	-7.75	117.50	123.70
36	BC	90	U	O4'-C1'-N1	7.75	114.40	108.20
38	BE	104	G	C8-N9-C1'	-7.75	116.93	127.00
85	AA	723	U	O4'-C1'-N1	7.75	114.40	108.20
85	AA	860	C	N1-C2-O2	7.75	123.55	118.90
85	AA	917	A	C2-N3-C4	-7.75	106.73	110.60
85	AA	1845	G	C8-N9-C1'	7.75	137.07	127.00
85	AA	1865	C	C2-N3-C4	-7.75	116.03	119.90
34	BA	766	A	C5'-C4'-O4'	7.75	118.39	109.10
35	BB	621	C	O3'-P-O5'	7.75	118.72	104.00
39	BF	48	G	C1'-O4'-C4'	-7.75	103.70	109.90
85	AA	463	G	O3'-P-O5'	-7.75	89.28	104.00
85	AA	1734	A	C5'-C4'-C3'	7.75	128.39	116.00
34	BA	149	G	C1'-O4'-C4'	-7.74	103.70	109.90
34	BA	505	U	P-O5'-C5'	-7.74	108.51	120.90
34	BA	761	U	C6-N1-C1'	7.74	132.04	121.20
34	BA	1083	A	P-O3'-C3'	7.74	128.99	119.70
35	BB	2	C	C4'-C3'-C2'	-7.74	94.86	102.60
35	BB	1432	U	C2-N1-C1'	-7.74	108.41	117.70
35	BB	1532	C	C5'-C4'-C3'	7.74	128.39	116.00
39	BF	62	U	P-O5'-C5'	7.74	133.29	120.90
40	BG	71	C	C6-N1-C2	-7.74	117.20	120.30
41	BH	9	C	P-O3'-C3'	-7.74	110.41	119.70
41	BH	71	C	O4'-C1'-N1	7.74	114.39	108.20
83	Bx	263	ARG	NE-CZ-NH2	-7.74	116.43	120.30
85	AA	65	A	C8-N9-C1'	-7.74	113.76	127.70
85	AA	1278	C	O4'-C1'-N1	7.74	114.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	797	C	O5'-C5'-C4'	7.74	126.41	111.70
35	BB	1115	G	C4-N9-C1'	-7.74	116.44	126.50
85	AA	2122	A	C2'-C3'-O3'	7.74	126.53	109.50
35	BB	1386	C	C6-N1-C2	-7.74	117.20	120.30
85	AA	254	G	C5-C6-O6	-7.74	123.95	128.60
85	AA	518	A	C5'-C4'-O4'	7.74	118.39	109.10
85	AA	566	U	O4'-C1'-N1	7.74	114.39	108.20
85	AA	643	C	C2-N1-C1'	-7.74	110.29	118.80
85	AA	1415	G	P-O3'-C3'	7.74	128.99	119.70
34	BA	182	U	C2-N3-C4	-7.74	122.36	127.00
34	BA	688	G	C5-C6-O6	-7.74	123.96	128.60
35	BB	681	G	P-O3'-C3'	-7.74	110.41	119.70
35	BB	824	C	O4'-C4'-C3'	-7.74	96.26	104.00
35	BB	888	U	P-O3'-C3'	-7.74	110.41	119.70
35	BB	905	C	O4'-C1'-N1	7.74	114.39	108.20
35	BB	1399	A	N1-C6-N6	-7.74	113.96	118.60
85	AA	1730	C	C3'-C2'-C1'	-7.74	95.31	101.50
34	BA	288	U	N1-C2-N3	7.74	119.54	114.90
85	AA	803	C	C5'-C4'-C3'	-7.74	103.62	116.00
34	BA	540	G	C5-C6-O6	-7.74	123.96	128.60
34	BA	883	C	C6-N1-C2	-7.74	117.20	120.30
34	BA	1029	C	O4'-C1'-N1	7.74	114.39	108.20
34	BA	1510	C	N3-C4-N4	-7.74	112.58	118.00
35	BB	378	C	C3'-C2'-C1'	-7.74	95.31	101.50
35	BB	834	U	C5'-C4'-O4'	7.74	118.38	109.10
35	BB	1450	G	C5-C6-O6	-7.74	123.96	128.60
38	BE	107	U	C2-N3-C4	-7.74	122.36	127.00
85	AA	968	U	C5'-C4'-C3'	7.74	128.38	116.00
85	AA	2014	G	C6-N1-C2	-7.74	120.46	125.10
34	BA	532	C	C5'-C4'-C3'	-7.73	103.62	116.00
47	BN	41	ARG	NE-CZ-NH1	7.73	124.17	120.30
85	AA	748	C	O4'-C1'-N1	7.73	114.39	108.20
85	AA	1832	G	C4-N9-C1'	-7.73	116.45	126.50
34	BA	1418	G	C5-C6-O6	-7.73	123.96	128.60
34	BA	1495	A	C1'-O4'-C4'	-7.73	103.71	109.90
35	BB	429	C	C1'-O4'-C4'	-7.73	103.71	109.90
35	BB	484	G	C5-C6-O6	-7.73	123.96	128.60
35	BB	1517	G	N1-C6-O6	7.73	124.54	119.90
36	BC	116	C	C1'-O4'-C4'	-7.73	103.71	109.90
40	BG	25	G	P-O3'-C3'	-7.73	110.42	119.70
34	BA	89	G	N3-C2-N2	-7.73	114.49	119.90
34	BA	815	C	P-O3'-C3'	-7.73	110.42	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1011	G	N3-C2-N2	-7.73	114.49	119.90
34	BA	1822	U	C6-N1-C1'	-7.73	110.38	121.20
35	BB	567	G	C5'-C4'-C3'	-7.73	103.63	116.00
35	BB	1020	U	N3-C2-O2	-7.73	116.79	122.20
56	BW	12	ARG	NE-CZ-NH1	7.73	124.17	120.30
85	AA	1809	G	C5-C6-O6	-7.73	123.96	128.60
34	BA	271	C	C6-N1-C2	-7.73	117.21	120.30
34	BA	766	A	N1-C6-N6	-7.73	113.96	118.60
34	BA	1485	U	C5-C4-O4	7.73	130.54	125.90
34	BA	1636	C	P-O5'-C5'	-7.73	108.53	120.90
34	BA	52	G	P-O3'-C3'	-7.73	110.43	119.70
34	BA	807	U	C6-N1-C1'	-7.73	110.38	121.20
34	BA	1419	A	P-O5'-C5'	-7.73	108.53	120.90
35	BB	1025	A	C3'-C2'-C1'	7.73	107.68	101.50
55	BV	92	TYR	CB-CG-CD1	7.73	125.64	121.00
85	AA	327	G	C3'-C2'-C1'	-7.73	95.32	101.50
85	AA	508	C	O5'-P-OP2	-7.73	98.75	105.70
34	BA	582	U	N1-C2-N3	-7.73	110.26	114.90
37	BD	30	A	C5-C6-N6	-7.73	117.52	123.70
85	AA	744	C	N1-C2-O2	7.73	123.54	118.90
29	AV	59	SER	N-CA-CB	7.72	122.09	110.50
35	BB	1453	G	P-O3'-C3'	-7.72	110.43	119.70
40	BG	14	G	C6-N1-C2	-7.72	120.47	125.10
41	BH	26	C	C3'-C2'-C1'	7.72	107.68	101.50
85	AA	2196	G	N9-C4-C5	7.72	108.49	105.40
34	BA	606	G	N3-C4-C5	-7.72	124.74	128.60
34	BA	937	G	C1'-O4'-C4'	-7.72	103.72	109.90
34	BA	1113	A	C5'-C4'-C3'	7.72	128.36	116.00
34	BA	1503	U	O4'-C4'-C3'	-7.72	96.28	104.00
38	BE	55	C	C6-N1-C2	-7.72	117.21	120.30
38	BE	183	C	O5'-C5'-C4'	7.72	126.37	111.70
41	BH	35	G	C5'-C4'-C3'	-7.72	103.64	116.00
60	Ba	64	ARG	CD-NE-CZ	-7.72	112.79	123.60
85	AA	1270	C	C2-N1-C1'	-7.72	110.31	118.80
29	AV	62	TYR	CB-CG-CD2	-7.72	116.37	121.00
34	BA	1567	G	C4-N9-C1'	-7.72	116.46	126.50
35	BB	1463	A	C8-N9-C4	-7.72	102.71	105.80
34	BA	7	U	C6-N1-C2	-7.72	116.37	121.00
34	BA	288	U	C1'-O4'-C4'	-7.72	103.72	109.90
34	BA	602	G	N3-C2-N2	-7.72	114.50	119.90
34	BA	889	U	C4'-C3'-C2'	7.72	110.32	102.60
34	BA	1040	G	N3-C2-N2	7.72	125.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1665	G	C4-N9-C1'	-7.72	116.46	126.50
40	BG	148	C	C6-N1-C2	-7.72	117.21	120.30
85	AA	311	U	C4'-C3'-C2'	7.72	110.32	102.60
34	BA	1530	G	C4-N9-C1'	-7.72	116.47	126.50
34	BA	1653	G	C8-N9-C1'	7.72	137.03	127.00
68	Bi	44	ARG	NE-CZ-NH1	7.72	124.16	120.30
26	AS	67	ARG	NE-CZ-NH1	7.72	124.16	120.30
34	BA	1047	U	P-O3'-C3'	-7.72	110.44	119.70
38	BE	127	G	O4'-C1'-C2'	7.72	114.55	107.60
38	BE	169	C	O4'-C1'-N1	7.72	114.37	108.20
41	BH	37	U	P-O3'-C3'	7.72	128.96	119.70
85	AA	331	G	C4'-C3'-C2'	-7.72	94.88	102.60
85	AA	945	A	O4'-C1'-N9	7.72	114.37	108.20
85	AA	1456	A	C8-N9-C4	7.72	108.89	105.80
35	BB	391	G	N3-C2-N2	7.71	125.30	119.90
35	BB	663	G	C5-C6-N1	7.71	115.36	111.50
77	Br	258	LEU	N-CA-CB	-7.71	94.97	110.40
85	AA	527	A	O4'-C1'-N9	7.71	114.37	108.20
85	AA	1756	C	C2-N1-C1'	-7.71	110.31	118.80
4	A3	7	TYR	CB-CG-CD1	7.71	125.63	121.00
35	BB	839	G	C5-C6-O6	7.71	133.23	128.60
38	BE	135	A	C4'-C3'-C2'	-7.71	94.89	102.60
40	BG	111	C	N3-C2-O2	-7.71	116.50	121.90
41	BH	100	A	C6-C5-N7	-7.71	126.90	132.30
85	AA	680	U	P-O3'-C3'	7.71	128.96	119.70
34	BA	1284	G	C5-C6-O6	7.71	133.23	128.60
34	BA	1305	A	C4-N9-C1'	7.71	140.18	126.30
34	BA	1356	C	O4'-C1'-N1	7.71	114.37	108.20
35	BB	537	A	P-O5'-C5'	-7.71	108.56	120.90
71	Bl	37	ARG	NE-CZ-NH2	-7.71	116.44	120.30
85	AA	150	U	P-O5'-C5'	7.71	133.24	120.90
85	AA	959	C	O4'-C1'-N1	7.71	114.37	108.20
85	AA	1322	C	O4'-C1'-N1	7.71	114.37	108.20
85	AA	1609	U	O4'-C1'-N1	7.71	114.37	108.20
85	AA	1825	A	C4'-C3'-C2'	7.71	110.31	102.60
85	AA	2198	G	P-O3'-C3'	-7.71	110.45	119.70
34	BA	1421	A	P-O3'-C3'	-7.71	110.45	119.70
34	BA	1644	A	C5'-C4'-C3'	-7.71	103.66	116.00
35	BB	1031	G	C1'-O4'-C4'	-7.71	103.73	109.90
35	BB	1294	C	N1-C1'-C2'	-7.71	103.52	112.00
85	AA	188	G	C3'-C2'-C1'	-7.71	95.33	101.50
85	AA	1083	C	O4'-C1'-N1	7.71	114.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1994	G	C8-N9-C1'	7.71	137.02	127.00
34	BA	63	A	O4'-C1'-C2'	-7.71	98.09	105.80
34	BA	686	U	O4'-C4'-C3'	-7.71	96.29	104.00
35	BB	1155	U	N3-C2-O2	-7.71	116.81	122.20
35	BB	1222	A	O5'-P-OP1	-7.71	98.76	105.70
45	BL	179	PHE	CB-CG-CD1	7.71	126.20	120.80
70	Bk	45	LEU	N-CA-C	-7.71	90.19	111.00
85	AA	218	U	O4'-C1'-N1	7.71	114.37	108.20
85	AA	252	G	O4'-C1'-N9	-7.71	102.03	108.20
85	AA	858	G	C3'-C2'-C1'	-7.71	95.33	101.50
34	BA	1297	G	P-O5'-C5'	7.71	133.23	120.90
35	BB	1186	A	C4-C5-C6	-7.71	113.15	117.00
35	BB	1423	U	C1'-O4'-C4'	-7.71	103.73	109.90
40	BG	168	A	C4-N9-C1'	-7.71	112.43	126.30
34	BA	82	A	C3'-C2'-C1'	-7.71	95.34	101.50
12	AD	14	TYR	CB-CG-CD1	7.70	125.62	121.00
34	BA	1013	A	C5'-C4'-C3'	-7.70	103.67	116.00
34	BA	1179	U	P-O3'-C3'	7.70	128.94	119.70
34	BA	1501	U	O4'-C1'-N1	7.70	114.36	108.20
85	AA	562	C	O4'-C1'-N1	7.70	114.36	108.20
85	AA	2225	G	C8-N9-C1'	7.70	137.01	127.00
34	BA	798	G	N9-C4-C5	-7.70	102.32	105.40
85	AA	800	A	P-O3'-C3'	7.70	128.94	119.70
2	A1	63	ARG	NE-CZ-NH1	7.70	124.15	120.30
34	BA	312	U	C5'-C4'-C3'	7.70	128.32	116.00
85	AA	581	A	C5'-C4'-O4'	7.70	118.34	109.10
85	AA	962	U	C6-N1-C1'	7.70	131.98	121.20
34	BA	794	G	N9-C1'-C2'	-7.70	103.53	112.00
35	BB	1003	G	C8-N9-C1'	7.70	137.01	127.00
35	BB	1394	A	C6-N1-C2	-7.70	113.98	118.60
36	BC	99	U	C2-N3-C4	-7.70	122.38	127.00
85	AA	325	C	O4'-C1'-N1	7.70	114.36	108.20
35	BB	1251	G	N3-C4-C5	-7.70	124.75	128.60
35	BB	1394	A	C5-C6-N1	7.70	121.55	117.70
38	BE	25	U	N3-C4-C5	7.70	119.22	114.60
52	BS	9	TYR	CB-CG-CD2	-7.70	116.38	121.00
27	AT	38	CYS	CA-CB-SG	7.70	127.85	114.00
35	BB	724	G	O4'-C1'-N9	7.70	114.36	108.20
35	BB	1108	G	C5'-C4'-C3'	7.70	128.31	116.00
35	BB	1519	U	O4'-C1'-N1	7.70	114.36	108.20
84	By	54	THR	N-CA-CB	7.70	124.92	110.30
84	By	132	ARG	NE-CZ-NH1	7.70	124.15	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	585	G	N9-C4-C5	-7.70	102.32	105.40
3	A2	43	GLN	N-CA-C	7.69	131.77	111.00
34	BA	91	C	C2-N1-C1'	-7.69	110.34	118.80
34	BA	1126	U	C5-C6-N1	7.69	126.55	122.70
34	BA	1619	U	C2'-C3'-O3'	7.69	126.43	109.50
35	BB	1201	G	C5'-C4'-C3'	7.69	128.31	116.00
34	BA	410	G	O4'-C1'-N9	7.69	114.35	108.20
85	AA	300	C	O4'-C1'-N1	7.69	114.35	108.20
85	AA	666	A	N1-C6-N6	-7.69	113.98	118.60
85	AA	1034	U	C3'-C2'-C1'	7.69	107.65	101.50
85	AA	1243	G	C5'-C4'-C3'	7.69	128.31	116.00
85	AA	1371	C	C6-N1-C1'	7.69	130.03	120.80
85	AA	1711	C	O4'-C1'-C2'	7.69	114.52	107.60
34	BA	107	C	O4'-C1'-N1	7.69	114.35	108.20
34	BA	481	A	N3-C4-C5	7.69	132.18	126.80
34	BA	802	G	C8-N9-C1'	7.69	137.00	127.00
35	BB	1133	C	C6-N1-C1'	7.69	130.03	120.80
38	BE	67	A	O3'-P-O5'	7.69	118.61	104.00
38	BE	185	G	C5'-C4'-C3'	-7.69	103.69	116.00
85	AA	557	G	C6-N1-C2	-7.69	120.48	125.10
85	AA	626	G	N1-C6-O6	7.69	124.51	119.90
85	AA	887	A	P-O3'-C3'	-7.69	110.47	119.70
85	AA	1109	G	O4'-C1'-N9	7.69	114.35	108.20
85	AA	1474	U	O4'-C1'-N1	7.69	114.35	108.20
85	AA	2141	G	O4'-C1'-C2'	7.69	114.52	107.60
34	BA	452	A	N1-C6-N6	7.69	123.21	118.60
34	BA	1003	A	O5'-P-OP2	-7.69	98.78	105.70
34	BA	1428	G	P-O5'-C5'	-7.69	108.60	120.90
35	BB	1461	C	C5-C4-N4	-7.69	114.82	120.20
36	BC	88	A	P-O3'-C3'	-7.69	110.47	119.70
85	AA	1494	C	O5'-P-OP1	7.69	119.93	110.70
34	BA	188	C	O4'-C1'-N1	7.69	114.35	108.20
34	BA	813	C	C5'-C4'-O4'	-7.69	99.88	109.10
34	BA	1537	G	C1'-O4'-C4'	-7.69	103.75	109.90
35	BB	1016	C	C6-N1-C2	-7.69	117.22	120.30
39	BF	23	G	C5'-C4'-O4'	7.69	118.33	109.10
71	Bl	62	ARG	NE-CZ-NH1	7.69	124.14	120.30
85	AA	272	C	C6-N1-C2	-7.69	117.22	120.30
85	AA	1294	U	N1-C2-O2	-7.69	117.42	122.80
34	BA	1494	G	C5-C6-N1	7.69	115.34	111.50
34	BA	1505	G	C8-N9-C4	-7.69	103.33	106.40
34	BA	1540	C	O4'-C1'-N1	7.69	114.35	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1112	U	C6-N1-C2	-7.69	116.39	121.00
35	BB	1475	U	O4'-C1'-N1	7.69	114.35	108.20
85	AA	743	C	C5'-C4'-C3'	7.69	128.30	116.00
85	AA	2070	C	C6-N1-C2	-7.69	117.23	120.30
34	BA	386	A	C4'-C3'-C2'	7.68	110.28	102.60
35	BB	743	C	O4'-C1'-N1	7.68	114.35	108.20
35	BB	800	U	O5'-C5'-C4'	7.68	126.30	111.70
85	AA	268	A	P-O3'-C3'	-7.68	110.48	119.70
85	AA	1294	U	C4'-C3'-C2'	-7.68	94.92	102.60
35	BB	313	C	O4'-C1'-N1	7.68	114.35	108.20
35	BB	887	G	O3'-P-O5'	-7.68	89.40	104.00
36	BC	23	G	C4'-C3'-C2'	-7.68	94.92	102.60
37	BD	4	U	C5'-C4'-C3'	-7.68	103.71	116.00
85	AA	989	U	C5'-C4'-C3'	7.68	128.29	116.00
85	AA	1460	G	C5-C6-O6	-7.68	123.99	128.60
85	AA	1983	C	P-O3'-C3'	7.68	128.92	119.70
85	AA	2018	U	C5-C4-O4	-7.68	121.29	125.90
34	BA	930	A	C5-C6-N6	7.68	129.84	123.70
35	BB	118	A	C1'-O4'-C4'	-7.68	103.76	109.90
40	BG	118	U	C2-N3-C4	-7.68	122.39	127.00
85	AA	432	A	C8-N9-C1'	7.68	141.53	127.70
34	BA	183	G	O4'-C1'-N9	7.68	114.34	108.20
34	BA	470	C	O4'-C1'-N1	7.68	114.34	108.20
34	BA	530	A	C4-C5-C6	-7.68	113.16	117.00
34	BA	836	U	P-O5'-C5'	-7.68	108.61	120.90
35	BB	1358	A	N1-C6-N6	-7.68	113.99	118.60
38	BE	20	C	C2-N1-C1'	7.68	127.25	118.80
38	BE	142	A	C5'-C4'-O4'	7.68	118.31	109.10
47	BN	203	ARG	NE-CZ-NH1	7.68	124.14	120.30
85	AA	391	G	N1-C6-O6	-7.68	115.29	119.90
85	AA	1722	G	P-O3'-C3'	7.68	128.91	119.70
85	AA	633	C	C1'-O4'-C4'	-7.68	103.76	109.90
34	BA	468	A	O4'-C1'-N9	7.68	114.34	108.20
34	BA	827	A	C1'-O4'-C4'	-7.68	103.76	109.90
34	BA	1472	G	C4-C5-C6	-7.68	114.19	118.80
76	Bq	4	PHE	CB-CG-CD1	7.68	126.17	120.80
34	BA	534	C	O4'-C1'-N1	7.67	114.34	108.20
85	AA	1484	G	N1-C6-O6	-7.67	115.30	119.90
34	BA	1094	U	C5'-C4'-C3'	-7.67	103.72	116.00
85	AA	269	G	C5-C6-O6	-7.67	124.00	128.60
85	AA	598	C	O4'-C1'-N1	7.67	114.34	108.20
34	BA	871	G	O5'-P-OP2	-7.67	98.80	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	987	C	O4'-C1'-N1	7.67	114.34	108.20
35	BB	831	C	P-O3'-C3'	-7.67	110.49	119.70
35	BB	1168	G	C5'-C4'-O4'	7.67	118.31	109.10
37	BD	2	G	C8-N9-C1'	7.67	136.97	127.00
85	AA	251	A	C4-N9-C1'	7.67	140.11	126.30
34	BA	1283	U	O4'-C1'-N1	7.67	114.34	108.20
34	BA	1408	C	P-O5'-C5'	-7.67	108.63	120.90
40	BG	16	G	C5-C6-N1	7.67	115.33	111.50
40	BG	140	G	C4-N9-C1'	-7.67	116.53	126.50
85	AA	288	G	C5-C6-O6	-7.67	124.00	128.60
16	AH	114	ARG	NE-CZ-NH1	7.67	124.14	120.30
35	BB	551	C	O4'-C1'-N1	7.67	114.33	108.20
85	AA	852	C	O4'-C1'-N1	7.67	114.33	108.20
85	AA	1953	G	O4'-C1'-N9	7.67	114.33	108.20
34	BA	208	A	N1-C6-N6	-7.67	114.00	118.60
34	BA	878	G	O4'-C1'-C2'	7.67	114.50	107.60
34	BA	1556	A	P-O3'-C3'	7.67	128.90	119.70
34	BA	1707	C	N3-C2-O2	-7.67	116.53	121.90
34	BA	1788	U	C6-N1-C2	-7.67	116.40	121.00
35	BB	714	U	C2-N3-C4	-7.67	122.40	127.00
38	BE	168	C	C2-N1-C1'	-7.67	110.37	118.80
40	BG	169	A	C1'-O4'-C4'	-7.67	103.77	109.90
85	AA	421	G	N1-C6-O6	-7.67	115.30	119.90
85	AA	939	A	O3'-P-O5'	7.67	118.57	104.00
85	AA	2156	C	P-O5'-C5'	7.67	133.16	120.90
35	BB	404	A	C4-C5-C6	-7.67	113.17	117.00
85	AA	1106	A	O4'-C4'-C3'	-7.67	96.33	104.00
85	AA	1465	C	C4'-C3'-C2'	-7.67	94.94	102.60
31	AX	50	ARG	NE-CZ-NH1	7.66	124.13	120.30
34	BA	1090	A	C5'-C4'-C3'	7.66	128.26	116.00
34	BA	1160	U	P-O3'-C3'	-7.66	110.50	119.70
41	BH	71	C	O3'-P-O5'	7.66	118.56	104.00
50	BQ	192	ARG	CD-NE-CZ	-7.66	112.87	123.60
85	AA	2207	A	O4'-C1'-N9	7.66	114.33	108.20
34	BA	110	C	C3'-C2'-C1'	-7.66	95.37	101.50
34	BA	168	U	O4'-C1'-N1	7.66	114.33	108.20
41	BH	10	U	C2-N1-C1'	-7.66	108.51	117.70
60	Ba	28	THR	N-CA-CB	7.66	124.85	110.30
85	AA	714	U	C4'-C3'-C2'	-7.66	94.94	102.60
85	AA	1553	G	C4'-C3'-C2'	-7.66	94.94	102.60
34	BA	871	G	N7-C8-N9	-7.66	109.27	113.10
34	BA	956	G	O4'-C1'-N9	7.66	114.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	36	C	P-O5'-C5'	7.66	133.15	120.90
85	AA	1096	G	C4-N9-C1'	-7.66	116.55	126.50
34	BA	343	G	C5-C6-N1	7.66	115.33	111.50
34	BA	741	A	P-O5'-C5'	-7.66	108.65	120.90
34	BA	1036	G	C5-C6-O6	-7.66	124.01	128.60
34	BA	1107	A	N1-C2-N3	7.66	133.13	129.30
34	BA	1113	A	C5-C6-N6	-7.66	117.57	123.70
35	BB	879	G	C8-N9-C4	-7.66	103.34	106.40
38	BE	8	G	O4'-C4'-C3'	-7.66	96.34	104.00
39	BF	6	C	P-O3'-C3'	7.66	128.89	119.70
34	BA	683	C	P-O5'-C5'	7.66	133.15	120.90
35	BB	1102	U	C3'-C2'-C1'	-7.66	95.38	101.50
36	BC	96	A	N1-C6-N6	-7.66	114.01	118.60
38	BE	109	C	O5'-C5'-C4'	7.66	126.24	111.70
40	BG	8	U	N1-C2-O2	7.66	128.16	122.80
41	BH	4	U	C2-N3-C4	-7.66	122.41	127.00
41	BH	27	A	N1-C6-N6	-7.66	114.01	118.60
66	Bg	49	ARG	NE-CZ-NH2	-7.66	116.47	120.30
85	AA	520	A	C5'-C4'-C3'	7.66	128.25	116.00
85	AA	534	A	C8-N9-C1'	7.66	141.48	127.70
85	AA	1541	G	P-O3'-C3'	-7.66	110.51	119.70
7	A6	157	PHE	CB-CG-CD2	-7.65	115.44	120.80
34	BA	168	U	C6-N1-C1'	7.65	131.91	121.20
36	BC	136	G	O4'-C1'-N9	7.65	114.32	108.20
41	BH	39	G	C5'-C4'-C3'	7.65	128.25	116.00
85	AA	1539	A	C4'-C3'-C2'	-7.65	94.95	102.60
85	AA	1793	A	P-O3'-C3'	-7.65	110.52	119.70
85	AA	2055	G	O4'-C1'-N9	7.65	114.32	108.20
8	A7	105	PHE	CB-CG-CD1	7.65	126.16	120.80
37	BD	51	G	P-O3'-C3'	7.65	128.88	119.70
40	BG	102	G	N3-C2-N2	7.65	125.26	119.90
85	AA	1426	G	P-O3'-C3'	-7.65	110.52	119.70
85	AA	2121	G	N3-C4-C5	-7.65	124.77	128.60
34	BA	333	A	N1-C6-N6	7.65	123.19	118.60
34	BA	535	G	C5-C6-O6	7.65	133.19	128.60
34	BA	537	C	P-O3'-C3'	-7.65	110.52	119.70
34	BA	1295	U	P-O5'-C5'	7.65	133.14	120.90
34	BA	1735	G	C4-N9-C1'	-7.65	116.56	126.50
35	BB	787	A	C4-N9-C1'	-7.65	112.53	126.30
36	BC	35	C	P-O3'-C3'	-7.65	110.52	119.70
38	BE	139	U	C5-C6-N1	-7.65	118.88	122.70
85	AA	479	C	P-O5'-C5'	7.65	133.14	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	486	G	O4'-C1'-N9	7.65	114.32	108.20
85	AA	1368	G	C5'-C4'-C3'	-7.65	103.76	116.00
85	AA	1514	A	N1-C6-N6	7.65	123.19	118.60
85	AA	1795	C	C3'-C2'-C1'	-7.65	95.38	101.50
34	BA	56	G	P-O5'-C5'	7.65	133.14	120.90
34	BA	467	A	C5-C6-N6	-7.65	117.58	123.70
34	BA	783	U	C6-N1-C2	-7.65	116.41	121.00
34	BA	1166	A	C4-N9-C1'	-7.65	112.53	126.30
38	BE	16	C	N3-C4-N4	7.65	123.35	118.00
34	BA	1665	G	C5'-C4'-C3'	-7.65	103.77	116.00
34	BA	1741	G	C3'-C2'-C1'	-7.65	95.38	101.50
34	BA	1846	G	C1'-O4'-C4'	-7.65	103.78	109.90
35	BB	41	A	N1-C6-N6	7.65	123.19	118.60
35	BB	1323	U	C1'-O4'-C4'	-7.65	103.78	109.90
35	BB	1532	C	P-O5'-C5'	-7.65	108.66	120.90
85	AA	1176	C	C2-N3-C4	-7.65	116.08	119.90
85	AA	1811	C	C6-N1-C2	-7.65	117.24	120.30
34	BA	334	G	C1'-O4'-C4'	-7.65	103.78	109.90
34	BA	1246	G	C3'-C2'-C1'	-7.65	95.38	101.50
82	Bw	105	ARG	NE-CZ-NH1	7.65	124.12	120.30
85	AA	1246	G	C5-C6-N1	7.65	115.32	111.50
85	AA	1939	C	O4'-C1'-N1	7.65	114.32	108.20
34	BA	1487	U	C5'-C4'-C3'	7.64	128.23	116.00
71	Bl	141	ARG	CG-CD-NE	-7.64	95.75	111.80
85	AA	1002	G	C8-N9-C1'	7.64	136.94	127.00
85	AA	1215	A	C3'-C2'-C1'	-7.64	95.39	101.50
34	BA	245	U	O4'-C1'-N1	7.64	114.31	108.20
34	BA	1272	U	C2-N1-C1'	7.64	126.87	117.70
34	BA	1296	U	P-O3'-C3'	7.64	128.87	119.70
35	BB	1487	G	O4'-C1'-N9	7.64	114.31	108.20
38	BE	5	A	P-O3'-C3'	7.64	128.87	119.70
85	AA	686	U	C6-N1-C2	-7.64	116.42	121.00
85	AA	1787	G	O4'-C1'-N9	7.64	114.31	108.20
85	AA	572	G	O4'-C1'-N9	7.64	114.31	108.20
85	AA	584	G	C8-N9-C1'	-7.64	117.07	127.00
85	AA	1503	G	C4-N9-C1'	-7.64	116.57	126.50
34	BA	403	A	C5'-C4'-O4'	7.64	118.27	109.10
34	BA	894	G	C8-N9-C4	7.64	109.46	106.40
35	BB	1182	A	C8-N9-C4	7.64	108.86	105.80
35	BB	1471	A	P-O5'-C5'	7.64	133.12	120.90
35	BB	1473	U	O4'-C1'-N1	7.64	114.31	108.20
41	BH	133	U	N1-C2-N3	7.64	119.48	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	Bx	73	ARG	NE-CZ-NH1	7.64	124.12	120.30
85	AA	1647	G	C5'-C4'-C3'	-7.64	103.78	116.00
85	AA	1659	C	O4'-C1'-N1	7.64	114.31	108.20
85	AA	2209	U	C5'-C4'-C3'	-7.64	103.78	116.00
34	BA	1304	C	C5-C4-N4	7.64	125.55	120.20
35	BB	1484	A	C5'-C4'-C3'	-7.64	103.78	116.00
37	BD	85	C	P-O3'-C3'	-7.64	110.53	119.70
38	BE	172	U	C4'-C3'-C2'	7.64	110.24	102.60
85	AA	2050	C	C4'-C3'-C2'	-7.64	94.96	102.60
34	BA	400	A	N9-C1'-C2'	-7.64	103.60	112.00
34	BA	843	G	N3-C4-C5	-7.64	124.78	128.60
34	BA	1668	C	C5'-C4'-C3'	-7.64	103.78	116.00
37	BD	65	G	N9-C1'-C2'	-7.64	103.60	112.00
85	AA	681	G	C4'-C3'-C2'	7.64	110.24	102.60
85	AA	961	U	C5'-C4'-O4'	7.64	118.26	109.10
34	BA	532	C	P-O3'-C3'	-7.63	110.54	119.70
34	BA	683	C	C4'-C3'-C2'	-7.63	94.97	102.60
34	BA	743	A	N3-C4-N9	7.63	133.51	127.40
35	BB	367	C	C6-N1-C2	-7.63	117.25	120.30
40	BG	178	G	C4-N9-C1'	-7.63	116.58	126.50
85	AA	20	G	C5-C6-O6	-7.63	124.02	128.60
34	BA	681	G	N9-C4-C5	-7.63	102.35	105.40
34	BA	1398	C	C6-N1-C2	-7.63	117.25	120.30
34	BA	1741	G	P-O3'-C3'	-7.63	110.54	119.70
35	BB	1238	A	C5'-C4'-C3'	-7.63	103.79	116.00
35	BB	1298	C	N3-C4-N4	-7.63	112.66	118.00
37	BD	92	G	C4'-C3'-C2'	-7.63	94.97	102.60
34	BA	614	A	P-O5'-C5'	7.63	133.11	120.90
34	BA	1562	G	P-O5'-C5'	-7.63	108.69	120.90
35	BB	152	G	N1-C6-O6	7.63	124.48	119.90
35	BB	779	C	C4'-C3'-C2'	7.63	110.23	102.60
41	BH	2	U	O4'-C4'-C3'	-7.63	96.37	104.00
34	BA	478	G	N3-C2-N2	7.63	125.24	119.90
38	BE	201	A	P-O3'-C3'	-7.63	110.54	119.70
77	Br	275	PHE	N-CA-CB	-7.63	96.87	110.60
85	AA	1830	U	P-O3'-C3'	-7.63	110.54	119.70
34	BA	372	U	N3-C2-O2	-7.63	116.86	122.20
34	BA	572	G	C4-C5-N7	-7.63	107.75	110.80
34	BA	597	C	C2-N1-C1'	7.63	127.19	118.80
34	BA	1846	G	O5'-P-OP2	7.63	119.85	110.70
38	BE	148	C	C5'-C4'-C3'	-7.63	103.80	116.00
85	AA	57	G	N1-C2-N2	-7.63	109.33	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	197	C	O4'-C1'-N1	7.63	114.30	108.20
34	BA	487	A	O4'-C1'-N9	7.63	114.30	108.20
34	BA	863	G	N1-C6-O6	-7.63	115.33	119.90
34	BA	1474	G	N9-C1'-C2'	-7.63	103.61	112.00
35	BB	825	U	P-O5'-C5'	-7.63	108.70	120.90
85	AA	270	A	C4-N9-C1'	-7.63	112.57	126.30
85	AA	637	U	N1-C2-N3	7.63	119.48	114.90
34	BA	740	A	N1-C2-N3	7.62	133.11	129.30
35	BB	589	U	C6-N1-C2	-7.62	116.42	121.00
35	BB	901	U	C1'-O4'-C4'	-7.62	103.80	109.90
85	AA	1938	G	C8-N9-C1'	7.62	136.91	127.00
34	BA	121	A	C8-N9-C4	7.62	108.85	105.80
34	BA	178	C	C5'-C4'-O4'	-7.62	99.95	109.10
34	BA	1272	U	P-O3'-C3'	-7.62	110.55	119.70
34	BA	1649	A	C8-N9-C4	7.62	108.85	105.80
35	BB	434	A	C8-N9-C4	7.62	108.85	105.80
35	BB	1524	G	C8-N9-C1'	7.62	136.91	127.00
38	BE	94	U	C5'-C4'-C3'	7.62	128.20	116.00
52	BS	45	ARG	NE-CZ-NH1	7.62	124.11	120.30
85	AA	252	G	C2-N3-C4	-7.62	108.09	111.90
85	AA	1055	U	P-O5'-C5'	7.62	133.10	120.90
85	AA	1283	C	N1-C2-O2	7.62	123.47	118.90
85	AA	2166	G	O4'-C1'-N9	7.62	114.30	108.20
5	A4	191	MET	CG-SD-CE	-7.62	88.00	100.20
34	BA	1551	G	C5'-C4'-C3'	7.62	128.19	116.00
34	BA	1628	A	P-O3'-C3'	7.62	128.85	119.70
34	BA	1695	G	C3'-C2'-C1'	-7.62	95.40	101.50
35	BB	868	C	C5-C6-N1	7.62	124.81	121.00
37	BD	77	A	C8-N9-C4	7.62	108.85	105.80
40	BG	140	G	C5-C6-O6	-7.62	124.03	128.60
41	BH	29	G	C6-N1-C2	-7.62	120.53	125.10
85	AA	1822	G	C4-N9-C1'	-7.62	116.59	126.50
38	BE	109	C	O4'-C4'-C3'	-7.62	96.38	104.00
82	Bw	210	PHE	N-CA-CB	-7.62	96.88	110.60
34	BA	613	A	C8-N9-C4	7.62	108.85	105.80
34	BA	1175	G	C5'-C4'-C3'	-7.62	103.81	116.00
34	BA	1748	G	C5-C6-O6	-7.62	124.03	128.60
38	BE	27	A	C3'-C2'-C1'	-7.62	95.41	101.50
38	BE	66	A	N1-C6-N6	7.62	123.17	118.60
85	AA	944	C	C5-C4-N4	-7.62	114.87	120.20
85	AA	2179	C	N3-C2-O2	-7.62	116.57	121.90
6	A5	42	ARG	N-CA-C	-7.62	90.43	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	894	G	C5'-C4'-C3'	7.62	128.19	116.00
85	AA	2209	U	C6-N1-C1'	7.62	131.86	121.20
34	BA	212	A	C4-N9-C1'	-7.62	112.59	126.30
34	BA	1738	G	O4'-C1'-N9	7.62	114.29	108.20
35	BB	449	C	O4'-C1'-N1	7.62	114.29	108.20
35	BB	827	U	P-O3'-C3'	-7.62	110.56	119.70
35	BB	1140	C	O4'-C1'-N1	7.62	114.29	108.20
34	BA	78	U	C2-N3-C4	-7.61	122.43	127.00
34	BA	127	U	C6-N1-C1'	7.61	131.86	121.20
34	BA	482	C	C2'-C3'-O3'	7.61	126.25	109.50
34	BA	575	U	N1-C2-N3	-7.61	110.33	114.90
34	BA	1677	C	O4'-C1'-N1	7.61	114.29	108.20
35	BB	51	U	C3'-C2'-C1'	-7.61	95.41	101.50
35	BB	493	U	C5'-C4'-C3'	-7.61	103.82	116.00
85	AA	82	A	P-O5'-C5'	-7.61	108.72	120.90
85	AA	1173	A	N1-C6-N6	7.61	123.17	118.60
34	BA	86	A	O5'-P-OP2	-7.61	98.85	105.70
34	BA	959	G	N1-C6-O6	7.61	124.47	119.90
36	BC	62	A	C8-N9-C4	7.61	108.84	105.80
85	AA	84	C	P-O3'-C3'	-7.61	110.57	119.70
85	AA	413	G	C8-N9-C1'	7.61	136.90	127.00
85	AA	982	G	C5-C6-O6	-7.61	124.03	128.60
34	BA	470	C	O3'-P-O5'	-7.61	89.54	104.00
34	BA	1445	U	C2-N1-C1'	7.61	126.83	117.70
38	BE	1	U	C4'-C3'-C2'	-7.61	94.99	102.60
52	BS	120	TYR	N-CA-CB	-7.61	96.90	110.60
85	AA	927	A	O4'-C1'-N9	7.61	114.29	108.20
34	BA	1513	G	N3-C4-C5	-7.61	124.80	128.60
85	AA	9	U	P-O5'-C5'	-7.61	108.72	120.90
85	AA	327	G	C5'-C4'-C3'	7.61	128.18	116.00
85	AA	1432	C	C5-C4-N4	-7.61	114.87	120.20
85	AA	1644	G	N1-C6-O6	7.61	124.47	119.90
85	AA	2155	U	N3-C2-O2	-7.61	116.87	122.20
34	BA	220	U	P-O3'-C3'	-7.61	110.57	119.70
34	BA	1510	C	N3-C2-O2	-7.61	116.57	121.90
34	BA	1794	A	N9-C1'-C2'	-7.61	103.63	112.00
65	Bf	349	PRO	CA-N-CD	-7.61	100.85	111.50
85	AA	186	U	C3'-C2'-C1'	-7.61	95.41	101.50
35	BB	1334	C	O4'-C4'-C3'	-7.61	96.39	104.00
85	AA	525	C	C6-N1-C2	-7.61	117.26	120.30
85	AA	1463	A	C6-N1-C2	-7.61	114.04	118.60
85	AA	1864	G	C3'-C2'-C1'	-7.60	95.42	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	629	G	O4'-C1'-N9	7.60	114.28	108.20
34	BA	1355	G	O4'-C1'-N9	7.60	114.28	108.20
34	BA	1580	U	C5-C4-O4	-7.60	121.34	125.90
34	BA	1581	G	C5-C6-N1	7.60	115.30	111.50
35	BB	857	G	C1'-O4'-C4'	-7.60	103.82	109.90
35	BB	1197	G	N1-C6-O6	7.60	124.46	119.90
35	BB	1309	A	P-O3'-C3'	-7.60	110.58	119.70
38	BE	87	U	C1'-O4'-C4'	-7.60	103.82	109.90
39	BF	20	U	C2-N3-C4	-7.60	122.44	127.00
40	BG	175	G	C5'-C4'-C3'	7.60	128.16	116.00
85	AA	700	U	C2-N3-C4	-7.60	122.44	127.00
85	AA	2241	C	N3-C4-N4	-7.60	112.68	118.00
34	BA	1210	A	C1'-O4'-C4'	-7.60	103.82	109.90
39	BF	2	G	C6-C5-N7	-7.60	125.84	130.40
85	AA	1928	A	C4'-C3'-C2'	7.60	110.20	102.60
26	AS	18	ARG	NE-CZ-NH2	7.60	124.10	120.30
34	BA	329	G	C5-C6-N1	7.60	115.30	111.50
35	BB	1500	U	C2-N1-C1'	-7.60	108.58	117.70
40	BG	9	G	N9-C1'-C2'	-7.60	103.64	112.00
40	BG	130	G	C8-N9-C4	7.60	109.44	106.40
85	AA	28	A	O4'-C1'-N9	7.60	114.28	108.20
85	AA	275	A	O4'-C1'-N9	7.60	114.28	108.20
85	AA	1955	U	P-O5'-C5'	7.60	133.06	120.90
85	AA	1960	C	O4'-C1'-N1	7.60	114.28	108.20
86	AB	68	C	N3-C2-O2	-7.60	116.58	121.90
34	BA	543	A	N9-C1'-C2'	-7.60	103.64	112.00
34	BA	843	G	O4'-C1'-N9	7.60	114.28	108.20
35	BB	736	G	O4'-C1'-N9	7.60	114.28	108.20
35	BB	879	G	C5'-C4'-C3'	7.60	128.16	116.00
35	BB	1475	U	C5-C6-N1	-7.60	118.90	122.70
38	BE	54	U	C2-N3-C4	-7.60	122.44	127.00
85	AA	882	C	C2-N1-C1'	-7.60	110.44	118.80
34	BA	1005	C	O4'-C1'-N1	7.60	114.28	108.20
35	BB	438	G	C1'-O4'-C4'	-7.60	103.82	109.90
35	BB	1164	U	N1-C2-N3	7.60	119.46	114.90
41	BH	79	A	OP1-P-OP2	-7.60	108.21	119.60
85	AA	2010	C	C4'-C3'-C2'	-7.60	95.00	102.60
34	BA	470	C	O5'-C5'-C4'	-7.59	97.27	111.70
34	BA	519	G	P-O3'-C3'	-7.59	110.59	119.70
34	BA	1149	C	O4'-C1'-N1	7.59	114.28	108.20
34	BA	1722	U	C6-N1-C2	-7.59	116.44	121.00
37	BD	106	G	C8-N9-C1'	7.59	136.87	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	94	G	C4'-C3'-C2'	7.59	110.19	102.60
63	Bd	8	THR	C-N-CA	7.59	140.69	121.70
85	AA	810	C	O4'-C1'-N1	7.59	114.28	108.20
85	AA	1102	C	O4'-C1'-N1	7.59	114.28	108.20
85	AA	1426	G	C4'-C3'-C2'	-7.59	95.01	102.60
85	AA	1438	C	P-O3'-C3'	-7.59	110.59	119.70
34	BA	612	U	C2-N3-C4	-7.59	122.44	127.00
35	BB	512	C	C5'-C4'-C3'	-7.59	103.85	116.00
39	BF	34	C	O4'-C1'-N1	7.59	114.27	108.20
85	AA	2186	U	O4'-C1'-N1	7.59	114.27	108.20
20	AL	36	MET	CG-SD-CE	-7.59	88.05	100.20
34	BA	140	C	O4'-C1'-N1	7.59	114.27	108.20
34	BA	270	U	C5'-C4'-O4'	7.59	118.21	109.10
34	BA	621	G	C4-N9-C1'	-7.59	116.63	126.50
34	BA	1599	A	P-O5'-C5'	7.59	133.05	120.90
85	AA	708	G	C4-C5-C6	-7.59	114.25	118.80
85	AA	802	A	C5-C6-N6	-7.59	117.63	123.70
85	AA	1287	C	C5'-C4'-O4'	7.59	118.21	109.10
85	AA	1666	U	O4'-C1'-N1	7.59	114.27	108.20
85	AA	1835	U	C1'-O4'-C4'	-7.59	103.83	109.90
85	AA	2121	G	C2'-C3'-O3'	7.59	126.20	109.50
35	BB	119	G	N9-C1'-C2'	-7.59	103.65	112.00
35	BB	1469	A	C8-N9-C4	7.59	108.84	105.80
40	BG	144	G	O4'-C1'-N9	7.59	114.27	108.20
51	BR	50	GLN	N-CA-C	7.59	131.49	111.00
85	AA	296	A	N1-C6-N6	-7.59	114.05	118.60
85	AA	423	G	C1'-O4'-C4'	-7.59	103.83	109.90
85	AA	2217	A	N1-C6-N6	7.59	123.15	118.60
34	BA	1116	G	P-O5'-C5'	7.59	133.04	120.90
35	BB	1206	G	P-O5'-C5'	7.59	133.04	120.90
85	AA	450	A	C3'-C2'-C1'	-7.59	95.43	101.50
34	BA	141	G	C2'-C3'-O3'	7.59	126.19	109.50
34	BA	655	U	N3-C2-O2	-7.59	116.89	122.20
34	BA	1540	C	P-O3'-C3'	-7.59	110.60	119.70
34	BA	1613	G	N9-C1'-C2'	-7.59	103.66	112.00
35	BB	710	A	O4'-C1'-N9	7.59	114.27	108.20
35	BB	1150	A	C5-C6-N6	7.59	129.77	123.70
40	BG	149	U	O4'-C1'-C2'	7.59	114.43	107.60
85	AA	1603	G	P-O5'-C5'	-7.59	108.76	120.90
34	BA	48	C	N1-C1'-C2'	-7.58	103.66	112.00
34	BA	1171	C	C1'-O4'-C4'	-7.58	103.83	109.90
35	BB	429	C	O4'-C1'-N1	7.58	114.27	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	BU	39	TYR	CB-CG-CD2	-7.58	116.45	121.00
85	AA	1982	C	O4'-C1'-N1	7.58	114.27	108.20
14	AF	41	ARG	NE-CZ-NH1	7.58	124.09	120.30
34	BA	19	G	C4-N9-C1'	-7.58	116.64	126.50
34	BA	492	G	N9-C1'-C2'	-7.58	103.66	112.00
34	BA	1688	G	N1-C6-O6	7.58	124.45	119.90
35	BB	40	C	N3-C2-O2	-7.58	116.59	121.90
35	BB	368	C	O4'-C1'-N1	7.58	114.27	108.20
38	BE	125	C	C3'-C2'-C1'	-7.58	95.43	101.50
85	AA	179	G	P-O5'-C5'	7.58	133.03	120.90
85	AA	289	G	N1-C6-O6	7.58	124.45	119.90
85	AA	1188	A	P-O3'-C3'	-7.58	110.60	119.70
85	AA	1212	C	O4'-C1'-N1	7.58	114.27	108.20
34	BA	145	U	C2-N3-C4	-7.58	122.45	127.00
34	BA	177	G	C8-N9-C4	7.58	109.43	106.40
35	BB	843	G	P-O3'-C3'	-7.58	110.60	119.70
35	BB	1259	A	O5'-C5'-C4'	7.58	126.11	111.70
37	BD	119	U	P-O5'-C5'	-7.58	108.77	120.90
40	BG	159	A	C6-N1-C2	-7.58	114.05	118.60
41	BH	40	C	O4'-C1'-N1	7.58	114.27	108.20
85	AA	1757	C	O4'-C1'-N1	7.58	114.27	108.20
85	AA	1902	C	O4'-C1'-N1	7.58	114.27	108.20
85	AA	2010	C	O4'-C1'-N1	7.58	114.27	108.20
34	BA	899	G	P-O5'-C5'	7.58	133.03	120.90
34	BA	966	G	C5-C6-O6	7.58	133.15	128.60
35	BB	1314	G	C5'-C4'-C3'	-7.58	103.87	116.00
61	Bb	42	ARG	NE-CZ-NH1	7.58	124.09	120.30
65	Bf	280	HIS	CB-CA-C	-7.58	95.24	110.40
85	AA	385	A	C5'-C4'-O4'	7.58	118.20	109.10
85	AA	2103	C	O4'-C1'-N1	7.58	114.26	108.20
34	BA	490	A	N9-C1'-C2'	-7.58	103.66	112.00
34	BA	875	G	N7-C8-N9	-7.58	109.31	113.10
34	BA	877	U	C4'-C3'-C2'	7.58	110.18	102.60
34	BA	1612	C	P-O3'-C3'	-7.58	110.61	119.70
85	AA	1146	C	C6-N1-C2	-7.58	117.27	120.30
85	AA	1497	U	C5'-C4'-C3'	7.58	128.13	116.00
34	BA	158	U	O4'-C1'-N1	7.58	114.26	108.20
34	BA	587	U	C2'-C3'-O3'	7.58	126.17	109.50
35	BB	263	C	O4'-C1'-N1	7.58	114.26	108.20
84	By	173	PHE	CB-CG-CD2	-7.58	115.50	120.80
34	BA	829	U	O4'-C1'-N1	7.58	114.26	108.20
34	BA	1646	U	N3-C2-O2	-7.58	116.90	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1655	G	C5'-C4'-C3'	7.58	128.12	116.00
35	BB	1489	A	C2'-C3'-O3'	7.58	126.16	109.50
36	BC	12	A	C5-C6-N1	7.58	121.49	117.70
36	BC	90	U	O4'-C4'-C3'	-7.58	96.42	104.00
41	BH	72	G	C5-C6-O6	-7.58	124.06	128.60
85	AA	717	G	C5'-C4'-C3'	-7.58	103.88	116.00
85	AA	1465	C	N3-C2-O2	-7.58	116.60	121.90
85	AA	1670	U	C2-N1-C1'	-7.58	108.61	117.70
34	BA	852	C	N3-C4-N4	-7.57	112.70	118.00
34	BA	1676	A	O4'-C4'-C3'	-7.57	96.43	104.00
35	BB	1161	G	P-O3'-C3'	7.57	128.79	119.70
35	BB	653	G	P-O5'-C5'	7.57	133.01	120.90
39	BF	16	C	C2-N1-C1'	7.57	127.13	118.80
85	AA	1436	A	N1-C6-N6	-7.57	114.06	118.60
34	BA	471	U	C4-C5-C6	-7.57	115.16	119.70
34	BA	785	G	C4'-C3'-C2'	-7.57	95.03	102.60
34	BA	835	U	P-O5'-C5'	-7.57	108.79	120.90
34	BA	1272	U	C6-N1-C1'	-7.57	110.60	121.20
85	AA	345	U	O4'-C1'-N1	7.57	114.26	108.20
85	AA	392	G	C8-N9-C1'	7.57	136.84	127.00
34	BA	1445	U	C1'-O4'-C4'	-7.57	103.84	109.90
37	BD	48	G	C1'-O4'-C4'	-7.57	103.84	109.90
85	AA	469	G	N9-C1'-C2'	-7.57	103.67	112.00
34	BA	197	A	O4'-C1'-N9	7.57	114.25	108.20
34	BA	279	U	C3'-C2'-C1'	-7.57	95.45	101.50
34	BA	496	G	C4-N9-C1'	-7.57	116.66	126.50
85	AA	80	G	C8-N9-C1'	7.57	136.84	127.00
85	AA	1475	A	P-O3'-C3'	7.57	128.78	119.70
85	AA	1997	G	O3'-P-O5'	7.57	118.38	104.00
85	AA	2238	C	C2-N3-C4	-7.57	116.12	119.90
31	AX	155	TYR	CB-CG-CD2	-7.57	116.46	121.00
33	AZ	60	ARG	NE-CZ-NH2	-7.57	116.52	120.30
34	BA	395	G	C1'-O4'-C4'	-7.57	103.85	109.90
34	BA	782	C	N3-C4-N4	7.57	123.30	118.00
35	BB	1442	C	C4'-C3'-C2'	7.57	110.17	102.60
70	Bk	53	LYS	CB-CA-C	7.57	125.53	110.40
85	AA	76	G	O4'-C1'-N9	7.57	114.25	108.20
85	AA	272	C	C5'-C4'-C3'	-7.57	103.89	116.00
85	AA	1518	A	C8-N9-C4	7.57	108.83	105.80
85	AA	2187	G	P-O3'-C3'	-7.57	110.62	119.70
85	AA	2200	A	C8-N9-C4	7.57	108.83	105.80
35	BB	684	U	C6-N1-C1'	7.56	131.79	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	178	C	C2-N1-C1'	-7.56	110.48	118.80
34	BA	367	G	P-O3'-C3'	-7.56	110.62	119.70
34	BA	513	U	N3-C4-O4	-7.56	114.11	119.40
34	BA	1175	G	P-O3'-C3'	-7.56	110.62	119.70
35	BB	392	G	C5-C6-N1	7.56	115.28	111.50
35	BB	1022	C	O4'-C1'-N1	7.56	114.25	108.20
37	BD	81	C	C3'-C2'-C1'	-7.56	95.45	101.50
85	AA	37	U	P-O3'-C3'	-7.56	110.62	119.70
85	AA	1176	C	P-O3'-C3'	-7.56	110.62	119.70
86	AB	43	C	O4'-C1'-N1	7.56	114.25	108.20
34	BA	1552	C	C6-N1-C2	-7.56	117.28	120.30
85	AA	2094	U	P-O5'-C5'	-7.56	108.80	120.90
34	BA	694	G	N3-C2-N2	7.56	125.19	119.90
34	BA	718	U	O5'-P-OP1	-7.56	98.90	105.70
34	BA	1471	U	C2-N1-C1'	7.56	126.77	117.70
34	BA	1591	G	C8-N9-C4	7.56	109.42	106.40
85	AA	57	G	N3-C2-N2	7.56	125.19	119.90
85	AA	1092	G	C8-N9-C1'	7.56	136.83	127.00
85	AA	1626	U	P-O3'-C3'	-7.56	110.63	119.70
34	BA	180	G	C6-N1-C2	-7.56	120.56	125.10
34	BA	194	G	C5-C6-O6	7.56	133.13	128.60
34	BA	684	G	P-O3'-C3'	7.56	128.77	119.70
34	BA	720	A	P-O3'-C3'	-7.56	110.63	119.70
37	BD	91	U	N1-C2-N3	7.56	119.43	114.90
40	BG	110	U	C4'-C3'-C2'	7.56	110.16	102.60
52	BS	165	ARG	NE-CZ-NH2	-7.56	116.52	120.30
85	AA	966	G	C6-N1-C2	-7.56	120.57	125.10
35	BB	836	U	C2-N3-C4	-7.56	122.47	127.00
41	BH	47	G	C5-C6-O6	7.56	133.13	128.60
59	BZ	22	HIS	CA-CB-CG	7.56	126.44	113.60
85	AA	820	G	N3-C4-C5	-7.56	124.82	128.60
85	AA	856	G	C5'-C4'-C3'	7.56	128.09	116.00
34	BA	1	C	O3'-P-O5'	-7.55	89.65	104.00
34	BA	141	G	P-O5'-C5'	-7.55	108.81	120.90
34	BA	1226	G	C8-N9-C1'	7.55	136.82	127.00
35	BB	1367	U	N3-C2-O2	-7.55	116.91	122.20
41	BH	105	U	N3-C4-C5	7.55	119.13	114.60
53	BT	100	ARG	CB-CA-C	7.55	125.51	110.40
85	AA	1892	G	C4-N9-C1'	-7.55	116.68	126.50
35	BB	638	G	N1-C6-O6	7.55	124.43	119.90
35	BB	987	U	C6-N1-C1'	-7.55	110.63	121.20
35	BB	1071	G	C5'-C4'-C3'	-7.55	103.92	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1127	A	N1-C6-N6	-7.55	114.07	118.60
34	BA	420	A	C8-N9-C4	7.55	108.82	105.80
34	BA	1232	C	N3-C2-O2	-7.55	116.61	121.90
34	BA	1547	G	C5'-C4'-C3'	-7.55	103.92	116.00
34	BA	1635	A	O5'-P-OP1	-7.55	98.90	105.70
37	BD	93	G	C4-N9-C1'	-7.55	116.68	126.50
85	AA	2217	A	P-O3'-C3'	-7.55	110.64	119.70
34	BA	22	C	P-O3'-C3'	-7.55	110.64	119.70
34	BA	638	U	C5-C4-O4	7.55	130.43	125.90
34	BA	1530	G	C8-N9-C1'	7.55	136.81	127.00
35	BB	1161	G	N3-C2-N2	-7.55	114.62	119.90
35	BB	1512	C	C5-C6-N1	7.55	124.77	121.00
40	BG	23	C	C6-N1-C2	-7.55	117.28	120.30
41	BH	35	G	N7-C8-N9	7.55	116.88	113.10
49	BP	114	ARG	NE-CZ-NH2	-7.55	116.53	120.30
85	AA	157	G	C4'-C3'-C2'	-7.55	95.05	102.60
85	AA	160	A	O4'-C1'-N9	7.55	114.24	108.20
85	AA	198	U	C2-N3-C4	-7.55	122.47	127.00
85	AA	1564	U	C5'-C4'-C3'	7.55	128.08	116.00
34	BA	349	G	P-O5'-C5'	-7.55	108.82	120.90
34	BA	777	C	O3'-P-O5'	7.55	118.34	104.00
34	BA	1059	U	P-O5'-C5'	-7.55	108.82	120.90
34	BA	1397	C	O4'-C1'-N1	7.55	114.24	108.20
38	BE	126	G	C8-N9-C1'	7.55	136.81	127.00
85	AA	121	C	C5'-C4'-O4'	-7.55	100.04	109.10
34	BA	1176	C	C5'-C4'-C3'	-7.55	103.93	116.00
35	BB	847	U	P-O3'-C3'	-7.55	110.64	119.70
35	BB	1314	G	N3-C2-N2	7.55	125.18	119.90
85	AA	741	G	N1-C2-N2	-7.55	109.41	116.20
85	AA	787	U	C5'-C4'-O4'	7.55	118.16	109.10
41	BH	39	G	C6-N1-C2	-7.54	120.57	125.10
85	AA	995	G	N9-C1'-C2'	-7.54	103.70	112.00
34	BA	296	G	N9-C1'-C2'	7.54	123.81	114.00
34	BA	357	A	P-O5'-C5'	7.54	132.97	120.90
34	BA	514	U	C5'-C4'-O4'	7.54	118.15	109.10
34	BA	1023	G	P-O3'-C3'	-7.54	110.65	119.70
38	BE	65	U	O4'-C1'-N1	7.54	114.23	108.20
85	AA	628	C	O4'-C1'-N1	7.54	114.23	108.20
85	AA	867	G	C4'-C3'-C2'	-7.54	95.06	102.60
34	BA	1642	A	P-O5'-C5'	-7.54	108.83	120.90
34	BA	1699	A	C5'-C4'-C3'	7.54	128.07	116.00
35	BB	374	A	C5-C6-N1	7.54	121.47	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1137	G	P-O3'-C3'	-7.54	110.65	119.70
36	BC	65	G	C5'-C4'-C3'	-7.54	103.93	116.00
39	BF	57	C	C1'-O4'-C4'	-7.54	103.87	109.90
40	BG	46	G	C4-N9-C1'	-7.54	116.69	126.50
41	BH	48	G	C6-N1-C2	-7.54	120.58	125.10
85	AA	129	U	P-O3'-C3'	-7.54	110.65	119.70
34	BA	1846	G	C3'-C2'-C1'	-7.54	95.47	101.50
34	BA	1046	G	C5'-C4'-C3'	7.54	128.06	116.00
35	BB	897	C	C1'-O4'-C4'	-7.54	103.87	109.90
35	BB	1231	U	O5'-C5'-C4'	7.54	126.02	111.70
38	BE	37	C	O4'-C1'-N1	7.54	114.23	108.20
85	AA	1580	A	P-O3'-C3'	7.54	128.75	119.70
86	AB	20	U	O4'-C1'-N1	7.54	114.23	108.20
34	BA	436	U	C5'-C4'-C3'	-7.54	103.94	116.00
34	BA	1491	U	P-O3'-C3'	-7.54	110.66	119.70
34	BA	1514	A	N1-C6-N6	-7.54	114.08	118.60
35	BB	830	G	P-O5'-C5'	-7.54	108.84	120.90
35	BB	831	C	C1'-O4'-C4'	-7.54	103.87	109.90
35	BB	1425	A	P-O3'-C3'	-7.54	110.66	119.70
35	BB	1480	G	N3-C4-N9	-7.54	121.48	126.00
85	AA	713	G	N9-C1'-C2'	-7.54	103.71	112.00
34	BA	1067	G	C8-N9-C1'	7.53	136.79	127.00
34	BA	1489	U	C4'-C3'-C2'	-7.53	95.07	102.60
34	BA	1524	G	C5-C6-N1	7.53	115.27	111.50
35	BB	499	A	N1-C6-N6	-7.53	114.08	118.60
35	BB	652	G	P-O5'-C5'	7.53	132.95	120.90
35	BB	1000	U	P-O3'-C3'	-7.53	110.66	119.70
35	BB	1159	U	C2-N1-C1'	-7.53	108.66	117.70
35	BB	1169	A	P-O3'-C3'	-7.53	110.66	119.70
85	AA	1235	G	N3-C4-C5	-7.53	124.83	128.60
85	AA	1355	U	P-O5'-C5'	7.53	132.96	120.90
85	AA	1531	G	C4-N9-C1'	-7.53	116.71	126.50
34	BA	631	G	N1-C2-N2	7.53	122.98	116.20
34	BA	1845	G	N3-C4-N9	-7.53	121.48	126.00
35	BB	423	G	O4'-C1'-N9	7.53	114.22	108.20
35	BB	1404	A	P-O3'-C3'	-7.53	110.66	119.70
85	AA	4	C	C5'-C4'-O4'	7.53	118.14	109.10
85	AA	1217	U	O4'-C1'-N1	7.53	114.23	108.20
85	AA	1273	C	O4'-C1'-N1	7.53	114.22	108.20
85	AA	1637	C	C6-N1-C2	-7.53	117.29	120.30
34	BA	1723	U	N3-C2-O2	-7.53	116.93	122.20
35	BB	977	G	O4'-C1'-N9	7.53	114.22	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	80	G	C8-N9-C1'	7.53	136.79	127.00
64	Be	80	GLU	N-CA-C	7.53	131.33	111.00
85	AA	1006	C	N3-C2-O2	-7.53	116.63	121.90
40	BG	4	A	O4'-C1'-N9	7.53	114.22	108.20
80	Bu	15	ARG	NE-CZ-NH1	7.53	124.06	120.30
34	BA	416	A	C5-C6-N6	7.53	129.72	123.70
34	BA	1842	U	C5'-C4'-C3'	-7.53	103.96	116.00
35	BB	5	A	C5-C6-N1	7.53	121.46	117.70
36	BC	4	G	C8-N9-C1'	7.53	136.79	127.00
36	BC	123	G	C8-N9-C1'	7.53	136.79	127.00
36	BC	146	U	O4'-C1'-N1	7.53	114.22	108.20
40	BG	67	A	C5'-C4'-C3'	-7.53	103.95	116.00
41	BH	70	U	O4'-C1'-N1	7.53	114.22	108.20
49	BP	106	THR	N-CA-CB	7.53	124.60	110.30
34	BA	53	G	N7-C8-N9	-7.53	109.34	113.10
34	BA	182	U	N3-C2-O2	-7.53	116.93	122.20
34	BA	266	G	N1-C2-N2	-7.53	109.43	116.20
35	BB	775	U	N3-C2-O2	-7.53	116.93	122.20
37	BD	80	G	C1'-O4'-C4'	-7.53	103.88	109.90
40	BG	88	G	C5-C6-N1	7.53	115.26	111.50
41	BH	92	A	N1-C6-N6	7.53	123.11	118.60
85	AA	140	C	O4'-C1'-N1	7.53	114.22	108.20
85	AA	749	C	O4'-C1'-N1	7.53	114.22	108.20
35	BB	1004	A	C3'-C2'-C1'	-7.52	95.48	101.50
38	BE	56	U	C4'-C3'-C2'	-7.52	95.08	102.60
23	AP	220	PHE	CB-CG-CD2	-7.52	115.53	120.80
34	BA	1502	G	N3-C2-N2	7.52	125.17	119.90
35	BB	431	U	C2'-C3'-O3'	7.52	126.05	109.50
35	BB	657	A	C5-C6-N6	7.52	129.72	123.70
35	BB	889	U	O4'-C1'-N1	7.52	114.22	108.20
37	BD	46	G	C5'-C4'-C3'	-7.52	103.96	116.00
40	BG	128	U	C5'-C4'-C3'	7.52	128.04	116.00
85	AA	5	U	O5'-P-OP2	-7.52	98.93	105.70
85	AA	577	U	C5'-C4'-C3'	-7.52	103.97	116.00
85	AA	1464	G	C5-C6-O6	-7.52	124.09	128.60
34	BA	211	C	C2-N1-C1'	-7.52	110.53	118.80
35	BB	793	A	C5'-C4'-C3'	-7.52	103.97	116.00
35	BB	1461	C	C5'-C4'-C3'	7.52	128.03	116.00
64	Be	190	ARG	NE-CZ-NH1	7.52	124.06	120.30
85	AA	177	A	C8-N9-C4	7.52	108.81	105.80
85	AA	1812	C	C2-N1-C1'	-7.52	110.53	118.80
34	BA	566	G	C3'-C2'-C1'	-7.52	95.48	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	678	C	N3-C2-O2	-7.52	116.64	121.90
34	BA	1073	G	C5-C6-O6	-7.52	124.09	128.60
35	BB	381	C	O4'-C1'-N1	7.52	114.22	108.20
41	BH	97	C	O5'-P-OP2	7.52	119.72	110.70
80	Bu	186	PHE	CB-CG-CD1	-7.52	115.54	120.80
85	AA	131	C	C5'-C4'-C3'	-7.52	103.97	116.00
85	AA	432	A	C4-N9-C1'	-7.52	112.76	126.30
85	AA	466	A	N1-C6-N6	7.52	123.11	118.60
4	A3	31	TYR	CB-CG-CD2	-7.52	116.49	121.00
35	BB	1281	G	N9-C1'-C2'	-7.52	103.73	112.00
85	AA	238	C	O4'-C1'-N1	7.52	114.22	108.20
85	AA	241	U	C5'-C4'-C3'	-7.52	103.97	116.00
85	AA	369	A	C8-N9-C4	7.52	108.81	105.80
85	AA	1734	A	P-O3'-C3'	7.52	128.72	119.70
35	BB	299	U	O4'-C1'-N1	7.52	114.21	108.20
35	BB	886	G	C5-C6-O6	-7.52	124.09	128.60
40	BG	141	A	N1-C6-N6	7.52	123.11	118.60
34	BA	55	G	C5-C6-O6	-7.51	124.09	128.60
34	BA	1742	G	C5'-C4'-C3'	7.51	128.02	116.00
35	BB	424	U	C4'-C3'-C2'	-7.51	95.08	102.60
35	BB	1482	A	O3'-P-O5'	-7.51	89.72	104.00
72	Bm	38	TYR	CB-CG-CD2	-7.51	116.49	121.00
85	AA	579	U	O4'-C1'-N1	7.51	114.21	108.20
85	AA	769	C	P-O5'-C5'	7.51	132.92	120.90
85	AA	1731	G	P-O5'-C5'	7.51	132.92	120.90
85	AA	1991	C	C2-N1-C1'	7.51	127.07	118.80
34	BA	1240	G	N1-C6-O6	7.51	124.41	119.90
35	BB	654	C	P-O5'-C5'	-7.51	108.88	120.90
85	AA	18	C	O3'-P-O5'	7.51	118.27	104.00
15	AG	105	ASN	C-N-CA	7.51	140.48	121.70
35	BB	576	A	N1-C6-N6	-7.51	114.09	118.60
40	BG	180	C	C5'-C4'-O4'	7.51	118.11	109.10
56	BW	73	ARG	CA-C-N	-7.51	100.67	117.20
61	Bb	9	ARG	NE-CZ-NH1	7.51	124.06	120.30
85	AA	304	G	P-O3'-C3'	7.51	128.71	119.70
85	AA	1923	A	P-O3'-C3'	7.51	128.71	119.70
34	BA	742	C	N3-C4-C5	-7.51	118.90	121.90
34	BA	1357	C	O4'-C1'-N1	7.51	114.21	108.20
34	BA	1792	U	C2-N3-C4	-7.51	122.49	127.00
35	BB	592	G	O4'-C1'-N9	7.51	114.21	108.20
35	BB	1491	G	O4'-C1'-N9	7.51	114.21	108.20
36	BC	78	G	C5-C6-N1	7.51	115.25	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	88	A	C8-N9-C1'	7.51	141.22	127.70
37	BD	69	U	C2-N1-C1'	-7.51	108.69	117.70
85	AA	15	U	C2-N1-C1'	-7.51	108.69	117.70
85	AA	1020	C	P-O5'-C5'	-7.51	108.89	120.90
85	AA	1496	U	O5'-P-OP2	-7.51	98.94	105.70
85	AA	1719	C	C1'-O4'-C4'	-7.51	103.89	109.90
38	BE	16	C	O4'-C1'-N1	7.51	114.21	108.20
85	AA	1449	C	C4'-C3'-C2'	-7.51	95.09	102.60
3	A2	132	ARG	NE-CZ-NH1	7.51	124.05	120.30
34	BA	2	A	C4-N9-C1'	-7.51	112.79	126.30
34	BA	590	U	C4-C5-C6	-7.51	115.20	119.70
34	BA	748	C	C6-N1-C1'	7.51	129.81	120.80
34	BA	1705	C	O4'-C1'-N1	7.51	114.20	108.20
35	BB	1084	A	C8-N9-C4	7.51	108.80	105.80
35	BB	1387	C	P-O3'-C3'	-7.51	110.69	119.70
37	BD	3	G	C8-N9-C1'	7.51	136.76	127.00
85	AA	302	C	O3'-P-O5'	7.51	118.26	104.00
85	AA	1115	G	C5-C6-N1	7.51	115.25	111.50
85	AA	1516	A	N9-C1'-C2'	-7.51	103.74	112.00
39	BF	45	G	C8-N9-C4	-7.50	103.40	106.40
77	Br	61	HIS	CA-CB-CG	-7.50	100.84	113.60
85	AA	1126	G	N3-C2-N2	7.50	125.15	119.90
85	AA	1947	A	P-O5'-C5'	7.50	132.91	120.90
34	BA	687	G	N9-C1'-C2'	-7.50	103.75	112.00
35	BB	40	C	N1-C2-O2	7.50	123.40	118.90
35	BB	981	A	C4-N9-C1'	7.50	139.81	126.30
35	BB	1458	U	C4'-C3'-C2'	-7.50	95.10	102.60
38	BE	176	G	N3-C2-N2	-7.50	114.65	119.90
38	BE	200	A	N9-C1'-C2'	-7.50	103.75	112.00
41	BH	52	G	P-O3'-C3'	-7.50	110.70	119.70
85	AA	569	A	C3'-C2'-C1'	-7.50	95.50	101.50
85	AA	1163	G	C4-N9-C1'	-7.50	116.75	126.50
85	AA	1587	C	C6-N1-C2	-7.50	117.30	120.30
34	BA	756	A	C5-C6-N6	-7.50	117.70	123.70
34	BA	779	U	C5'-C4'-C3'	7.50	128.00	116.00
35	BB	1187	G	N9-C4-C5	7.50	108.40	105.40
35	BB	1461	C	O4'-C1'-N1	7.50	114.20	108.20
48	BO	208	MET	CG-SD-CE	-7.50	88.20	100.20
85	AA	936	C	C2'-C3'-O3'	7.50	126.00	109.50
34	BA	387	A	N1-C6-N6	-7.50	114.10	118.60
34	BA	1720	U	C5-C6-N1	-7.50	118.95	122.70
35	BB	77	A	C4-N9-C1'	-7.50	112.80	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	806	U	C5-C4-O4	-7.50	121.40	125.90
37	BD	1	G	O4'-C1'-N9	7.50	114.20	108.20
85	AA	1154	A	C5'-C4'-O4'	7.50	118.10	109.10
35	BB	814	A	O4'-C1'-N9	7.50	114.20	108.20
35	BB	1200	A	C6-N1-C2	-7.50	114.10	118.60
35	BB	1219	A	P-O3'-C3'	7.50	128.70	119.70
35	BB	1285	U	C2-N3-C4	-7.50	122.50	127.00
34	BA	398	G	N1-C2-N2	7.50	122.95	116.20
34	BA	974	G	C5'-C4'-O4'	7.50	118.10	109.10
35	BB	1206	G	N1-C2-N2	-7.50	109.45	116.20
36	BC	140	U	O5'-P-OP2	-7.50	98.95	105.70
40	BG	57	A	C8-N9-C4	-7.50	102.80	105.80
85	AA	1436	A	P-O5'-C5'	7.50	132.89	120.90
34	BA	968	G	C5'-C4'-C3'	7.50	127.99	116.00
35	BB	51	U	C5'-C4'-C3'	-7.50	104.01	116.00
85	AA	92	G	N1-C6-O6	7.50	124.40	119.90
85	AA	1287	C	C2-N3-C4	-7.50	116.15	119.90
19	AK	128	ARG	NE-CZ-NH2	-7.49	116.55	120.30
34	BA	211	C	C3'-C2'-C1'	-7.49	95.51	101.50
34	BA	1011	G	O4'-C1'-C2'	7.49	114.34	107.60
34	BA	1210	A	C5'-C4'-O4'	7.49	118.09	109.10
35	BB	535	U	P-O3'-C3'	-7.49	110.71	119.70
35	BB	995	C	O4'-C1'-C2'	7.49	114.34	107.60
61	Bb	9	ARG	NE-CZ-NH2	-7.49	116.55	120.30
85	AA	860	C	N1-C1'-C2'	-7.49	103.76	112.00
34	BA	66	C	P-O3'-C3'	-7.49	110.71	119.70
34	BA	1275	G	C4-N9-C1'	-7.49	116.76	126.50
34	BA	1604	A	P-O3'-C3'	7.49	128.69	119.70
34	BA	1704	G	C4-N9-C1'	-7.49	116.76	126.50
40	BG	27	C	C5-C4-N4	7.49	125.44	120.20
41	BH	109	G	C2-N3-C4	7.49	115.65	111.90
85	AA	328	U	P-O3'-C3'	-7.49	110.71	119.70
34	BA	73	G	C8-N9-C1'	7.49	136.74	127.00
34	BA	1027	C	N3-C2-O2	-7.49	116.66	121.90
35	BB	666	A	N1-C6-N6	-7.49	114.11	118.60
35	BB	731	U	P-O5'-C5'	7.49	132.89	120.90
35	BB	831	C	O4'-C1'-N1	7.49	114.19	108.20
35	BB	844	G	C8-N9-C1'	7.49	136.74	127.00
35	BB	1089	A	O4'-C1'-C2'	7.49	114.34	107.60
38	BE	25	U	P-O3'-C3'	7.49	128.69	119.70
85	AA	533	C	C5'-C4'-C3'	-7.49	104.02	116.00
85	AA	1427	A	N1-C6-N6	-7.49	114.11	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	368	U	P-O3'-C3'	-7.49	110.71	119.70
34	BA	545	U	O4'-C1'-N1	7.49	114.19	108.20
35	BB	976	U	N3-C2-O2	-7.49	116.96	122.20
36	BC	62	A	C5-N7-C8	-7.49	100.16	103.90
40	BG	60	A	C3'-C2'-C1'	-7.49	95.51	101.50
50	BQ	70	TYR	CB-CG-CD2	-7.49	116.51	121.00
85	AA	66	U	C5-C6-N1	-7.49	118.96	122.70
85	AA	659	A	N1-C6-N6	-7.49	114.11	118.60
85	AA	660	G	C4'-C3'-C2'	-7.49	95.11	102.60
85	AA	820	G	C8-N9-C1'	7.49	136.73	127.00
85	AA	1095	C	C6-N1-C2	-7.49	117.31	120.30
85	AA	1461	A	P-O3'-C3'	7.49	128.69	119.70
85	AA	1763	G	N1-C6-O6	7.49	124.39	119.90
34	BA	1189	A	C4'-C3'-C2'	-7.49	95.11	102.60
37	BD	113	G	P-O5'-C5'	7.49	132.88	120.90
38	BE	155	C	C1'-O4'-C4'	-7.49	103.91	109.90
85	AA	1089	G	O4'-C1'-N9	7.49	114.19	108.20
34	BA	744	G	N3-C2-N2	7.49	125.14	119.90
34	BA	1320	A	C5-C6-N6	-7.49	117.71	123.70
35	BB	334	G	O4'-C1'-N9	7.49	114.19	108.20
35	BB	413	A	C5'-C4'-C3'	-7.49	104.02	116.00
35	BB	423	G	P-O5'-C5'	7.49	132.88	120.90
35	BB	587	A	C5-C6-N6	-7.49	117.71	123.70
36	BC	49	G	N1-C6-O6	-7.49	115.41	119.90
85	AA	490	A	C6-N1-C2	-7.49	114.11	118.60
85	AA	1528	A	C1'-O4'-C4'	-7.49	103.91	109.90
85	AA	2114	U	C3'-C2'-C1'	-7.49	95.51	101.50
34	BA	105	U	C2-N3-C4	-7.48	122.51	127.00
36	BC	105	C	C5'-C4'-C3'	-7.48	104.03	116.00
84	By	178	TYR	CB-CG-CD2	-7.48	116.51	121.00
85	AA	204	U	C5'-C4'-C3'	7.48	127.97	116.00
34	BA	592	G	C5'-C4'-O4'	-7.48	100.12	109.10
34	BA	1036	G	O4'-C1'-N9	7.48	114.19	108.20
34	BA	1662	U	N3-C4-O4	-7.48	114.16	119.40
85	AA	730	G	O4'-C1'-N9	7.48	114.19	108.20
85	AA	789	A	C5'-C4'-C3'	7.48	127.97	116.00
85	AA	938	A	O4'-C1'-N9	7.48	114.19	108.20
85	AA	2092	A	O5'-C5'-C4'	-7.48	97.48	111.70
5	A4	119	ARG	NE-CZ-NH1	7.48	124.04	120.30
34	BA	316	G	O4'-C1'-N9	7.48	114.18	108.20
35	BB	145	G	C5-C6-O6	-7.48	124.11	128.60
65	Bf	438	TYR	CA-CB-CG	-7.48	99.19	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	590	U	P-O3'-C3'	7.48	128.68	119.70
35	BB	765	G	C4-N9-C1'	-7.48	116.78	126.50
38	BE	43	A	N1-C6-N6	-7.48	114.11	118.60
34	BA	700	G	C8-N9-C1'	7.48	136.72	127.00
34	BA	960	C	C1'-O4'-C4'	-7.48	103.92	109.90
34	BA	1485	U	C5-C6-N1	-7.48	118.96	122.70
40	BG	33	G	O4'-C1'-C2'	7.48	114.33	107.60
85	AA	214	C	O4'-C1'-N1	7.48	114.18	108.20
85	AA	241	U	N3-C2-O2	-7.48	116.97	122.20
85	AA	388	G	O3'-P-O5'	7.48	118.20	104.00
85	AA	478	U	C1'-O4'-C4'	-7.48	103.92	109.90
34	BA	113	G	N9-C1'-C2'	-7.48	103.78	112.00
34	BA	541	C	C6-N1-C2	-7.48	117.31	120.30
34	BA	1638	U	C2-N1-C1'	-7.48	108.73	117.70
35	BB	295	U	O4'-C1'-N1	7.48	114.18	108.20
35	BB	579	A	C5-C6-N6	-7.48	117.72	123.70
35	BB	1462	G	C5-C6-O6	7.48	133.09	128.60
52	BS	7	ARG	NE-CZ-NH2	-7.48	116.56	120.30
85	AA	46	U	P-O3'-C3'	7.48	128.67	119.70
34	BA	640	U	N3-C2-O2	-7.47	116.97	122.20
34	BA	1491	U	C5'-C4'-C3'	-7.47	104.04	116.00
34	BA	1799	G	N1-C6-O6	-7.47	115.42	119.90
40	BG	102	G	N1-C2-N2	-7.47	109.47	116.20
63	Bd	28	TYR	CB-CG-CD1	-7.47	116.52	121.00
85	AA	2142	A	C1'-O4'-C4'	-7.47	103.92	109.90
34	BA	917	C	C5-C4-N4	7.47	125.43	120.20
34	BA	1278	A	C1'-O4'-C4'	-7.47	103.92	109.90
34	BA	1478	G	C5-C6-O6	-7.47	124.12	128.60
35	BB	493	U	C1'-O4'-C4'	-7.47	103.92	109.90
81	Bv	75	ARG	CB-CA-C	-7.47	95.45	110.40
85	AA	2141	G	C6-C5-N7	-7.47	125.92	130.40
34	BA	10	G	C5-C6-O6	7.47	133.08	128.60
34	BA	1717	C	O4'-C1'-N1	7.47	114.18	108.20
40	BG	176	G	C8-N9-C1'	7.47	136.71	127.00
47	BN	14	ARG	NE-CZ-NH1	-7.47	116.56	120.30
34	BA	342	U	C2-N3-C4	-7.47	122.52	127.00
34	BA	1619	U	C4'-C3'-O3'	-7.47	93.71	109.40
35	BB	586	U	C2-N1-C1'	-7.47	108.74	117.70
35	BB	1537	C	C3'-C2'-C1'	-7.47	95.52	101.50
40	BG	64	C	P-O3'-C3'	-7.47	110.74	119.70
40	BG	97	G	N1-C6-O6	7.47	124.38	119.90
83	Bx	47	PHE	N-CA-C	7.47	131.17	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	604	C	C4'-C3'-C2'	-7.47	95.13	102.60
85	AA	1252	A	C5'-C4'-C3'	-7.47	104.05	116.00
85	AA	2007	G	O4'-C1'-C2'	7.47	114.32	107.60
34	BA	674	G	C5-C6-O6	-7.47	124.12	128.60
34	BA	884	G	N1-C6-O6	7.47	124.38	119.90
34	BA	1087	A	C4-C5-C6	-7.47	113.27	117.00
41	BH	8	C	P-O3'-C3'	7.47	128.66	119.70
34	BA	800	G	N1-C6-O6	7.47	124.38	119.90
34	BA	1420	A	O4'-C1'-N9	7.47	114.17	108.20
34	BA	1646	U	C2-N3-C4	-7.47	122.52	127.00
35	BB	1032	U	O4'-C1'-C2'	-7.47	98.33	105.80
35	BB	1065	G	O4'-C1'-N9	7.47	114.17	108.20
35	BB	1274	G	O4'-C1'-C2'	-7.47	98.33	105.80
35	BB	136	A	C1'-O4'-C4'	-7.46	103.93	109.90
35	BB	534	C	C1'-O4'-C4'	-7.46	103.93	109.90
35	BB	678	U	C2-N3-C4	-7.46	122.52	127.00
36	BC	28	C	C6-N1-C1'	-7.46	111.84	120.80
41	BH	19	G	C4'-C3'-C2'	7.46	110.06	102.60
85	AA	1814	U	N1-C2-N3	7.46	119.38	114.90
27	AT	72	GLY	C-N-CA	7.46	137.97	122.30
34	BA	616	G	C4-N9-C1'	-7.46	116.80	126.50
39	BF	25	G	C5-C6-O6	-7.46	124.12	128.60
85	AA	1840	C	C6-N1-C2	-7.46	117.31	120.30
13	AE	83	ARG	NE-CZ-NH1	-7.46	116.57	120.30
34	BA	112	C	C2-N1-C1'	-7.46	110.59	118.80
34	BA	310	C	O4'-C1'-N1	7.46	114.17	108.20
34	BA	483	A	C2'-C3'-O3'	7.46	125.91	109.50
34	BA	820	C	N1-C1'-C2'	-7.46	103.79	112.00
34	BA	1686	G	C5-C6-N1	7.46	115.23	111.50
35	BB	551	C	C6-N1-C2	-7.46	117.32	120.30
35	BB	765	G	C5-C6-O6	-7.46	124.12	128.60
37	BD	69	U	N3-C4-C5	7.46	119.08	114.60
38	BE	112	G	O4'-C1'-N9	7.46	114.17	108.20
40	BG	156	G	N1-C6-O6	7.46	124.38	119.90
85	AA	132	G	P-O3'-C3'	-7.46	110.75	119.70
35	BB	680	A	C4'-C3'-C2'	7.46	110.06	102.60
35	BB	797	C	O4'-C4'-C3'	-7.46	96.54	104.00
35	BB	1144	A	C5-C6-N1	7.46	121.43	117.70
49	BP	163	ARG	NE-CZ-NH1	7.46	124.03	120.30
85	AA	867	G	C5'-C4'-C3'	-7.46	104.06	116.00
85	AA	2153	G	C5-C6-O6	-7.46	124.12	128.60
35	BB	829	C	N3-C2-O2	-7.46	116.68	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	995	G	C8-N9-C4	7.46	109.38	106.40
86	AB	17	C	C5'-C4'-C3'	-7.46	104.06	116.00
34	BA	862	C	P-O5'-C5'	-7.46	108.97	120.90
34	BA	1210	A	P-O5'-C5'	7.46	132.83	120.90
35	BB	764	C	O4'-C1'-N1	7.46	114.17	108.20
35	BB	1166	A	C1'-O4'-C4'	-7.46	103.94	109.90
35	BB	1254	G	C4-N9-C1'	-7.46	116.81	126.50
85	AA	767	A	C1'-O4'-C4'	-7.46	103.94	109.90
85	AA	1930	U	O4'-C1'-N1	7.46	114.17	108.20
34	BA	191	G	N3-C2-N2	7.46	125.12	119.90
36	BC	27	U	N1-C2-N3	-7.46	110.43	114.90
37	BD	95	G	N3-C4-N9	7.46	130.47	126.00
39	BF	35	C	C5-C6-N1	7.46	124.73	121.00
24	AQ	33	MET	CG-SD-CE	-7.45	88.27	100.20
34	BA	582	U	C6-N1-C2	-7.45	116.53	121.00
35	BB	834	U	C5'-C4'-C3'	-7.45	104.07	116.00
37	BD	24	U	C3'-C2'-C1'	-7.45	95.54	101.50
38	BE	90	G	C5'-C4'-C3'	7.45	127.92	116.00
38	BE	111	C	C5'-C4'-O4'	7.45	118.04	109.10
38	BE	155	C	C5'-C4'-O4'	7.45	118.04	109.10
50	BQ	85	ARG	NE-CZ-NH2	-7.45	116.57	120.30
85	AA	2014	G	N1-C6-O6	7.45	124.37	119.90
23	AP	154	TRP	CB-CG-CD2	-7.45	116.91	126.60
34	BA	519	G	P-O5'-C5'	7.45	132.82	120.90
34	BA	322	U	C5'-C4'-C3'	-7.45	104.08	116.00
35	BB	75	A	P-O3'-C3'	-7.45	110.76	119.70
85	AA	383	C	N3-C4-N4	-7.45	112.78	118.00
85	AA	600	C	C6-N1-C2	-7.45	117.32	120.30
34	BA	579	U	O4'-C1'-N1	-7.45	102.24	108.20
35	BB	77	A	C8-N9-C4	7.45	108.78	105.80
35	BB	1037	A	P-O3'-C3'	7.45	128.64	119.70
35	BB	1397	G	P-O3'-C3'	7.45	128.64	119.70
35	BB	997	G	N1-C6-O6	7.45	124.37	119.90
85	AA	478	U	P-O5'-C5'	-7.45	108.98	120.90
85	AA	700	U	C5'-C4'-C3'	-7.45	104.08	116.00
85	AA	749	C	C5-C4-N4	7.45	125.41	120.20
14	AF	97	ARG	NE-CZ-NH2	-7.45	116.58	120.30
34	BA	1620	U	C4'-C3'-C2'	-7.45	95.16	102.60
35	BB	317	C	C6-N1-C2	-7.45	117.32	120.30
35	BB	1368	A	C1'-O4'-C4'	-7.45	103.94	109.90
35	BB	1458	U	C5'-C4'-O4'	7.45	118.03	109.10
38	BE	66	A	C5'-C4'-C3'	7.45	127.91	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	993	G	C5-C6-O6	-7.45	124.13	128.60
34	BA	1294	C	C5-C4-N4	7.44	125.41	120.20
35	BB	701	U	C6-N1-C1'	-7.44	110.78	121.20
35	BB	1483	A	C2'-C3'-O3'	7.44	125.88	109.50
85	AA	570	U	C6-N1-C1'	7.44	131.62	121.20
34	BA	71	G	C5-C6-O6	-7.44	124.13	128.60
34	BA	1429	A	P-O3'-C3'	-7.44	110.77	119.70
35	BB	1486	C	O4'-C1'-N1	7.44	114.15	108.20
40	BG	21	C	C1'-O4'-C4'	-7.44	103.95	109.90
85	AA	1132	A	O4'-C1'-N9	7.44	114.15	108.20
85	AA	2037	A	N1-C6-N6	7.44	123.07	118.60
34	BA	640	U	N1-C2-O2	7.44	128.01	122.80
34	BA	929	A	N1-C6-N6	7.44	123.06	118.60
34	BA	1205	A	P-O3'-C3'	7.44	128.63	119.70
34	BA	1434	U	C4'-C3'-C2'	-7.44	95.16	102.60
34	BA	1482	A	P-O3'-C3'	-7.44	110.77	119.70
35	BB	1132	A	O5'-C5'-C4'	-7.44	97.56	111.70
35	BB	1319	U	O5'-C5'-C4'	7.44	125.84	111.70
85	AA	995	G	C4-N9-C1'	-7.44	116.83	126.50
85	AA	2090	C	O4'-C1'-N1	7.44	114.15	108.20
19	AK	129	ARG	NE-CZ-NH2	-7.44	116.58	120.30
35	BB	1186	A	N9-C4-C5	-7.44	102.83	105.80
85	AA	47	A	C6-N1-C2	-7.44	114.14	118.60
85	AA	453	G	P-O3'-C3'	-7.44	110.77	119.70
85	AA	2011	C	N1-C1'-C2'	-7.44	103.82	112.00
34	BA	375	C	C1'-O4'-C4'	-7.44	103.95	109.90
40	BG	170	G	C1'-O4'-C4'	-7.44	103.95	109.90
85	AA	596	A	C5-C6-N6	-7.44	117.75	123.70
34	BA	572	G	C3'-C2'-C1'	7.44	107.45	101.50
68	Bi	14	ARG	NE-CZ-NH1	7.44	124.02	120.30
85	AA	57	G	C4'-C3'-C2'	-7.44	95.16	102.60
85	AA	1281	G	C4-C5-C6	-7.44	114.34	118.80
85	AA	2039	G	C4-N9-C1'	-7.44	116.83	126.50
35	BB	558	U	O4'-C1'-N1	7.43	114.15	108.20
35	BB	1438	U	P-O3'-C3'	-7.43	110.78	119.70
36	BC	163	A	C4-N9-C1'	-7.43	112.92	126.30
40	BG	68	U	O4'-C1'-N1	7.43	114.15	108.20
40	BG	179	C	P-O3'-C3'	-7.43	110.78	119.70
85	AA	315	U	O4'-C1'-N1	7.43	114.15	108.20
85	AA	360	C	O4'-C1'-N1	7.43	114.15	108.20
85	AA	675	A	N1-C6-N6	-7.43	114.14	118.60
85	AA	1706	A	C3'-C2'-C1'	-7.43	95.55	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	121	A	N1-C6-N6	7.43	123.06	118.60
34	BA	1612	C	C6-N1-C2	-7.43	117.33	120.30
35	BB	16	G	P-O3'-C3'	7.43	128.62	119.70
35	BB	128	C	P-O3'-C3'	-7.43	110.78	119.70
85	AA	773	G	C1'-O4'-C4'	-7.43	103.95	109.90
85	AA	891	G	C4-N9-C1'	7.43	136.16	126.50
85	AA	2114	U	O4'-C1'-N1	7.43	114.15	108.20
34	BA	7	U	P-O3'-C3'	-7.43	110.78	119.70
85	AA	645	C	C4'-C3'-C2'	7.43	110.03	102.60
85	AA	878	U	C2-N3-C4	-7.43	122.54	127.00
85	AA	979	U	P-O3'-C3'	7.43	128.62	119.70
85	AA	1149	A	C5'-C4'-C3'	-7.43	104.11	116.00
85	AA	1535	C	C2-N1-C1'	7.43	126.97	118.80
34	BA	86	A	N1-C6-N6	7.43	123.06	118.60
34	BA	436	U	C2-N1-C1'	-7.43	108.78	117.70
34	BA	729	C	N3-C2-O2	-7.43	116.70	121.90
34	BA	1177	C	C1'-O4'-C4'	-7.43	103.96	109.90
85	AA	455	G	C4-N9-C1'	-7.43	116.84	126.50
85	AA	740	A	C3'-C2'-C1'	-7.43	95.56	101.50
85	AA	910	G	C4-N9-C1'	-7.43	116.84	126.50
85	AA	2185	U	P-O3'-C3'	-7.43	110.78	119.70
40	BG	39	A	C8-N9-C4	7.43	108.77	105.80
85	AA	1364	U	P-O3'-C3'	-7.43	110.79	119.70
85	AA	1829	C	C3'-C2'-C1'	-7.43	95.56	101.50
34	BA	18	G	C4-N9-C1'	-7.43	116.84	126.50
34	BA	1329	U	N3-C2-O2	-7.43	117.00	122.20
34	BA	1640	G	C6-N1-C2	-7.43	120.64	125.10
34	BA	1789	A	C5'-C4'-O4'	7.43	118.01	109.10
35	BB	127	U	O4'-C1'-N1	7.43	114.14	108.20
35	BB	1185	G	C5-C6-N1	7.43	115.21	111.50
35	BB	1512	C	C2-N1-C1'	-7.43	110.63	118.80
37	BD	55	A	N1-C6-N6	-7.43	114.14	118.60
39	BF	50	C	C3'-C2'-C1'	-7.43	95.56	101.50
40	BG	17	A	P-O5'-C5'	-7.43	109.02	120.90
40	BG	45	G	C5'-C4'-C3'	7.43	127.88	116.00
85	AA	35	U	C3'-C2'-C1'	-7.43	95.56	101.50
85	AA	520	A	O5'-P-OP2	7.43	119.61	110.70
85	AA	556	C	P-O3'-C3'	-7.43	110.79	119.70
85	AA	762	U	O5'-P-OP2	7.43	119.61	110.70
85	AA	942	A	O4'-C1'-N9	7.43	114.14	108.20
85	AA	1001	G	N9-C1'-C2'	-7.43	103.83	112.00
85	AA	1644	G	C4-N9-C1'	7.43	136.16	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A2	149	PHE	CB-CG-CD2	-7.42	115.60	120.80
34	BA	166	G	P-O3'-C3'	-7.42	110.79	119.70
85	AA	1231	G	C4-N9-C1'	-7.42	116.85	126.50
85	AA	1676	G	C2-N3-C4	-7.42	108.19	111.90
34	BA	606	G	N3-C4-N9	7.42	130.45	126.00
34	BA	1517	U	N1-C1'-C2'	-7.42	103.83	112.00
35	BB	732	G	C1'-O4'-C4'	-7.42	103.96	109.90
35	BB	879	G	O4'-C4'-C3'	-7.42	96.58	104.00
26	AS	107	ARG	NE-CZ-NH1	7.42	124.01	120.30
34	BA	1164	C	P-O3'-C3'	-7.42	110.79	119.70
34	BA	1629	A	O3'-P-O5'	7.42	118.10	104.00
41	BH	102	C	O4'-C1'-N1	7.42	114.14	108.20
80	Bu	22	ARG	NE-CZ-NH2	-7.42	116.59	120.30
85	AA	36	U	N3-C2-O2	-7.42	117.00	122.20
85	AA	1889	U	C5'-C4'-C3'	-7.42	104.12	116.00
34	BA	1260	G	C4-N9-C1'	-7.42	116.85	126.50
35	BB	1224	C	C5'-C4'-C3'	-7.42	104.13	116.00
40	BG	25	G	C4-N9-C1'	-7.42	116.86	126.50
34	BA	892	C	C6-N1-C2	-7.42	117.33	120.30
34	BA	1211	G	C5-N7-C8	-7.42	100.59	104.30
35	BB	8	U	C5-C4-O4	-7.42	121.45	125.90
37	BD	83	A	OP1-P-O3'	7.42	121.52	105.20
61	Bb	19	TYR	CB-CG-CD1	7.42	125.45	121.00
82	Bw	188	TYR	CB-CG-CD1	-7.42	116.55	121.00
85	AA	1605	G	P-O3'-C3'	7.42	128.60	119.70
34	BA	91	C	C5'-C4'-O4'	7.42	118.00	109.10
34	BA	679	U	C2-N1-C1'	-7.42	108.80	117.70
34	BA	831	U	C6-N1-C2	-7.42	116.55	121.00
34	BA	1249	G	N3-C2-N2	7.42	125.09	119.90
35	BB	986	C	C6-N1-C1'	-7.42	111.90	120.80
35	BB	1512	C	C6-N1-C1'	7.42	129.70	120.80
40	BG	138	C	O4'-C1'-N1	7.42	114.13	108.20
64	Be	163	ARG	NE-CZ-NH1	7.42	124.01	120.30
85	AA	735	G	C5-C6-O6	-7.42	124.15	128.60
85	AA	740	A	C8-N9-C4	-7.42	102.83	105.80
85	AA	2100	A	C5'-C4'-C3'	7.42	127.87	116.00
35	BB	452	A	C5'-C4'-O4'	-7.42	100.20	109.10
35	BB	844	G	P-O3'-C3'	-7.42	110.80	119.70
85	AA	928	U	C5-C4-O4	-7.42	121.45	125.90
85	AA	1808	G	C8-N9-C1'	-7.42	117.36	127.00
34	BA	544	U	N1-C1'-C2'	-7.41	103.84	112.00
35	BB	80	C	N3-C2-O2	-7.41	116.71	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1454	G	C4'-C3'-C2'	-7.41	95.19	102.60
35	BB	1523	U	C3'-C2'-C1'	-7.41	95.57	101.50
85	AA	352	G	N9-C1'-C2'	-7.41	103.85	112.00
34	BA	1503	U	O3'-P-O5'	-7.41	89.92	104.00
35	BB	997	G	N9-C1'-C2'	-7.41	103.85	112.00
39	BF	72	A	O4'-C1'-N9	7.41	114.13	108.20
85	AA	390	U	C5'-C4'-C3'	-7.41	104.14	116.00
85	AA	690	G	C5-C6-N1	7.41	115.21	111.50
34	BA	373	G	C8-N9-C1'	7.41	136.63	127.00
34	BA	543	A	C6-N1-C2	-7.41	114.15	118.60
35	BB	866	A	C1'-O4'-C4'	-7.41	103.97	109.90
35	BB	1476	C	N1-C1'-C2'	-7.41	103.85	112.00
85	AA	2234	C	C6-N1-C2	-7.41	117.34	120.30
29	AV	91	ARG	NE-CZ-NH1	7.41	124.00	120.30
34	BA	926	A	C2'-C3'-O3'	7.41	125.80	109.50
34	BA	1711	G	O5'-C5'-C4'	-7.41	97.62	111.70
85	AA	2111	C	C6-N1-C2	-7.41	117.34	120.30
85	AA	2202	G	N9-C1'-C2'	-7.41	103.85	112.00
35	BB	1201	G	P-O3'-C3'	-7.41	110.81	119.70
37	BD	83	A	C3'-C2'-C1'	-7.41	95.57	101.50
34	BA	81	C	O5'-C5'-C4'	-7.41	97.63	111.70
35	BB	90	G	C8-N9-C4	7.41	109.36	106.40
85	AA	120	C	N3-C2-O2	-7.41	116.72	121.90
85	AA	1644	G	C5-C6-O6	-7.41	124.16	128.60
85	AA	2119	C	N1-C2-N3	7.41	124.38	119.20
86	AB	14	A	C5-C6-N6	7.41	129.62	123.70
36	BC	14	G	C4-N9-C1'	-7.40	116.88	126.50
85	AA	1245	U	C2-N3-C4	-7.40	122.56	127.00
85	AA	1732	G	O4'-C1'-N9	7.40	114.12	108.20
8	A7	245	PHE	CB-CG-CD2	-7.40	115.62	120.80
34	BA	301	U	C2-N3-C4	-7.40	122.56	127.00
34	BA	451	A	P-O3'-C3'	7.40	128.58	119.70
34	BA	1179	U	C5'-C4'-C3'	-7.40	104.16	116.00
34	BA	1834	A	C5'-C4'-C3'	-7.40	104.16	116.00
35	BB	92	C	C6-N1-C2	-7.40	117.34	120.30
35	BB	729	G	C5'-C4'-C3'	7.40	127.84	116.00
40	BG	38	A	C8-N9-C4	7.40	108.76	105.80
85	AA	103	U	C5'-C4'-C3'	-7.40	104.16	116.00
85	AA	812	C	O4'-C1'-N1	7.40	114.12	108.20
34	BA	1484	A	C6-N1-C2	-7.40	114.16	118.60
40	BG	141	A	C5-C6-N6	-7.40	117.78	123.70
85	AA	274	A	C1'-O4'-C4'	-7.40	103.98	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1929	G	P-O5'-C5'	-7.40	109.06	120.90
34	BA	238	C	N3-C4-C5	-7.40	118.94	121.90
34	BA	748	C	C2-N1-C1'	-7.40	110.66	118.80
34	BA	1664	C	P-O3'-C3'	-7.40	110.82	119.70
35	BB	599	U	P-O3'-C3'	-7.40	110.82	119.70
35	BB	1014	U	C6-N1-C1'	7.40	131.56	121.20
36	BC	38	U	O4'-C1'-C2'	-7.40	98.40	105.80
38	BE	83	U	C5'-C4'-O4'	7.40	117.98	109.10
85	AA	1454	U	P-O3'-C3'	-7.40	110.82	119.70
85	AA	1696	U	O4'-C1'-N1	7.40	114.12	108.20
35	BB	102	G	P-O3'-C3'	-7.40	110.83	119.70
19	AK	144	PHE	CB-CG-CD1	7.39	125.98	120.80
34	BA	362	G	P-O3'-C3'	-7.39	110.83	119.70
34	BA	1017	C	O4'-C1'-N1	7.39	114.11	108.20
34	BA	1096	C	C1'-O4'-C4'	-7.39	103.98	109.90
34	BA	1542	A	C5-C6-N6	-7.39	117.78	123.70
35	BB	460	C	C5'-C4'-C3'	7.39	127.83	116.00
35	BB	773	G	C4-N9-C1'	-7.39	116.89	126.50
52	BS	89	TYR	CB-CG-CD2	-7.39	116.56	121.00
82	Bw	220	PHE	CB-CG-CD2	-7.39	115.62	120.80
86	AB	5	G	C8-N9-C1'	7.39	136.61	127.00
34	BA	79	C	C6-N1-C2	-7.39	117.34	120.30
34	BA	579	U	C2'-C3'-O3'	7.39	125.76	109.50
34	BA	857	C	C2-N1-C1'	-7.39	110.67	118.80
34	BA	1102	A	C5-C6-N1	7.39	121.40	117.70
34	BA	1610	A	P-O5'-C5'	-7.39	109.07	120.90
35	BB	7	C	C5-C4-N4	7.39	125.37	120.20
35	BB	854	G	C4-N9-C1'	-7.39	116.89	126.50
37	BD	86	A	C8-N9-C1'	7.39	141.01	127.70
37	BD	92	G	C8-N9-C1'	7.39	136.61	127.00
39	BF	65	U	P-O3'-C3'	7.39	128.57	119.70
85	AA	95	U	C3'-C2'-C1'	-7.39	95.58	101.50
85	AA	289	G	C3'-C2'-C1'	-7.39	95.59	101.50
85	AA	487	G	N1-C6-O6	-7.39	115.46	119.90
85	AA	2136	C	C2-N1-C1'	-7.39	110.67	118.80
34	BA	294	C	O5'-C5'-C4'	-7.39	97.66	111.70
34	BA	868	C	C2-N3-C4	-7.39	116.20	119.90
34	BA	1352	G	C8-N9-C1'	7.39	136.61	127.00
35	BB	1007	U	O4'-C1'-N1	7.39	114.11	108.20
38	BE	8	G	C5-C6-N1	7.39	115.20	111.50
85	AA	493	A	C4-N9-C1'	-7.39	113.00	126.30
85	AA	967	C	C5'-C4'-C3'	-7.39	104.17	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	508	C	C6-N1-C1'	-7.39	111.93	120.80
34	BA	513	U	C1'-O4'-C4'	-7.39	103.99	109.90
34	BA	761	U	N1-C1'-C2'	-7.39	103.87	112.00
34	BA	1686	G	C5-C6-O6	-7.39	124.17	128.60
35	BB	61	A	O3'-P-O5'	-7.39	89.96	104.00
35	BB	291	C	O4'-C1'-N1	7.39	114.11	108.20
35	BB	1212	C	C5-C4-N4	7.39	125.37	120.20
36	BC	158	U	C5'-C4'-O4'	7.39	117.97	109.10
38	BE	96	G	N3-C4-C5	-7.39	124.91	128.60
40	BG	73	U	C2-N3-C4	-7.39	122.57	127.00
85	AA	585	G	C6-C5-N7	-7.39	125.97	130.40
85	AA	1370	G	C8-N9-C1'	7.39	136.61	127.00
3	A2	131	ARG	NE-CZ-NH1	7.39	123.99	120.30
34	BA	1162	U	P-O3'-C3'	-7.39	110.83	119.70
40	BG	169	A	C4-N9-C1'	-7.39	113.00	126.30
85	AA	400	G	O5'-P-OP2	7.39	119.57	110.70
85	AA	866	U	C4'-C3'-C2'	7.39	109.99	102.60
85	AA	1651	C	O4'-C1'-N1	7.39	114.11	108.20
11	AC	124	PHE	CB-CG-CD2	-7.39	115.63	120.80
34	BA	122	U	P-O3'-C3'	7.39	128.56	119.70
34	BA	782	C	O4'-C1'-N1	7.39	114.11	108.20
34	BA	1794	A	P-O3'-C3'	-7.39	110.84	119.70
36	BC	46	G	N3-C2-N2	7.39	125.07	119.90
40	BG	168	A	C4-C5-C6	-7.39	113.31	117.00
85	AA	367	A	N1-C6-N6	-7.39	114.17	118.60
34	BA	674	G	C8-N9-C4	7.38	109.35	106.40
34	BA	1615	A	C4'-C3'-C2'	-7.38	95.22	102.60
34	BA	1846	G	C5'-C4'-O4'	7.38	117.96	109.10
38	BE	127	G	C5-C6-N1	7.38	115.19	111.50
38	BE	131	C	C6-N1-C2	-7.38	117.35	120.30
40	BG	59	G	C4'-C3'-C2'	-7.38	95.22	102.60
85	AA	834	U	C1'-O4'-C4'	-7.38	103.99	109.90
85	AA	1856	G	C4-N9-C1'	-7.38	116.90	126.50
85	AA	1924	C	P-O5'-C5'	7.38	132.72	120.90
20	AL	100	ARG	NE-CZ-NH1	7.38	123.99	120.30
34	BA	505	U	O4'-C1'-N1	7.38	114.11	108.20
35	BB	876	G	C4-N9-C1'	-7.38	116.90	126.50
36	BC	26	U	C6-N1-C2	-7.38	116.57	121.00
40	BG	122	G	C4-N9-C1'	-7.38	116.90	126.50
34	BA	437	G	N1-C6-O6	7.38	124.33	119.90
34	BA	550	U	O4'-C1'-N1	7.38	114.10	108.20
34	BA	602	G	C2'-C3'-O3'	7.38	125.74	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	645	U	C5-C4-O4	-7.38	121.47	125.90
34	BA	1288	U	P-O3'-C3'	-7.38	110.84	119.70
35	BB	544	C	N3-C2-O2	-7.38	116.73	121.90
37	BD	15	U	P-O3'-C3'	-7.38	110.84	119.70
37	BD	111	U	C5'-C4'-C3'	-7.38	104.19	116.00
40	BG	15	G	C8-N9-C1'	7.38	136.60	127.00
85	AA	780	U	P-O5'-C5'	7.38	132.71	120.90
85	AA	1250	A	P-O3'-C3'	-7.38	110.84	119.70
34	BA	134	U	N1-C2-N3	7.38	119.33	114.90
34	BA	764	G	N1-C2-N2	-7.38	109.56	116.20
35	BB	1155	U	P-O3'-C3'	-7.38	110.84	119.70
85	AA	937	G	C8-N9-C1'	7.38	136.59	127.00
34	BA	888	G	C8-N9-C1'	7.38	136.59	127.00
34	BA	1295	U	C6-N1-C1'	7.38	131.53	121.20
68	Bi	58	TYR	CA-CB-CG	-7.38	99.38	113.40
85	AA	1153	G	C3'-C2'-C1'	-7.38	95.60	101.50
85	AA	1523	G	O4'-C1'-N9	7.38	114.10	108.20
85	AA	2200	A	N9-C1'-C2'	-7.38	103.88	112.00
34	BA	684	G	C4'-C3'-C2'	-7.38	95.22	102.60
35	BB	756	C	P-O3'-C3'	-7.38	110.85	119.70
36	BC	27	U	P-O5'-C5'	7.38	132.70	120.90
58	BY	2	ARG	NE-CZ-NH2	-7.38	116.61	120.30
85	AA	1810	C	P-O3'-C3'	-7.38	110.85	119.70
14	AF	55	ARG	NE-CZ-NH1	7.38	123.99	120.30
85	AA	1387	C	O4'-C1'-N1	7.38	114.10	108.20
34	BA	666	C	O4'-C1'-N1	7.37	114.10	108.20
34	BA	669	U	N1-C1'-C2'	-7.37	103.89	112.00
34	BA	996	U	N3-C2-O2	-7.37	117.04	122.20
34	BA	1318	G	P-O3'-C3'	-7.37	110.85	119.70
35	BB	399	A	P-O3'-C3'	-7.37	110.85	119.70
35	BB	701	U	C5'-C4'-O4'	7.37	117.95	109.10
35	BB	901	U	O5'-C5'-C4'	-7.37	97.69	111.70
38	BE	124	G	C2-N3-C4	-7.37	108.21	111.90
85	AA	364	C	C6-N1-C2	7.37	123.25	120.30
85	AA	1259	U	O4'-C1'-N1	7.37	114.10	108.20
85	AA	2244	G	C8-N9-C1'	-7.37	117.42	127.00
35	BB	440	U	C1'-O4'-C4'	-7.37	104.00	109.90
35	BB	590	G	N1-C6-O6	-7.37	115.48	119.90
39	BF	50	C	C2-N3-C4	-7.37	116.22	119.90
85	AA	744	C	C5'-C4'-C3'	-7.37	104.21	116.00
85	AA	2123	U	O4'-C1'-N1	7.37	114.10	108.20
35	BB	1475	U	O3'-P-O5'	7.37	118.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	BT	63	TRP	CA-CB-CG	7.37	127.70	113.70
85	AA	970	U	C2-N1-C1'	7.37	126.54	117.70
4	A3	38	ASP	CA-CB-CG	-7.37	97.19	113.40
34	BA	1220	C	N3-C2-O2	-7.37	116.74	121.90
34	BA	1535	G	C1'-O4'-C4'	-7.37	104.00	109.90
35	BB	993	A	O3'-P-O5'	-7.37	90.00	104.00
38	BE	146	U	N1-C2-N3	7.37	119.32	114.90
40	BG	171	A	O4'-C1'-C2'	-7.37	98.43	105.80
34	BA	563	A	P-O3'-C3'	-7.37	110.86	119.70
34	BA	719	G	C5'-C4'-C3'	-7.37	104.21	116.00
35	BB	877	A	O4'-C4'-C3'	-7.37	96.63	104.00
37	BD	87	G	O4'-C1'-N9	7.37	114.09	108.20
41	BH	109	G	C8-N9-C1'	7.37	136.58	127.00
85	AA	1670	U	C6-N1-C1'	7.37	131.51	121.20
34	BA	198	U	C2-N3-C4	-7.37	122.58	127.00
34	BA	223	U	P-O3'-C3'	7.37	128.54	119.70
34	BA	961	C	P-O5'-C5'	-7.37	109.11	120.90
34	BA	1454	G	C2-N3-C4	-7.37	108.22	111.90
35	BB	789	G	C1'-O4'-C4'	-7.37	104.01	109.90
35	BB	1414	A	N1-C6-N6	-7.37	114.18	118.60
36	BC	106	G	C1'-O4'-C4'	-7.37	104.01	109.90
38	BE	75	C	P-O3'-C3'	-7.37	110.86	119.70
40	BG	138	C	C4'-C3'-C2'	-7.37	95.23	102.60
40	BG	157	A	C5'-C4'-O4'	7.37	117.94	109.10
85	AA	820	G	N1-C6-O6	-7.37	115.48	119.90
85	AA	1367	C	O5'-C5'-C4'	-7.37	97.71	111.70
85	AA	2188	C	C5'-C4'-C3'	-7.37	104.22	116.00
34	BA	1821	A	C4'-C3'-C2'	-7.36	95.24	102.60
35	BB	319	C	O4'-C1'-N1	7.36	114.09	108.20
35	BB	629	C	P-O5'-C5'	7.36	132.68	120.90
35	BB	799	A	P-O5'-C5'	-7.36	109.12	120.90
67	Bh	36	ARG	NE-CZ-NH2	-7.36	116.62	120.30
85	AA	370	A	C5'-C4'-O4'	-7.36	100.26	109.10
85	AA	838	G	O4'-C1'-N9	7.36	114.09	108.20
85	AA	1922	A	O4'-C1'-C2'	-7.36	98.44	105.80
85	AA	559	G	C5'-C4'-C3'	-7.36	104.22	116.00
85	AA	1581	C	O4'-C1'-N1	7.36	114.09	108.20
34	BA	1011	G	P-O3'-C3'	-7.36	110.87	119.70
35	BB	1101	C	O4'-C1'-N1	7.36	114.09	108.20
38	BE	210	G	O4'-C1'-N9	7.36	114.09	108.20
85	AA	465	A	C2'-C3'-O3'	7.36	125.69	109.50
85	AA	529	G	O3'-P-O5'	-7.36	90.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1248	U	C4'-C3'-C2'	7.36	109.96	102.60
34	BA	110	C	O3'-P-O5'	7.36	117.98	104.00
34	BA	513	U	C5-C6-N1	-7.36	119.02	122.70
34	BA	655	U	P-O5'-C5'	-7.36	109.13	120.90
34	BA	1814	U	N3-C2-O2	-7.36	117.05	122.20
35	BB	694	C	N1-C2-O2	7.36	123.32	118.90
35	BB	1032	U	C4'-C3'-C2'	-7.36	95.24	102.60
38	BE	94	U	C2-N3-C4	-7.36	122.58	127.00
70	Bk	95	ARG	NE-CZ-NH1	7.36	123.98	120.30
85	AA	548	G	N9-C1'-C2'	-7.36	103.91	112.00
85	AA	1168	C	C4'-C3'-C2'	7.36	109.96	102.60
85	AA	1867	G	C5-C6-O6	-7.36	124.18	128.60
85	AA	2185	U	O4'-C1'-N1	7.36	114.09	108.20
34	BA	87	G	O4'-C1'-N9	7.36	114.09	108.20
34	BA	346	A	O4'-C1'-N9	7.36	114.09	108.20
34	BA	758	G	C5-N7-C8	-7.36	100.62	104.30
34	BA	1341	A	C5'-C4'-O4'	7.36	117.93	109.10
35	BB	37	C	C1'-O4'-C4'	-7.36	104.01	109.90
35	BB	880	G	C5-C6-O6	-7.36	124.19	128.60
41	BH	11	C	C6-N1-C2	-7.36	117.36	120.30
41	BH	118	U	O3'-P-O5'	7.36	117.98	104.00
85	AA	2018	U	N1-C2-O2	-7.36	117.65	122.80
34	BA	1472	G	C8-N9-C1'	7.36	136.56	127.00
35	BB	1331	U	C5'-C4'-C3'	-7.36	104.23	116.00
36	BC	32	U	O3'-P-O5'	7.36	117.97	104.00
36	BC	153	C	P-O5'-C5'	7.36	132.67	120.90
38	BE	8	G	C5'-C4'-O4'	7.36	117.92	109.10
39	BF	13	U	N1-C1'-C2'	-7.36	103.91	112.00
40	BG	164	U	P-O3'-C3'	-7.36	110.87	119.70
48	BO	112	ARG	NE-CZ-NH1	7.36	123.98	120.30
85	AA	23	G	C8-N9-C1'	7.36	136.56	127.00
85	AA	1274	A	O3'-P-O5'	7.36	117.97	104.00
85	AA	472	A	C8-N9-C1'	7.35	140.94	127.70
34	BA	172	A	C5-C6-N6	-7.35	117.82	123.70
34	BA	1011	G	C8-N9-C4	7.35	109.34	106.40
36	BC	154	A	P-O5'-C5'	-7.35	109.14	120.90
38	BE	8	G	C4-N9-C1'	7.35	136.06	126.50
61	Bb	3	THR	CA-CB-CG2	-7.35	102.11	112.40
35	BB	18	A	P-O3'-C3'	-7.35	110.88	119.70
35	BB	569	G	C5-C6-O6	7.35	133.01	128.60
35	BB	825	U	O4'-C1'-N1	7.35	114.08	108.20
35	BB	1543	C	O4'-C1'-N1	7.35	114.08	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	224	C	P-O3'-C3'	7.35	128.52	119.70
85	AA	392	G	C5-C6-O6	7.35	133.01	128.60
85	AA	944	C	O4'-C1'-N1	7.35	114.08	108.20
85	AA	1158	U	C6-N1-C2	-7.35	116.59	121.00
86	AB	52	G	C1'-O4'-C4'	-7.35	104.02	109.90
19	AK	76	ARG	NE-CZ-NH1	7.35	123.97	120.30
34	BA	1492	G	O4'-C1'-N9	7.35	114.08	108.20
35	BB	920	C	O4'-C1'-N1	7.35	114.08	108.20
35	BB	1218	G	O4'-C4'-C3'	-7.35	96.65	104.00
38	BE	183	C	C2-N3-C4	-7.35	116.23	119.90
40	BG	20	U	C6-N1-C2	-7.35	116.59	121.00
42	BI	59	ARG	NE-CZ-NH1	7.35	123.97	120.30
85	AA	288	G	N1-C6-O6	7.35	124.31	119.90
85	AA	875	C	C5'-C4'-C3'	-7.35	104.24	116.00
85	AA	1278	C	N1-C1'-C2'	-7.35	103.92	112.00
85	AA	1820	G	C4-N9-C1'	-7.35	116.95	126.50
34	BA	481	A	C5-N7-C8	-7.35	100.23	103.90
34	BA	974	G	N9-C1'-C2'	-7.35	103.92	112.00
34	BA	1595	G	C5-C6-O6	-7.35	124.19	128.60
85	AA	1284	A	N1-C6-N6	-7.35	114.19	118.60
85	AA	1809	G	N1-C6-O6	7.35	124.31	119.90
34	BA	700	G	C1'-O4'-C4'	-7.34	104.03	109.90
34	BA	973	U	P-O5'-C5'	-7.34	109.15	120.90
34	BA	1412	G	N3-C2-N2	7.34	125.04	119.90
38	BE	13	A	C1'-O4'-C4'	-7.34	104.03	109.90
85	AA	130	G	C4'-C3'-C2'	-7.34	95.26	102.60
85	AA	731	U	O4'-C1'-N1	7.34	114.08	108.20
85	AA	1617	G	O4'-C1'-N9	7.34	114.08	108.20
34	BA	790	G	C5-C6-O6	-7.34	124.19	128.60
70	Bk	121	ARG	NE-CZ-NH2	-7.34	116.63	120.30
85	AA	64	A	O3'-P-O5'	7.34	117.95	104.00
85	AA	1905	A	C5'-C4'-C3'	-7.34	104.25	116.00
34	BA	986	G	C6-N1-C2	-7.34	120.70	125.10
85	AA	975	G	C1'-O4'-C4'	-7.34	104.03	109.90
85	AA	1217	U	C6-N1-C1'	7.34	131.48	121.20
34	BA	111	U	O4'-C1'-C2'	7.34	114.21	107.60
34	BA	1297	G	N3-C4-N9	7.34	130.40	126.00
34	BA	1297	G	C8-N9-C1'	-7.34	117.46	127.00
34	BA	1341	A	C3'-C2'-C1'	-7.34	95.63	101.50
34	BA	1518	A	C8-N9-C4	7.34	108.74	105.80
35	BB	119	G	C4'-C3'-C2'	7.34	109.94	102.60
38	BE	21	C	P-O5'-C5'	-7.34	109.16	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	104	G	N3-C4-N9	7.34	130.40	126.00
53	BT	170	ARG	NE-CZ-NH1	7.34	123.97	120.30
80	Bu	248	MET	CG-SD-CE	-7.34	88.46	100.20
85	AA	800	A	O4'-C1'-N9	7.34	114.07	108.20
85	AA	860	C	N3-C4-N4	-7.34	112.86	118.00
85	AA	966	G	C8-N9-C4	-7.34	103.47	106.40
85	AA	1181	U	O4'-C1'-N1	7.34	114.07	108.20
85	AA	2176	U	C4'-C3'-C2'	7.34	109.94	102.60
85	AA	2193	A	C5-N7-C8	-7.34	100.23	103.90
34	BA	1738	G	C8-N9-C4	-7.34	103.47	106.40
41	BH	129	G	P-O5'-C5'	7.34	132.64	120.90
85	AA	940	G	N1-C6-O6	7.34	124.30	119.90
85	AA	1679	U	O4'-C1'-N1	7.34	114.07	108.20
34	BA	867	C	O4'-C1'-N1	7.34	114.07	108.20
34	BA	894	G	N1-C2-N2	-7.34	109.60	116.20
35	BB	717	A	P-O5'-C5'	-7.34	109.16	120.90
35	BB	779	C	C2-N1-C1'	-7.34	110.73	118.80
35	BB	1538	G	C8-N9-C1'	7.34	136.54	127.00
38	BE	86	C	O4'-C1'-N1	7.34	114.07	108.20
39	BF	19	A	O4'-C1'-N9	7.34	114.07	108.20
40	BG	33	G	C8-N9-C4	7.34	109.33	106.40
40	BG	71	C	P-O3'-C3'	-7.34	110.90	119.70
40	BG	109	C	C2-N1-C1'	-7.34	110.73	118.80
85	AA	588	G	C4-N9-C1'	-7.33	116.97	126.50
85	AA	1966	C	P-O5'-C5'	7.33	132.63	120.90
1	A0	202	ARG	NE-CZ-NH1	7.33	123.97	120.30
32	AY	47	LYS	CA-CB-CG	7.33	129.53	113.40
34	BA	941	G	N3-C2-N2	7.33	125.03	119.90
34	BA	1526	C	C5'-C4'-C3'	-7.33	104.27	116.00
34	BA	1566	G	P-O3'-C3'	-7.33	110.90	119.70
35	BB	1278	A	C8-N9-C4	7.33	108.73	105.80
37	BD	32	A	C4-N9-C1'	-7.33	113.10	126.30
53	BT	133	ARG	NE-CZ-NH1	7.33	123.97	120.30
85	AA	833	U	C6-N1-C1'	-7.33	110.93	121.20
85	AA	1098	C	C6-N1-C2	-7.33	117.37	120.30
85	AA	2141	G	N1-C6-O6	7.33	124.30	119.90
21	AM	40	ARG	NE-CZ-NH1	7.33	123.97	120.30
34	BA	860	G	C5'-C4'-C3'	-7.33	104.27	116.00
34	BA	1739	G	C4-N9-C1'	-7.33	116.97	126.50
35	BB	408	U	P-O3'-C3'	-7.33	110.90	119.70
35	BB	1546	C	C3'-C2'-C1'	-7.33	95.64	101.50
58	BY	37	ARG	N-CA-CB	7.33	123.80	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
86	AB	66	U	O3'-P-O5'	-7.33	90.07	104.00
34	BA	3	G	C5-C6-O6	-7.33	124.20	128.60
35	BB	1243	A	N1-C6-N6	-7.33	114.20	118.60
40	BG	14	G	C4'-C3'-C2'	-7.33	95.27	102.60
40	BG	78	C	C5'-C4'-C3'	-7.33	104.27	116.00
85	AA	1896	G	C2'-C3'-O3'	7.33	125.63	109.50
34	BA	320	G	C6-N1-C2	-7.33	120.70	125.10
35	BB	878	G	O3'-P-O5'	7.33	117.92	104.00
35	BB	1215	U	C2-N3-C4	-7.33	122.60	127.00
34	BA	30	A	C8-N9-C1'	7.33	140.89	127.70
34	BA	201	A	C4'-C3'-C2'	7.33	109.93	102.60
34	BA	1282	G	C6-N1-C2	-7.33	120.70	125.10
34	BA	1506	C	O5'-C5'-C4'	7.33	125.62	111.70
37	BD	14	C	C4'-C3'-C2'	7.33	109.93	102.60
37	BD	79	G	C8-N9-C1'	7.33	136.53	127.00
34	BA	372	U	P-O3'-C3'	-7.33	110.91	119.70
34	BA	1003	A	C8-N9-C4	7.33	108.73	105.80
34	BA	1385	U	P-O5'-C5'	7.33	132.62	120.90
34	BA	1450	G	C8-N9-C1'	7.33	136.52	127.00
38	BE	89	G	P-O3'-C3'	7.33	128.49	119.70
67	Bh	60	ALA	CB-CA-C	-7.33	99.11	110.10
85	AA	676	U	P-O3'-C3'	-7.33	110.91	119.70
85	AA	1525	C	N3-C2-O2	-7.33	116.77	121.90
34	BA	435	U	N1-C2-N3	7.32	119.30	114.90
34	BA	1607	U	N3-C2-O2	-7.32	117.07	122.20
35	BB	384	A	C8-N9-C4	-7.32	102.87	105.80
38	BE	163	A	N1-C2-N3	-7.32	125.64	129.30
85	AA	9	U	C1'-O4'-C4'	-7.32	104.04	109.90
85	AA	730	G	C8-N9-C4	-7.32	103.47	106.40
35	BB	428	G	P-O3'-C3'	-7.32	110.91	119.70
36	BC	130	U	P-O3'-C3'	-7.32	110.91	119.70
38	BE	203	C	C5-C4-N4	-7.32	115.08	120.20
85	AA	293	A	C3'-C2'-C1'	-7.32	95.64	101.50
85	AA	450	A	O4'-C1'-C2'	7.32	114.19	107.60
13	AE	106	TYR	CB-CG-CD2	-7.32	116.61	121.00
20	AL	82	MET	CG-SD-CE	-7.32	88.49	100.20
34	BA	809	U	C2-N1-C1'	-7.32	108.92	117.70
34	BA	1478	G	N1-C6-O6	7.32	124.29	119.90
35	BB	823	G	C4'-C3'-C2'	-7.32	95.28	102.60
35	BB	1407	U	P-O3'-C3'	7.32	128.48	119.70
35	BB	1546	C	P-O3'-C3'	-7.32	110.92	119.70
36	BC	71	A	N9-C1'-C2'	-7.32	103.95	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	30	C	O5'-C5'-C4'	-7.32	97.79	111.70
40	BG	31	G	C2-N3-C4	-7.32	108.24	111.90
85	AA	132	G	C5'-C4'-C3'	-7.32	104.29	116.00
35	BB	1220	A	O3'-P-O5'	-7.32	90.09	104.00
38	BE	68	U	N3-C2-O2	-7.32	117.08	122.20
85	AA	265	A	O4'-C1'-C2'	-7.32	98.48	105.80
85	AA	527	A	C6-N1-C2	-7.32	114.21	118.60
85	AA	716	G	C8-N9-C1'	7.32	136.51	127.00
85	AA	1863	A	P-O3'-C3'	-7.32	110.92	119.70
85	AA	2196	G	P-O3'-C3'	7.32	128.48	119.70
34	BA	814	C	C2-N1-C1'	7.32	126.85	118.80
35	BB	356	C	O4'-C1'-N1	7.32	114.05	108.20
35	BB	528	G	C8-N9-C1'	7.32	136.51	127.00
57	BX	82	PHE	CB-CG-CD2	-7.32	115.68	120.80
62	Bc	22	ARG	NE-CZ-NH1	7.32	123.96	120.30
13	AE	71	ASP	CB-CG-OD1	7.32	124.88	118.30
15	AG	127	ARG	NE-CZ-NH1	7.32	123.96	120.30
17	AI	147	ARG	NE-CZ-NH1	7.32	123.96	120.30
34	BA	274	C	O4'-C1'-N1	7.32	114.05	108.20
34	BA	554	A	N1-C6-N6	7.32	122.99	118.60
34	BA	653	U	C5-C6-N1	7.32	126.36	122.70
34	BA	997	U	N3-C2-O2	-7.32	117.08	122.20
34	BA	1097	G	O3'-P-O5'	-7.32	90.10	104.00
34	BA	1300	G	C4-N9-C1'	-7.32	116.99	126.50
35	BB	411	A	C8-N9-C4	7.32	108.73	105.80
35	BB	1384	A	C3'-C2'-C1'	-7.32	95.65	101.50
41	BH	47	G	N9-C1'-C2'	-7.32	103.95	112.00
42	BI	147	ARG	NE-CZ-NH2	-7.32	116.64	120.30
47	BN	206	ARG	CB-CA-C	7.32	125.03	110.40
56	BW	47	ARG	NE-CZ-NH2	-7.32	116.64	120.30
85	AA	556	C	C2'-C3'-O3'	7.32	125.59	109.50
85	AA	984	A	C1'-O4'-C4'	-7.32	104.05	109.90
85	AA	1221	G	N9-C1'-C2'	-7.32	103.95	112.00
85	AA	1991	C	N3-C4-N4	7.32	123.12	118.00
23	AP	229	ARG	NE-CZ-NH1	7.31	123.96	120.30
85	AA	537	G	C4-N9-C1'	-7.31	116.99	126.50
85	AA	742	U	O4'-C1'-N1	7.31	114.05	108.20
85	AA	821	U	C5-C6-N1	7.31	126.36	122.70
85	AA	1448	A	C6-N1-C2	-7.31	114.21	118.60
85	AA	1976	G	C4-N9-C1'	-7.31	116.99	126.50
34	BA	34	U	C1'-O4'-C4'	-7.31	104.05	109.90
35	BB	344	U	O4'-C1'-N1	7.31	114.05	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	38	G	C5-C6-O6	-7.31	124.21	128.60
85	AA	1867	G	P-O3'-C3'	-7.31	110.93	119.70
85	AA	1994	G	C4-N9-C1'	-7.31	116.99	126.50
34	BA	224	G	P-O3'-C3'	7.31	128.47	119.70
40	BG	37	G	C4-N9-C1'	-7.31	117.00	126.50
23	AP	259	MET	CG-SD-CE	-7.31	88.50	100.20
34	BA	1058	C	C4'-C3'-C2'	7.31	109.91	102.60
34	BA	1094	U	C2-N1-C1'	-7.31	108.93	117.70
34	BA	1807	G	N1-C2-N2	-7.31	109.62	116.20
35	BB	479	U	C2-N1-C1'	-7.31	108.93	117.70
35	BB	788	U	O4'-C1'-C2'	7.31	114.18	107.60
35	BB	995	C	C5'-C4'-C3'	-7.31	104.31	116.00
36	BC	34	U	C1'-O4'-C4'	-7.31	104.05	109.90
36	BC	125	A	N9-C1'-C2'	-7.31	103.96	112.00
62	Bc	82	MET	CG-SD-CE	-7.31	88.50	100.20
85	AA	233	C	P-O3'-C3'	-7.31	110.93	119.70
34	BA	2	A	C8-N9-C4	-7.31	102.88	105.80
34	BA	1296	U	OP1-P-OP2	-7.31	108.64	119.60
35	BB	359	A	O4'-C1'-N9	7.31	114.05	108.20
35	BB	832	C	C3'-C2'-C1'	-7.31	95.65	101.50
85	AA	1286	C	C5-C4-N4	-7.31	115.08	120.20
85	AA	2179	C	N1-C1'-C2'	-7.31	103.96	112.00
34	BA	1415	C	P-O5'-C5'	7.31	132.59	120.90
35	BB	1303	A	C5-C6-N6	-7.31	117.86	123.70
38	BE	13	A	N1-C6-N6	-7.31	114.22	118.60
38	BE	21	C	C2'-C3'-O3'	7.31	125.57	109.50
39	BF	23	G	C3'-C2'-C1'	-7.31	95.66	101.50
85	AA	146	U	N1-C2-N3	-7.31	110.52	114.90
85	AA	441	C	C5'-C4'-C3'	-7.31	104.31	116.00
85	AA	1447	U	C4'-C3'-C2'	-7.31	95.29	102.60
85	AA	1480	C	P-O3'-C3'	-7.31	110.93	119.70
34	BA	1587	C	O4'-C1'-N1	7.30	114.04	108.20
38	BE	66	A	C3'-C2'-C1'	-7.30	95.66	101.50
38	BE	190	U	C4'-C3'-C2'	7.30	109.91	102.60
40	BG	162	A	P-O5'-C5'	-7.30	109.21	120.90
85	AA	71	G	O4'-C1'-N9	7.30	114.04	108.20
85	AA	458	C	O4'-C1'-N1	7.30	114.04	108.20
85	AA	2017	U	O3'-P-O5'	-7.30	90.12	104.00
35	BB	943	U	O4'-C1'-N1	7.30	114.04	108.20
85	AA	1225	C	C6-N1-C2	-7.30	117.38	120.30
85	AA	1671	G	C4-N9-C1'	-7.30	117.01	126.50
85	AA	2167	A	C3'-C2'-C1'	-7.30	95.66	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	813	C	P-O3'-C3'	7.30	128.46	119.70
34	BA	1177	C	C5'-C4'-C3'	-7.30	104.32	116.00
34	BA	1298	U	O4'-C1'-N1	7.30	114.04	108.20
34	BA	1467	U	C1'-O4'-C4'	-7.30	104.06	109.90
38	BE	8	G	C8-N9-C1'	-7.30	117.51	127.00
85	AA	475	A	C8-N9-C1'	7.30	140.84	127.70
85	AA	537	G	C3'-C2'-C1'	-7.30	95.66	101.50
85	AA	867	G	C5-C6-O6	-7.30	124.22	128.60
85	AA	1124	G	C3'-C2'-C1'	-7.30	95.66	101.50
85	AA	2111	C	O4'-C1'-N1	7.30	114.04	108.20
1	A0	215	ARG	NE-CZ-NH1	7.30	123.95	120.30
34	BA	288	U	C3'-C2'-C1'	7.30	107.34	101.50
35	BB	746	A	O4'-C1'-N9	7.30	114.04	108.20
35	BB	1542	C	P-O5'-C5'	7.30	132.58	120.90
36	BC	50	C	C6-N1-C2	-7.30	117.38	120.30
37	BD	14	C	O5'-C5'-C4'	-7.30	97.83	111.70
35	BB	876	G	C8-N9-C1'	7.30	136.49	127.00
35	BB	1390	U	P-O5'-C5'	-7.30	109.22	120.90
37	BD	84	U	O4'-C1'-N1	7.30	114.04	108.20
85	AA	278	C	C4'-C3'-C2'	-7.30	95.30	102.60
85	AA	1485	G	N1-C6-O6	7.30	124.28	119.90
85	AA	2007	G	C4-N9-C1'	-7.30	117.01	126.50
13	AE	58	PHE	CB-CG-CD2	-7.30	115.69	120.80
34	BA	26	C	C5'-C4'-C3'	-7.30	104.33	116.00
34	BA	536	C	C6-N1-C2	-7.30	117.38	120.30
34	BA	1510	C	C5-C4-N4	7.30	125.31	120.20
35	BB	679	G	N3-C2-N2	7.30	125.01	119.90
35	BB	1410	G	O4'-C1'-N9	7.30	114.04	108.20
85	AA	17	C	C1'-O4'-C4'	-7.30	104.06	109.90
86	AB	44	G	N1-C6-O6	7.30	124.28	119.90
34	BA	192	G	C5-C6-O6	-7.29	124.22	128.60
34	BA	699	G	P-O3'-C3'	-7.29	110.95	119.70
35	BB	1341	U	O4'-C1'-N1	7.29	114.04	108.20
36	BC	134	G	C8-N9-C4	-7.29	103.48	106.40
85	AA	97	A	N9-C1'-C2'	-7.29	103.98	112.00
85	AA	746	G	O4'-C1'-N9	7.29	114.04	108.20
85	AA	868	A	C8-N9-C4	-7.29	102.88	105.80
34	BA	896	U	C3'-C2'-C1'	7.29	107.33	101.50
35	BB	1510	G	P-O3'-C3'	-7.29	110.95	119.70
40	BG	169	A	N9-C4-C5	-7.29	102.88	105.80
80	Bu	218	ARG	NE-CZ-NH2	-7.29	116.65	120.30
85	AA	1671	G	P-O3'-C3'	-7.29	110.95	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A2	140	MET	CA-CB-CG	7.29	125.70	113.30
4	A3	157	ARG	NE-CZ-NH2	-7.29	116.66	120.30
28	AU	105	ARG	NE-CZ-NH1	7.29	123.95	120.30
34	BA	665	C	P-O3'-C3'	-7.29	110.95	119.70
34	BA	1674	G	C8-N9-C1'	-7.29	117.52	127.00
35	BB	663	G	C6-N1-C2	-7.29	120.72	125.10
40	BG	95	U	P-O3'-C3'	-7.29	110.95	119.70
85	AA	90	A	O4'-C1'-C2'	-7.29	98.51	105.80
85	AA	188	G	O4'-C1'-N9	7.29	114.03	108.20
85	AA	260	A	N1-C6-N6	-7.29	114.23	118.60
85	AA	1084	A	N1-C6-N6	-7.29	114.22	118.60
85	AA	1281	G	N1-C6-O6	7.29	124.28	119.90
85	AA	1757	C	C6-N1-C1'	7.29	129.55	120.80
34	BA	362	G	C5-C6-N1	7.29	115.14	111.50
34	BA	424	U	C5'-C4'-O4'	7.29	117.85	109.10
34	BA	484	A	N1-C2-N3	-7.29	125.66	129.30
35	BB	1001	G	N3-C4-C5	-7.29	124.96	128.60
35	BB	1395	G	P-O3'-C3'	-7.29	110.95	119.70
36	BC	106	G	P-O3'-C3'	-7.29	110.95	119.70
41	BH	122	U	C1'-O4'-C4'	-7.29	104.07	109.90
48	BO	179	ARG	CD-NE-CZ	-7.29	113.40	123.60
85	AA	1277	C	C5-C4-N4	-7.29	115.10	120.20
85	AA	1362	A	C5'-C4'-O4'	-7.29	100.35	109.10
85	AA	1579	A	C1'-O4'-C4'	-7.29	104.07	109.90
24	AQ	24	ARG	NE-CZ-NH1	7.29	123.94	120.30
34	BA	1785	G	C4-N9-C1'	-7.29	117.03	126.50
35	BB	879	G	N3-C2-N2	7.29	125.00	119.90
38	BE	16	C	O5'-C5'-C4'	7.29	125.55	111.70
38	BE	32	U	C6-N1-C2	-7.29	116.63	121.00
80	Bu	190	ASN	CB-CA-C	-7.29	95.83	110.40
85	AA	260	A	C4'-C3'-C2'	-7.29	95.31	102.60
85	AA	1721	A	P-O5'-C5'	-7.29	109.24	120.90
86	AB	19	G	C5-C6-O6	-7.29	124.23	128.60
34	BA	460	G	C4-N9-C1'	-7.29	117.03	126.50
34	BA	1669	C	C2-N3-C4	-7.29	116.26	119.90
34	BA	1706	A	N1-C6-N6	-7.29	114.23	118.60
35	BB	837	A	C5-N7-C8	-7.29	100.26	103.90
35	BB	1513	U	C3'-C2'-C1'	-7.29	95.67	101.50
37	BD	80	G	C8-N9-C1'	7.29	136.47	127.00
38	BE	50	G	N3-C2-N2	7.29	125.00	119.90
65	Bf	134	PRO	N-CA-CB	7.29	112.04	103.30
85	AA	714	U	C6-N1-C2	-7.29	116.63	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1700	C	O4'-C1'-N1	7.29	114.03	108.20
85	AA	2155	U	N1-C2-N3	7.29	119.27	114.90
34	BA	22	C	C5'-C4'-C3'	-7.28	104.35	116.00
34	BA	237	A	C8-N9-C4	7.28	108.71	105.80
34	BA	519	G	C6-C5-N7	-7.28	126.03	130.40
34	BA	605	G	N1-C2-N3	7.28	128.27	123.90
34	BA	837	U	C3'-C2'-C1'	-7.28	95.67	101.50
35	BB	446	U	C5'-C4'-C3'	7.28	127.66	116.00
85	AA	147	G	C5'-C4'-C3'	-7.28	104.35	116.00
85	AA	865	G	C5'-C4'-C3'	-7.28	104.35	116.00
85	AA	879	G	C1'-O4'-C4'	-7.28	104.07	109.90
85	AA	978	U	C1'-O4'-C4'	-7.28	104.07	109.90
34	BA	1017	C	O5'-C5'-C4'	-7.28	97.86	111.70
34	BA	1697	U	N1-C2-O2	-7.28	117.70	122.80
85	AA	858	G	P-O3'-C3'	-7.28	110.96	119.70
85	AA	2102	A	N1-C6-N6	7.28	122.97	118.60
85	AA	2111	C	C6-N1-C1'	7.28	129.54	120.80
34	BA	218	G	C5-C6-O6	-7.28	124.23	128.60
34	BA	257	G	C8-N9-C4	7.28	109.31	106.40
34	BA	397	A	C1'-O4'-C4'	-7.28	104.08	109.90
34	BA	1216	G	P-O3'-C3'	7.28	128.44	119.70
35	BB	419	G	C1'-O4'-C4'	-7.28	104.08	109.90
35	BB	1463	A	C5'-C4'-C3'	7.28	127.65	116.00
38	BE	117	A	C3'-C2'-C1'	7.28	107.32	101.50
38	BE	142	A	C1'-O4'-C4'	-7.28	104.08	109.90
40	BG	117	C	C6-N1-C2	-7.28	117.39	120.30
85	AA	54	C	O4'-C1'-N1	7.28	114.02	108.20
85	AA	471	U	C2-N1-C1'	-7.28	108.96	117.70
85	AA	1878	C	O4'-C1'-N1	7.28	114.02	108.20
21	AM	131	ARG	NE-CZ-NH1	-7.28	116.66	120.30
34	BA	42	A	C5'-C4'-C3'	-7.28	104.35	116.00
85	AA	509	C	C4'-C3'-C2'	7.28	109.88	102.60
85	AA	1296	G	O4'-C1'-N9	7.28	114.02	108.20
85	AA	1540	A	P-O5'-C5'	7.28	132.55	120.90
85	AA	1608	U	C5'-C4'-C3'	-7.28	104.35	116.00
26	AS	136	GLN	N-CA-CB	7.28	123.70	110.60
34	BA	546	U	O3'-P-O5'	7.28	117.83	104.00
34	BA	1529	G	C5-C6-O6	7.28	132.97	128.60
35	BB	1017	U	P-O3'-C3'	-7.28	110.97	119.70
39	BF	3	A	P-O5'-C5'	7.28	132.54	120.90
64	Be	83	PHE	C-N-CA	7.28	139.89	121.70
85	AA	972	G	C5-C6-O6	-7.28	124.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1145	U	P-O3'-C3'	-7.28	110.97	119.70
85	AA	1206	A	C3'-C2'-C1'	-7.28	95.68	101.50
85	AA	1241	A	C4'-C3'-C2'	-7.28	95.32	102.60
85	AA	1676	G	C8-N9-C1'	7.28	136.46	127.00
34	BA	1828	A	O5'-P-OP2	-7.28	99.15	105.70
35	BB	87	G	C5-C6-O6	-7.28	124.23	128.60
41	BH	97	C	O4'-C1'-N1	7.28	114.02	108.20
85	AA	100	A	C4-C5-C6	-7.28	113.36	117.00
85	AA	415	G	C8-N9-C1'	7.28	136.46	127.00
85	AA	484	G	C8-N9-C4	7.28	109.31	106.40
85	AA	1167	G	N1-C6-O6	-7.28	115.53	119.90
85	AA	1366	A	C8-N9-C1'	7.28	140.79	127.70
85	AA	1487	G	C8-N9-C4	7.28	109.31	106.40
34	BA	941	G	N9-C1'-C2'	-7.27	104.00	112.00
34	BA	1497	A	C6-C5-N7	-7.27	127.21	132.30
35	BB	1179	C	C5'-C4'-C3'	7.27	127.64	116.00
38	BE	184	G	C5-C6-O6	7.27	132.96	128.60
85	AA	252	G	N3-C2-N2	7.27	124.99	119.90
85	AA	991	G	C4-C5-N7	-7.27	107.89	110.80
85	AA	1528	A	N1-C6-N6	-7.27	114.24	118.60
85	AA	1541	G	C5-C6-O6	-7.27	124.24	128.60
34	BA	18	G	C2-N3-C4	7.27	115.54	111.90
34	BA	590	U	C5'-C4'-C3'	-7.27	104.36	116.00
35	BB	333	C	P-O5'-C5'	7.27	132.54	120.90
35	BB	636	G	C5-C6-O6	-7.27	124.24	128.60
35	BB	653	G	C8-N9-C4	-7.27	103.49	106.40
35	BB	1083	C	C6-N1-C1'	-7.27	112.07	120.80
35	BB	1126	A	C1'-O4'-C4'	-7.27	104.08	109.90
36	BC	69	U	C2-N1-C1'	-7.27	108.97	117.70
40	BG	17	A	P-O3'-C3'	-7.27	110.97	119.70
41	BH	135	U	C5'-C4'-C3'	-7.27	104.36	116.00
85	AA	124	A	N1-C6-N6	-7.27	114.24	118.60
85	AA	1622	G	C2'-C3'-O3'	7.27	125.50	109.50
85	AA	2002	A	C4-N9-C1'	7.27	139.39	126.30
34	BA	961	C	C6-N1-C1'	-7.27	112.08	120.80
35	BB	532	C	C1'-O4'-C4'	-7.27	104.08	109.90
85	AA	39	A	C1'-O4'-C4'	-7.27	104.08	109.90
85	AA	2199	G	C8-N9-C1'	7.27	136.45	127.00
34	BA	482	C	P-O5'-C5'	-7.27	109.27	120.90
35	BB	823	G	C5-C6-N1	7.27	115.13	111.50
35	BB	1165	A	C5-C6-N1	7.27	121.33	117.70
56	BW	87	TRP	N-CA-CB	7.27	123.69	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	Bh	150	ARG	NE-CZ-NH2	-7.27	116.67	120.30
83	Bx	76	ARG	NE-CZ-NH1	7.27	123.93	120.30
34	BA	500	C	C3'-C2'-C1'	-7.27	95.69	101.50
34	BA	588	C	C6-N1-C2	-7.27	117.39	120.30
34	BA	1113	A	N1-C6-N6	7.27	122.96	118.60
34	BA	1737	A	C1'-O4'-C4'	-7.27	104.09	109.90
34	BA	1781	A	N1-C6-N6	7.27	122.96	118.60
37	BD	66	G	N1-C2-N2	-7.27	109.66	116.20
39	BF	72	A	P-O3'-C3'	7.27	128.42	119.70
85	AA	50	C	C6-N1-C2	-7.27	117.39	120.30
85	AA	111	A	C5'-C4'-O4'	7.27	117.82	109.10
85	AA	658	C	C3'-C2'-C1'	-7.27	95.69	101.50
85	AA	1576	G	C1'-O4'-C4'	-7.27	104.09	109.90
34	BA	1181	G	C4'-C3'-C2'	7.27	109.87	102.60
37	BD	37	G	O4'-C1'-N9	7.27	114.01	108.20
85	AA	570	U	N1-C2-N3	7.27	119.26	114.90
85	AA	1057	G	O4'-C1'-N9	7.27	114.01	108.20
34	BA	663	U	O4'-C1'-N1	7.26	114.01	108.20
34	BA	1487	U	C5-C4-O4	7.26	130.26	125.90
35	BB	1404	A	C5'-C4'-C3'	-7.26	104.38	116.00
36	BC	44	A	P-O5'-C5'	-7.26	109.28	120.90
38	BE	121	G	C5-C6-O6	-7.26	124.24	128.60
40	BG	157	A	C5-C6-N6	7.26	129.51	123.70
85	AA	822	U	C1'-O4'-C4'	-7.26	104.09	109.90
85	AA	2155	U	C6-N1-C1'	7.26	131.37	121.20
34	BA	655	U	C6-N1-C1'	7.26	131.37	121.20
35	BB	753	A	O4'-C1'-N9	7.26	114.01	108.20
85	AA	303	A	O4'-C4'-C3'	-7.26	96.74	104.00
85	AA	505	U	O5'-C5'-C4'	-7.26	97.90	111.70
85	AA	2138	G	O4'-C1'-N9	7.26	114.01	108.20
34	BA	495	A	C3'-C2'-C1'	-7.26	95.69	101.50
34	BA	1630	A	N9-C1'-C2'	-7.26	104.01	112.00
34	BA	1781	A	C8-N9-C4	-7.26	102.90	105.80
82	Bw	8	LEU	N-CA-CB	7.26	124.92	110.40
85	AA	70	U	C2-N1-C1'	-7.26	108.99	117.70
85	AA	587	G	C5'-C4'-C3'	7.26	127.62	116.00
85	AA	832	U	C5'-C4'-O4'	-7.26	100.39	109.10
85	AA	1124	G	C4-N9-C1'	-7.26	117.06	126.50
34	BA	373	G	C1'-O4'-C4'	-7.26	104.09	109.90
34	BA	576	C	C6-N1-C1'	-7.26	112.09	120.80
34	BA	894	G	C4'-C3'-C2'	7.26	109.86	102.60
34	BA	1087	A	C5-C6-N6	-7.26	117.89	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1500	G	C2-N3-C4	7.26	115.53	111.90
35	BB	391	G	N1-C6-O6	-7.26	115.54	119.90
35	BB	614	U	C6-N1-C2	-7.26	116.64	121.00
35	BB	855	G	N1-C6-O6	7.26	124.26	119.90
36	BC	29	C	P-O3'-C3'	7.26	128.41	119.70
36	BC	58	G	C5-C6-N1	7.26	115.13	111.50
37	BD	35	C	C1'-O4'-C4'	-7.26	104.09	109.90
43	BJ	51	ARG	NE-CZ-NH1	7.26	123.93	120.30
51	BR	62	ARG	NE-CZ-NH1	7.26	123.93	120.30
52	BS	14	ARG	NE-CZ-NH1	7.26	123.93	120.30
85	AA	111	A	O4'-C1'-N9	7.26	114.01	108.20
85	AA	130	G	O4'-C1'-N9	7.26	114.01	108.20
85	AA	1112	G	N1-C6-O6	7.26	124.26	119.90
85	AA	1287	C	P-O5'-C5'	-7.26	109.28	120.90
85	AA	1483	A	C1'-O4'-C4'	-7.26	104.09	109.90
86	AB	52	G	C5'-C4'-C3'	-7.26	104.39	116.00
85	AA	137	C	P-O3'-C3'	-7.26	110.99	119.70
85	AA	745	C	O4'-C1'-N1	7.26	114.01	108.20
34	BA	1197	U	C5-C4-O4	7.26	130.25	125.90
35	BB	128	C	C6-N1-C2	-7.26	117.40	120.30
35	BB	986	C	C2-N1-C1'	7.26	126.78	118.80
35	BB	1217	C	C5'-C4'-O4'	7.26	117.81	109.10
5	A4	155	MET	N-CA-CB	-7.25	97.54	110.60
35	BB	652	G	C6-N1-C2	-7.25	120.75	125.10
85	AA	844	C	C6-N1-C2	-7.25	117.40	120.30
34	BA	631	G	P-O3'-C3'	-7.25	111.00	119.70
34	BA	1482	A	C4'-C3'-C2'	7.25	109.85	102.60
35	BB	364	U	C2-N3-C4	-7.25	122.65	127.00
35	BB	834	U	O5'-P-OP2	7.25	119.40	110.70
37	BD	32	A	N9-C1'-C2'	-7.25	104.02	112.00
85	AA	1155	A	N1-C6-N6	7.25	122.95	118.60
85	AA	1520	A	P-O5'-C5'	-7.25	109.29	120.90
34	BA	487	A	C1'-O4'-C4'	-7.25	104.10	109.90
34	BA	766	A	C5-C6-N6	7.25	129.50	123.70
34	BA	1586	U	C2-N3-C4	-7.25	122.65	127.00
35	BB	375	G	N1-C6-O6	-7.25	115.55	119.90
35	BB	838	G	N3-C4-C5	-7.25	124.97	128.60
41	BH	90	C	OP1-P-OP2	-7.25	108.72	119.60
70	Bk	52	ARG	NE-CZ-NH1	7.25	123.93	120.30
85	AA	159	G	C8-N9-C1'	7.25	136.43	127.00
85	AA	2163	G	N1-C6-O6	-7.25	115.55	119.90
35	BB	1464	G	P-O3'-C3'	-7.25	111.00	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
74	Bo	25	ARG	NE-CZ-NH1	7.25	123.92	120.30
85	AA	1788	U	P-O3'-C3'	-7.25	111.00	119.70
34	BA	155	U	C6-N1-C2	-7.25	116.65	121.00
34	BA	301	U	N1-C1'-C2'	-7.25	104.03	112.00
34	BA	637	G	O4'-C1'-N9	7.25	114.00	108.20
35	BB	1200	A	C5-C6-N1	7.25	121.33	117.70
38	BE	34	C	O4'-C1'-N1	7.25	114.00	108.20
85	AA	173	A	C5'-C4'-C3'	-7.25	104.40	116.00
85	AA	1671	G	C8-N9-C1'	7.25	136.42	127.00
25	AR	26	ASN	CA-C-N	-7.25	101.26	117.20
34	BA	1341	A	C1'-O4'-C4'	-7.25	104.10	109.90
34	BA	1496	G	C2'-C3'-O3'	7.25	125.44	109.50
35	BB	26	C	C5'-C4'-C3'	-7.25	104.41	116.00
35	BB	899	C	C5-C6-N1	7.25	124.62	121.00
35	BB	1072	C	C6-N1-C2	7.25	123.20	120.30
53	BT	60	ARG	NE-CZ-NH1	7.25	123.92	120.30
85	AA	1174	G	C6-C5-N7	-7.25	126.05	130.40
85	AA	1300	A	O4'-C1'-N9	7.25	114.00	108.20
85	AA	1958	C	O4'-C1'-N1	7.25	114.00	108.20
34	BA	71	G	N3-C4-C5	-7.25	124.98	128.60
34	BA	1494	G	C6-N1-C2	-7.25	120.75	125.10
35	BB	63	A	O4'-C1'-N9	7.25	114.00	108.20
37	BD	26	C	O4'-C1'-N1	7.25	114.00	108.20
37	BD	98	G	C4-N9-C1'	-7.25	117.08	126.50
41	BH	10	U	C5-C4-O4	7.25	130.25	125.90
41	BH	35	G	C8-N9-C1'	7.25	136.42	127.00
82	Bw	229	MET	CG-SD-CE	-7.25	88.61	100.20
85	AA	486	G	C6-N1-C2	-7.25	120.75	125.10
5	A4	143	ARG	NE-CZ-NH2	-7.24	116.68	120.30
18	AJ	64	ASN	CA-CB-CG	-7.24	97.47	113.40
35	BB	133	G	N9-C1'-C2'	-7.24	104.03	112.00
35	BB	942	G	O4'-C1'-N9	7.24	113.99	108.20
35	BB	1046	C	O4'-C1'-N1	7.24	114.00	108.20
38	BE	126	G	C6-N1-C2	-7.24	120.75	125.10
85	AA	1713	A	C5-C6-N6	-7.24	117.91	123.70
85	AA	2229	G	N1-C6-O6	-7.24	115.55	119.90
38	BE	182	U	C5'-C4'-C3'	-7.24	104.41	116.00
40	BG	80	G	P-O3'-C3'	-7.24	111.01	119.70
85	AA	1924	C	O4'-C1'-N1	7.24	113.99	108.20
34	BA	67	A	C5'-C4'-C3'	-7.24	104.42	116.00
35	BB	1287	U	P-O3'-C3'	-7.24	111.01	119.70
37	BD	51	G	C1'-O4'-C4'	-7.24	104.11	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1099	U	P-O3'-C3'	-7.24	111.01	119.70
34	BA	1615	A	N9-C1'-C2'	-7.24	104.04	112.00
34	BA	1834	A	C5-C6-N1	7.24	121.32	117.70
35	BB	3	C	C1'-O4'-C4'	-7.24	104.11	109.90
35	BB	49	A	P-O3'-C3'	7.24	128.38	119.70
35	BB	1396	G	N3-C2-N2	7.24	124.97	119.90
35	BB	1422	G	N3-C4-N9	-7.24	121.66	126.00
35	BB	1489	A	O4'-C1'-N9	7.24	113.99	108.20
38	BE	129	G	C1'-O4'-C4'	-7.24	104.11	109.90
56	BW	3	LYS	C-N-CA	7.24	139.80	121.70
85	AA	150	U	N3-C2-O2	-7.24	117.13	122.20
85	AA	2218	G	C5-C6-O6	-7.24	124.26	128.60
34	BA	236	A	C6-N1-C2	-7.24	114.26	118.60
34	BA	991	U	C2-N3-C4	-7.24	122.66	127.00
34	BA	1194	G	O4'-C1'-C2'	7.24	114.11	107.60
34	BA	1531	G	C5-C6-N1	7.24	115.12	111.50
85	AA	999	A	O3'-P-O5'	7.24	117.75	104.00
85	AA	1114	A	C2-N3-C4	-7.24	106.98	110.60
35	BB	119	G	O4'-C1'-C2'	7.24	114.11	107.60
35	BB	256	G	C5-C6-O6	-7.24	124.26	128.60
35	BB	378	C	C4'-C3'-C2'	-7.24	95.36	102.60
35	BB	835	C	N3-C4-C5	-7.24	119.01	121.90
37	BD	119	U	C1'-O4'-C4'	-7.24	104.11	109.90
40	BG	54	G	C4-N9-C1'	-7.24	117.09	126.50
85	AA	187	C	C2-N3-C4	-7.24	116.28	119.90
85	AA	2121	G	C4-N9-C1'	-7.24	117.09	126.50
82	Bw	16	MET	CG-SD-CE	-7.23	88.63	100.20
85	AA	70	U	P-O5'-C5'	-7.23	109.33	120.90
85	AA	100	A	N3-C4-N9	-7.23	121.61	127.40
85	AA	170	C	C2'-C3'-O3'	7.23	125.42	109.50
34	BA	247	U	O4'-C1'-N1	7.23	113.99	108.20
34	BA	1176	C	C5-C4-N4	7.23	125.26	120.20
62	Bc	137	HIS	CA-CB-CG	7.23	125.90	113.60
85	AA	726	U	C2-N1-C1'	7.23	126.38	117.70
85	AA	1196	C	P-O3'-C3'	-7.23	111.02	119.70
85	AA	1525	C	C2'-C3'-O3'	7.23	125.41	109.50
34	BA	1644	A	C8-N9-C4	7.23	108.69	105.80
35	BB	104	G	C8-N9-C4	7.23	109.29	106.40
35	BB	623	A	C4-N9-C1'	-7.23	113.29	126.30
35	BB	797	C	OP2-P-O3'	7.23	121.11	105.20
35	BB	1124	G	P-O5'-C5'	7.23	132.47	120.90
40	BG	24	A	C4-N9-C1'	-7.23	113.28	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	359	A	C5'-C4'-C3'	7.23	127.57	116.00
85	AA	597	A	P-O5'-C5'	-7.23	109.33	120.90
85	AA	1276	A	P-O3'-C3'	-7.23	111.03	119.70
85	AA	1669	G	C8-N9-C1'	7.23	136.40	127.00
85	AA	2129	U	P-O3'-C3'	-7.23	111.02	119.70
36	BC	97	U	P-O3'-C3'	-7.23	111.03	119.70
40	BG	105	A	C4'-C3'-C2'	7.23	109.83	102.60
85	AA	354	C	C3'-C2'-C1'	-7.23	95.72	101.50
34	BA	975	A	C1'-O4'-C4'	-7.23	104.12	109.90
34	BA	1310	C	O4'-C1'-N1	7.23	113.98	108.20
35	BB	825	U	C3'-C2'-C1'	-7.23	95.72	101.50
35	BB	1246	C	C1'-O4'-C4'	-7.23	104.12	109.90
37	BD	70	C	P-O3'-C3'	-7.23	111.03	119.70
37	BD	106	G	C4-N9-C1'	-7.23	117.11	126.50
41	BH	36	C	C5'-C4'-C3'	-7.23	104.44	116.00
56	BW	47	ARG	NE-CZ-NH1	7.23	123.91	120.30
57	BX	59	THR	C-N-CA	7.23	139.77	121.70
80	Bu	141	ASP	C-N-CA	7.23	139.77	121.70
85	AA	1170	C	C5-C4-N4	7.23	125.26	120.20
85	AA	1668	G	C4-N9-C1'	-7.23	117.10	126.50
85	AA	1731	G	C8-N9-C4	-7.23	103.51	106.40
34	BA	113	G	C5'-C4'-O4'	-7.23	100.43	109.10
38	BE	127	G	N3-C4-C5	-7.23	124.99	128.60
40	BG	140	G	P-O5'-C5'	7.23	132.46	120.90
85	AA	823	C	P-O3'-C3'	-7.23	111.03	119.70
85	AA	1975	G	C8-N9-C4	-7.23	103.51	106.40
34	BA	1118	C	O4'-C1'-N1	7.22	113.98	108.20
34	BA	1577	U	N3-C2-O2	-7.22	117.14	122.20
35	BB	556	U	C1'-O4'-C4'	-7.22	104.12	109.90
35	BB	700	C	C4-C5-C6	-7.22	113.79	117.40
38	BE	7	U	C2-N3-C4	-7.22	122.67	127.00
57	BX	82	PHE	CA-CB-CG	7.22	131.24	113.90
85	AA	39	A	N9-C1'-C2'	-7.22	104.05	112.00
85	AA	57	G	P-O5'-C5'	-7.22	109.34	120.90
85	AA	211	C	O3'-P-O5'	7.22	117.73	104.00
85	AA	1978	G	N9-C4-C5	-7.22	102.51	105.40
34	BA	210	G	C8-N9-C1'	7.22	136.39	127.00
85	AA	794	A	C1'-O4'-C4'	-7.22	104.12	109.90
85	AA	2215	C	C2-N1-C1'	-7.22	110.86	118.80
34	BA	471	U	C2-N3-C4	-7.22	122.67	127.00
34	BA	1519	G	C1'-O4'-C4'	-7.22	104.12	109.90
36	BC	125	A	O4'-C1'-N9	7.22	113.98	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
77	Br	155	ASP	CB-CG-OD1	7.22	124.80	118.30
34	BA	72	U	O5'-P-OP2	-7.22	99.20	105.70
34	BA	257	G	C1'-O4'-C4'	-7.22	104.12	109.90
34	BA	1745	G	O4'-C1'-N9	7.22	113.97	108.20
37	BD	73	U	C5-C6-N1	-7.22	119.09	122.70
38	BE	142	A	P-O3'-C3'	7.22	128.36	119.70
65	Bf	173	TRP	CB-CG-CD2	-7.22	117.21	126.60
85	AA	448	G	O4'-C1'-N9	7.22	113.98	108.20
85	AA	877	G	N1-C6-O6	-7.22	115.57	119.90
85	AA	2210	C	C2-N1-C1'	-7.22	110.86	118.80
1	A0	117	ARG	NE-CZ-NH1	7.22	123.91	120.30
35	BB	1134	G	P-O5'-C5'	7.22	132.45	120.90
85	AA	701	C	O4'-C1'-N1	7.22	113.97	108.20
85	AA	1923	A	O4'-C1'-C2'	-7.22	98.58	105.80
30	AW	6	SER	C-N-CA	7.22	139.74	121.70
34	BA	1263	A	N1-C6-N6	-7.22	114.27	118.60
34	BA	1286	C	N3-C4-N4	-7.22	112.95	118.00
35	BB	1001	G	O3'-P-O5'	7.22	117.71	104.00
41	BH	14	C	O4'-C1'-N1	7.22	113.97	108.20
41	BH	47	G	N3-C4-C5	-7.22	124.99	128.60
85	AA	519	A	C8-N9-C4	7.22	108.69	105.80
85	AA	1176	C	C5'-C4'-C3'	7.22	127.55	116.00
85	AA	1935	G	C5-C6-O6	-7.22	124.27	128.60
10	A9	99	ARG	NE-CZ-NH2	-7.21	116.69	120.30
35	BB	22	A	P-O3'-C3'	7.21	128.36	119.70
35	BB	751	A	N1-C6-N6	-7.21	114.27	118.60
35	BB	816	U	N3-C4-C5	7.21	118.93	114.60
35	BB	904	C	C6-N1-C2	-7.21	117.41	120.30
85	AA	1998	A	N1-C6-N6	7.21	122.93	118.60
35	BB	1045	G	O5'-C5'-C4'	7.21	125.40	111.70
85	AA	354	C	O4'-C1'-N1	7.21	113.97	108.20
85	AA	478	U	C4-C5-C6	-7.21	115.37	119.70
85	AA	496	C	C2-N1-C1'	-7.21	110.87	118.80
85	AA	1100	U	C6-N1-C2	-7.21	116.67	121.00
34	BA	678	C	C5-C4-N4	-7.21	115.15	120.20
34	BA	1102	A	C6-N1-C2	-7.21	114.27	118.60
40	BG	133	C	N1-C1'-C2'	-7.21	104.07	112.00
41	BH	67	G	C5'-C4'-C3'	-7.21	104.46	116.00
84	By	111	ARG	NE-CZ-NH2	-7.21	116.69	120.30
85	AA	992	G	P-O3'-C3'	-7.21	111.05	119.70
85	AA	1822	G	C8-N9-C1'	7.21	136.38	127.00
85	AA	1883	C	O4'-C1'-N1	7.21	113.97	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2139	G	O4'-C1'-N9	7.21	113.97	108.20
34	BA	1499	A	C8-N9-C1'	7.21	140.68	127.70
35	BB	338	C	C6-N1-C2	-7.21	117.42	120.30
36	BC	31	A	C8-N9-C4	7.21	108.68	105.80
34	BA	1692	U	N3-C2-O2	-7.21	117.15	122.20
35	BB	56	U	P-O5'-C5'	7.21	132.43	120.90
35	BB	649	A	P-O3'-C3'	-7.21	111.05	119.70
35	BB	1043	C	O4'-C1'-N1	7.21	113.97	108.20
38	BE	163	A	P-O3'-C3'	-7.21	111.05	119.70
38	BE	183	C	C5-C4-N4	-7.21	115.15	120.20
74	Bo	13	ARG	NE-CZ-NH1	7.21	123.90	120.30
84	By	74	HIS	CA-CB-CG	-7.21	101.35	113.60
85	AA	586	G	P-O5'-C5'	7.21	132.44	120.90
85	AA	1120	G	P-O3'-C3'	-7.21	111.05	119.70
85	AA	1996	A	C5-C6-N1	-7.21	114.10	117.70
5	A4	67	LEU	N-CA-CB	-7.21	95.98	110.40
34	BA	288	U	C6-N1-C2	-7.21	116.68	121.00
36	BC	15	G	P-O3'-C3'	7.21	128.35	119.70
38	BE	21	C	N3-C2-O2	-7.21	116.86	121.90
85	AA	906	U	O4'-C1'-N1	7.21	113.97	108.20
85	AA	1501	A	C5'-C4'-C3'	-7.21	104.47	116.00
85	AA	1534	A	P-O3'-C3'	-7.21	111.05	119.70
85	AA	1955	U	N1-C2-N3	7.21	119.22	114.90
34	BA	798	G	C3'-C2'-C1'	-7.21	95.74	101.50
38	BE	43	A	C5'-C4'-C3'	7.21	127.53	116.00
38	BE	180	G	C5'-C4'-C3'	-7.21	104.47	116.00
34	BA	140	C	C5'-C4'-C3'	-7.20	104.47	116.00
35	BB	45	A	C2-N3-C4	-7.20	107.00	110.60
35	BB	703	U	C5'-C4'-C3'	-7.20	104.47	116.00
35	BB	874	G	O4'-C1'-N9	7.20	113.96	108.20
40	BG	36	G	C3'-C2'-C1'	-7.20	95.74	101.50
85	AA	715	G	O4'-C4'-C3'	-7.20	96.80	104.00
85	AA	747	U	C1'-O4'-C4'	-7.20	104.14	109.90
34	BA	1766	G	O4'-C1'-N9	7.20	113.96	108.20
53	BT	165	LYS	CB-CA-C	-7.20	96.00	110.40
78	Bs	47	MET	CG-SD-CE	-7.20	88.68	100.20
34	BA	1742	G	C5-C6-O6	-7.20	124.28	128.60
35	BB	829	C	C5'-C4'-C3'	7.20	127.52	116.00
40	BG	84	U	P-O3'-C3'	-7.20	111.06	119.70
85	AA	21	U	C2'-C3'-O3'	7.20	125.34	109.50
85	AA	761	G	C4-N9-C1'	7.20	135.86	126.50
85	AA	1921	G	O4'-C4'-C3'	-7.20	96.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	A6	39	ARG	NE-CZ-NH1	7.20	123.90	120.30
23	AP	78	ASP	CB-CA-C	7.20	124.80	110.40
34	BA	384	U	C6-N1-C2	-7.20	116.68	121.00
34	BA	432	A	C5'-C4'-C3'	-7.20	104.48	116.00
35	BB	77	A	C5'-C4'-C3'	7.20	127.52	116.00
35	BB	1346	A	N1-C6-N6	7.20	122.92	118.60
35	BB	1465	U	P-O3'-C3'	7.20	128.34	119.70
40	BG	67	A	C1'-O4'-C4'	-7.20	104.14	109.90
67	Bh	122	THR	N-CA-C	-7.20	91.56	111.00
85	AA	189	G	N1-C6-O6	-7.20	115.58	119.90
85	AA	341	C	O4'-C1'-N1	7.20	113.96	108.20
85	AA	415	G	N1-C6-O6	7.20	124.22	119.90
85	AA	2160	U	P-O3'-C3'	7.20	128.34	119.70
34	BA	1707	C	N1-C2-N3	7.20	124.24	119.20
34	BA	252	A	C5'-C4'-C3'	-7.20	104.49	116.00
34	BA	1207	A	O4'-C1'-N9	7.20	113.96	108.20
35	BB	1522	G	C3'-C2'-C1'	-7.20	95.74	101.50
38	BE	162	U	P-O5'-C5'	7.20	132.41	120.90
40	BG	32	U	C5'-C4'-C3'	-7.20	104.49	116.00
40	BG	178	G	C8-N9-C1'	7.20	136.35	127.00
85	AA	908	C	P-O3'-C3'	-7.20	111.06	119.70
86	AB	25	C	O4'-C1'-N1	7.20	113.96	108.20
34	BA	126	G	C5-C6-O6	-7.19	124.28	128.60
34	BA	1101	A	C1'-O4'-C4'	-7.19	104.14	109.90
35	BB	798	A	C6-C5-N7	-7.19	127.26	132.30
35	BB	1306	G	O3'-P-O5'	-7.19	90.33	104.00
35	BB	1315	C	P-O5'-C5'	7.19	132.41	120.90
51	BR	133	HIS	CA-CB-CG	-7.19	101.37	113.60
82	Bw	103	ARG	NE-CZ-NH2	-7.19	116.70	120.30
2	A1	146	TYR	CB-CG-CD1	-7.19	116.68	121.00
34	BA	210	G	C4-N9-C1'	-7.19	117.15	126.50
34	BA	1663	U	N3-C2-O2	-7.19	117.17	122.20
35	BB	390	G	O4'-C1'-N9	7.19	113.95	108.20
35	BB	764	C	N3-C2-O2	-7.19	116.86	121.90
35	BB	802	G	N9-C1'-C2'	-7.19	104.09	112.00
35	BB	839	G	C5'-C4'-C3'	7.19	127.51	116.00
37	BD	50	A	C5'-C4'-C3'	7.19	127.51	116.00
41	BH	4	U	C6-N1-C1'	7.19	131.27	121.20
41	BH	35	G	C8-N9-C4	-7.19	103.52	106.40
41	BH	54	U	O4'-C1'-N1	7.19	113.95	108.20
80	Bu	134	THR	N-CA-CB	7.19	123.97	110.30
85	AA	41	G	C5'-C4'-C3'	-7.19	104.49	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	400	G	C4-N9-C1'	-7.19	117.15	126.50
85	AA	814	G	C6-N1-C2	-7.19	120.78	125.10
85	AA	1989	A	C4-C5-C6	-7.19	113.40	117.00
23	AP	136	ARG	NE-CZ-NH1	7.19	123.89	120.30
34	BA	161	U	N3-C4-C5	-7.19	110.28	114.60
34	BA	201	A	C5'-C4'-C3'	-7.19	104.49	116.00
34	BA	365	A	C4'-C3'-C2'	7.19	109.79	102.60
34	BA	967	C	C3'-C2'-C1'	-7.19	95.75	101.50
34	BA	1476	G	C8-N9-C1'	7.19	136.35	127.00
34	BA	1485	U	N3-C2-O2	-7.19	117.17	122.20
36	BC	107	C	C1'-O4'-C4'	-7.19	104.15	109.90
40	BG	179	C	O4'-C1'-N1	7.19	113.95	108.20
85	AA	99	U	C2-N3-C4	-7.19	122.69	127.00
85	AA	145	C	O4'-C1'-N1	7.19	113.95	108.20
85	AA	815	G	N9-C4-C5	-7.19	102.52	105.40
85	AA	969	U	C6-N1-C2	-7.19	116.69	121.00
85	AA	1831	U	O4'-C1'-N1	7.19	113.95	108.20
85	AA	2071	U	C2-N1-C1'	-7.19	109.07	117.70
85	AA	2126	U	O4'-C1'-N1	7.19	113.95	108.20
34	BA	1070	G	P-O3'-C3'	-7.19	111.07	119.70
34	BA	1488	C	N1-C2-N3	-7.19	114.17	119.20
35	BB	1199	A	C5-C6-N6	7.19	129.45	123.70
85	AA	161	A	C5'-C4'-C3'	-7.19	104.50	116.00
85	AA	2113	U	C1'-O4'-C4'	-7.19	104.15	109.90
34	BA	110	C	C5-C6-N1	-7.19	117.41	121.00
34	BA	151	A	P-O5'-C5'	-7.19	109.40	120.90
34	BA	689	C	C5'-C4'-C3'	7.19	127.50	116.00
34	BA	1178	U	C5'-C4'-C3'	-7.19	104.50	116.00
34	BA	1231	C	O4'-C1'-N1	7.19	113.95	108.20
38	BE	6	A	C5'-C4'-C3'	-7.19	104.50	116.00
85	AA	614	U	C4'-C3'-C2'	-7.19	95.41	102.60
86	AB	13	C	C4'-C3'-C2'	-7.19	95.41	102.60
22	AO	84	ARG	NE-CZ-NH1	7.19	123.89	120.30
34	BA	1441	C	C6-N1-C2	-7.19	117.43	120.30
34	BA	1445	U	C6-N1-C1'	-7.19	111.14	121.20
85	AA	751	C	C4'-C3'-C2'	-7.19	95.41	102.60
11	AC	45	ARG	NE-CZ-NH1	7.18	123.89	120.30
34	BA	5	C	O4'-C1'-N1	7.18	113.95	108.20
34	BA	222	C	C2-N3-C4	-7.18	116.31	119.90
34	BA	502	U	C6-N1-C1'	7.18	131.26	121.20
34	BA	556	A	O4'-C1'-N9	7.18	113.95	108.20
34	BA	803	U	C2-N1-C1'	-7.18	109.08	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	816	G	N1-C6-O6	7.18	124.21	119.90
34	BA	1538	G	C5'-C4'-C3'	7.18	127.50	116.00
35	BB	137	A	C4-C5-C6	-7.18	113.41	117.00
35	BB	1458	U	C2-N3-C4	-7.18	122.69	127.00
39	BF	65	U	C6-N1-C2	-7.18	116.69	121.00
85	AA	580	C	P-O3'-C3'	-7.18	111.08	119.70
85	AA	1876	U	C2-N1-C1'	-7.18	109.08	117.70
34	BA	436	U	C6-N1-C1'	7.18	131.25	121.20
34	BA	512	U	C2'-C3'-O3'	7.18	125.30	109.50
34	BA	536	C	C6-N1-C1'	7.18	129.42	120.80
34	BA	602	G	N1-C6-O6	7.18	124.21	119.90
34	BA	984	U	C2-N3-C4	-7.18	122.69	127.00
34	BA	1729	G	P-O3'-C3'	-7.18	111.08	119.70
35	BB	449	C	C2-N3-C4	-7.18	116.31	119.90
38	BE	149	A	N7-C8-N9	7.18	117.39	113.80
85	AA	1814	U	C2-N3-C4	-7.18	122.69	127.00
85	AA	1988	A	P-O3'-C3'	7.18	128.32	119.70
85	AA	2180	C	C5'-C4'-C3'	7.18	127.49	116.00
34	BA	251	U	C5'-C4'-C3'	-7.18	104.51	116.00
35	BB	804	U	P-O5'-C5'	-7.18	109.41	120.90
85	AA	771	A	C8-N9-C4	-7.18	102.93	105.80
34	BA	755	G	C3'-C2'-C1'	-7.18	95.76	101.50
34	BA	795	G	C5-C6-O6	-7.18	124.29	128.60
35	BB	580	A	C5'-C4'-C3'	7.18	127.49	116.00
35	BB	620	G	P-O3'-C3'	-7.18	111.08	119.70
42	BI	187	ARG	NE-CZ-NH2	-7.18	116.71	120.30
85	AA	642	G	C4-N9-C1'	-7.18	117.17	126.50
85	AA	681	G	O5'-C5'-C4'	7.18	125.34	111.70
24	AQ	76	THR	N-CA-C	7.18	130.38	111.00
34	BA	1579	G	O4'-C1'-C2'	-7.18	98.62	105.80
35	BB	673	C	O4'-C1'-N1	7.18	113.94	108.20
65	Bf	318	TYR	CB-CG-CD2	-7.18	116.69	121.00
77	Br	301	LYS	N-CA-CB	-7.18	97.68	110.60
34	BA	758	G	P-O5'-C5'	-7.18	109.42	120.90
34	BA	1053	U	P-O3'-C3'	7.18	128.31	119.70
34	BA	1402	C	O4'-C1'-N1	7.18	113.94	108.20
34	BA	1510	C	N1-C2-O2	7.18	123.20	118.90
34	BA	1826	C	C2-N3-C4	-7.18	116.31	119.90
36	BC	41	A	C5'-C4'-C3'	7.18	127.48	116.00
37	BD	119	U	O4'-C1'-N1	7.18	113.94	108.20
70	Bk	94	ARG	NE-CZ-NH2	-7.18	116.71	120.30
79	Bt	10	MET	CG-SD-CE	-7.18	88.72	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	477	U	P-O3'-C3'	7.18	128.31	119.70
85	AA	1603	G	N1-C6-O6	7.18	124.21	119.90
34	BA	805	A	C4'-C3'-C2'	-7.17	95.42	102.60
34	BA	873	G	O4'-C1'-N9	7.17	113.94	108.20
35	BB	701	U	C6-N1-C2	-7.17	116.70	121.00
35	BB	1043	C	O5'-P-OP1	7.17	119.31	110.70
39	BF	38	C	C5-C6-N1	7.17	124.59	121.00
85	AA	406	U	O4'-C1'-N1	7.17	113.94	108.20
85	AA	595	A	O4'-C1'-N9	7.17	113.94	108.20
85	AA	1301	C	N3-C2-O2	-7.17	116.88	121.90
85	AA	2231	G	O3'-P-O5'	-7.17	90.37	104.00
35	BB	577	U	P-O5'-C5'	7.17	132.38	120.90
35	BB	1326	U	O4'-C1'-N1	7.17	113.94	108.20
39	BF	70	A	P-O3'-C3'	-7.17	111.09	119.70
41	BH	10	U	N3-C2-O2	-7.17	117.18	122.20
85	AA	163	C	N3-C4-N4	7.17	123.02	118.00
85	AA	269	G	N1-C6-O6	7.17	124.20	119.90
15	AG	121	ARG	NE-CZ-NH2	-7.17	116.71	120.30
34	BA	1172	C	O4'-C1'-C2'	7.17	114.05	107.60
35	BB	877	A	O4'-C1'-N9	7.17	113.94	108.20
38	BE	39	U	O4'-C1'-N1	7.17	113.94	108.20
38	BE	67	A	C1'-O4'-C4'	-7.17	104.16	109.90
41	BH	122	U	C6-N1-C1'	-7.17	111.16	121.20
61	Bb	76	ASP	CB-CG-OD2	7.17	124.75	118.30
85	AA	477	U	C2-N3-C4	-7.17	122.70	127.00
85	AA	1393	C	O4'-C1'-N1	7.17	113.94	108.20
85	AA	1647	G	C4'-C3'-C2'	-7.17	95.43	102.60
34	BA	377	G	N3-C2-N2	7.17	124.92	119.90
85	AA	861	G	C5'-C4'-C3'	-7.17	104.53	116.00
4	A3	224	ARG	NE-CZ-NH1	7.17	123.88	120.30
34	BA	696	A	O4'-C1'-N9	7.17	113.94	108.20
35	BB	483	C	N1-C1'-C2'	-7.17	104.11	112.00
35	BB	1208	G	O4'-C1'-N9	7.17	113.94	108.20
40	BG	102	G	C5-C6-N1	7.17	115.08	111.50
85	AA	980	U	O4'-C1'-N1	7.17	113.93	108.20
34	BA	1709	A	C3'-C2'-C1'	-7.17	95.77	101.50
35	BB	1089	A	C8-N9-C4	7.17	108.67	105.80
35	BB	1209	A	N1-C6-N6	7.17	122.90	118.60
35	BB	1425	A	C8-N9-C4	7.17	108.67	105.80
38	BE	196	C	N3-C4-N4	-7.17	112.98	118.00
39	BF	12	U	C6-N1-C1'	-7.17	111.17	121.20
40	BG	137	G	C5-C6-N1	7.17	115.08	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BN	9	PRO	N-CA-CB	-7.17	94.70	103.30
81	Bv	105	ARG	NE-CZ-NH1	7.17	123.88	120.30
85	AA	767	A	P-O5'-C5'	7.17	132.37	120.90
85	AA	975	G	C5'-C4'-C3'	-7.17	104.53	116.00
34	BA	1458	A	N1-C6-N6	7.17	122.90	118.60
35	BB	1161	G	N9-C1'-C2'	-7.17	104.12	112.00
85	AA	291	G	N9-C1'-C2'	-7.17	104.12	112.00
85	AA	391	G	O4'-C1'-N9	7.17	113.93	108.20
85	AA	483	G	C5'-C4'-O4'	7.17	117.70	109.10
85	AA	1892	G	C5'-C4'-C3'	-7.17	104.54	116.00
34	BA	19	G	N1-C6-O6	-7.16	115.60	119.90
34	BA	996	U	P-O5'-C5'	7.16	132.36	120.90
35	BB	830	G	C3'-C2'-C1'	-7.16	95.77	101.50
35	BB	1348	C	C1'-O4'-C4'	-7.16	104.17	109.90
40	BG	33	G	N1-C2-N3	-7.16	119.60	123.90
85	AA	919	U	C6-N1-C1'	-7.16	111.17	121.20
85	AA	2249	U	C5'-C4'-C3'	-7.16	104.54	116.00
35	BB	1435	G	C5-C6-O6	-7.16	124.30	128.60
85	AA	13	U	P-O3'-C3'	-7.16	111.11	119.70
85	AA	496	C	C6-N1-C1'	7.16	129.39	120.80
85	AA	1192	C	P-O5'-C5'	-7.16	109.44	120.90
34	BA	112	C	C2-N3-C4	-7.16	116.32	119.90
34	BA	512	U	C6-N1-C2	-7.16	116.70	121.00
34	BA	722	A	P-O3'-C3'	7.16	128.29	119.70
34	BA	1280	A	C6-N1-C2	-7.16	114.30	118.60
34	BA	1426	A	C5'-C4'-C3'	-7.16	104.54	116.00
35	BB	750	G	C4-N9-C1'	-7.16	117.19	126.50
35	BB	1291	G	C4-N9-C1'	-7.16	117.19	126.50
35	BB	1376	G	O5'-C5'-C4'	-7.16	98.09	111.70
35	BB	1514	G	C5'-C4'-C3'	-7.16	104.54	116.00
38	BE	109	C	O4'-C1'-N1	7.16	113.93	108.20
42	BI	13	ARG	NE-CZ-NH2	-7.16	116.72	120.30
53	BT	38	ARG	CA-CB-CG	7.16	129.15	113.40
65	Bf	170	TYR	N-CA-C	-7.16	91.67	111.00
85	AA	696	G	N3-C2-N2	-7.16	114.89	119.90
85	AA	1735	U	C3'-C2'-C1'	-7.16	95.77	101.50
85	AA	2154	C	O3'-P-O5'	-7.16	90.40	104.00
21	AM	143	ARG	NE-CZ-NH1	7.16	123.88	120.30
34	BA	62	A	N9-C1'-C2'	-7.16	104.13	112.00
34	BA	605	G	C4-C5-C6	7.16	123.09	118.80
34	BA	684	G	C5'-C4'-C3'	7.16	127.45	116.00
34	BA	867	C	N1-C2-O2	7.16	123.19	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1226	G	C4-N9-C1'	-7.16	117.19	126.50
35	BB	59	U	C4'-C3'-C2'	-7.16	95.44	102.60
35	BB	877	A	C3'-C2'-C1'	-7.16	95.77	101.50
35	BB	910	C	C6-N1-C2	-7.16	117.44	120.30
35	BB	1118	G	C1'-O4'-C4'	-7.16	104.17	109.90
35	BB	1261	U	C5'-C4'-C3'	7.16	127.45	116.00
35	BB	1483	A	N7-C8-N9	7.16	117.38	113.80
77	Br	333	GLN	N-CA-CB	-7.16	97.72	110.60
85	AA	1486	G	P-O3'-C3'	-7.16	111.11	119.70
85	AA	1599	G	P-O3'-C3'	-7.16	111.11	119.70
86	AB	9	A	P-O3'-C3'	-7.16	111.11	119.70
34	BA	82	A	C8-N9-C4	7.16	108.66	105.80
34	BA	290	G	O5'-P-OP2	-7.16	99.26	105.70
41	BH	66	G	C3'-C2'-C1'	-7.16	95.78	101.50
85	AA	1105	G	N1-C2-N2	-7.16	109.76	116.20
34	BA	568	G	C8-N9-C1'	7.16	136.30	127.00
34	BA	988	U	C2-N1-C1'	-7.16	109.11	117.70
35	BB	271	C	C6-N1-C2	-7.16	117.44	120.30
38	BE	54	U	O4'-C1'-N1	7.16	113.92	108.20
53	BT	63	TRP	N-CA-CB	7.16	123.48	110.60
73	Bn	72	ARG	CD-NE-CZ	-7.16	113.58	123.60
85	AA	655	U	C3'-C2'-C1'	-7.16	95.78	101.50
85	AA	1032	U	C1'-O4'-C4'	-7.16	104.17	109.90
85	AA	1328	U	O4'-C1'-N1	7.16	113.92	108.20
35	BB	899	C	C2-N1-C1'	-7.15	110.93	118.80
35	BB	1337	C	C2-N3-C4	-7.15	116.32	119.90
41	BH	13	C	P-O3'-C3'	-7.15	111.12	119.70
85	AA	1896	G	C8-N9-C4	-7.15	103.54	106.40
34	BA	26	C	C2-N3-C4	-7.15	116.32	119.90
34	BA	223	U	C6-N1-C1'	7.15	131.21	121.20
34	BA	486	G	C5'-C4'-C3'	7.15	127.45	116.00
34	BA	1593	U	N3-C2-O2	-7.15	117.19	122.20
35	BB	29	C	C3'-C2'-C1'	-7.15	95.78	101.50
35	BB	1227	G	O3'-P-O5'	7.15	117.59	104.00
40	BG	5	G	P-O3'-C3'	-7.15	111.12	119.70
40	BG	13	A	C3'-C2'-C1'	-7.15	95.78	101.50
85	AA	107	A	C5'-C4'-O4'	7.15	117.68	109.10
85	AA	405	C	P-O5'-C5'	7.15	132.34	120.90
85	AA	1249	U	O4'-C1'-N1	7.15	113.92	108.20
85	AA	2202	G	C6-N1-C2	-7.15	120.81	125.10
8	A7	46	ASN	N-CA-C	-7.15	91.69	111.00
25	AR	50	ILE	CA-C-N	-7.15	101.47	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	689	C	C5-C4-N4	-7.15	115.19	120.20
34	BA	1293	A	C5-C6-N1	7.15	121.28	117.70
34	BA	1454	G	N3-C4-C5	7.15	132.18	128.60
35	BB	88	U	C1'-O4'-C4'	-7.15	104.18	109.90
35	BB	1117	G	C3'-C2'-C1'	-7.15	95.78	101.50
37	BD	93	G	O4'-C1'-N9	7.15	113.92	108.20
40	BG	14	G	N9-C1'-C2'	-7.15	104.14	112.00
35	BB	1108	G	N3-C4-C5	-7.15	125.03	128.60
35	BB	1400	C	P-O5'-C5'	7.15	132.34	120.90
85	AA	588	G	C8-N9-C1'	7.15	136.29	127.00
85	AA	929	G	C2'-C3'-O3'	7.15	125.23	109.50
34	BA	34	U	N3-C2-O2	-7.15	117.20	122.20
34	BA	1026	C	N3-C2-O2	-7.15	116.90	121.90
34	BA	1837	U	N3-C2-O2	-7.15	117.20	122.20
35	BB	288	C	O4'-C1'-N1	7.15	113.92	108.20
35	BB	541	U	C5-C4-O4	-7.15	121.61	125.90
35	BB	1508	G	O4'-C1'-N9	7.15	113.92	108.20
37	BD	31	U	C5'-C4'-C3'	-7.15	104.56	116.00
38	BE	153	C	C6-N1-C1'	7.15	129.38	120.80
51	BR	56	ARG	NE-CZ-NH2	-7.15	116.73	120.30
65	Bf	432	LYS	N-CA-CB	-7.15	97.73	110.60
31	AX	152	ARG	NE-CZ-NH2	-7.15	116.73	120.30
34	BA	821	G	N1-C6-O6	7.15	124.19	119.90
35	BB	103	C	O4'-C1'-N1	7.15	113.92	108.20
85	AA	730	G	N3-C2-N2	-7.15	114.90	119.90
85	AA	1954	C	P-O3'-C3'	-7.15	111.12	119.70
34	BA	1550	G	C4-N9-C1'	-7.14	117.21	126.50
34	BA	1618	A	P-O3'-C3'	7.14	128.27	119.70
57	BX	91	THR	CA-CB-CG2	-7.14	102.40	112.40
67	Bh	64	ARG	N-CA-CB	7.14	123.46	110.60
85	AA	466	A	N3-C4-C5	7.14	131.80	126.80
85	AA	2213	A	C5'-C4'-C3'	7.14	127.43	116.00
34	BA	1231	C	C6-N1-C2	-7.14	117.44	120.30
34	BA	1277	G	C1'-O4'-C4'	-7.14	104.19	109.90
34	BA	1332	U	O4'-C1'-N1	7.14	113.91	108.20
35	BB	524	C	C1'-O4'-C4'	-7.14	104.19	109.90
35	BB	577	U	C5'-C4'-C3'	-7.14	104.57	116.00
85	AA	365	G	P-O3'-C3'	-7.14	111.13	119.70
86	AB	40	C	O4'-C1'-N1	7.14	113.92	108.20
34	BA	315	U	O5'-P-OP2	7.14	119.27	110.70
34	BA	1502	G	O4'-C1'-N9	7.14	113.91	108.20
35	BB	519	A	N1-C6-N6	7.14	122.89	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A2	174	TYR	CB-CG-CD2	-7.14	116.72	121.00
34	BA	622	G	C5'-C4'-C3'	-7.14	104.58	116.00
34	BA	868	C	N3-C4-C5	7.14	124.76	121.90
34	BA	1501	U	P-O3'-C3'	-7.14	111.13	119.70
34	BA	1598	U	C4'-C3'-C2'	-7.14	95.46	102.60
34	BA	1635	A	C1'-O4'-C4'	-7.14	104.19	109.90
34	BA	1654	G	O4'-C1'-C2'	7.14	114.03	107.60
35	BB	879	G	N1-C2-N2	-7.14	109.77	116.20
38	BE	58	U	C2-N3-C4	-7.14	122.72	127.00
72	Bm	30	ARG	NE-CZ-NH1	7.14	123.87	120.30
80	Bu	263	ARG	NE-CZ-NH1	7.14	123.87	120.30
85	AA	100	A	O4'-C4'-C3'	7.14	111.81	106.10
85	AA	487	G	O5'-C5'-C4'	-7.14	98.13	111.70
85	AA	491	G	O4'-C1'-N9	7.14	113.91	108.20
85	AA	2199	G	C5-C6-O6	-7.14	124.32	128.60
34	BA	295	G	C8-N9-C1'	-7.14	117.72	127.00
35	BB	513	G	O5'-C5'-C4'	-7.14	98.14	111.70
35	BB	608	A	P-O3'-C3'	-7.14	111.14	119.70
85	AA	158	C	C2-N1-C1'	-7.14	110.95	118.80
6	A5	160	ARG	CB-CA-C	7.14	124.67	110.40
34	BA	1166	A	C3'-C2'-C1'	-7.14	95.79	101.50
35	BB	544	C	C6-N1-C1'	7.14	129.37	120.80
35	BB	983	C	C3'-C2'-C1'	-7.14	95.79	101.50
36	BC	8	C	O4'-C1'-N1	7.14	113.91	108.20
36	BC	131	C	C5'-C4'-O4'	7.14	117.67	109.10
37	BD	64	A	C5-C6-N6	-7.14	117.99	123.70
38	BE	29	C	O4'-C1'-N1	7.14	113.91	108.20
59	BZ	71	TYR	CB-CG-CD1	7.14	125.28	121.00
85	AA	234	G	C5-C6-O6	-7.14	124.32	128.60
85	AA	1278	C	P-O3'-C3'	-7.14	111.14	119.70
35	BB	1473	U	C3'-C2'-C1'	-7.13	95.79	101.50
37	BD	108	G	C5'-C4'-O4'	7.13	117.66	109.10
34	BA	554	A	O4'-C1'-N9	7.13	113.91	108.20
34	BA	1429	A	C5'-C4'-C3'	-7.13	104.59	116.00
35	BB	505	G	N1-C2-N2	-7.13	109.78	116.20
63	Bd	29	MET	N-CA-C	-7.13	91.74	111.00
85	AA	510	A	O3'-P-O5'	-7.13	90.45	104.00
85	AA	1714	G	P-O5'-C5'	-7.13	109.49	120.90
85	AA	1928	A	C8-N9-C4	7.13	108.65	105.80
34	BA	130	U	P-O5'-C5'	7.13	132.31	120.90
34	BA	228	A	C4'-C3'-C2'	-7.13	95.47	102.60
34	BA	413	A	C3'-C2'-C1'	-7.13	95.80	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	7	C	N3-C4-N4	-7.13	113.01	118.00
35	BB	822	G	C5'-C4'-C3'	7.13	127.41	116.00
35	BB	1244	U	N1-C1'-C2'	-7.13	104.16	112.00
35	BB	1453	G	N3-C4-N9	-7.13	121.72	126.00
36	BC	70	C	O4'-C1'-C2'	7.13	114.02	107.60
85	AA	548	G	C8-N9-C1'	7.13	136.27	127.00
34	BA	381	A	C4'-C3'-C2'	7.13	109.73	102.60
34	BA	611	A	C2-N3-C4	-7.13	107.03	110.60
35	BB	8	U	C2-N3-C4	-7.13	122.72	127.00
40	BG	181	C	O4'-C4'-C3'	-7.13	96.87	104.00
85	AA	244	G	P-O3'-C3'	-7.13	111.14	119.70
34	BA	76	U	C5-C6-N1	-7.13	119.14	122.70
34	BA	228	A	C5'-C4'-C3'	-7.13	104.59	116.00
34	BA	841	G	P-O3'-C3'	-7.13	111.15	119.70
34	BA	991	U	C4'-C3'-C2'	7.13	109.73	102.60
34	BA	1254	C	P-O3'-C3'	-7.13	111.14	119.70
34	BA	1535	G	C6-N1-C2	-7.13	120.82	125.10
35	BB	844	G	C3'-C2'-C1'	-7.13	95.80	101.50
36	BC	121	G	C1'-O4'-C4'	-7.13	104.20	109.90
38	BE	135	A	OP1-P-OP2	-7.13	108.91	119.60
42	BI	101	ARG	NE-CZ-NH2	-7.13	116.73	120.30
85	AA	106	G	O4'-C1'-N9	7.13	113.90	108.20
85	AA	527	A	C4'-C3'-C2'	-7.13	95.47	102.60
85	AA	594	C	C3'-C2'-C1'	-7.13	95.80	101.50
85	AA	680	U	C4'-C3'-C2'	-7.13	95.47	102.60
85	AA	1126	G	N1-C6-O6	-7.13	115.62	119.90
34	BA	163	G	N1-C6-O6	7.13	124.18	119.90
34	BA	186	G	C5'-C4'-C3'	-7.13	104.60	116.00
34	BA	1355	G	N1-C6-O6	7.13	124.18	119.90
34	BA	1747	C	C6-N1-C2	-7.13	117.45	120.30
35	BB	384	A	C8-N9-C1'	-7.13	114.87	127.70
35	BB	773	G	C8-N9-C1'	7.13	136.26	127.00
36	BC	37	U	C3'-C2'-C1'	-7.13	95.80	101.50
36	BC	169	G	C2'-C3'-O3'	7.13	125.18	109.50
38	BE	18	U	C2'-C3'-O3'	7.13	125.18	109.50
40	BG	46	G	C8-N9-C1'	7.13	136.26	127.00
85	AA	692	U	C2-N1-C1'	-7.13	109.15	117.70
85	AA	1012	C	O4'-C1'-N1	7.13	113.90	108.20
85	AA	1176	C	C6-N1-C2	-7.13	117.45	120.30
85	AA	1420	U	O4'-C1'-N1	7.13	113.90	108.20
85	AA	1448	A	C5-C6-N1	7.13	121.26	117.70
85	AA	1495	G	C3'-C2'-C1'	-7.13	95.80	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	181	G	C5-C6-O6	-7.12	124.33	128.60
35	BB	736	G	C6-N1-C2	-7.12	120.83	125.10
37	BD	118	C	C2-N1-C1'	-7.12	110.96	118.80
85	AA	819	G	C8-N9-C4	-7.12	103.55	106.40
85	AA	1089	G	P-O3'-C3'	-7.12	111.15	119.70
85	AA	1472	G	C4-N9-C1'	-7.12	117.24	126.50
85	AA	1978	G	P-O3'-C3'	7.12	128.25	119.70
85	AA	2103	C	OP1-P-OP2	-7.12	108.91	119.60
85	AA	2244	G	C4-N9-C1'	7.12	135.76	126.50
34	BA	803	U	C4'-C3'-C2'	-7.12	95.48	102.60
34	BA	1489	U	N1-C1'-C2'	-7.12	104.16	112.00
34	BA	395	G	N1-C6-O6	-7.12	115.63	119.90
34	BA	615	A	O4'-C1'-N9	7.12	113.90	108.20
35	BB	855	G	O4'-C1'-N9	7.12	113.90	108.20
38	BE	116	U	C5'-C4'-C3'	-7.12	104.60	116.00
53	BT	109	TYR	CB-CG-CD2	-7.12	116.73	121.00
66	Bg	79	HIS	CA-CB-CG	-7.12	101.49	113.60
85	AA	372	U	N1-C1'-C2'	-7.12	104.17	112.00
85	AA	793	C	O4'-C1'-N1	7.12	113.90	108.20
85	AA	2199	G	N1-C2-N2	-7.12	109.79	116.20
1	A0	26	ARG	NE-CZ-NH2	-7.12	116.74	120.30
34	BA	1121	U	O4'-C1'-N1	7.12	113.90	108.20
34	BA	1144	A	N1-C6-N6	-7.12	114.33	118.60
34	BA	1337	A	C4-N9-C1'	-7.12	113.48	126.30
34	BA	1542	A	N1-C6-N6	7.12	122.87	118.60
34	BA	1751	C	C6-N1-C2	-7.12	117.45	120.30
35	BB	459	U	P-O3'-C3'	-7.12	111.16	119.70
85	AA	656	U	C2-N1-C1'	7.12	126.24	117.70
16	AH	77	ARG	NE-CZ-NH1	7.12	123.86	120.30
34	BA	1063	G	N1-C6-O6	-7.12	115.63	119.90
34	BA	1145	U	C2-N1-C1'	-7.12	109.16	117.70
34	BA	1432	C	P-O3'-C3'	-7.12	111.16	119.70
34	BA	1659	G	O5'-P-OP1	-7.12	99.29	105.70
34	BA	1698	C	N1-C1'-C2'	-7.12	104.17	112.00
34	BA	1782	C	P-O3'-C3'	-7.12	111.16	119.70
40	BG	112	C	C4'-C3'-C2'	7.12	109.72	102.60
85	AA	173	A	C8-N9-C4	-7.12	102.95	105.80
85	AA	549	A	C8-N9-C1'	7.12	140.51	127.70
85	AA	1715	C	C6-N1-C2	-7.12	117.45	120.30
11	AC	153	MET	CG-SD-CE	-7.12	88.81	100.20
34	BA	1337	A	C8-N9-C4	7.12	108.65	105.80
47	BN	14	ARG	NE-CZ-NH2	7.12	123.86	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	531	C	C6-N1-C2	-7.12	117.45	120.30
34	BA	668	G	C8-N9-C4	-7.12	103.55	106.40
34	BA	720	A	C5-C6-N6	-7.12	118.01	123.70
39	BF	27	G	P-O3'-C3'	7.12	128.24	119.70
40	BG	151	A	P-O3'-C3'	-7.12	111.16	119.70
41	BH	135	U	C6-N1-C2	-7.12	116.73	121.00
85	AA	39	A	C5'-C4'-O4'	7.12	117.64	109.10
85	AA	205	A	N1-C6-N6	-7.12	114.33	118.60
85	AA	667	A	C8-N9-C4	7.12	108.65	105.80
85	AA	1191	G	C8-N9-C1'	7.12	136.25	127.00
34	BA	465	A	C5'-C4'-O4'	7.11	117.64	109.10
34	BA	579	U	C2-N3-C4	-7.11	122.73	127.00
35	BB	370	A	C4'-C3'-C2'	7.11	109.71	102.60
35	BB	387	G	N7-C8-N9	7.11	116.66	113.10
35	BB	451	A	C8-N9-C4	7.11	108.65	105.80
35	BB	1330	A	P-O5'-C5'	-7.11	109.52	120.90
35	BB	1369	A	O4'-C1'-N9	7.11	113.89	108.20
36	BC	49	G	N1-C2-N2	-7.11	109.80	116.20
38	BE	116	U	C6-N1-C1'	7.11	131.16	121.20
41	BH	20	A	C4-N9-C1'	-7.11	113.50	126.30
77	Br	92	GLY	C-N-CA	7.11	139.48	121.70
85	AA	727	U	O4'-C1'-N1	7.11	113.89	108.20
85	AA	917	A	C5'-C4'-C3'	-7.11	104.62	116.00
85	AA	2121	G	O4'-C1'-N9	7.11	113.89	108.20
34	BA	1193	A	C6-N1-C2	-7.11	114.33	118.60
35	BB	653	G	O4'-C4'-C3'	-7.11	96.89	104.00
38	BE	196	C	O4'-C1'-C2'	7.11	114.00	107.60
68	Bi	99	HIS	C-N-CA	7.11	139.48	121.70
73	Bn	68	LYS	N-CA-CB	-7.11	97.80	110.60
85	AA	355	G	C5-C6-O6	-7.11	124.33	128.60
85	AA	2241	C	C5-C4-N4	7.11	125.18	120.20
34	BA	589	A	C1'-O4'-C4'	-7.11	104.21	109.90
34	BA	829	U	C5'-C4'-C3'	-7.11	104.62	116.00
34	BA	1075	U	N3-C2-O2	-7.11	117.22	122.20
34	BA	1267	A	C3'-C2'-C1'	7.11	107.19	101.50
34	BA	1311	G	N3-C2-N2	7.11	124.88	119.90
34	BA	1521	C	C3'-C2'-C1'	-7.11	95.81	101.50
34	BA	1594	G	C5-C6-O6	-7.11	124.33	128.60
34	BA	1676	A	C4'-C3'-C2'	7.11	109.71	102.60
35	BB	677	U	C5'-C4'-O4'	7.11	117.63	109.10
35	BB	999	G	C5-C6-N1	7.11	115.06	111.50
36	BC	160	C	C6-N1-C1'	7.11	129.33	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	128	U	C1'-O4'-C4'	-7.11	104.21	109.90
56	BW	44	TYR	CB-CG-CD1	7.11	125.27	121.00
85	AA	597	A	C4'-C3'-C2'	-7.11	95.49	102.60
34	BA	175	G	C8-N9-C1'	7.11	136.24	127.00
35	BB	152	G	C5-C6-O6	-7.11	124.33	128.60
36	BC	130	U	C6-N1-C1'	-7.11	111.25	121.20
34	BA	944	G	O4'-C1'-C2'	7.11	114.00	107.60
34	BA	1464	C	C2-N1-C1'	-7.11	110.98	118.80
35	BB	58	G	C8-N9-C4	7.11	109.24	106.40
35	BB	689	C	N3-C2-O2	-7.11	116.92	121.90
36	BC	123	G	N9-C4-C5	7.11	108.24	105.40
39	BF	34	C	N3-C2-O2	-7.11	116.92	121.90
40	BG	21	C	OP2-P-O3'	7.11	120.84	105.20
85	AA	2130	G	O4'-C1'-N9	7.11	113.89	108.20
34	BA	7	U	C3'-C2'-C1'	-7.11	95.82	101.50
34	BA	214	A	C4'-C3'-C2'	-7.11	95.49	102.60
34	BA	681	G	C8-N9-C4	7.11	109.24	106.40
34	BA	1632	G	C5'-C4'-O4'	7.11	117.63	109.10
34	BA	1718	C	P-O3'-C3'	-7.11	111.17	119.70
44	BK	7	ARG	NE-CZ-NH1	7.11	123.85	120.30
55	BV	90	PHE	CB-CG-CD2	-7.11	115.83	120.80
58	BY	64	ARG	N-CA-CB	7.11	123.39	110.60
85	AA	65	A	P-O3'-C3'	7.11	128.23	119.70
85	AA	117	C	C5'-C4'-C3'	-7.11	104.63	116.00
85	AA	153	C	C1'-O4'-C4'	-7.11	104.22	109.90
85	AA	492	C	N3-C4-N4	-7.11	113.03	118.00
85	AA	898	A	C4'-C3'-C2'	-7.11	95.49	102.60
85	AA	1553	G	N1-C6-O6	7.11	124.16	119.90
85	AA	1822	G	C3'-C2'-C1'	-7.11	95.82	101.50
85	AA	2164	G	N1-C6-O6	7.11	124.16	119.90
34	BA	50	G	N1-C6-O6	-7.10	115.64	119.90
34	BA	596	G	C4-C5-N7	7.10	113.64	110.80
34	BA	1205	A	C5-C6-N6	7.10	129.38	123.70
35	BB	555	G	C5'-C4'-O4'	7.10	117.62	109.10
35	BB	800	U	P-O3'-C3'	7.10	128.22	119.70
35	BB	1539	C	O4'-C1'-N1	7.10	113.88	108.20
40	BG	14	G	C5'-C4'-O4'	-7.10	100.58	109.10
85	AA	1633	A	N1-C6-N6	7.10	122.86	118.60
34	BA	259	C	C3'-C2'-C1'	-7.10	95.82	101.50
34	BA	1039	G	C4-N9-C1'	-7.10	117.27	126.50
34	BA	1223	C	C2-N3-C4	7.10	123.45	119.90
34	BA	1450	G	C4-N9-C1'	-7.10	117.27	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1676	A	C8-N9-C4	7.10	108.64	105.80
35	BB	362	A	O4'-C1'-N9	7.10	113.88	108.20
35	BB	978	C	O4'-C1'-N1	7.10	113.88	108.20
85	AA	913	U	P-O3'-C3'	-7.10	111.18	119.70
85	AA	1116	G	N3-C2-N2	7.10	124.87	119.90
85	AA	545	A	O4'-C1'-N9	7.10	113.88	108.20
85	AA	1254	A	C8-N9-C4	7.10	108.64	105.80
34	BA	47	U	C2-N1-C1'	-7.10	109.18	117.70
34	BA	485	C	P-O3'-C3'	7.10	128.22	119.70
34	BA	603	U	C5-C4-O4	-7.10	121.64	125.90
34	BA	657	C	O5'-C5'-C4'	7.10	125.19	111.70
35	BB	566	A	C6-N1-C2	-7.10	114.34	118.60
35	BB	1203	C	C4'-C3'-C2'	-7.10	95.50	102.60
85	AA	1922	A	O4'-C1'-N9	-7.10	102.52	108.20
85	AA	2176	U	P-O5'-C5'	7.10	132.26	120.90
34	BA	3	G	P-O5'-C5'	-7.10	109.54	120.90
34	BA	94	G	C5-C6-O6	7.10	132.86	128.60
34	BA	163	G	C5-C6-O6	-7.10	124.34	128.60
34	BA	400	A	C4'-C3'-C2'	7.10	109.70	102.60
34	BA	1114	G	N3-C2-N2	7.10	124.87	119.90
34	BA	1535	G	N9-C1'-C2'	-7.10	104.19	112.00
34	BA	1844	U	P-O3'-C3'	-7.10	111.18	119.70
35	BB	3	C	C5-C6-N1	7.10	124.55	121.00
35	BB	810	G	N1-C6-O6	-7.10	115.64	119.90
35	BB	842	G	C5'-C4'-C3'	7.10	127.35	116.00
36	BC	147	G	C1'-O4'-C4'	-7.10	104.22	109.90
40	BG	117	C	C1'-O4'-C4'	-7.10	104.22	109.90
85	AA	98	U	O4'-C1'-N1	7.10	113.88	108.20
85	AA	1847	U	P-O3'-C3'	7.10	128.22	119.70
34	BA	326	A	C5'-C4'-O4'	7.10	117.61	109.10
35	BB	463	C	C1'-O4'-C4'	-7.10	104.22	109.90
35	BB	877	A	C2-N3-C4	7.10	114.15	110.60
35	BB	1187	G	N1-C2-N3	7.10	128.16	123.90
35	BB	1454	G	P-O5'-C5'	7.10	132.25	120.90
36	BC	50	C	P-O3'-C3'	-7.10	111.19	119.70
34	BA	884	G	C5-C6-O6	-7.09	124.34	128.60
34	BA	1630	A	O3'-P-O5'	7.09	117.48	104.00
35	BB	677	U	C5'-C4'-C3'	-7.09	104.65	116.00
35	BB	798	A	P-O3'-C3'	7.09	128.21	119.70
37	BD	29	C	O4'-C1'-N1	7.09	113.88	108.20
38	BE	113	C	C4'-C3'-C2'	-7.09	95.51	102.60
38	BE	119	U	C2-N1-C1'	-7.09	109.19	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	413	G	C3'-C2'-C1'	-7.09	95.82	101.50
85	AA	1727	U	O3'-P-O5'	7.09	117.48	104.00
85	AA	1891	U	C2-N1-C1'	-7.09	109.19	117.70
35	BB	952	U	O4'-C1'-N1	7.09	113.87	108.20
85	AA	1314	C	P-O3'-C3'	7.09	128.21	119.70
85	AA	1728	G	C6-C5-N7	-7.09	126.14	130.40
34	BA	314	A	O4'-C1'-N9	7.09	113.87	108.20
34	BA	644	C	N3-C4-N4	7.09	122.97	118.00
35	BB	366	G	C5'-C4'-C3'	-7.09	104.66	116.00
35	BB	784	C	O5'-C5'-C4'	-7.09	98.23	111.70
37	BD	107	G	C4-N9-C1'	-7.09	117.28	126.50
85	AA	362	G	C5-C6-O6	-7.09	124.34	128.60
85	AA	2056	C	O3'-P-O5'	-7.09	90.53	104.00
34	BA	37	A	O4'-C1'-N9	7.09	113.87	108.20
35	BB	1040	C	O4'-C1'-N1	7.09	113.87	108.20
35	BB	1452	U	C4'-C3'-C2'	7.09	109.69	102.60
37	BD	98	G	O3'-P-O5'	-7.09	90.53	104.00
47	BN	40	ARG	NE-CZ-NH1	7.09	123.84	120.30
85	AA	75	U	C6-N1-C2	-7.09	116.75	121.00
85	AA	1097	G	C8-N9-C1'	7.09	136.22	127.00
85	AA	1373	U	C3'-C2'-C1'	-7.09	95.83	101.50
6	A5	164	TYR	CB-CG-CD2	-7.09	116.75	121.00
34	BA	556	A	C5-C6-N6	-7.09	118.03	123.70
52	BS	156	ARG	NE-CZ-NH1	7.09	123.84	120.30
85	AA	2078	A	P-O5'-C5'	7.09	132.24	120.90
31	AX	189	ARG	NE-CZ-NH1	7.09	123.84	120.30
34	BA	800	G	P-O3'-C3'	-7.09	111.20	119.70
34	BA	810	A	N9-C1'-C2'	-7.09	104.20	112.00
35	BB	1170	U	P-O3'-C3'	7.09	128.20	119.70
38	BE	159	A	O4'-C1'-N9	7.09	113.87	108.20
73	Bn	24	ARG	NE-CZ-NH1	7.09	123.84	120.30
84	By	6	HIS	C-N-CA	7.09	139.42	121.70
85	AA	436	G	C4-N9-C1'	-7.09	117.29	126.50
85	AA	1210	U	N1-C2-O2	7.09	127.76	122.80
85	AA	1957	C	O4'-C1'-N1	7.09	113.87	108.20
86	AB	13	C	C2-N3-C4	7.09	123.44	119.90
35	BB	441	G	C3'-C2'-C1'	-7.08	95.83	101.50
35	BB	1248	A	P-O3'-C3'	-7.08	111.20	119.70
85	AA	1279	A	P-O5'-C5'	7.08	132.24	120.90
85	AA	1760	C	O4'-C1'-N1	7.08	113.87	108.20
34	BA	1696	G	C1'-O4'-C4'	-7.08	104.23	109.90
35	BB	1076	U	C2-N3-C4	-7.08	122.75	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1191	G	C5-C6-O6	-7.08	124.35	128.60
35	BB	1292	G	N1-C6-O6	-7.08	115.65	119.90
40	BG	102	G	C8-N9-C4	-7.08	103.57	106.40
85	AA	429	G	C5-C6-O6	-7.08	124.35	128.60
85	AA	431	G	C4-N9-C1'	-7.08	117.29	126.50
85	AA	767	A	N9-C1'-C2'	-7.08	104.21	112.00
85	AA	1046	C	O4'-C1'-N1	7.08	113.87	108.20
85	AA	1119	A	C3'-C2'-C1'	-7.08	95.83	101.50
85	AA	1840	C	C2-N1-C1'	-7.08	111.01	118.80
85	AA	1978	G	C4-C5-C6	-7.08	114.55	118.80
34	BA	73	G	O4'-C1'-N9	7.08	113.87	108.20
34	BA	1233	U	C4'-C3'-C2'	7.08	109.68	102.60
34	BA	1614	G	N3-C2-N2	7.08	124.86	119.90
35	BB	616	U	C5'-C4'-O4'	7.08	117.60	109.10
35	BB	1273	G	C5-C6-O6	-7.08	124.35	128.60
38	BE	2	G	C5-C6-O6	7.08	132.85	128.60
66	Bg	63	ARG	NE-CZ-NH1	7.08	123.84	120.30
85	AA	266	U	C2-N3-C4	-7.08	122.75	127.00
85	AA	467	U	N3-C2-O2	-7.08	117.24	122.20
85	AA	635	G	O4'-C1'-N9	7.08	113.87	108.20
85	AA	811	A	N1-C6-N6	-7.08	114.35	118.60
85	AA	1006	C	C3'-C2'-C1'	-7.08	95.83	101.50
35	BB	1445	A	C8-N9-C1'	7.08	140.44	127.70
34	BA	1545	C	N3-C2-O2	-7.08	116.94	121.90
40	BG	64	C	O5'-C5'-C4'	-7.08	98.25	111.70
51	BR	63	TYR	CB-CG-CD1	-7.08	116.75	121.00
85	AA	23	G	C4-N9-C1'	-7.08	117.30	126.50
34	BA	519	G	C4-N9-C1'	7.08	135.70	126.50
34	BA	959	G	O3'-P-O5'	-7.08	90.55	104.00
35	BB	508	U	O4'-C1'-N1	7.08	113.86	108.20
35	BB	699	U	C2-N3-C4	-7.08	122.75	127.00
38	BE	126	G	C4-N9-C1'	-7.08	117.30	126.50
40	BG	148	C	C4'-C3'-C2'	-7.08	95.52	102.60
80	Bu	158	ARG	NE-CZ-NH1	7.08	123.84	120.30
85	AA	82	A	O4'-C4'-C3'	-7.08	96.92	104.00
85	AA	289	G	C1'-O4'-C4'	-7.08	104.24	109.90
85	AA	2008	G	N3-C4-N9	-7.08	121.75	126.00
1	A0	102	PHE	N-CA-CB	-7.08	97.86	110.60
34	BA	109	A	C5-C6-N1	7.08	121.24	117.70
34	BA	1358	A	O4'-C1'-N9	7.08	113.86	108.20
34	BA	1532	G	N3-C2-N2	7.08	124.85	119.90
35	BB	621	C	C6-N1-C2	-7.08	117.47	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	624	A	N9-C1'-C2'	-7.08	104.22	112.00
35	BB	1464	G	C4-N9-C1'	-7.08	117.30	126.50
36	BC	168	C	N3-C4-C5	-7.08	119.07	121.90
38	BE	21	C	N1-C2-O2	7.08	123.15	118.90
39	BF	31	U	C1'-O4'-C4'	-7.08	104.24	109.90
85	AA	863	C	C4'-C3'-C2'	-7.08	95.53	102.60
85	AA	2008	G	C8-N9-C1'	7.08	136.20	127.00
34	BA	332	U	P-O3'-C3'	-7.07	111.21	119.70
34	BA	831	U	O4'-C1'-N1	7.07	113.86	108.20
34	BA	875	G	C1'-O4'-C4'	-7.07	104.24	109.90
34	BA	1390	C	C5'-C4'-C3'	-7.07	104.68	116.00
40	BG	162	A	C5-C6-N6	-7.07	118.04	123.70
41	BH	31	A	C5'-C4'-O4'	-7.07	100.61	109.10
68	Bi	63	ARG	NE-CZ-NH1	7.07	123.84	120.30
72	Bm	95	ARG	NE-CZ-NH1	7.07	123.84	120.30
85	AA	54	C	C6-N1-C2	-7.07	117.47	120.30
85	AA	122	A	P-O3'-C3'	-7.07	111.21	119.70
85	AA	927	A	P-O5'-C5'	-7.07	109.58	120.90
85	AA	1148	G	N9-C1'-C2'	-7.07	104.22	112.00
34	BA	1586	U	C1'-O4'-C4'	-7.07	104.24	109.90
39	BF	10	A	C8-N9-C4	-7.07	102.97	105.80
85	AA	1664	G	C5-C6-O6	-7.07	124.36	128.60
35	BB	1061	G	C5-C6-O6	7.07	132.84	128.60
35	BB	1319	U	O4'-C1'-N1	7.07	113.86	108.20
53	BT	19	ARG	NE-CZ-NH2	-7.07	116.77	120.30
85	AA	340	G	P-O3'-C3'	7.07	128.18	119.70
85	AA	759	G	P-O3'-C3'	7.07	128.19	119.70
13	AE	26	ARG	NE-CZ-NH1	7.07	123.83	120.30
34	BA	553	A	C6-N1-C2	-7.07	114.36	118.60
35	BB	732	G	C5'-C4'-O4'	7.07	117.58	109.10
85	AA	1492	U	P-O3'-C3'	-7.07	111.22	119.70
85	AA	1544	G	C4-N9-C1'	-7.07	117.31	126.50
34	BA	1119	A	C5-C6-N1	7.07	121.23	117.70
35	BB	475	A	C1'-O4'-C4'	-7.07	104.25	109.90
35	BB	767	A	C5'-C4'-C3'	-7.07	104.69	116.00
39	BF	23	G	P-O3'-C3'	-7.07	111.22	119.70
40	BG	47	G	C5-C6-O6	-7.07	124.36	128.60
68	Bi	62	ARG	NE-CZ-NH1	7.07	123.83	120.30
85	AA	1731	G	C2-N3-C4	7.07	115.43	111.90
6	A5	197	ARG	NE-CZ-NH2	-7.07	116.77	120.30
34	BA	1617	U	O3'-P-O5'	-7.07	90.58	104.00
35	BB	628	A	C5'-C4'-C3'	-7.07	104.69	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1230	A	C4-N9-C1'	-7.07	113.58	126.30
35	BB	1276	U	O4'-C1'-N1	7.07	113.85	108.20
40	BG	130	G	C5-C6-O6	-7.07	124.36	128.60
84	By	8	GLN	N-CA-CB	7.07	123.32	110.60
85	AA	246	C	C6-N1-C2	-7.07	117.47	120.30
85	AA	1721	A	C4'-C3'-C2'	-7.07	95.53	102.60
85	AA	2151	U	N3-C2-O2	-7.07	117.25	122.20
34	BA	168	U	C2-N3-C4	-7.06	122.76	127.00
34	BA	1608	C	O5'-C5'-C4'	-7.06	98.28	111.70
41	BH	93	G	C2-N3-C4	-7.06	108.37	111.90
85	AA	1460	G	C5-C6-N1	7.06	115.03	111.50
34	BA	401	A	O5'-P-OP1	-7.06	99.34	105.70
34	BA	776	U	P-O3'-C3'	-7.06	111.22	119.70
35	BB	121	A	C5-C6-N1	7.06	121.23	117.70
35	BB	1510	G	C5-C6-N1	7.06	115.03	111.50
36	BC	59	A	O4'-C1'-N9	7.06	113.85	108.20
38	BE	89	G	N3-C2-N2	7.06	124.84	119.90
39	BF	14	C	C3'-C2'-C1'	-7.06	95.85	101.50
41	BH	3	U	P-O3'-C3'	7.06	128.18	119.70
85	AA	515	C	C6-N1-C2	-7.06	117.47	120.30
85	AA	808	A	C8-N9-C4	-7.06	102.97	105.80
85	AA	856	G	N9-C1'-C2'	-7.06	104.23	112.00
85	AA	865	G	N9-C1'-C2'	-7.06	104.23	112.00
85	AA	1055	U	C5'-C4'-O4'	7.06	117.58	109.10
2	A1	179	MET	CG-SD-CE	-7.06	88.90	100.20
35	BB	1194	A	N9-C1'-C2'	-7.06	104.23	112.00
85	AA	802	A	P-O3'-C3'	7.06	128.17	119.70
85	AA	2199	G	C4-N9-C1'	-7.06	117.32	126.50
34	BA	52	G	O5'-P-OP2	7.06	119.17	110.70
34	BA	1196	C	C2-N3-C4	7.06	123.43	119.90
35	BB	448	G	C5'-C4'-O4'	7.06	117.57	109.10
35	BB	762	C	C6-N1-C2	-7.06	117.48	120.30
35	BB	873	C	O4'-C1'-N1	7.06	113.85	108.20
85	AA	257	U	P-O3'-C3'	-7.06	111.23	119.70
85	AA	445	U	O4'-C1'-N1	7.06	113.85	108.20
85	AA	457	G	C3'-C2'-C1'	-7.06	95.85	101.50
85	AA	747	U	C3'-C2'-C1'	-7.06	95.85	101.50
85	AA	913	U	C5'-C4'-C3'	-7.06	104.70	116.00
85	AA	1465	C	C6-N1-C1'	7.06	129.27	120.80
34	BA	219	U	C5'-C4'-O4'	7.06	117.57	109.10
34	BA	295	G	O3'-P-O5'	7.06	117.41	104.00
34	BA	811	C	P-O5'-C5'	-7.06	109.61	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1333	G	C8-N9-C4	7.06	109.22	106.40
35	BB	549	U	C5-C4-O4	-7.06	121.67	125.90
85	AA	187	C	C5'-C4'-C3'	-7.06	104.71	116.00
85	AA	438	G	C5'-C4'-C3'	-7.06	104.71	116.00
85	AA	2127	G	C1'-O4'-C4'	-7.06	104.25	109.90
7	A6	46	MET	CG-SD-CE	-7.06	88.91	100.20
34	BA	882	G	C3'-C2'-C1'	-7.06	95.86	101.50
34	BA	1542	A	P-O3'-C3'	-7.06	111.23	119.70
35	BB	490	G	P-O3'-C3'	-7.06	111.23	119.70
85	AA	1002	G	C4-N9-C1'	-7.06	117.33	126.50
34	BA	543	A	C3'-C2'-C1'	-7.05	95.86	101.50
34	BA	748	C	O4'-C1'-C2'	7.05	113.95	107.60
34	BA	1819	U	P-O3'-C3'	7.05	128.17	119.70
35	BB	777	C	C6-N1-C2	-7.05	117.48	120.30
85	AA	1721	A	C8-N9-C1'	7.05	140.40	127.70
35	BB	1374	U	C4'-C3'-C2'	7.05	109.65	102.60
38	BE	1	U	N1-C2-O2	7.05	127.74	122.80
60	Ba	90	ARG	NE-CZ-NH2	-7.05	116.77	120.30
62	Bc	9	TRP	CB-CG-CD1	-7.05	117.83	127.00
85	AA	136	U	C5'-C4'-C3'	7.05	127.28	116.00
85	AA	708	G	C4-N9-C1'	-7.05	117.33	126.50
34	BA	25	C	P-O3'-C3'	-7.05	111.24	119.70
35	BB	733	G	C5-C6-O6	-7.05	124.37	128.60
35	BB	1469	A	C5-C6-N6	-7.05	118.06	123.70
59	BZ	40	TYR	CB-CG-CD2	-7.05	116.77	121.00
85	AA	475	A	O4'-C1'-C2'	7.05	113.95	107.60
85	AA	1456	A	C4'-C3'-C2'	-7.05	95.55	102.60
85	AA	1542	A	C6-N1-C2	-7.05	114.37	118.60
34	BA	1259	C	C3'-C2'-C1'	-7.05	95.86	101.50
35	BB	618	U	O4'-C1'-C2'	7.05	113.94	107.60
35	BB	1512	C	C2'-C3'-O3'	7.05	125.01	109.50
39	BF	12	U	C2-N1-C1'	7.05	126.16	117.70
40	BG	58	G	O5'-C5'-C4'	-7.05	98.31	111.70
65	Bf	356	TYR	CB-CG-CD1	-7.05	116.77	121.00
85	AA	69	C	O4'-C1'-N1	7.05	113.84	108.20
85	AA	472	A	N1-C6-N6	-7.05	114.37	118.60
85	AA	880	A	O4'-C1'-N9	7.05	113.84	108.20
85	AA	937	G	C4-N9-C1'	-7.05	117.33	126.50
85	AA	1955	U	C2-N3-C4	-7.05	122.77	127.00
86	AB	63	G	O4'-C1'-N9	7.05	113.84	108.20
34	BA	325	A	O3'-P-O5'	7.05	117.39	104.00
34	BA	1440	C	C5'-C4'-O4'	7.05	117.56	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	395	U	O4'-C1'-N1	7.05	113.84	108.20
38	BE	110	U	C1'-O4'-C4'	-7.05	104.26	109.90
42	BI	147	ARG	NE-CZ-NH1	7.05	123.82	120.30
72	Bm	44	LYS	N-CA-CB	-7.05	97.92	110.60
85	AA	699	U	C1'-O4'-C4'	-7.05	104.26	109.90
85	AA	1005	C	O4'-C1'-N1	7.05	113.84	108.20
85	AA	1018	G	O4'-C1'-N9	7.05	113.84	108.20
34	BA	777	C	C5'-C4'-C3'	-7.04	104.73	116.00
34	BA	1549	U	C2-N3-C4	-7.04	122.77	127.00
35	BB	1001	G	C8-N9-C4	-7.04	103.58	106.40
39	BF	6	C	P-O5'-C5'	7.04	132.17	120.90
64	Be	154	GLN	C-N-CA	7.04	139.31	121.70
85	AA	1921	G	C6-N1-C2	-7.04	120.87	125.10
27	AT	118	ARG	CD-NE-CZ	-7.04	113.74	123.60
34	BA	90	G	N1-C6-O6	7.04	124.13	119.90
34	BA	852	C	C5-C4-N4	7.04	125.13	120.20
35	BB	1094	A	C1'-O4'-C4'	-7.04	104.27	109.90
36	BC	142	C	O4'-C1'-N1	7.04	113.83	108.20
85	AA	841	U	C2-N3-C4	-7.04	122.77	127.00
85	AA	1103	A	N1-C6-N6	7.04	122.83	118.60
34	BA	1294	C	C3'-C2'-C1'	-7.04	95.87	101.50
34	BA	1736	A	N1-C6-N6	7.04	122.83	118.60
35	BB	118	A	N9-C1'-C2'	-7.04	104.25	112.00
35	BB	654	C	C2-N3-C4	-7.04	116.38	119.90
38	BE	179	A	N1-C6-N6	-7.04	114.38	118.60
72	Bm	64	ARG	NE-CZ-NH1	7.04	123.82	120.30
77	Br	359	ARG	NE-CZ-NH2	-7.04	116.78	120.30
85	AA	196	U	C2-N1-C1'	-7.04	109.25	117.70
85	AA	336	C	C5-C4-N4	-7.04	115.27	120.20
85	AA	836	A	C6-N1-C2	-7.04	114.38	118.60
85	AA	879	G	C5'-C4'-C3'	-7.04	104.73	116.00
85	AA	1222	A	C5-C6-N1	7.04	121.22	117.70
34	BA	1120	U	O4'-C4'-C3'	-7.04	96.96	104.00
34	BA	1721	U	P-O3'-C3'	-7.04	111.25	119.70
35	BB	701	U	C5'-C4'-C3'	-7.04	104.74	116.00
36	BC	62	A	C4-C5-C6	-7.04	113.48	117.00
40	BG	69	G	C5-C6-O6	-7.04	124.38	128.60
85	AA	2017	U	O4'-C1'-N1	7.04	113.83	108.20
34	BA	108	A	P-O5'-C5'	-7.04	109.64	120.90
34	BA	1725	U	O4'-C1'-N1	7.04	113.83	108.20
34	BA	1791	C	C6-N1-C2	-7.04	117.48	120.30
35	BB	639	A	O4'-C1'-C2'	-7.04	98.76	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	715	G	C4'-C3'-C2'	-7.04	95.56	102.60
35	BB	822	G	C6-N1-C2	-7.04	120.88	125.10
35	BB	1173	C	P-O5'-C5'	-7.04	109.64	120.90
37	BD	106	G	N1-C6-O6	-7.04	115.68	119.90
41	BH	102	C	N3-C2-O2	-7.04	116.97	121.90
72	Bm	37	ARG	NE-CZ-NH1	7.04	123.82	120.30
77	Br	324	ARG	NE-CZ-NH1	7.04	123.82	120.30
85	AA	414	C	N3-C4-N4	-7.04	113.07	118.00
85	AA	764	U	C2-N1-C1'	-7.04	109.25	117.70
34	BA	874	G	P-O3'-C3'	-7.04	111.25	119.70
34	BA	1328	U	C1'-O4'-C4'	-7.04	104.27	109.90
35	BB	895	U	C2-N3-C4	-7.04	122.78	127.00
35	BB	1230	A	O3'-P-O5'	7.04	117.37	104.00
85	AA	606	A	O4'-C1'-N9	7.04	113.83	108.20
85	AA	930	G	C6-N1-C2	-7.04	120.88	125.10
85	AA	1094	G	C8-N9-C1'	7.04	136.15	127.00
85	AA	1578	G	O5'-C5'-C4'	7.04	125.07	111.70
85	AA	1966	C	C4'-C3'-C2'	-7.04	95.56	102.60
34	BA	930	A	O4'-C1'-N9	7.04	113.83	108.20
35	BB	848	A	C4'-C3'-C2'	-7.04	95.56	102.60
35	BB	1515	C	O4'-C1'-N1	7.04	113.83	108.20
85	AA	424	A	O4'-C4'-C3'	-7.04	96.96	104.00
85	AA	963	U	C5'-C4'-O4'	7.04	117.54	109.10
34	BA	131	A	C5-C6-N6	7.03	129.33	123.70
34	BA	375	C	C6-N1-C2	-7.03	117.49	120.30
34	BA	537	C	C6-N1-C2	-7.03	117.49	120.30
34	BA	852	C	P-O3'-C3'	7.03	128.14	119.70
34	BA	1666	U	O4'-C1'-N1	7.03	113.83	108.20
38	BE	114	G	P-O3'-C3'	-7.03	111.26	119.70
41	BH	116	A	O4'-C1'-N9	7.03	113.83	108.20
42	BI	112	PHE	CB-CG-CD2	-7.03	115.88	120.80
56	BW	19	LEU	N-CA-C	-7.03	92.01	111.00
75	Bp	40	ARG	NE-CZ-NH1	7.03	123.82	120.30
85	AA	991	G	N9-C4-C5	-7.03	102.59	105.40
85	AA	1778	C	O4'-C1'-N1	7.03	113.83	108.20
34	BA	20	A	N9-C1'-C2'	-7.03	104.27	112.00
34	BA	1281	U	P-O3'-C3'	-7.03	111.26	119.70
34	BA	1428	G	N3-C2-N2	7.03	124.82	119.90
34	BA	1500	G	N3-C4-N9	7.03	130.22	126.00
85	AA	650	G	C3'-C2'-C1'	-7.03	95.88	101.50
85	AA	790	A	C5-N7-C8	-7.03	100.38	103.90
34	BA	5	C	P-O5'-C5'	7.03	132.15	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	813	C	P-O5'-C5'	7.03	132.15	120.90
34	BA	1037	C	C3'-C2'-C1'	-7.03	95.88	101.50
34	BA	1258	G	N1-C6-O6	7.03	124.12	119.90
35	BB	839	G	C4-N9-C1'	-7.03	117.36	126.50
36	BC	60	U	C1'-O4'-C4'	-7.03	104.28	109.90
37	BD	75	G	C6-N1-C2	-7.03	120.88	125.10
38	BE	165	U	N1-C2-N3	7.03	119.12	114.90
40	BG	35	G	C4-N9-C1'	-7.03	117.36	126.50
80	Bu	56	THR	N-CA-CB	7.03	123.66	110.30
85	AA	79	G	O4'-C1'-N9	7.03	113.83	108.20
85	AA	714	U	C2-N3-C4	-7.03	122.78	127.00
85	AA	1595	G	C2'-C3'-O3'	7.03	124.97	109.50
2	A1	48	ARG	NE-CZ-NH1	7.03	123.81	120.30
34	BA	433	G	P-O3'-C3'	7.03	128.13	119.70
36	BC	166	G	P-O5'-C5'	-7.03	109.65	120.90
85	AA	365	G	C8-N9-C1'	7.03	136.14	127.00
85	AA	940	G	O5'-C5'-C4'	7.03	125.06	111.70
34	BA	42	A	C1'-O4'-C4'	-7.03	104.28	109.90
34	BA	190	U	C1'-O4'-C4'	-7.03	104.28	109.90
34	BA	1485	U	O5'-C5'-C4'	-7.03	98.35	111.70
34	BA	1770	U	O4'-C1'-N1	7.03	113.82	108.20
35	BB	498	G	N1-C6-O6	7.03	124.12	119.90
38	BE	146	U	C5-C4-O4	7.03	130.12	125.90
80	Bu	13	TYR	CB-CG-CD1	-7.03	116.78	121.00
85	AA	155	U	C5'-C4'-C3'	-7.03	104.75	116.00
85	AA	179	G	C8-N9-C4	-7.03	103.59	106.40
85	AA	431	G	C8-N9-C1'	7.03	136.13	127.00
85	AA	540	A	P-O3'-C3'	7.03	128.13	119.70
85	AA	659	A	C5-C6-N6	7.03	129.32	123.70
85	AA	897	A	C3'-C2'-C1'	-7.03	95.88	101.50
85	AA	1866	A	P-O5'-C5'	-7.03	109.66	120.90
85	AA	2085	C	P-O3'-C3'	7.03	128.13	119.70
34	BA	521	C	C1'-O4'-C4'	-7.03	104.28	109.90
34	BA	1783	C	C3'-C2'-C1'	-7.03	95.88	101.50
35	BB	1427	A	C6-N1-C2	-7.03	114.38	118.60
38	BE	174	U	N3-C2-O2	-7.03	117.28	122.20
39	BF	32	G	O4'-C1'-C2'	7.03	113.92	107.60
40	BG	22	G	C5-C6-O6	-7.03	124.38	128.60
40	BG	51	U	O4'-C1'-N1	7.03	113.82	108.20
47	BN	94	TYR	CB-CG-CD2	-7.03	116.78	121.00
85	AA	183	C	P-O3'-C3'	7.03	128.13	119.70
85	AA	733	C	O4'-C1'-N1	7.03	113.82	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1520	A	O3'-P-O5'	-7.03	90.65	104.00
86	AB	19	G	C6-N1-C2	-7.03	120.89	125.10
8	A7	203	THR	N-CA-CB	7.02	123.65	110.30
34	BA	953	G	C4'-C3'-C2'	-7.02	95.58	102.60
34	BA	1542	A	C5'-C4'-C3'	7.02	127.24	116.00
35	BB	1322	A	P-O5'-C5'	-7.02	109.66	120.90
35	BB	1527	A	P-O5'-C5'	7.02	132.14	120.90
38	BE	205	G	C4-N9-C1'	-7.02	117.37	126.50
85	AA	587	G	P-O5'-C5'	-7.02	109.66	120.90
34	BA	251	U	O4'-C1'-N1	7.02	113.82	108.20
34	BA	665	C	O4'-C1'-N1	7.02	113.82	108.20
34	BA	1704	G	C1'-O4'-C4'	-7.02	104.28	109.90
37	BD	3	G	P-O5'-C5'	-7.02	109.66	120.90
38	BE	106	C	P-O5'-C5'	-7.02	109.66	120.90
85	AA	711	C	P-O5'-C5'	-7.02	109.67	120.90
34	BA	1461	A	C5'-C4'-C3'	-7.02	104.77	116.00
34	BA	1591	G	C5-C6-N1	7.02	115.01	111.50
36	BC	45	C	P-O3'-C3'	-7.02	111.28	119.70
53	BT	52	ARG	NE-CZ-NH1	7.02	123.81	120.30
85	AA	730	G	C5-C6-N1	7.02	115.01	111.50
85	AA	1099	U	O4'-C1'-N1	7.02	113.82	108.20
85	AA	1683	U	P-O3'-C3'	7.02	128.12	119.70
34	BA	357	A	O3'-P-O5'	7.02	117.34	104.00
34	BA	574	U	C5'-C4'-C3'	7.02	127.23	116.00
35	BB	433	C	C5'-C4'-C3'	7.02	127.23	116.00
38	BE	55	C	C6-N1-C1'	-7.02	112.38	120.80
38	BE	131	C	P-O5'-C5'	7.02	132.13	120.90
52	BS	3	ARG	NE-CZ-NH2	7.02	123.81	120.30
85	AA	775	C	P-O3'-C3'	7.02	128.12	119.70
85	AA	1031	G	P-O5'-C5'	7.02	132.13	120.90
85	AA	1622	G	N3-C2-N2	7.02	124.81	119.90
85	AA	1982	C	P-O5'-C5'	-7.02	109.67	120.90
34	BA	294	C	O4'-C1'-N1	7.02	113.81	108.20
34	BA	438	A	N1-C6-N6	-7.02	114.39	118.60
34	BA	579	U	OP1-P-OP2	-7.02	109.08	119.60
34	BA	799	A	C5-N7-C8	-7.02	100.39	103.90
34	BA	1090	A	O4'-C1'-N9	7.02	113.81	108.20
35	BB	1492	C	N3-C2-O2	-7.02	116.99	121.90
35	BB	1525	G	O4'-C1'-N9	7.02	113.81	108.20
37	BD	104	C	N1-C1'-C2'	-7.02	104.28	112.00
41	BH	75	G	C5-N7-C8	-7.02	100.79	104.30
43	BJ	177	ARG	NE-CZ-NH2	-7.02	116.79	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	Bh	104	ARG	NE-CZ-NH1	7.02	123.81	120.30
85	AA	744	C	N1-C2-N3	-7.02	114.29	119.20
85	AA	788	G	C8-N9-C1'	7.02	136.12	127.00
85	AA	1891	U	C6-N1-C1'	7.02	131.03	121.20
85	AA	1991	C	N1-C1'-C2'	7.02	123.12	114.00
34	BA	1151	A	O4'-C1'-N9	7.02	113.81	108.20
35	BB	1445	A	C4-N9-C1'	-7.02	113.67	126.30
85	AA	412	G	C3'-C2'-C1'	-7.02	95.89	101.50
85	AA	1506	U	C2'-C3'-O3'	7.02	124.94	109.50
85	AA	2036	A	C4-N9-C1'	7.02	138.93	126.30
19	AK	115	TYR	CA-CB-CG	-7.01	100.07	113.40
34	BA	260	A	O4'-C1'-C2'	7.01	113.91	107.60
34	BA	699	G	C5'-C4'-C3'	-7.01	104.78	116.00
34	BA	1087	A	C5-C6-N1	7.01	121.21	117.70
34	BA	1152	A	N9-C4-C5	-7.01	102.99	105.80
34	BA	1193	A	O4'-C1'-N9	7.01	113.81	108.20
35	BB	610	U	C6-N1-C1'	7.01	131.02	121.20
35	BB	1512	C	C3'-C2'-C1'	-7.01	95.89	101.50
37	BD	73	U	O4'-C1'-N1	-7.01	102.59	108.20
37	BD	86	A	N1-C6-N6	-7.01	114.39	118.60
64	Be	221	HIS	CA-CB-CG	-7.01	101.68	113.60
85	AA	674	U	N3-C4-O4	-7.01	114.49	119.40
85	AA	1197	U	C5'-C4'-O4'	7.01	117.52	109.10
85	AA	1551	G	P-O3'-C3'	7.01	128.12	119.70
85	AA	1649	U	C2-N1-C1'	-7.01	109.28	117.70
85	AA	2104	C	C2'-C3'-O3'	7.01	124.93	109.50
34	BA	520	G	P-O5'-C5'	7.01	132.12	120.90
35	BB	395	U	C3'-C2'-C1'	-7.01	95.89	101.50
35	BB	833	G	C3'-C2'-C1'	-7.01	95.89	101.50
35	BB	1141	A	C1'-O4'-C4'	-7.01	104.29	109.90
35	BB	1203	C	O3'-P-O5'	-7.01	90.68	104.00
35	BB	1507	U	C5'-C4'-C3'	-7.01	104.78	116.00
85	AA	510	A	C5'-C4'-O4'	7.01	117.51	109.10
85	AA	1220	A	C8-N9-C4	-7.01	103.00	105.80
34	BA	578	C	N1-C1'-C2'	-7.01	104.29	112.00
34	BA	839	U	C3'-C2'-C1'	-7.01	95.89	101.50
34	BA	882	G	O4'-C1'-C2'	7.01	113.91	107.60
34	BA	1425	G	P-O3'-C3'	7.01	128.11	119.70
34	BA	1787	U	C5'-C4'-O4'	-7.01	100.69	109.10
34	BA	1796	A	C8-N9-C4	7.01	108.60	105.80
35	BB	632	U	O4'-C1'-N1	7.01	113.81	108.20
35	BB	809	U	N1-C1'-C2'	-7.01	104.29	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1138	A	C5'-C4'-C3'	-7.01	104.79	116.00
38	BE	52	U	P-O3'-C3'	-7.01	111.29	119.70
38	BE	87	U	C5'-C4'-O4'	7.01	117.51	109.10
41	BH	20	A	C5-C6-N1	7.01	121.20	117.70
48	BO	148	TYR	CB-CG-CD2	-7.01	116.79	121.00
79	Bt	45	ARG	NE-CZ-NH1	7.01	123.81	120.30
85	AA	360	C	C5'-C4'-C3'	7.01	127.22	116.00
85	AA	1062	U	C5'-C4'-C3'	-7.01	104.78	116.00
34	BA	743	A	N1-C2-N3	7.01	132.80	129.30
34	BA	1378	A	P-O3'-C3'	-7.01	111.29	119.70
35	BB	496	C	P-O3'-C3'	-7.01	111.29	119.70
35	BB	799	A	C2'-C3'-O3'	7.01	124.92	109.50
37	BD	40	C	P-O5'-C5'	-7.01	109.69	120.90
38	BE	68	U	C2-N1-C1'	-7.01	109.29	117.70
77	Br	308	LYS	CA-C-N	-7.01	101.78	117.20
85	AA	575	G	C8-N9-C1'	7.01	136.11	127.00
85	AA	772	C	P-O3'-C3'	-7.01	111.29	119.70
85	AA	876	U	O4'-C1'-N1	7.01	113.81	108.20
85	AA	1501	A	P-O3'-C3'	-7.01	111.29	119.70
85	AA	1757	C	C2-N1-C1'	-7.01	111.09	118.80
85	AA	2056	C	C1'-O4'-C4'	-7.01	104.29	109.90
34	BA	288	U	P-O5'-C5'	-7.01	109.69	120.90
34	BA	804	G	P-O3'-C3'	7.01	128.11	119.70
34	BA	1086	A	P-O3'-C3'	-7.01	111.29	119.70
34	BA	1598	U	O3'-P-O5'	-7.01	90.69	104.00
38	BE	20	C	P-O5'-C5'	-7.01	109.69	120.90
38	BE	64	A	O4'-C1'-N9	7.01	113.81	108.20
73	Bn	46	ARG	NE-CZ-NH1	7.01	123.80	120.30
85	AA	207	G	P-O3'-C3'	-7.01	111.29	119.70
85	AA	377	U	C1'-O4'-C4'	-7.01	104.30	109.90
85	AA	1213	U	C6-N1-C1'	-7.01	111.39	121.20
85	AA	1554	C	O4'-C1'-N1	7.01	113.80	108.20
34	BA	596	G	N3-C4-C5	-7.00	125.10	128.60
34	BA	907	A	N1-C6-N6	-7.00	114.40	118.60
34	BA	911	G	N9-C1'-C2'	-7.00	104.29	112.00
35	BB	1476	C	O4'-C1'-N1	7.00	113.80	108.20
85	AA	475	A	N9-C1'-C2'	-7.00	104.30	112.00
34	BA	6	C	N1-C2-O2	7.00	123.10	118.90
34	BA	243	C	P-O3'-C3'	-7.00	111.30	119.70
34	BA	696	A	C5'-C4'-C3'	7.00	127.21	116.00
34	BA	1704	G	P-O3'-C3'	-7.00	111.30	119.70
35	BB	533	U	C3'-C2'-C1'	-7.00	95.90	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	706	G	C5-C6-O6	-7.00	124.40	128.60
35	BB	977	G	C4-N9-C1'	7.00	135.60	126.50
85	AA	790	A	N7-C8-N9	7.00	117.30	113.80
85	AA	1247	A	C8-N9-C4	7.00	108.60	105.80
85	AA	1535	C	C1'-O4'-C4'	-7.00	104.30	109.90
34	BA	584	A	O4'-C4'-C3'	-7.00	97.00	104.00
34	BA	609	G	P-O5'-C5'	7.00	132.10	120.90
34	BA	853	A	P-O3'-C3'	-7.00	111.30	119.70
35	BB	801	G	O4'-C1'-N9	7.00	113.80	108.20
35	BB	1186	A	C8-N9-C4	7.00	108.60	105.80
38	BE	4	A	P-O5'-C5'	-7.00	109.70	120.90
38	BE	51	C	P-O3'-C3'	-7.00	111.30	119.70
38	BE	146	U	N3-C4-O4	-7.00	114.50	119.40
48	BO	77	ARG	NE-CZ-NH1	7.00	123.80	120.30
52	BS	9	TYR	CB-CG-CD1	7.00	125.20	121.00
54	BU	65	TRP	CB-CG-CD2	-7.00	117.50	126.60
73	Bn	16	HIS	N-CA-C	-7.00	92.10	111.00
85	AA	1122	U	C2-N3-C4	-7.00	122.80	127.00
34	BA	862	C	N1-C1'-C2'	-7.00	104.30	112.00
36	BC	23	G	N1-C2-N2	-7.00	109.90	116.20
41	BH	135	U	O4'-C1'-N1	7.00	113.80	108.20
34	BA	1434	U	O5'-C5'-C4'	-7.00	98.40	111.70
35	BB	710	A	P-O5'-C5'	-7.00	109.70	120.90
35	BB	1132	A	C4-N9-C1'	-7.00	113.70	126.30
36	BC	85	U	O4'-C1'-N1	7.00	113.80	108.20
53	BT	64	ARG	NE-CZ-NH1	7.00	123.80	120.30
73	Bn	58	ARG	NE-CZ-NH1	7.00	123.80	120.30
85	AA	195	C	P-O3'-C3'	-7.00	111.30	119.70
85	AA	279	C	C5-C6-N1	7.00	124.50	121.00
85	AA	663	C	C5'-C4'-C3'	-7.00	104.80	116.00
85	AA	2240	G	C8-N9-C4	7.00	109.20	106.40
86	AB	8	U	C4'-C3'-C2'	7.00	109.60	102.60
34	BA	1524	G	N9-C4-C5	-7.00	102.60	105.40
34	BA	1599	A	C5'-C4'-O4'	7.00	117.50	109.10
35	BB	148	C	N3-C2-O2	-7.00	117.00	121.90
35	BB	1322	A	C3'-C2'-C1'	-7.00	95.90	101.50
38	BE	130	G	N3-C2-N2	7.00	124.80	119.90
39	BF	25	G	P-O5'-C5'	-7.00	109.71	120.90
41	BH	26	C	C6-N1-C2	-7.00	117.50	120.30
42	BI	13	ARG	NE-CZ-NH1	7.00	123.80	120.30
50	BQ	37	ARG	NE-CZ-NH1	7.00	123.80	120.30
85	AA	193	C	O4'-C1'-N1	7.00	113.80	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	339	A	C3'-C2'-C1'	-7.00	95.90	101.50
34	BA	98	A	O4'-C1'-C2'	7.00	113.90	107.60
34	BA	714	G	C5-C6-O6	-7.00	124.40	128.60
34	BA	1815	G	N1-C6-O6	-7.00	115.70	119.90
35	BB	5	A	C4-C5-C6	-7.00	113.50	117.00
35	BB	434	A	C6-N1-C2	-7.00	114.40	118.60
38	BE	85	G	C5-C6-O6	-7.00	124.40	128.60
84	By	113	PHE	CB-CG-CD1	7.00	125.70	120.80
34	BA	281	C	O4'-C1'-N1	6.99	113.79	108.20
34	BA	817	U	C2-N3-C4	-6.99	122.80	127.00
35	BB	763	U	O4'-C1'-N1	6.99	113.80	108.20
85	AA	1189	A	C4'-C3'-C2'	-6.99	95.61	102.60
85	AA	1356	U	C6-N1-C1'	-6.99	111.41	121.20
34	BA	301	U	O4'-C1'-N1	6.99	113.79	108.20
34	BA	366	G	C5'-C4'-O4'	6.99	117.49	109.10
34	BA	640	U	C2-N1-C1'	6.99	126.09	117.70
85	AA	1892	G	C5-C6-O6	-6.99	124.41	128.60
85	AA	2243	G	O4'-C1'-N9	6.99	113.79	108.20
4	A3	9	ARG	NE-CZ-NH1	6.99	123.80	120.30
34	BA	138	C	O5'-C5'-C4'	-6.99	98.42	111.70
34	BA	1779	U	C2-N1-C1'	-6.99	109.31	117.70
34	BA	1794	A	O4'-C1'-N9	6.99	113.79	108.20
35	BB	1306	G	N3-C2-N2	6.99	124.79	119.90
38	BE	101	C	N1-C1'-C2'	-6.99	104.31	112.00
38	BE	167	U	C2-N3-C4	-6.99	122.81	127.00
39	BF	41	U	C5'-C4'-C3'	-6.99	104.81	116.00
41	BH	112	U	N3-C2-O2	-6.99	117.31	122.20
85	AA	251	A	C5-C6-N6	6.99	129.29	123.70
85	AA	1217	U	C2-N1-C1'	-6.99	109.31	117.70
85	AA	2019	G	C5'-C4'-C3'	-6.99	104.81	116.00
85	AA	2064	A	P-O3'-C3'	-6.99	111.31	119.70
86	AB	3	C	C6-N1-C1'	-6.99	112.41	120.80
34	BA	1107	A	P-O3'-C3'	-6.99	111.31	119.70
35	BB	800	U	C2-N3-C4	-6.99	122.81	127.00
38	BE	61	A	N1-C6-N6	-6.99	114.41	118.60
41	BH	74	G	C5-N7-C8	-6.99	100.81	104.30
65	Bf	406	ARG	NE-CZ-NH2	-6.99	116.81	120.30
85	AA	210	G	C5'-C4'-C3'	-6.99	104.82	116.00
85	AA	1660	U	P-O3'-C3'	6.99	128.09	119.70
34	BA	664	C	C1'-O4'-C4'	-6.99	104.31	109.90
34	BA	1173	C	C6-N1-C1'	6.99	129.19	120.80
36	BC	106	G	C5'-C4'-C3'	-6.99	104.82	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	542	G	C3'-C2'-C1'	-6.99	95.91	101.50
34	BA	422	C	P-O3'-C3'	-6.99	111.32	119.70
34	BA	1215	U	N3-C2-O2	-6.99	117.31	122.20
34	BA	1458	A	C5'-C4'-C3'	6.99	127.18	116.00
35	BB	16	G	C5'-C4'-C3'	6.99	127.18	116.00
38	BE	32	U	C4'-C3'-C2'	-6.99	95.61	102.60
38	BE	98	C	O4'-C1'-N1	6.99	113.79	108.20
82	Bw	211	ARG	NE-CZ-NH1	6.99	123.79	120.30
85	AA	182	C	C6-N1-C1'	-6.99	112.42	120.80
85	AA	1048	C	C6-N1-C1'	6.99	129.18	120.80
85	AA	1345	C	O4'-C1'-N1	6.99	113.79	108.20
85	AA	1528	A	O5'-C5'-C4'	-6.99	98.43	111.70
85	AA	2109	G	P-O3'-C3'	-6.99	111.32	119.70
34	BA	1404	A	C2-N3-C4	6.98	114.09	110.60
35	BB	1480	G	C1'-O4'-C4'	-6.98	104.31	109.90
85	AA	1236	G	C4-N9-C1'	-6.98	117.42	126.50
34	BA	209	A	C8-N9-C1'	6.98	140.27	127.70
34	BA	610	A	N9-C1'-C2'	-6.98	104.32	112.00
34	BA	692	U	C2'-C3'-O3'	6.98	124.87	113.70
34	BA	961	C	C3'-C2'-C1'	-6.98	95.91	101.50
34	BA	1275	G	C8-N9-C1'	6.98	136.08	127.00
35	BB	1170	U	C3'-C2'-C1'	-6.98	95.91	101.50
35	BB	1369	A	P-O3'-C3'	6.98	128.08	119.70
36	BC	42	G	P-O3'-C3'	-6.98	111.32	119.70
41	BH	46	C	P-O3'-C3'	-6.98	111.32	119.70
85	AA	48	G	N3-C2-N2	6.98	124.79	119.90
85	AA	586	G	P-O3'-C3'	-6.98	111.32	119.70
85	AA	674	U	N1-C2-N3	6.98	119.09	114.90
85	AA	1518	A	C1'-O4'-C4'	-6.98	104.31	109.90
85	AA	1803	U	O4'-C1'-N1	6.98	113.79	108.20
15	AG	18	TYR	CB-CG-CD2	-6.98	116.81	121.00
34	BA	801	U	C6-N1-C2	-6.98	116.81	121.00
35	BB	1218	G	N9-C1'-C2'	-6.98	104.32	112.00
36	BC	78	G	C1'-O4'-C4'	-6.98	104.32	109.90
85	AA	124	A	O3'-P-O5'	-6.98	90.74	104.00
85	AA	287	G	C8-N9-C4	-6.98	103.61	106.40
85	AA	1465	C	O3'-P-O5'	6.98	117.26	104.00
85	AA	1971	G	C5'-C4'-C3'	-6.98	104.83	116.00
35	BB	967	G	C3'-C2'-C1'	-6.98	95.92	101.50
65	Bf	212	ARG	NE-CZ-NH1	6.98	123.79	120.30
85	AA	460	U	C6-N1-C2	-6.98	116.81	121.00
34	BA	449	G	C8-N9-C4	6.98	109.19	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	634	U	P-O5'-C5'	6.98	132.06	120.90
35	BB	1165	A	C4-C5-C6	-6.98	113.51	117.00
38	BE	183	C	O4'-C1'-N1	6.98	113.78	108.20
40	BG	166	C	N3-C2-O2	-6.98	117.02	121.90
41	BH	28	U	P-O5'-C5'	6.98	132.06	120.90
41	BH	86	G	OP1-P-OP2	-6.98	109.13	119.60
56	BW	111	MET	CG-SD-CE	-6.98	89.03	100.20
85	AA	710	A	C4-N9-C1'	6.98	138.86	126.30
85	AA	1156	A	N1-C6-N6	6.98	122.79	118.60
85	AA	1383	C	O4'-C1'-N1	6.98	113.78	108.20
35	BB	1076	U	N3-C2-O2	-6.98	117.32	122.20
35	BB	1352	C	C6-N1-C2	-6.98	117.51	120.30
42	BI	25	TYR	CB-CG-CD2	-6.98	116.81	121.00
85	AA	42	G	C6-N1-C2	-6.98	120.92	125.10
85	AA	1985	C	C6-N1-C2	-6.98	117.51	120.30
85	AA	2112	G	C5'-C4'-C3'	-6.98	104.84	116.00
34	BA	462	C	C6-N1-C1'	-6.97	112.43	120.80
34	BA	462	C	C1'-O4'-C4'	-6.97	104.32	109.90
34	BA	822	U	O4'-C1'-N1	6.97	113.78	108.20
34	BA	976	C	N3-C4-N4	-6.97	113.12	118.00
34	BA	1315	C	C5'-C4'-C3'	-6.97	104.84	116.00
35	BB	61	A	OP1-P-OP2	-6.97	109.14	119.60
35	BB	465	C	C3'-C2'-C1'	-6.97	95.92	101.50
35	BB	1508	G	O3'-P-O5'	-6.97	90.75	104.00
36	BC	124	A	C6-C5-N7	-6.97	127.42	132.30
37	BD	4	U	C5-C6-N1	-6.97	119.21	122.70
38	BE	107	U	O4'-C4'-C3'	-6.97	97.03	104.00
40	BG	36	G	P-O5'-C5'	-6.97	109.74	120.90
48	BO	201	ARG	NE-CZ-NH1	6.97	123.79	120.30
85	AA	172	A	N1-C6-N6	6.97	122.78	118.60
85	AA	548	G	C3'-C2'-C1'	-6.97	95.92	101.50
85	AA	1495	G	N3-C2-N2	6.97	124.78	119.90
85	AA	1549	G	N1-C6-O6	6.97	124.08	119.90
34	BA	604	G	P-O3'-C3'	6.97	128.07	119.70
34	BA	635	G	OP1-P-OP2	-6.97	109.14	119.60
34	BA	1222	C	C5'-C4'-C3'	-6.97	104.84	116.00
34	BA	1809	G	C5-C6-N1	6.97	114.99	111.50
35	BB	1019	C	O4'-C1'-N1	6.97	113.78	108.20
37	BD	32	A	O4'-C1'-N9	6.97	113.78	108.20
85	AA	864	C	C3'-C2'-C1'	-6.97	95.92	101.50
34	BA	1732	A	N3-C4-C5	-6.97	121.92	126.80
70	Bk	110	ARG	NE-CZ-NH1	6.97	123.78	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2215	C	N3-C2-O2	-6.97	117.02	121.90
34	BA	129	U	C4'-C3'-C2'	6.97	109.57	102.60
34	BA	1491	U	P-O5'-C5'	-6.97	109.75	120.90
34	BA	1794	A	C5'-C4'-C3'	6.97	127.15	116.00
35	BB	743	C	C4'-C3'-C2'	-6.97	95.63	102.60
35	BB	1298	C	C5-C4-N4	6.97	125.08	120.20
36	BC	145	G	C5-C6-O6	6.97	132.78	128.60
40	BG	35	G	C8-N9-C1'	6.97	136.06	127.00
85	AA	735	G	C8-N9-C1'	6.97	136.06	127.00
85	AA	881	C	N3-C2-O2	-6.97	117.02	121.90
34	BA	1207	A	N1-C6-N6	6.97	122.78	118.60
34	BA	1366	C	C6-N1-C2	-6.97	117.51	120.30
35	BB	680	A	O4'-C1'-C2'	6.97	113.87	107.60
35	BB	1196	A	N1-C2-N3	-6.97	125.82	129.30
85	AA	771	A	C6-N1-C2	-6.97	114.42	118.60
85	AA	854	A	C1'-O4'-C4'	-6.97	104.33	109.90
85	AA	2089	G	C8-N9-C1'	6.97	136.06	127.00
34	BA	263	G	C3'-C2'-C1'	-6.97	95.93	101.50
38	BE	93	U	C5'-C4'-O4'	6.97	117.46	109.10
42	BI	104	ALA	C-N-CA	6.97	139.12	121.70
85	AA	306	C	C6-N1-C2	-6.97	117.51	120.30
85	AA	431	G	C1'-O4'-C4'	-6.97	104.33	109.90
85	AA	1335	C	O4'-C1'-N1	6.97	113.77	108.20
34	BA	671	C	O4'-C1'-N1	6.96	113.77	108.20
35	BB	391	G	C8-N9-C1'	6.96	136.05	127.00
35	BB	620	G	N9-C1'-C2'	-6.96	104.34	112.00
49	BP	23	ARG	NE-CZ-NH1	6.96	123.78	120.30
54	BU	159	TYR	CB-CG-CD1	-6.96	116.82	121.00
85	AA	571	G	C5'-C4'-C3'	6.96	127.14	116.00
85	AA	588	G	C4'-C3'-C2'	-6.96	95.64	102.60
85	AA	594	C	O4'-C1'-N1	6.96	113.77	108.20
85	AA	1879	U	N3-C2-O2	-6.96	117.32	122.20
34	BA	344	G	C6-N1-C2	-6.96	120.92	125.10
35	BB	390	G	N1-C6-O6	-6.96	115.72	119.90
35	BB	392	G	C4-N9-C1'	-6.96	117.45	126.50
35	BB	474	G	C1'-O4'-C4'	-6.96	104.33	109.90
35	BB	660	G	N1-C6-O6	6.96	124.08	119.90
37	BD	13	A	P-O3'-C3'	-6.96	111.34	119.70
40	BG	15	G	C4-N9-C1'	-6.96	117.45	126.50
85	AA	249	C	N1-C2-O2	6.96	123.08	118.90
85	AA	1085	U	O4'-C1'-N1	6.96	113.77	108.20
85	AA	2058	C	C2-N3-C4	-6.96	116.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
86	AB	16	U	O4'-C4'-C3'	-6.96	97.04	104.00
1	A0	107	MET	CG-SD-CE	-6.96	89.06	100.20
34	BA	856	G	C5-C6-N1	6.96	114.98	111.50
34	BA	1411	C	P-O5'-C5'	6.96	132.04	120.90
34	BA	1819	U	O5'-P-OP1	-6.96	99.44	105.70
35	BB	514	G	C8-N9-C1'	6.96	136.05	127.00
35	BB	741	A	C5'-C4'-C3'	-6.96	104.86	116.00
35	BB	971	A	OP1-P-O3'	6.96	120.52	105.20
35	BB	1419	G	C8-N9-C4	-6.96	103.61	106.40
40	BG	43	U	C5'-C4'-C3'	6.96	127.14	116.00
85	AA	351	C	C5'-C4'-C3'	-6.96	104.86	116.00
85	AA	1495	G	N9-C1'-C2'	-6.96	104.34	112.00
34	BA	54	A	P-O3'-C3'	-6.96	111.35	119.70
35	BB	1483	A	C5'-C4'-O4'	6.96	117.45	109.10
3	A2	48	ARG	NE-CZ-NH1	6.96	123.78	120.30
34	BA	78	U	P-O3'-C3'	-6.96	111.35	119.70
34	BA	652	C	O4'-C1'-N1	6.96	113.77	108.20
34	BA	843	G	C8-N9-C4	-6.96	103.62	106.40
34	BA	1563	G	O5'-P-OP2	-6.96	99.44	105.70
35	BB	357	C	O4'-C1'-N1	6.96	113.77	108.20
35	BB	823	G	C8-N9-C4	-6.96	103.62	106.40
35	BB	1505	U	C5'-C4'-C3'	-6.96	104.87	116.00
36	BC	86	U	C1'-O4'-C4'	-6.96	104.33	109.90
39	BF	2	G	C5-C6-O6	-6.96	124.42	128.60
85	AA	390	U	C4'-C3'-C2'	-6.96	95.64	102.60
85	AA	1952	C	C6-N1-C2	-6.96	117.52	120.30
13	AE	76	PHE	CB-CG-CD1	6.96	125.67	120.80
34	BA	745	A	C5'-C4'-C3'	-6.96	104.87	116.00
35	BB	46	U	C4'-C3'-C2'	6.96	109.56	102.60
35	BB	363	A	P-O5'-C5'	6.96	132.03	120.90
38	BE	8	G	P-O3'-C3'	-6.96	111.35	119.70
38	BE	73	A	C5'-C4'-C3'	6.96	127.13	116.00
47	BN	19	PRO	N-CA-C	6.96	130.19	112.10
85	AA	748	C	C3'-C2'-C1'	-6.96	95.93	101.50
34	BA	355	U	N3-C2-O2	-6.96	117.33	122.20
34	BA	692	U	C4-C5-C6	-6.96	115.53	119.70
34	BA	1049	G	C5-N7-C8	-6.96	100.82	104.30
35	BB	90	G	C8-N9-C1'	6.96	136.04	127.00
35	BB	1510	G	N9-C1'-C2'	-6.96	104.35	112.00
85	AA	307	G	C4'-C3'-O3'	6.96	126.91	113.00
85	AA	1404	G	O4'-C1'-N9	6.96	113.76	108.20
34	BA	615	A	C3'-C2'-C1'	-6.95	95.94	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	641	U	N3-C4-O4	-6.95	114.53	119.40
34	BA	825	G	C1'-O4'-C4'	-6.95	104.34	109.90
34	BA	1652	G	P-O3'-C3'	-6.95	111.36	119.70
35	BB	1065	G	C8-N9-C1'	-6.95	117.96	127.00
39	BF	54	U	C3'-C2'-C1'	6.95	107.06	101.50
85	AA	650	G	C6-N1-C2	-6.95	120.93	125.10
85	AA	788	G	O4'-C4'-C3'	-6.95	97.05	104.00
85	AA	838	G	N3-C4-N9	6.95	130.17	126.00
85	AA	1516	A	O4'-C1'-C2'	6.95	113.86	107.60
85	AA	1536	C	P-O5'-C5'	-6.95	109.78	120.90
85	AA	2132	A	O4'-C1'-N9	6.95	113.76	108.20
34	BA	794	G	C1'-O4'-C4'	-6.95	104.34	109.90
35	BB	168	U	O4'-C1'-N1	6.95	113.76	108.20
85	AA	519	A	C4'-C3'-C2'	-6.95	95.65	102.60
4	A3	210	ARG	NE-CZ-NH2	-6.95	116.83	120.30
5	A4	3	ALA	N-CA-CB	6.95	119.83	110.10
35	BB	63	A	C1'-O4'-C4'	-6.95	104.34	109.90
35	BB	1306	G	O5'-C5'-C4'	-6.95	98.49	111.70
38	BE	17	U	C1'-O4'-C4'	-6.95	104.34	109.90
40	BG	2	U	C2-N3-C4	-6.95	122.83	127.00
85	AA	644	A	N1-C6-N6	6.95	122.77	118.60
34	BA	110	C	N3-C4-C5	-6.95	119.12	121.90
35	BB	137	A	C4-N9-C1'	-6.95	113.79	126.30
35	BB	1071	G	P-O3'-C3'	-6.95	111.36	119.70
38	BE	39	U	C2-N3-C4	-6.95	122.83	127.00
40	BG	135	C	O4'-C1'-N1	6.95	113.76	108.20
59	BZ	75	TRP	CB-CG-CD2	-6.95	117.57	126.60
85	AA	1217	U	N3-C2-O2	-6.95	117.34	122.20
85	AA	2074	G	C4-N9-C1'	-6.95	117.47	126.50
34	BA	1331	G	P-O3'-C3'	-6.95	111.36	119.70
35	BB	518	G	C5'-C4'-O4'	6.95	117.44	109.10
36	BC	15	G	C5-C6-O6	-6.95	124.43	128.60
85	AA	430	G	C5-C6-O6	-6.95	124.43	128.60
85	AA	2154	C	P-O5'-C5'	-6.95	109.78	120.90
8	A7	211	CYS	N-CA-C	-6.95	92.25	111.00
34	BA	87	G	C1'-O4'-C4'	-6.95	104.34	109.90
34	BA	89	G	C8-N9-C1'	6.95	136.03	127.00
34	BA	103	G	P-O5'-C5'	-6.95	109.79	120.90
34	BA	114	U	P-O5'-C5'	-6.95	109.79	120.90
34	BA	702	G	O3'-P-O5'	6.95	117.19	104.00
34	BA	994	G	C5'-C4'-C3'	-6.95	104.89	116.00
35	BB	315	C	O4'-C1'-N1	6.95	113.76	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1015	U	O4'-C1'-N1	6.95	113.76	108.20
35	BB	1016	C	C3'-C2'-C1'	-6.95	95.94	101.50
37	BD	78	C	O4'-C1'-N1	6.95	113.76	108.20
39	BF	34	C	C4'-C3'-C2'	-6.95	95.65	102.60
85	AA	1056	C	C6-N1-C1'	-6.95	112.47	120.80
85	AA	1440	C	C3'-C2'-C1'	-6.95	95.94	101.50
85	AA	1632	G	C5-C6-O6	-6.95	124.43	128.60
34	BA	1538	G	N1-C2-N2	-6.94	109.95	116.20
35	BB	255	A	O4'-C1'-N9	6.94	113.76	108.20
85	AA	764	U	P-O3'-C3'	6.94	128.03	119.70
34	BA	310	C	C5'-C4'-C3'	-6.94	104.89	116.00
34	BA	639	U	O4'-C1'-N1	6.94	113.75	108.20
40	BG	13	A	C5'-C4'-O4'	6.94	117.43	109.10
67	Bh	50	ARG	NE-CZ-NH2	6.94	123.77	120.30
85	AA	456	A	C4-N9-C1'	-6.94	113.81	126.30
34	BA	89	G	N1-C6-O6	6.94	124.06	119.90
34	BA	679	U	P-O3'-C3'	6.94	128.03	119.70
34	BA	1544	G	C1'-O4'-C4'	-6.94	104.35	109.90
34	BA	1603	A	C4'-C3'-C2'	-6.94	95.66	102.60
35	BB	374	A	C6-N1-C2	-6.94	114.44	118.60
35	BB	1054	G	C5-C6-O6	-6.94	124.44	128.60
41	BH	100	A	OP1-P-O3'	6.94	120.47	105.20
85	AA	265	A	C1'-O4'-C4'	-6.94	104.35	109.90
38	BE	96	G	N1-C6-O6	-6.94	115.74	119.90
34	BA	277	A	O4'-C1'-N9	6.94	113.75	108.20
34	BA	308	C	O4'-C1'-N1	6.94	113.75	108.20
34	BA	1282	G	C5'-C4'-C3'	-6.94	104.90	116.00
34	BA	1636	C	C6-N1-C2	6.94	123.08	120.30
35	BB	509	A	C8-N9-C4	6.94	108.58	105.80
35	BB	1000	U	P-O5'-C5'	-6.94	109.80	120.90
38	BE	146	U	C5-C6-N1	-6.94	119.23	122.70
67	Bh	163	ARG	NE-CZ-NH1	6.94	123.77	120.30
77	Br	99	ARG	CB-CA-C	-6.94	96.52	110.40
85	AA	189	G	O4'-C1'-N9	6.94	113.75	108.20
85	AA	236	G	O4'-C1'-N9	6.94	113.75	108.20
86	AB	67	C	C6-N1-C2	-6.94	117.53	120.30
53	BT	75	HIS	CA-CB-CG	-6.94	101.81	113.60
85	AA	722	G	C4-N9-C1'	-6.94	117.48	126.50
85	AA	859	G	C2-N3-C4	6.94	115.37	111.90
85	AA	1291	A	O4'-C1'-N9	6.94	113.75	108.20
21	AM	41	PHE	CB-CG-CD2	-6.93	115.95	120.80
34	BA	54	A	C3'-C2'-C1'	-6.93	95.95	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	167	U	O4'-C1'-N1	6.93	113.75	108.20
34	BA	195	G	C8-N9-C4	-6.93	103.63	106.40
34	BA	1676	A	O5'-P-OP2	-6.93	99.46	105.70
35	BB	284	C	O4'-C1'-N1	6.93	113.75	108.20
35	BB	1022	C	N1-C2-O2	6.93	123.06	118.90
35	BB	1441	C	C5'-C4'-O4'	6.93	117.42	109.10
35	BB	1467	A	C5'-C4'-C3'	6.93	127.09	116.00
40	BG	166	C	C5-C4-N4	6.93	125.05	120.20
85	AA	1514	A	C5-C6-N6	-6.93	118.15	123.70
85	AA	1636	C	C6-N1-C2	-6.93	117.53	120.30
34	BA	568	G	C4'-C3'-C2'	-6.93	95.67	102.60
35	BB	1506	C	C6-N1-C1'	-6.93	112.48	120.80
34	BA	290	G	N3-C2-N2	6.93	124.75	119.90
35	BB	507	G	N9-C1'-C2'	-6.93	104.38	112.00
35	BB	530	C	O4'-C1'-N1	6.93	113.75	108.20
39	BF	56	C	O5'-P-OP2	-6.93	99.46	105.70
41	BH	113	G	C1'-O4'-C4'	-6.93	104.36	109.90
85	AA	1765	G	O4'-C1'-N9	6.93	113.75	108.20
34	BA	155	U	N1-C2-N3	6.93	119.06	114.90
34	BA	435	U	C5'-C4'-C3'	6.93	127.09	116.00
34	BA	571	G	C8-N9-C4	-6.93	103.63	106.40
34	BA	1202	G	N9-C1'-C2'	-6.93	104.38	112.00
34	BA	1504	A	P-O5'-C5'	6.93	131.99	120.90
35	BB	871	C	C1'-O4'-C4'	-6.93	104.36	109.90
38	BE	33	C	O4'-C1'-N1	6.93	113.74	108.20
38	BE	82	C	C1'-O4'-C4'	-6.93	104.36	109.90
40	BG	7	U	O4'-C1'-N1	6.93	113.74	108.20
41	BH	15	A	C4'-C3'-C2'	-6.93	95.67	102.60
47	BN	187	TYR	N-CA-C	-6.93	92.29	111.00
65	Bf	150	HIS	CA-CB-CG	-6.93	101.82	113.60
85	AA	128	U	C3'-C2'-C1'	-6.93	95.96	101.50
85	AA	231	G	O4'-C1'-N9	6.93	113.74	108.20
34	BA	1733	G	O4'-C1'-N9	6.93	113.74	108.20
85	AA	1790	G	N9-C4-C5	-6.93	102.63	105.40
85	AA	2164	G	C3'-C2'-C1'	-6.93	95.96	101.50
22	AO	95	ARG	NE-CZ-NH1	6.93	123.76	120.30
34	BA	814	C	N1-C1'-C2'	-6.93	104.38	112.00
34	BA	1542	A	N9-C1'-C2'	-6.93	104.38	112.00
35	BB	1504	U	P-O3'-C3'	6.93	128.01	119.70
41	BH	133	U	O4'-C1'-N1	6.93	113.74	108.20
85	AA	2109	G	O4'-C1'-N9	6.93	113.74	108.20
85	AA	2202	G	C5-C6-O6	-6.93	124.44	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	231	U	P-O5'-C5'	6.92	131.98	120.90
34	BA	383	G	N3-C2-N2	-6.92	115.05	119.90
35	BB	93	A	O4'-C1'-N9	6.92	113.74	108.20
39	BF	60	C	C6-N1-C2	-6.92	117.53	120.30
85	AA	210	G	N9-C1'-C2'	-6.92	104.38	112.00
85	AA	1399	U	O4'-C1'-N1	6.92	113.74	108.20
7	A6	53	ARG	NE-CZ-NH1	6.92	123.76	120.30
34	BA	102	G	C3'-C2'-C1'	-6.92	95.96	101.50
34	BA	1286	C	C5-C4-N4	6.92	125.05	120.20
34	BA	1472	G	C8-N9-C4	6.92	109.17	106.40
35	BB	624	A	P-O3'-C3'	-6.92	111.39	119.70
41	BH	111	U	C5-C4-O4	6.92	130.05	125.90
85	AA	878	U	O4'-C1'-N1	6.92	113.74	108.20
85	AA	1091	C	O4'-C1'-N1	6.92	113.74	108.20
34	BA	930	A	C5'-C4'-C3'	-6.92	104.92	116.00
34	BA	1294	C	O4'-C4'-C3'	6.92	111.64	106.10
34	BA	1485	U	C6-N1-C1'	6.92	130.89	121.20
34	BA	1659	G	O4'-C1'-N9	6.92	113.74	108.20
35	BB	449	C	C6-N1-C2	-6.92	117.53	120.30
35	BB	942	G	P-O3'-C3'	6.92	128.01	119.70
40	BG	46	G	P-O3'-C3'	-6.92	111.39	119.70
41	BH	11	C	N1-C2-O2	6.92	123.05	118.90
59	BZ	78	HIS	CB-CA-C	-6.92	96.56	110.40
85	AA	633	C	C2-N1-C1'	6.92	126.41	118.80
85	AA	1833	C	C5'-C4'-O4'	6.92	117.41	109.10
34	BA	286	C	C5'-C4'-C3'	6.92	127.07	116.00
34	BA	687	G	C6-N1-C2	-6.92	120.95	125.10
34	BA	1025	A	P-O3'-C3'	-6.92	111.40	119.70
40	BG	13	A	C1'-O4'-C4'	-6.92	104.36	109.90
85	AA	25	C	OP1-P-OP2	-6.92	109.22	119.60
85	AA	457	G	C1'-O4'-C4'	-6.92	104.36	109.90
86	AB	58	A	C5'-C4'-C3'	-6.92	104.93	116.00
27	AT	34	HIS	CA-CB-CG	6.92	125.36	113.60
34	BA	12	G	C5-N7-C8	-6.92	100.84	104.30
35	BB	887	G	P-O3'-C3'	-6.92	111.40	119.70
38	BE	17	U	C5'-C4'-C3'	-6.92	104.93	116.00
85	AA	164	G	C5'-C4'-C3'	-6.92	104.93	116.00
85	AA	590	U	O4'-C1'-N1	6.92	113.73	108.20
85	AA	657	C	C6-N1-C2	-6.92	117.53	120.30
85	AA	688	C	C5'-C4'-O4'	6.92	117.40	109.10
85	AA	1612	C	P-O5'-C5'	-6.92	109.83	120.90
34	BA	440	A	O5'-C5'-C4'	-6.92	98.56	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	939	C	N3-C2-O2	-6.92	117.06	121.90
35	BB	76	C	P-O5'-C5'	6.92	131.97	120.90
37	BD	81	C	N1-C2-O2	6.92	123.05	118.90
44	BK	9	TYR	CB-CG-CD1	-6.92	116.85	121.00
65	Bf	398	ARG	NE-CZ-NH2	-6.92	116.84	120.30
74	Bo	56	ARG	NE-CZ-NH1	6.92	123.76	120.30
85	AA	79	G	C8-N9-C1'	6.92	135.99	127.00
85	AA	819	G	N3-C4-C5	-6.92	125.14	128.60
85	AA	823	C	C3'-C2'-C1'	-6.92	95.97	101.50
25	AR	43	ASN	CA-CB-CG	-6.92	98.19	113.40
34	BA	1577	U	C6-N1-C1'	6.92	130.88	121.20
35	BB	752	A	N1-C6-N6	-6.92	114.45	118.60
35	BB	1170	U	C1'-O4'-C4'	-6.92	104.37	109.90
35	BB	1254	G	N1-C6-O6	-6.92	115.75	119.90
38	BE	193	A	C5-N7-C8	-6.92	100.44	103.90
34	BA	13	U	C1'-O4'-C4'	-6.91	104.37	109.90
34	BA	591	G	C4-N9-C1'	-6.91	117.51	126.50
34	BA	1433	U	C1'-O4'-C4'	-6.91	104.37	109.90
35	BB	574	G	C8-N9-C1'	6.91	135.99	127.00
77	Br	237	HIS	CA-CB-CG	-6.91	101.85	113.60
85	AA	130	G	O3'-P-O5'	-6.91	90.86	104.00
34	BA	455	A	P-O5'-C5'	-6.91	109.84	120.90
35	BB	976	U	N1-C2-N3	6.91	119.05	114.90
85	AA	492	C	C2-N1-C1'	-6.91	111.20	118.80
85	AA	2235	C	O4'-C1'-N1	6.91	113.73	108.20
19	AK	135	TRP	CB-CG-CD2	-6.91	117.62	126.60
34	BA	875	G	C3'-C2'-C1'	-6.91	95.97	101.50
34	BA	1814	U	C6-N1-C1'	6.91	130.87	121.20
35	BB	860	U	C2-N1-C1'	6.91	125.99	117.70
38	BE	155	C	C6-N1-C1'	-6.91	112.51	120.80
74	Bo	14	TYR	CB-CG-CD2	-6.91	116.85	121.00
85	AA	1505	G	C5-C6-O6	6.91	132.75	128.60
4	A3	62	PHE	CB-CG-CD2	-6.91	115.97	120.80
19	AK	34	ASN	C-N-CA	6.91	138.97	121.70
34	BA	42	A	C4-N9-C1'	-6.91	113.86	126.30
34	BA	300	C	O3'-P-O5'	-6.91	90.88	104.00
34	BA	558	C	OP2-P-O3'	6.91	120.40	105.20
34	BA	1433	U	P-O5'-C5'	-6.91	109.85	120.90
35	BB	713	U	C6-N1-C1'	6.91	130.87	121.20
38	BE	27	A	P-O5'-C5'	-6.91	109.85	120.90
34	BA	185	A	C5-C6-N6	-6.91	118.17	123.70
37	BD	98	G	C3'-C2'-C1'	-6.91	95.97	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	63	G	C6-C5-N7	-6.91	126.26	130.40
47	BN	207	ALA	CB-CA-C	-6.91	99.74	110.10
85	AA	105	A	O4'-C1'-C2'	6.91	113.82	107.60
3	A2	41	ARG	NE-CZ-NH2	6.91	123.75	120.30
34	BA	123	C	N1-C2-O2	-6.91	114.76	118.90
34	BA	306	G	C8-N9-C1'	6.91	135.98	127.00
34	BA	1234	U	C3'-C2'-C1'	-6.91	95.98	101.50
47	BN	205	ARG	NE-CZ-NH1	6.91	123.75	120.30
85	AA	31	C	C3'-C2'-C1'	-6.91	95.98	101.50
85	AA	617	C	C2'-C3'-O3'	6.91	124.75	113.70
6	A5	61	ASP	N-CA-CB	-6.90	98.17	110.60
13	AE	54	ILE	C-N-CA	6.90	136.80	122.30
34	BA	13	U	P-O3'-C3'	-6.90	111.42	119.70
34	BA	1490	U	O4'-C1'-C2'	6.90	113.81	107.60
35	BB	20	U	C2-N3-C4	-6.90	122.86	127.00
35	BB	830	G	O4'-C4'-C3'	-6.90	97.10	104.00
64	Be	174	ARG	NE-CZ-NH1	6.90	123.75	120.30
85	AA	1358	A	C1'-O4'-C4'	-6.90	104.38	109.90
34	BA	625	U	C4'-C3'-C2'	-6.90	95.70	102.60
34	BA	1439	C	O4'-C1'-N1	6.90	113.72	108.20
34	BA	1723	U	O5'-C5'-C4'	6.90	124.81	111.70
34	BA	1845	G	N1-C2-N2	6.90	122.41	116.20
35	BB	38	C	N3-C2-O2	-6.90	117.07	121.90
35	BB	434	A	N1-C6-N6	6.90	122.74	118.60
35	BB	578	G	C6-N1-C2	-6.90	120.96	125.10
35	BB	880	G	P-O3'-C3'	-6.90	111.42	119.70
35	BB	1047	C	N3-C2-O2	-6.90	117.07	121.90
35	BB	1199	A	O3'-P-O5'	-6.90	90.89	104.00
58	BY	64	ARG	CA-CB-CG	6.90	128.59	113.40
85	AA	76	G	C3'-C2'-C1'	-6.90	95.98	101.50
85	AA	261	U	C2-N1-C1'	-6.90	109.42	117.70
85	AA	537	G	C5-C6-O6	-6.90	124.46	128.60
85	AA	1003	G	C8-N9-C1'	6.90	135.97	127.00
29	AV	5	ARG	NE-CZ-NH1	6.90	123.75	120.30
34	BA	18	G	C5-C6-N1	6.90	114.95	111.50
34	BA	765	U	C3'-C2'-C1'	6.90	107.02	101.50
34	BA	1685	C	C2-N1-C1'	-6.90	111.21	118.80
35	BB	817	C	C1'-O4'-C4'	-6.90	104.38	109.90
35	BB	824	C	N1-C1'-C2'	-6.90	104.41	112.00
35	BB	960	C	O4'-C1'-N1	6.90	113.72	108.20
35	BB	1257	A	N1-C6-N6	6.90	122.74	118.60
40	BG	130	G	P-O3'-C3'	-6.90	111.42	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	98	U	N1-C1'-C2'	-6.90	104.41	112.00
85	AA	607	U	C3'-C2'-C1'	-6.90	95.98	101.50
85	AA	986	U	C6-N1-C2	-6.90	116.86	121.00
34	BA	367	G	C8-N9-C1'	-6.90	118.03	127.00
34	BA	934	G	C4-N9-C1'	-6.90	117.53	126.50
58	BY	19	ARG	NE-CZ-NH1	6.90	123.75	120.30
9	A8	33	ARG	NE-CZ-NH2	-6.90	116.85	120.30
34	BA	162	G	N3-C4-N9	-6.90	121.86	126.00
34	BA	592	G	O3'-P-O5'	6.90	117.11	104.00
34	BA	1087	A	O4'-C1'-N9	6.90	113.72	108.20
35	BB	134	G	N3-C2-N2	6.90	124.73	119.90
35	BB	758	A	C4'-C3'-C2'	-6.90	95.70	102.60
35	BB	1369	A	C5'-C4'-O4'	-6.90	100.82	109.10
38	BE	156	C	O4'-C1'-N1	6.90	113.72	108.20
38	BE	171	U	C5-C6-N1	-6.90	119.25	122.70
40	BG	24	A	C5-C6-N6	6.90	129.22	123.70
85	AA	161	A	C2-N3-C4	-6.90	107.15	110.60
85	AA	726	U	C5'-C4'-C3'	-6.90	104.96	116.00
85	AA	831	C	C3'-C2'-C1'	-6.90	95.98	101.50
85	AA	1204	A	N9-C4-C5	6.90	108.56	105.80
21	AM	143	ARG	NE-CZ-NH2	-6.90	116.85	120.30
25	AR	17	TYR	CB-CG-CD1	6.90	125.14	121.00
34	BA	25	C	C6-N1-C2	-6.90	117.54	120.30
34	BA	258	C	C3'-C2'-C1'	-6.90	95.98	101.50
34	BA	467	A	N1-C6-N6	6.90	122.74	118.60
35	BB	412	A	C8-N9-C4	6.90	108.56	105.80
85	AA	1645	G	C8-N9-C1'	6.90	135.96	127.00
34	BA	565	U	O4'-C1'-N1	6.89	113.72	108.20
34	BA	765	U	N3-C2-O2	-6.89	117.37	122.20
35	BB	781	U	C5'-C4'-C3'	6.89	127.03	116.00
36	BC	108	A	N1-C6-N6	-6.89	114.46	118.60
38	BE	51	C	C2-N3-C4	-6.89	116.45	119.90
41	BH	109	G	C5'-C4'-C3'	-6.89	104.97	116.00
85	AA	2117	U	C4-C5-C6	-6.89	115.56	119.70
34	BA	730	C	C1'-O4'-C4'	-6.89	104.39	109.90
34	BA	936	A	O5'-P-OP2	-6.89	99.50	105.70
34	BA	1038	U	O4'-C1'-N1	6.89	113.71	108.20
34	BA	1178	U	P-O3'-C3'	-6.89	111.43	119.70
34	BA	1728	G	C8-N9-C1'	-6.89	118.04	127.00
72	Bm	103	ARG	NE-CZ-NH1	6.89	123.75	120.30
85	AA	141	A	O4'-C1'-N9	6.89	113.71	108.20
85	AA	1232	U	P-O5'-C5'	6.89	131.93	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1346	C	O4'-C1'-N1	6.89	113.71	108.20
85	AA	1928	A	P-O3'-C3'	-6.89	111.43	119.70
35	BB	858	U	P-O5'-C5'	6.89	131.93	120.90
35	BB	1233	U	O4'-C1'-N1	6.89	113.71	108.20
85	AA	551	C	O4'-C1'-N1	6.89	113.71	108.20
8	A7	187	ARG	CG-CD-NE	-6.89	97.33	111.80
34	BA	519	G	C5'-C4'-O4'	6.89	117.37	109.10
34	BA	890	G	C4-N9-C1'	-6.89	117.54	126.50
34	BA	1183	U	P-O3'-C3'	-6.89	111.43	119.70
34	BA	1564	A	P-O5'-C5'	-6.89	109.88	120.90
34	BA	1653	G	O4'-C1'-C2'	6.89	113.80	107.60
35	BB	567	G	N1-C6-O6	-6.89	115.77	119.90
35	BB	1003	G	C1'-O4'-C4'	-6.89	104.39	109.90
35	BB	1099	U	C4'-C3'-C2'	-6.89	95.71	102.60
35	BB	1223	A	N1-C2-N3	-6.89	125.86	129.30
36	BC	26	U	O4'-C1'-N1	-6.89	102.69	108.20
85	AA	232	U	O4'-C1'-N1	6.89	113.71	108.20
85	AA	2129	U	O4'-C4'-C3'	-6.89	97.11	104.00
35	BB	783	U	P-O3'-C3'	6.89	127.97	119.70
35	BB	969	C	C6-N1-C2	-6.89	117.55	120.30
36	BC	70	C	C1'-O4'-C4'	-6.89	104.39	109.90
34	BA	1127	U	P-O5'-C5'	6.89	131.92	120.90
34	BA	1277	G	C5'-C4'-C3'	-6.89	104.98	116.00
34	BA	1540	C	N1-C2-O2	-6.89	114.77	118.90
35	BB	347	G	N1-C6-O6	6.89	124.03	119.90
36	BC	91	G	N9-C1'-C2'	-6.89	104.42	112.00
85	AA	1368	G	N3-C4-C5	-6.89	125.16	128.60
85	AA	1440	C	O3'-P-O5'	6.89	117.08	104.00
85	AA	1457	C	O3'-P-O5'	6.89	117.08	104.00
85	AA	1683	U	O4'-C1'-N1	6.89	113.71	108.20
85	AA	1731	G	C5-C6-N1	6.89	114.94	111.50
85	AA	2141	G	N1-C2-N3	-6.89	119.77	123.90
2	A1	241	GLY	N-CA-C	6.88	130.31	113.10
34	BA	487	A	P-O5'-C5'	6.88	131.91	120.90
34	BA	793	A	C5'-C4'-C3'	-6.88	104.98	116.00
34	BA	965	A	C3'-C2'-C1'	-6.88	95.99	101.50
34	BA	1695	G	N3-C2-N2	6.88	124.72	119.90
35	BB	831	C	C3'-C2'-C1'	-6.88	95.99	101.50
35	BB	970	C	O3'-P-O5'	6.88	117.08	104.00
35	BB	1410	G	P-O3'-C3'	-6.88	111.44	119.70
36	BC	123	G	N3-C2-N2	-6.88	115.08	119.90
40	BG	25	G	C8-N9-C1'	6.88	135.95	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
73	Bn	28	HIS	N-CA-CB	6.88	122.99	110.60
85	AA	2152	C	C5'-C4'-C3'	-6.88	104.98	116.00
35	BB	1252	G	C8-N9-C4	6.88	109.15	106.40
40	BG	43	U	C2-N3-C4	-6.88	122.87	127.00
40	BG	172	C	C5-C6-N1	-6.88	117.56	121.00
85	AA	240	A	C4'-C3'-C2'	-6.88	95.72	102.60
85	AA	372	U	P-O3'-C3'	-6.88	111.44	119.70
85	AA	1151	G	C5'-C4'-C3'	6.88	127.01	116.00
85	AA	1860	A	P-O5'-C5'	6.88	131.91	120.90
85	AA	1906	C	O4'-C1'-N1	6.88	113.71	108.20
15	AG	129	TYR	CA-CB-CG	-6.88	100.33	113.40
34	BA	444	A	N1-C6-N6	6.88	122.73	118.60
34	BA	930	A	N9-C1'-C2'	-6.88	104.43	112.00
34	BA	1311	G	N1-C2-N2	-6.88	110.01	116.20
35	BB	654	C	N1-C1'-C2'	-6.88	104.43	112.00
35	BB	1387	C	N3-C2-O2	-6.88	117.08	121.90
36	BC	153	C	C4'-C3'-C2'	6.88	109.48	102.60
37	BD	78	C	P-O5'-C5'	-6.88	109.89	120.90
85	AA	476	C	C3'-C2'-C1'	-6.88	96.00	101.50
85	AA	847	G	C6-N1-C2	-6.88	120.97	125.10
34	BA	399	G	C4-C5-N7	6.88	113.55	110.80
35	BB	1281	G	C8-N9-C4	6.88	109.15	106.40
37	BD	11	A	C5-C6-N1	6.88	121.14	117.70
65	Bf	350	ASN	C-N-CA	6.88	138.90	121.70
85	AA	330	C	OP1-P-OP2	-6.88	109.28	119.60
85	AA	768	C	C5'-C4'-C3'	-6.88	104.99	116.00
85	AA	1948	A	C3'-C2'-C1'	-6.88	96.00	101.50
34	BA	445	C	C3'-C2'-C1'	-6.88	96.00	101.50
34	BA	516	U	OP1-P-O3'	6.88	120.33	105.20
34	BA	747	G	P-O3'-C3'	-6.88	111.45	119.70
34	BA	842	U	C4-C5-C6	-6.88	115.57	119.70
35	BB	63	A	O4'-C1'-C2'	-6.88	98.92	105.80
35	BB	1105	G	O3'-P-O5'	-6.88	90.93	104.00
35	BB	1427	A	C5-C6-N1	6.88	121.14	117.70
35	BB	1497	C	C6-N1-C2	-6.88	117.55	120.30
39	BF	12	U	P-O5'-C5'	-6.88	109.90	120.90
43	BJ	127	ARG	NE-CZ-NH1	6.88	123.74	120.30
83	Bx	81	ARG	NE-CZ-NH1	6.88	123.74	120.30
85	AA	47	A	C5-C6-N1	6.88	121.14	117.70
85	AA	537	G	C1'-O4'-C4'	-6.88	104.40	109.90
85	AA	1215	A	O3'-P-O5'	-6.88	90.93	104.00
85	AA	1464	G	C6-N1-C2	-6.88	120.97	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1513	U	P-O3'-C3'	-6.88	111.45	119.70
85	AA	1668	G	N7-C8-N9	6.88	116.54	113.10
34	BA	139	U	C6-N1-C2	-6.88	116.87	121.00
34	BA	517	A	O5'-C5'-C4'	-6.88	98.63	111.70
34	BA	747	G	N7-C8-N9	6.88	116.54	113.10
34	BA	1123	G	P-O5'-C5'	6.88	131.90	120.90
34	BA	1697	U	C5'-C4'-O4'	-6.88	100.85	109.10
34	BA	255	G	C4-N9-C1'	-6.88	117.56	126.50
34	BA	1746	G	O4'-C1'-N9	6.88	113.70	108.20
38	BE	28	C	C5'-C4'-C3'	-6.88	105.00	116.00
61	Bb	76	ASP	CB-CG-OD1	-6.88	112.11	118.30
85	AA	75	U	C5-C6-N1	6.88	126.14	122.70
85	AA	909	C	C1'-O4'-C4'	-6.88	104.40	109.90
85	AA	1371	C	P-O5'-C5'	6.88	131.90	120.90
34	BA	118	C	O4'-C1'-N1	6.87	113.70	108.20
34	BA	867	C	O5'-P-OP2	6.87	118.95	110.70
34	BA	1541	G	C8-N9-C4	6.87	109.15	106.40
35	BB	815	G	C8-N9-C1'	6.87	135.93	127.00
47	BN	81	SER	N-CA-CB	6.87	120.81	110.50
85	AA	32	U	C1'-O4'-C4'	-6.87	104.40	109.90
23	AP	151	ARG	NE-CZ-NH1	6.87	123.74	120.30
34	BA	363	G	P-O5'-C5'	-6.87	109.91	120.90
34	BA	437	G	P-O3'-C3'	6.87	127.95	119.70
34	BA	1691	G	C5-C6-O6	-6.87	124.48	128.60
38	BE	89	G	C5'-C4'-C3'	6.87	127.00	116.00
39	BF	52	A	P-O3'-C3'	-6.87	111.45	119.70
39	BF	55	A	C5-C6-N6	-6.87	118.20	123.70
40	BG	9	G	N3-C2-N2	-6.87	115.09	119.90
85	AA	773	G	C3'-C2'-C1'	-6.87	96.00	101.50
85	AA	1955	U	C5'-C4'-C3'	-6.87	105.00	116.00
34	BA	371	U	O4'-C1'-N1	6.87	113.70	108.20
35	BB	1014	U	O4'-C1'-N1	6.87	113.70	108.20
34	BA	306	G	C5-C6-O6	6.87	132.72	128.60
34	BA	1011	G	O5'-C5'-C4'	-6.87	98.65	111.70
34	BA	1505	G	P-O5'-C5'	-6.87	109.91	120.90
35	BB	128	C	N3-C2-O2	-6.87	117.09	121.90
35	BB	135	C	C6-N1-C1'	6.87	129.04	120.80
35	BB	703	U	O5'-C5'-C4'	-6.87	98.65	111.70
35	BB	801	G	O3'-P-O5'	-6.87	90.95	104.00
35	BB	1474	A	P-O3'-C3'	6.87	127.94	119.70
38	BE	149	A	C5-C6-N1	-6.87	114.27	117.70
39	BF	43	U	C1'-O4'-C4'	-6.87	104.41	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	12	U	N3-C4-O4	6.87	124.21	119.40
41	BH	103	C	O4'-C4'-C3'	-6.87	97.13	104.00
53	BT	121	ARG	NE-CZ-NH2	-6.87	116.86	120.30
85	AA	552	C	N3-C4-N4	6.87	122.81	118.00
85	AA	1103	A	P-O5'-C5'	6.87	131.89	120.90
85	AA	1483	A	O4'-C1'-N9	6.87	113.69	108.20
85	AA	2131	C	O4'-C1'-N1	6.87	113.69	108.20
34	BA	8	G	P-O3'-C3'	-6.87	111.46	119.70
34	BA	165	C	C6-N1-C2	-6.87	117.55	120.30
34	BA	900	A	P-O5'-C5'	-6.87	109.91	120.90
35	BB	561	C	C4'-C3'-C2'	-6.87	95.73	102.60
35	BB	1346	A	P-O5'-C5'	6.87	131.89	120.90
36	BC	33	U	C5-C4-O4	-6.87	121.78	125.90
40	BG	128	U	C5-C6-N1	-6.87	119.27	122.70
85	AA	320	U	O4'-C1'-N1	6.87	113.69	108.20
85	AA	943	U	C2-N3-C4	-6.87	122.88	127.00
85	AA	1136	A	C5'-C4'-C3'	6.87	126.99	116.00
22	AO	95	ARG	NE-CZ-NH2	-6.87	116.87	120.30
34	BA	94	G	P-O3'-C3'	-6.87	111.46	119.70
35	BB	662	G	C8-N9-C4	6.87	109.15	106.40
35	BB	801	G	N9-C1'-C2'	-6.87	104.45	112.00
35	BB	825	U	O4'-C4'-C3'	-6.87	97.13	104.00
36	BC	141	C	C2-N3-C4	-6.87	116.47	119.90
39	BF	11	C	O4'-C4'-C3'	-6.87	97.14	104.00
39	BF	52	A	O4'-C1'-N9	6.87	113.69	108.20
40	BG	112	C	C5'-C4'-O4'	6.87	117.34	109.10
41	BH	84	A	OP1-P-OP2	-6.87	109.30	119.60
61	Bb	88	MET	CG-SD-CE	-6.87	89.22	100.20
69	Bj	10	ARG	NE-CZ-NH2	-6.87	116.87	120.30
85	AA	633	C	C5'-C4'-O4'	6.87	117.34	109.10
85	AA	1876	U	O4'-C1'-N1	6.87	113.69	108.20
34	BA	583	G	C5'-C4'-C3'	-6.86	105.02	116.00
34	BA	721	A	O3'-P-O5'	-6.86	90.96	104.00
34	BA	1256	A	C3'-C2'-C1'	-6.86	96.01	101.50
34	BA	1280	A	C4'-C3'-C2'	6.86	109.46	102.60
35	BB	676	G	C6-N1-C2	-6.86	120.98	125.10
36	BC	75	G	P-O5'-C5'	6.86	131.88	120.90
40	BG	38	A	C4-N9-C1'	-6.86	113.95	126.30
85	AA	436	G	C8-N9-C4	6.86	109.14	106.40
85	AA	1921	G	C5-N7-C8	6.86	107.73	104.30
34	BA	12	G	C4-C5-C6	-6.86	114.68	118.80
35	BB	1071	G	C5-C6-N1	6.86	114.93	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	716	G	C4-N9-C1'	-6.86	117.58	126.50
34	BA	297	A	C5'-C4'-C3'	-6.86	105.02	116.00
35	BB	1443	C	P-O3'-C3'	-6.86	111.47	119.70
36	BC	6	G	C6-N1-C2	-6.86	120.98	125.10
37	BD	31	U	P-O3'-C3'	-6.86	111.47	119.70
85	AA	1004	G	C4-N9-C1'	-6.86	117.58	126.50
85	AA	1855	U	C2'-C3'-O3'	6.86	124.68	113.70
85	AA	2150	G	C6-N1-C2	-6.86	120.98	125.10
85	AA	2230	U	O3'-P-O5'	6.86	117.03	104.00
34	BA	1085	G	N3-C4-C5	-6.86	125.17	128.60
45	BL	36	ARG	NE-CZ-NH2	-6.86	116.87	120.30
85	AA	249	C	C5'-C4'-C3'	-6.86	105.03	116.00
85	AA	865	G	C1'-O4'-C4'	-6.86	104.41	109.90
85	AA	1676	G	C4-N9-C1'	-6.86	117.58	126.50
34	BA	650	C	C4'-C3'-C2'	-6.86	95.74	102.60
34	BA	685	C	C2-N1-C1'	6.86	126.34	118.80
34	BA	1043	C	O4'-C1'-N1	6.86	113.69	108.20
34	BA	1442	A	C5-N7-C8	6.86	107.33	103.90
34	BA	1800	G	C5'-C4'-O4'	6.86	117.33	109.10
35	BB	352	C	O4'-C1'-N1	6.86	113.69	108.20
59	BZ	13	ARG	NE-CZ-NH1	6.86	123.73	120.30
62	Bc	18	PHE	N-CA-CB	-6.86	98.25	110.60
85	AA	245	A	O4'-C1'-N9	6.86	113.69	108.20
85	AA	1339	C	C4'-C3'-C2'	-6.86	95.74	102.60
34	BA	919	A	O5'-C5'-C4'	-6.86	98.67	111.70
34	BA	1676	A	O4'-C1'-N9	6.86	113.68	108.20
35	BB	280	C	O4'-C1'-N1	6.86	113.68	108.20
35	BB	731	U	O4'-C1'-N1	6.86	113.68	108.20
36	BC	124	A	N3-C4-C5	-6.86	122.00	126.80
85	AA	710	A	C8-N9-C1'	-6.86	115.36	127.70
85	AA	1118	U	O4'-C1'-N1	6.86	113.68	108.20
85	AA	1816	C	P-O3'-C3'	6.86	127.93	119.70
34	BA	53	G	C5-C6-O6	-6.85	124.49	128.60
34	BA	1718	C	C5-C4-N4	-6.85	115.40	120.20
35	BB	14	C	O4'-C1'-N1	6.85	113.68	108.20
50	BQ	90	ARG	NE-CZ-NH1	6.85	123.73	120.30
2	A1	66	LEU	N-CA-C	6.85	129.50	111.00
34	BA	689	C	N3-C2-O2	-6.85	117.10	121.90
34	BA	894	G	N3-C2-N2	6.85	124.70	119.90
34	BA	934	G	C6-N1-C2	-6.85	120.99	125.10
34	BA	1797	A	C1'-O4'-C4'	-6.85	104.42	109.90
35	BB	311	C	O4'-C1'-N1	6.85	113.68	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	831	C	O3'-P-O5'	-6.85	90.98	104.00
35	BB	1514	G	C8-N9-C4	-6.85	103.66	106.40
39	BF	68	C	P-O3'-C3'	-6.85	111.48	119.70
61	Bb	131	ASP	N-CA-CB	-6.85	98.27	110.60
82	Bw	124	ARG	NE-CZ-NH2	6.85	123.73	120.30
85	AA	611	G	C2-N3-C4	6.85	115.33	111.90
85	AA	945	A	C5'-C4'-O4'	6.85	117.32	109.10
85	AA	1373	U	P-O3'-C3'	6.85	127.92	119.70
40	BG	10	U	N1-C2-N3	6.85	119.01	114.90
41	BH	5	G	P-O3'-C3'	-6.85	111.48	119.70
85	AA	182	C	C5'-C4'-O4'	6.85	117.32	109.10
85	AA	849	A	P-O3'-C3'	-6.85	111.48	119.70
34	BA	470	C	C5-C4-N4	6.85	125.00	120.20
34	BA	554	A	P-O3'-C3'	6.85	127.92	119.70
34	BA	584	A	N1-C6-N6	-6.85	114.49	118.60
34	BA	920	U	C2-N3-C4	-6.85	122.89	127.00
34	BA	1325	G	C6-N1-C2	-6.85	120.99	125.10
34	BA	1471	U	O4'-C1'-N1	6.85	113.68	108.20
34	BA	1611	A	C8-N9-C1'	6.85	140.03	127.70
34	BA	1842	U	C1'-O4'-C4'	-6.85	104.42	109.90
35	BB	440	U	O4'-C1'-N1	6.85	113.68	108.20
35	BB	642	G	C8-N9-C1'	-6.85	118.10	127.00
38	BE	49	A	P-O5'-C5'	-6.85	109.94	120.90
38	BE	74	U	O4'-C1'-N1	6.85	113.68	108.20
85	AA	44	C	N3-C4-N4	6.85	122.80	118.00
85	AA	577	U	P-O5'-C5'	6.85	131.86	120.90
85	AA	2009	A	C3'-C2'-C1'	-6.85	96.02	101.50
85	AA	2075	C	P-O3'-C3'	-6.85	111.48	119.70
34	BA	189	G	C8-N9-C4	-6.85	103.66	106.40
34	BA	926	A	C8-N9-C4	6.85	108.54	105.80
35	BB	367	C	C5-C6-N1	6.85	124.42	121.00
35	BB	974	C	C2-N1-C1'	6.85	126.33	118.80
38	BE	127	G	P-O3'-C3'	6.85	127.92	119.70
65	Bf	240	ASN	N-CA-CB	6.85	122.93	110.60
85	AA	725	G	O4'-C1'-N9	6.85	113.68	108.20
85	AA	905	C	C5'-C4'-O4'	6.85	117.32	109.10
2	A1	100	TYR	CB-CA-C	-6.85	96.71	110.40
35	BB	1001	G	C4'-C3'-C2'	-6.85	95.75	102.60
41	BH	16	A	C5-N7-C8	-6.85	100.48	103.90
41	BH	33	G	C8-N9-C1'	6.85	135.90	127.00
3	A2	27	TYR	CB-CG-CD1	6.84	125.11	121.00
34	BA	155	U	P-O3'-C3'	-6.84	111.49	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	214	A	O4'-C1'-N9	6.84	113.67	108.20
34	BA	790	G	P-O5'-C5'	-6.84	109.95	120.90
35	BB	569	G	N3-C2-N2	6.84	124.69	119.90
35	BB	601	U	C6-N1-C2	-6.84	116.89	121.00
35	BB	710	A	N1-C6-N6	-6.84	114.49	118.60
35	BB	970	C	C1'-O4'-C4'	-6.84	104.42	109.90
37	BD	77	A	C1'-O4'-C4'	-6.84	104.42	109.90
40	BG	164	U	P-O5'-C5'	6.84	131.85	120.90
40	BG	166	C	C6-N1-C1'	6.84	129.01	120.80
48	BO	148	TYR	CB-CG-CD1	6.84	125.11	121.00
85	AA	54	C	C1'-O4'-C4'	-6.84	104.42	109.90
85	AA	517	A	N9-C1'-C2'	-6.84	104.47	112.00
85	AA	822	U	C6-N1-C2	-6.84	116.89	121.00
85	AA	923	A	O4'-C4'-C3'	-6.84	97.16	104.00
85	AA	1135	U	C1'-O4'-C4'	-6.84	104.42	109.90
85	AA	1814	U	O4'-C1'-N1	6.84	113.67	108.20
86	AB	11	C	C6-N1-C2	-6.84	117.56	120.30
34	BA	192	G	N3-C2-N2	6.84	124.69	119.90
34	BA	1527	G	P-O5'-C5'	-6.84	109.95	120.90
35	BB	1038	G	N1-C6-O6	6.84	124.01	119.90
85	AA	1505	G	C5-C6-N1	6.84	114.92	111.50
8	A7	36	ARG	NE-CZ-NH1	6.84	123.72	120.30
34	BA	124	G	C5-C6-O6	-6.84	124.50	128.60
34	BA	465	A	P-O5'-C5'	-6.84	109.95	120.90
34	BA	785	G	C1'-O4'-C4'	-6.84	104.43	109.90
34	BA	897	U	C3'-C2'-C1'	-6.84	96.03	101.50
34	BA	1011	G	C6-N1-C2	-6.84	121.00	125.10
35	BB	545	C	N1-C1'-C2'	6.84	122.89	114.00
35	BB	623	A	C8-N9-C1'	6.84	140.01	127.70
85	AA	718	C	O4'-C1'-N1	6.84	113.67	108.20
34	BA	217	C	C2-N1-C1'	6.84	126.32	118.80
34	BA	696	A	C5-C6-N6	-6.84	118.23	123.70
34	BA	1325	G	C3'-C2'-C1'	-6.84	96.03	101.50
34	BA	1503	U	C2-N1-C1'	-6.84	109.49	117.70
35	BB	1064	U	C6-N1-C1'	-6.84	111.63	121.20
36	BC	3	C	O5'-C5'-C4'	-6.84	98.70	111.70
77	Br	158	ARG	NE-CZ-NH2	-6.84	116.88	120.30
85	AA	1014	U	C5'-C4'-O4'	6.84	117.31	109.10
85	AA	1105	G	C8-N9-C1'	-6.84	118.11	127.00
85	AA	1437	G	C5'-C4'-C3'	6.84	126.94	116.00
85	AA	1932	C	C2-N1-C1'	6.84	126.32	118.80
85	AA	2148	C	C1'-O4'-C4'	-6.84	104.43	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	24	C	O4'-C1'-N1	6.84	113.67	108.20
35	BB	684	U	N1-C2-N3	6.84	119.00	114.90
37	BD	77	A	N1-C2-N3	-6.84	125.88	129.30
85	AA	156	G	N3-C2-N2	6.84	124.69	119.90
85	AA	557	G	C8-N9-C1'	6.84	135.89	127.00
85	AA	915	G	N1-C6-O6	6.84	124.00	119.90
85	AA	1427	A	C5'-C4'-C3'	6.84	126.94	116.00
85	AA	1499	G	C5-C6-O6	-6.84	124.50	128.60
85	AA	1681	G	C5-C6-O6	-6.84	124.50	128.60
85	AA	2162	G	O4'-C1'-N9	6.84	113.67	108.20
34	BA	27	G	C3'-C2'-C1'	-6.84	96.03	101.50
34	BA	160	G	C5'-C4'-O4'	6.84	117.30	109.10
34	BA	680	C	O4'-C4'-C3'	-6.84	97.16	104.00
34	BA	1476	G	C1'-O4'-C4'	-6.84	104.43	109.90
34	BA	1565	U	O4'-C4'-C3'	-6.84	97.16	104.00
38	BE	163	A	C6-N1-C2	6.84	122.70	118.60
40	BG	34	A	N7-C8-N9	-6.84	110.38	113.80
77	Br	289	ARG	NE-CZ-NH1	6.84	123.72	120.30
85	AA	336	C	C2-N3-C4	-6.84	116.48	119.90
85	AA	1203	G	N1-C6-O6	6.84	124.00	119.90
34	BA	1256	A	C1'-O4'-C4'	-6.83	104.43	109.90
35	BB	834	U	O5'-C5'-C4'	6.83	124.69	111.70
35	BB	1370	G	C5-C6-O6	6.83	132.70	128.60
36	BC	17	U	C4-C5-C6	-6.83	115.60	119.70
37	BD	78	C	O3'-P-O5'	-6.83	91.01	104.00
85	AA	58	C	O4'-C1'-N1	6.83	113.67	108.20
85	AA	156	G	C5'-C4'-C3'	-6.83	105.06	116.00
85	AA	534	A	C4-C5-C6	-6.83	113.58	117.00
85	AA	769	C	C2-N3-C4	-6.83	116.48	119.90
85	AA	830	A	N9-C1'-C2'	-6.83	104.48	112.00
85	AA	1295	G	P-O3'-C3'	-6.83	111.50	119.70
34	BA	267	G	C6-N1-C2	-6.83	121.00	125.10
34	BA	291	C	P-O5'-C5'	-6.83	109.97	120.90
34	BA	557	U	C3'-C2'-O2'	6.83	133.12	113.30
34	BA	1719	G	P-O3'-C3'	-6.83	111.50	119.70
35	BB	15	C	N3-C2-O2	-6.83	117.12	121.90
35	BB	661	G	C8-N9-C1'	6.83	135.88	127.00
35	BB	1304	U	C5'-C4'-C3'	-6.83	105.07	116.00
42	BI	29	LEU	CB-CA-C	-6.83	97.22	110.20
85	AA	167	A	C3'-C2'-C1'	-6.83	96.03	101.50
85	AA	625	G	C5-C6-O6	-6.83	124.50	128.60
85	AA	799	G	N1-C6-O6	6.83	124.00	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	168	U	C2-N1-C1'	-6.83	109.50	117.70
34	BA	349	G	C5'-C4'-C3'	6.83	126.93	116.00
34	BA	600	G	O4'-C1'-N9	6.83	113.67	108.20
34	BA	1599	A	C1'-O4'-C4'	-6.83	104.44	109.90
35	BB	259	U	O4'-C1'-N1	6.83	113.67	108.20
35	BB	261	C	O3'-P-O5'	-6.83	91.02	104.00
38	BE	129	G	C6-C5-N7	-6.83	126.30	130.40
41	BH	76	G	O4'-C1'-N9	6.83	113.67	108.20
41	BH	84	A	C2-N3-C4	6.83	114.02	110.60
85	AA	1211	C	O3'-P-O5'	-6.83	91.02	104.00
85	AA	1265	C	C6-N1-C2	-6.83	117.57	120.30
85	AA	1809	G	O4'-C1'-N9	6.83	113.67	108.20
2	A1	96	PHE	N-CA-CB	6.83	122.89	110.60
6	A5	78	ILE	CB-CA-C	-6.83	97.94	111.60
34	BA	1202	G	C5-C6-N1	6.83	114.92	111.50
34	BA	1540	C	C5'-C4'-C3'	-6.83	105.07	116.00
35	BB	972	C	O4'-C1'-N1	6.83	113.66	108.20
85	AA	160	A	P-O3'-C3'	-6.83	111.50	119.70
85	AA	463	G	C5'-C4'-C3'	-6.83	105.07	116.00
34	BA	278	U	C5'-C4'-O4'	6.83	117.29	109.10
35	BB	1082	A	O3'-P-O5'	6.83	116.97	104.00
85	AA	492	C	C6-N1-C1'	6.83	128.99	120.80
2	A1	186	ARG	NE-CZ-NH2	-6.83	116.89	120.30
34	BA	610	A	O4'-C4'-C3'	-6.83	97.17	104.00
35	BB	844	G	C4-N9-C1'	-6.83	117.62	126.50
35	BB	1120	A	C1'-O4'-C4'	-6.83	104.44	109.90
77	Br	313	TYR	CB-CG-CD1	6.83	125.10	121.00
85	AA	8	U	N3-C4-O4	6.83	124.18	119.40
35	BB	70	A	P-O3'-C3'	-6.83	111.51	119.70
35	BB	1326	U	C4'-C3'-C2'	6.83	109.42	102.60
36	BC	45	C	O4'-C1'-N1	6.83	113.66	108.20
85	AA	172	A	N9-C1'-C2'	-6.83	104.49	112.00
85	AA	1163	G	C8-N9-C1'	6.83	135.87	127.00
85	AA	2044	A	C5'-C4'-O4'	6.83	117.29	109.10
85	AA	2134	U	P-O3'-C3'	-6.83	111.51	119.70
85	AA	2150	G	C3'-C2'-C1'	-6.83	96.04	101.50
22	AO	79	ARG	NE-CZ-NH2	-6.82	116.89	120.30
27	AT	111	ARG	NE-CZ-NH1	-6.82	116.89	120.30
34	BA	438	A	C5-C6-N6	6.82	129.16	123.70
35	BB	1485	G	C8-N9-C4	-6.82	103.67	106.40
41	BH	29	G	P-O3'-C3'	-6.82	111.51	119.70
41	BH	68	G	O4'-C1'-N9	6.82	113.66	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	100	A	O5'-P-OP1	6.82	118.89	110.70
85	AA	330	C	C4'-C3'-C2'	-6.82	95.78	102.60
85	AA	334	A	C1'-O4'-C4'	-6.82	104.44	109.90
85	AA	605	A	P-O3'-C3'	-6.82	111.51	119.70
85	AA	928	U	C5'-C4'-C3'	6.82	126.92	116.00
35	BB	1348	C	O4'-C1'-N1	6.82	113.66	108.20
85	AA	794	A	C2-N3-C4	-6.82	107.19	110.60
85	AA	898	A	P-O3'-C3'	6.82	127.89	119.70
34	BA	816	G	C5'-C4'-C3'	6.82	126.91	116.00
34	BA	1567	G	C5'-C4'-O4'	-6.82	100.92	109.10
35	BB	23	U	O4'-C1'-N1	6.82	113.66	108.20
35	BB	1262	A	C5-C6-N6	-6.82	118.24	123.70
85	AA	86	G	C4-N9-C1'	-6.82	117.63	126.50
85	AA	1125	G	O4'-C1'-N9	6.82	113.66	108.20
85	AA	1174	G	N1-C6-O6	6.82	123.99	119.90
85	AA	1213	U	P-O3'-C3'	6.82	127.88	119.70
85	AA	1258	U	O4'-C1'-N1	6.82	113.66	108.20
85	AA	1361	A	O3'-P-O5'	-6.82	91.04	104.00
85	AA	2196	G	C5-C6-O6	6.82	132.69	128.60
85	AA	2245	A	P-O5'-C5'	6.82	131.81	120.90
34	BA	487	A	C3'-C2'-C1'	-6.82	96.05	101.50
34	BA	520	G	C6-C5-N7	-6.82	126.31	130.40
34	BA	701	G	C5-C6-O6	-6.82	124.51	128.60
36	BC	147	G	N3-C2-N2	6.82	124.67	119.90
85	AA	2030	U	O3'-P-O5'	-6.82	91.04	104.00
85	AA	2033	C	C1'-O4'-C4'	-6.82	104.44	109.90
34	BA	231	U	C6-N1-C2	-6.82	116.91	121.00
34	BA	316	G	C8-N9-C1'	6.82	135.86	127.00
34	BA	1004	U	C5'-C4'-C3'	6.82	126.91	116.00
34	BA	1017	C	N1-C2-O2	6.82	122.99	118.90
34	BA	1101	A	C5'-C4'-O4'	6.82	117.28	109.10
34	BA	1432	C	C2-N3-C4	-6.82	116.49	119.90
35	BB	5	A	C2-N3-C4	-6.82	107.19	110.60
35	BB	1489	A	O3'-P-O5'	6.82	116.95	104.00
36	BC	108	A	C5'-C4'-C3'	-6.82	105.09	116.00
44	BK	119	TYR	CB-CG-CD2	-6.82	116.91	121.00
85	AA	119	G	C5'-C4'-C3'	6.82	126.91	116.00
85	AA	763	U	C2-N1-C1'	-6.82	109.52	117.70
85	AA	1242	A	C8-N9-C4	-6.82	103.07	105.80
85	AA	1644	G	N3-C4-C5	-6.82	125.19	128.60
1	A0	168	MET	CG-SD-CE	-6.82	89.30	100.20
2	A1	38	CYS	CA-CB-SG	6.82	126.27	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	269	G	C5'-C4'-C3'	-6.82	105.10	116.00
34	BA	652	C	C5'-C4'-C3'	-6.82	105.10	116.00
34	BA	1038	U	N1-C1'-C2'	-6.82	104.50	112.00
34	BA	1741	G	N3-C2-N2	6.82	124.67	119.90
35	BB	454	U	C6-N1-C1'	6.82	130.74	121.20
35	BB	490	G	C6-N1-C2	-6.82	121.01	125.10
38	BE	8	G	N1-C2-N2	-6.82	110.07	116.20
54	BU	15	PHE	CB-CG-CD2	-6.82	116.03	120.80
85	AA	210	G	C4-C5-C6	-6.82	114.71	118.80
85	AA	277	G	C5-C6-O6	-6.82	124.51	128.60
85	AA	977	U	C1'-O4'-C4'	-6.82	104.45	109.90
85	AA	1451	U	C2-N1-C1'	6.82	125.88	117.70
85	AA	2163	G	C8-N9-C4	-6.82	103.67	106.40
85	AA	2199	G	C3'-C2'-C1'	-6.82	96.05	101.50
34	BA	195	G	C4'-C3'-C2'	6.81	109.41	102.60
85	AA	1197	U	N3-C4-O4	-6.81	114.63	119.40
85	AA	1879	U	C4'-C3'-C2'	6.81	109.41	102.60
85	AA	1984	A	C5-C6-N6	-6.81	118.25	123.70
86	AB	2	C	P-O5'-C5'	6.81	131.80	120.90
34	BA	430	A	O4'-C1'-N9	6.81	113.65	108.20
35	BB	888	U	P-O5'-C5'	6.81	131.80	120.90
35	BB	1441	C	C5'-C4'-C3'	-6.81	105.10	116.00
61	Bb	122	LYS	N-CA-C	-6.81	92.61	111.00
85	AA	24	U	C2-N1-C1'	-6.81	109.53	117.70
85	AA	241	U	O4'-C1'-N1	6.81	113.65	108.20
85	AA	902	A	O4'-C1'-C2'	-6.81	98.99	105.80
85	AA	1438	C	C6-N1-C2	-6.81	117.58	120.30
85	AA	2034	G	C6-C5-N7	-6.81	126.31	130.40
85	AA	2200	A	P-O5'-C5'	-6.81	110.00	120.90
34	BA	144	C	C6-N1-C1'	-6.81	112.63	120.80
37	BD	73	U	C2'-C3'-O3'	6.81	124.60	113.70
38	BE	165	U	C2-N3-C4	-6.81	122.91	127.00
85	AA	620	U	P-O5'-C5'	-6.81	110.00	120.90
85	AA	2249	U	O4'-C1'-C2'	-6.81	98.99	105.80
34	BA	112	C	N1-C2-O2	6.81	122.99	118.90
34	BA	330	A	C5-C6-N6	-6.81	118.25	123.70
34	BA	911	G	C8-N9-C1'	6.81	135.85	127.00
34	BA	1008	A	N1-C6-N6	6.81	122.69	118.60
34	BA	1172	C	C2-N1-C1'	-6.81	111.31	118.80
34	BA	1487	U	C2-N1-C1'	-6.81	109.53	117.70
34	BA	1707	C	C6-N1-C2	-6.81	117.58	120.30
34	BA	1737	A	C3'-C2'-C1'	-6.81	96.05	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	380	G	C6-N1-C2	-6.81	121.01	125.10
35	BB	694	C	C4'-C3'-C2'	6.81	109.41	102.60
35	BB	1135	U	C5'-C4'-O4'	6.81	117.27	109.10
35	BB	1479	C	C1'-O4'-C4'	-6.81	104.45	109.90
41	BH	63	G	N7-C8-N9	6.81	116.50	113.10
85	AA	238	C	C2-N1-C1'	6.81	126.29	118.80
85	AA	869	A	C5'-C4'-O4'	6.81	117.27	109.10
85	AA	1540	A	N1-C6-N6	6.81	122.69	118.60
34	BA	21	C	O5'-C5'-C4'	-6.81	98.77	111.70
34	BA	80	U	C5-C6-N1	-6.81	119.30	122.70
34	BA	384	U	N3-C2-O2	-6.81	117.44	122.20
34	BA	943	G	C5-C6-O6	-6.81	124.52	128.60
34	BA	1287	G	C6-N1-C2	-6.81	121.02	125.10
35	BB	1144	A	C6-N1-C2	-6.81	114.52	118.60
35	BB	1282	G	O4'-C1'-N9	6.81	113.65	108.20
38	BE	123	A	N9-C4-C5	-6.81	103.08	105.80
39	BF	56	C	N3-C4-C5	-6.81	119.18	121.90
85	AA	372	U	O4'-C1'-N1	6.81	113.64	108.20
85	AA	553	G	C1'-O4'-C4'	-6.81	104.45	109.90
85	AA	596	A	N1-C6-N6	6.81	122.68	118.60
85	AA	891	G	C8-N9-C1'	-6.81	118.15	127.00
34	BA	447	U	O4'-C1'-N1	6.81	113.64	108.20
34	BA	1692	U	P-O3'-C3'	-6.81	111.53	119.70
38	BE	10	G	N9-C1'-C2'	6.81	122.85	114.00
85	AA	869	A	N1-C2-N3	6.81	132.70	129.30
34	BA	411	C	C2-N1-C1'	6.80	126.29	118.80
34	BA	624	G	C5'-C4'-O4'	6.80	117.27	109.10
34	BA	766	A	C1'-O4'-C4'	-6.80	104.46	109.90
34	BA	1294	C	N3-C4-C5	-6.80	119.18	121.90
34	BA	1670	A	C5-C6-N6	6.80	129.14	123.70
35	BB	27	C	C3'-C2'-C1'	-6.80	96.06	101.50
35	BB	369	A	C5'-C4'-O4'	6.80	117.27	109.10
35	BB	414	C	O4'-C1'-N1	6.80	113.64	108.20
35	BB	1403	G	O4'-C1'-N9	6.80	113.64	108.20
39	BF	17	U	C5-C6-N1	-6.80	119.30	122.70
40	BG	102	G	N3-C4-N9	6.80	130.08	126.00
85	AA	750	A	C4'-C3'-C2'	-6.80	95.80	102.60
85	AA	809	A	N1-C6-N6	6.80	122.68	118.60
34	BA	1738	G	C3'-C2'-C1'	-6.80	96.06	101.50
38	BE	136	G	C1'-O4'-C4'	-6.80	104.46	109.90
4	A3	214	ARG	NE-CZ-NH1	6.80	123.70	120.30
34	BA	76	U	O4'-C1'-N1	6.80	113.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	154	A	P-O5'-C5'	6.80	131.78	120.90
34	BA	764	G	O3'-P-O5'	6.80	116.92	104.00
34	BA	1041	U	N1-C1'-C2'	-6.80	104.52	112.00
34	BA	1189	A	C8-N9-C4	-6.80	103.08	105.80
34	BA	1440	C	C4'-C3'-C2'	-6.80	95.80	102.60
34	BA	1551	G	N9-C1'-C2'	-6.80	104.52	112.00
35	BB	406	A	C3'-C2'-C1'	-6.80	96.06	101.50
35	BB	1030	U	P-O3'-C3'	6.80	127.86	119.70
40	BG	40	G	C1'-O4'-C4'	-6.80	104.46	109.90
40	BG	156	G	C5'-C4'-O4'	6.80	117.26	109.10
85	AA	1227	A	C5'-C4'-C3'	-6.80	105.12	116.00
86	AB	65	G	C4-N9-C1'	6.80	135.34	126.50
34	BA	611	A	C3'-C2'-C1'	-6.80	96.06	101.50
35	BB	893	U	O3'-P-O5'	6.80	116.92	104.00
35	BB	1141	A	P-O3'-C3'	-6.80	111.54	119.70
35	BB	1455	A	N1-C6-N6	6.80	122.68	118.60
37	BD	102	C	C3'-C2'-C1'	-6.80	96.06	101.50
40	BG	65	C	C2-N1-C1'	-6.80	111.32	118.80
85	AA	54	C	C6-N1-C1'	6.80	128.96	120.80
85	AA	1678	U	C3'-C2'-C1'	-6.80	96.06	101.50
85	AA	2099	C	P-O5'-C5'	6.80	131.78	120.90
85	AA	2186	U	C4'-C3'-C2'	-6.80	95.80	102.60
85	AA	2249	U	C5'-C4'-O4'	6.80	117.26	109.10
34	BA	248	G	C6-C5-N7	-6.80	126.32	130.40
35	BB	1317	U	O4'-C1'-N1	6.80	113.64	108.20
38	BE	111	C	P-O5'-C5'	-6.80	110.02	120.90
38	BE	176	G	C4'-C3'-C2'	6.80	109.40	102.60
39	BF	12	U	N1-C1'-C2'	-6.80	104.52	112.00
34	BA	272	A	C3'-C2'-C1'	-6.80	96.06	101.50
34	BA	594	G	C1'-O4'-C4'	-6.80	104.46	109.90
35	BB	425	G	C3'-C2'-C1'	-6.80	96.06	101.50
85	AA	467	U	N1-C2-O2	6.80	127.56	122.80
85	AA	626	G	O3'-P-O5'	-6.80	91.09	104.00
85	AA	877	G	N9-C1'-C2'	-6.80	104.52	112.00
85	AA	1126	G	O4'-C1'-N9	6.80	113.64	108.20
85	AA	1712	A	O4'-C1'-C2'	6.80	113.72	107.60
85	AA	2211	G	C3'-C2'-C1'	-6.80	96.06	101.50
24	AQ	48	ARG	NE-CZ-NH2	-6.79	116.90	120.30
35	BB	941	C	O4'-C1'-N1	6.79	113.64	108.20
35	BB	971	A	C2'-C3'-O3'	6.79	124.57	113.70
38	BE	46	G	O5'-P-OP1	-6.79	99.58	105.70
85	AA	1174	G	C4-N9-C1'	-6.79	117.67	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	445	C	C1'-O4'-C4'	-6.79	104.47	109.90
34	BA	687	G	C5-C6-O6	6.79	132.68	128.60
34	BA	926	A	C4'-C3'-C2'	6.79	109.39	102.60
35	BB	41	A	C5-C6-N1	6.79	121.10	117.70
35	BB	133	G	C5-C6-O6	-6.79	124.52	128.60
35	BB	1205	A	C5'-C4'-C3'	-6.79	105.13	116.00
41	BH	91	G	O4'-C1'-N9	6.79	113.64	108.20
42	BI	111	ARG	NE-CZ-NH2	6.79	123.70	120.30
77	Br	109	ARG	NE-CZ-NH1	6.79	123.70	120.30
80	Bu	253	HIS	CA-CB-CG	-6.79	102.05	113.60
85	AA	31	C	P-O3'-C3'	-6.79	111.55	119.70
85	AA	117	C	O4'-C1'-N1	6.79	113.64	108.20
85	AA	461	G	C4-C5-N7	6.79	113.52	110.80
85	AA	958	C	P-O5'-C5'	-6.79	110.03	120.90
85	AA	1373	U	C1'-O4'-C4'	-6.79	104.47	109.90
24	AQ	65	THR	N-CA-CB	-6.79	97.39	110.30
34	BA	544	U	O4'-C1'-N1	6.79	113.63	108.20
34	BA	684	G	N1-C2-N2	-6.79	110.09	116.20
34	BA	1275	G	C5'-C4'-C3'	-6.79	105.14	116.00
34	BA	1553	G	C4'-C3'-C2'	-6.79	95.81	102.60
34	BA	1787	U	C6-N1-C2	-6.79	116.93	121.00
37	BD	14	C	C2-N1-C1'	-6.79	111.33	118.80
61	Bb	32	ARG	NE-CZ-NH2	-6.79	116.90	120.30
85	AA	537	G	C8-N9-C4	6.79	109.12	106.40
85	AA	555	C	O4'-C1'-N1	6.79	113.63	108.20
85	AA	1471	G	N9-C4-C5	-6.79	102.68	105.40
35	BB	990	G	P-O3'-C3'	6.79	127.85	119.70
36	BC	26	U	N1-C2-O2	-6.79	118.05	122.80
85	AA	975	G	N3-C2-N2	6.79	124.65	119.90
34	BA	21	C	P-O3'-C3'	6.79	127.85	119.70
34	BA	1329	U	P-O3'-C3'	-6.79	111.55	119.70
34	BA	1711	G	C5-C6-N1	6.79	114.89	111.50
34	BA	1719	G	C5-C6-O6	6.79	132.67	128.60
35	BB	1537	C	O4'-C1'-N1	6.79	113.63	108.20
85	AA	523	U	C6-N1-C2	-6.79	116.93	121.00
85	AA	525	C	P-O3'-C3'	-6.79	111.55	119.70
11	AC	201	ASN	CA-CB-CG	-6.79	98.47	113.40
34	BA	906	A	C8-N9-C1'	-6.79	115.48	127.70
41	BH	123	G	O4'-C1'-N9	6.79	113.63	108.20
85	AA	338	G	C4'-C3'-C2'	-6.79	95.81	102.60
85	AA	1146	C	C5-C4-N4	6.79	124.95	120.20
34	BA	202	A	N1-C2-N3	-6.79	125.91	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	203	U	C5'-C4'-C3'	-6.79	105.14	116.00
34	BA	436	U	C4'-C3'-C2'	-6.79	95.81	102.60
34	BA	1622	U	C5'-C4'-O4'	6.79	117.24	109.10
35	BB	1066	G	O4'-C1'-N9	6.79	113.63	108.20
35	BB	1539	C	C6-N1-C1'	6.79	128.94	120.80
36	BC	35	C	C6-N1-C2	-6.79	117.59	120.30
38	BE	140	G	C6-N1-C2	-6.79	121.03	125.10
41	BH	114	G	C8-N9-C4	6.79	109.11	106.40
64	Be	227	ARG	NE-CZ-NH2	6.79	123.69	120.30
85	AA	814	G	N3-C2-N2	-6.79	115.15	119.90
85	AA	1277	C	O3'-P-O5'	6.79	116.89	104.00
85	AA	1448	A	C5-C6-N6	-6.79	118.27	123.70
85	AA	1531	G	C8-N9-C1'	6.79	135.82	127.00
85	AA	1692	U	N1-C2-N3	6.79	118.97	114.90
34	BA	806	U	O4'-C4'-C3'	-6.78	97.22	104.00
34	BA	1460	U	C2-N3-C4	-6.78	122.93	127.00
34	BA	1802	C	O4'-C1'-N1	6.78	113.63	108.20
35	BB	439	G	C5-C6-N1	6.78	114.89	111.50
35	BB	768	A	C4-N9-C1'	-6.78	114.09	126.30
35	BB	1441	C	C1'-O4'-C4'	-6.78	104.47	109.90
38	BE	32	U	C1'-O4'-C4'	6.78	115.33	109.90
38	BE	75	C	C2-N1-C1'	-6.78	111.34	118.80
85	AA	735	G	C5-C6-N1	6.78	114.89	111.50
85	AA	1347	C	O4'-C1'-N1	6.78	113.63	108.20
34	BA	506	U	C4'-C3'-C2'	6.78	109.38	102.60
34	BA	551	U	OP1-P-OP2	-6.78	109.43	119.60
38	BE	104	G	C3'-C2'-C1'	6.78	106.93	101.50
85	AA	327	G	C4'-C3'-C2'	-6.78	95.82	102.60
85	AA	1408	U	O4'-C1'-N1	6.78	113.62	108.20
85	AA	1843	A	P-O5'-C5'	-6.78	110.05	120.90
85	AA	1921	G	C8-N9-C4	-6.78	103.69	106.40
3	A2	174	TYR	CB-CG-CD1	6.78	125.07	121.00
34	BA	617	G	O4'-C1'-N9	-6.78	102.78	108.20
34	BA	1739	G	C3'-C2'-C1'	-6.78	96.08	101.50
35	BB	569	G	N1-C2-N2	-6.78	110.10	116.20
36	BC	6	G	C8-N9-C4	6.78	109.11	106.40
36	BC	90	U	C3'-C2'-C1'	-6.78	96.08	101.50
38	BE	96	G	C1'-O4'-C4'	-6.78	104.48	109.90
41	BH	25	A	O3'-P-O5'	-6.78	91.12	104.00
56	BW	134	HIS	CA-CB-CG	-6.78	102.07	113.60
85	AA	209	C	C5'-C4'-C3'	6.78	126.85	116.00
85	AA	548	G	C4-N9-C1'	-6.78	117.69	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	601	A	C3'-C2'-C1'	-6.78	96.08	101.50
85	AA	925	G	C3'-C2'-C1'	-6.78	96.08	101.50
85	AA	1699	A	N1-C6-N6	6.78	122.67	118.60
85	AA	1995	U	C5-C4-O4	6.78	129.97	125.90
85	AA	2107	C	O5'-C5'-C4'	-6.78	98.82	111.70
85	AA	2245	A	C2'-C3'-O3'	6.78	124.55	113.70
34	BA	222	C	C6-N1-C2	-6.78	117.59	120.30
34	BA	400	A	C5-C6-N6	6.78	129.12	123.70
36	BC	10	C	O5'-P-OP2	6.78	118.83	110.70
40	BG	167	C	C3'-C2'-C1'	-6.78	96.08	101.50
57	BX	87	TYR	CA-CB-CG	6.78	126.28	113.40
85	AA	47	A	C4-N9-C1'	6.78	138.50	126.30
85	AA	767	A	C5'-C4'-C3'	6.78	126.85	116.00
86	AB	23	A	C8-N9-C4	-6.78	103.09	105.80
26	AS	131	TYR	N-CA-CB	-6.78	98.40	110.60
34	BA	395	G	C4-N9-C1'	-6.78	117.69	126.50
34	BA	517	A	N7-C8-N9	-6.78	110.41	113.80
34	BA	1310	C	C6-N1-C2	-6.78	117.59	120.30
34	BA	1526	C	C1'-O4'-C4'	-6.78	104.48	109.90
35	BB	769	C	C6-N1-C2	-6.78	117.59	120.30
53	BT	163	ARG	NE-CZ-NH1	6.78	123.69	120.30
85	AA	188	G	C4-N9-C1'	-6.78	117.69	126.50
85	AA	209	C	C4'-C3'-C2'	-6.78	95.82	102.60
85	AA	1227	A	O4'-C1'-N9	6.78	113.62	108.20
34	BA	274	C	C1'-O4'-C4'	-6.78	104.48	109.90
34	BA	1186	U	C6-N1-C2	-6.78	116.94	121.00
35	BB	857	G	N1-C6-O6	6.78	123.97	119.90
35	BB	893	U	C4'-C3'-C2'	-6.78	95.83	102.60
35	BB	1073	A	C4'-C3'-C2'	6.78	109.38	102.60
35	BB	1517	G	O4'-C1'-N9	6.78	113.62	108.20
47	BN	155	ARG	NE-CZ-NH1	6.78	123.69	120.30
85	AA	1154	A	P-O3'-C3'	6.78	127.83	119.70
85	AA	2092	A	C4'-C3'-C2'	6.78	109.38	102.60
34	BA	366	G	C1'-O4'-C4'	-6.77	104.48	109.90
34	BA	647	U	C1'-O4'-C4'	-6.77	104.48	109.90
35	BB	1105	G	C5-C6-O6	-6.77	124.54	128.60
40	BG	172	C	C5-C4-N4	-6.77	115.46	120.20
41	BH	34	G	C4'-C3'-C2'	-6.77	95.83	102.60
85	AA	1892	G	C8-N9-C1'	6.77	135.81	127.00
34	BA	295	G	P-O3'-C3'	-6.77	111.57	119.70
34	BA	424	U	C5'-C4'-C3'	-6.77	105.16	116.00
34	BA	638	U	N3-C4-O4	-6.77	114.66	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	865	C	N3-C2-O2	-6.77	117.16	121.90
34	BA	1302	C	P-O3'-C3'	-6.77	111.57	119.70
34	BA	1701	U	C2-N3-C4	-6.77	122.94	127.00
34	BA	1836	A	C3'-C2'-C1'	-6.77	96.08	101.50
35	BB	474	G	C4-N9-C1'	-6.77	117.69	126.50
35	BB	483	C	C1'-O4'-C4'	-6.77	104.48	109.90
35	BB	1219	A	C4'-C3'-C2'	-6.77	95.83	102.60
35	BB	1475	U	O5'-P-OP2	-6.77	99.61	105.70
36	BC	60	U	C5'-C4'-C3'	-6.77	105.16	116.00
85	AA	850	U	C4'-C3'-C2'	-6.77	95.83	102.60
6	A5	77	ARG	CB-CA-C	-6.77	96.86	110.40
34	BA	926	A	N7-C8-N9	-6.77	110.41	113.80
40	BG	6	A	N1-C6-N6	6.77	122.66	118.60
85	AA	1348	C	O4'-C1'-N1	6.77	113.62	108.20
86	AB	56	C	P-O5'-C5'	-6.77	110.07	120.90
34	BA	327	G	O4'-C1'-N9	6.77	113.62	108.20
34	BA	569	C	C3'-C2'-C1'	-6.77	96.08	101.50
34	BA	1227	U	C5'-C4'-O4'	-6.77	100.98	109.10
35	BB	429	C	N3-C2-O2	-6.77	117.16	121.90
35	BB	999	G	C4-N9-C1'	-6.77	117.70	126.50
40	BG	123	C	C3'-C2'-C1'	-6.77	96.08	101.50
40	BG	167	C	C4'-C3'-C2'	6.77	109.37	102.60
41	BH	6	U	N1-C2-N3	6.77	118.96	114.90
77	Br	352	ARG	N-CA-CB	-6.77	98.42	110.60
85	AA	552	C	P-O5'-C5'	-6.77	110.07	120.90
85	AA	680	U	N1-C2-O2	6.77	127.54	122.80
85	AA	685	U	N3-C2-O2	-6.77	117.46	122.20
85	AA	2073	U	C2-N1-C1'	-6.77	109.58	117.70
1	A0	203	CYS	CA-CB-SG	-6.77	101.82	114.00
34	BA	1204	U	N3-C2-O2	-6.77	117.46	122.20
34	BA	1654	G	C4-N9-C1'	-6.77	117.70	126.50
35	BB	529	A	C8-N9-C4	-6.77	103.09	105.80
38	BE	136	G	C5'-C4'-C3'	6.77	126.83	116.00
40	BG	80	G	C5-C6-O6	6.77	132.66	128.60
40	BG	115	C	N1-C1'-C2'	-6.77	104.56	112.00
85	AA	774	C	C1'-O4'-C4'	-6.77	104.49	109.90
85	AA	867	G	C5-N7-C8	-6.77	100.92	104.30
85	AA	364	C	P-O5'-C5'	6.77	131.72	120.90
85	AA	1085	U	P-O3'-C3'	6.77	127.82	119.70
85	AA	1176	C	N3-C2-O2	-6.77	117.16	121.90
85	AA	1340	C	C6-N1-C2	-6.77	117.59	120.30
85	AA	2206	A	O4'-C1'-N9	6.77	113.61	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	530	A	C2-N3-C4	-6.76	107.22	110.60
34	BA	541	C	O4'-C1'-N1	6.76	113.61	108.20
34	BA	1579	G	C5-C6-O6	6.76	132.66	128.60
35	BB	1071	G	N3-C4-C5	-6.76	125.22	128.60
41	BH	48	G	C4-N9-C1'	6.76	135.29	126.50
85	AA	57	G	N3-C4-C5	-6.76	125.22	128.60
85	AA	488	G	C6-N1-C2	-6.76	121.04	125.10
85	AA	1259	U	O5'-C5'-C4'	-6.76	98.85	111.70
85	AA	1864	G	N1-C6-O6	6.76	123.96	119.90
34	BA	398	G	C8-N9-C4	6.76	109.11	106.40
34	BA	1196	C	C5-C4-N4	6.76	124.93	120.20
34	BA	1200	U	C2'-C3'-O3'	6.76	124.52	113.70
34	BA	1693	U	O3'-P-O5'	-6.76	91.15	104.00
35	BB	777	C	O4'-C1'-N1	6.76	113.61	108.20
37	BD	48	G	C5-C6-N1	6.76	114.88	111.50
80	Bu	66	HIS	CB-CA-C	-6.76	96.87	110.40
85	AA	258	G	C8-N9-C4	6.76	109.11	106.40
23	AP	120	HIS	CA-CB-CG	-6.76	102.11	113.60
34	BA	177	G	C5-C6-O6	-6.76	124.54	128.60
34	BA	703	U	C3'-C2'-C1'	-6.76	96.09	101.50
39	BF	56	C	C5-C6-N1	-6.76	117.62	121.00
52	BS	44	TRP	CB-CG-CD2	-6.76	117.81	126.60
53	BT	9	ARG	NE-CZ-NH1	6.76	123.68	120.30
85	AA	674	U	C2-N1-C1'	-6.76	109.59	117.70
7	A6	56	ARG	NE-CZ-NH1	6.76	123.68	120.30
34	BA	1043	C	P-O3'-C3'	-6.76	111.59	119.70
34	BA	1085	G	C8-N9-C4	-6.76	103.70	106.40
34	BA	1497	A	N1-C6-N6	-6.76	114.54	118.60
35	BB	441	G	C8-N9-C1'	6.76	135.79	127.00
35	BB	532	C	C6-N1-C1'	6.76	128.91	120.80
36	BC	44	A	C5-C6-N1	6.76	121.08	117.70
36	BC	123	G	C4-N9-C1'	-6.76	117.71	126.50
56	BW	81	ILE	CB-CA-C	6.76	125.12	111.60
85	AA	1647	G	O5'-C5'-C4'	6.76	124.55	111.70
85	AA	1935	G	C5'-C4'-C3'	-6.76	105.18	116.00
5	A4	46	PHE	CB-CG-CD2	-6.76	116.07	120.80
34	BA	587	U	C4'-C3'-O3'	-6.76	95.21	109.40
34	BA	1562	G	C5-C6-N1	6.76	114.88	111.50
36	BC	136	G	P-O3'-C3'	-6.76	111.59	119.70
41	BH	30	C	C2-N1-C1'	6.76	126.23	118.80
68	Bi	22	ARG	NE-CZ-NH1	6.76	123.68	120.30
85	AA	2152	C	C6-N1-C1'	6.76	128.91	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	247	U	O3'-P-O5'	6.76	116.84	104.00
34	BA	517	A	O5'-P-OP2	-6.76	99.62	105.70
34	BA	796	G	C5-N7-C8	-6.76	100.92	104.30
34	BA	813	C	C5'-C4'-C3'	6.76	126.81	116.00
36	BC	62	A	N3-C4-C5	6.76	131.53	126.80
38	BE	105	A	C5-C6-N6	-6.76	118.30	123.70
77	Br	199	ARG	NE-CZ-NH1	6.76	123.68	120.30
85	AA	157	G	C4-N9-C1'	-6.76	117.72	126.50
34	BA	329	G	O4'-C1'-N9	-6.75	102.80	108.20
34	BA	1508	C	P-O3'-C3'	-6.75	111.59	119.70
35	BB	1258	G	C5'-C4'-O4'	6.75	117.21	109.10
38	BE	26	G	OP1-P-OP2	-6.75	109.47	119.60
51	BR	57	CYS	CB-CA-C	-6.75	96.89	110.40
85	AA	898	A	O3'-P-O5'	6.75	116.83	104.00
85	AA	1270	C	O4'-C1'-N1	6.75	113.60	108.20
34	BA	81	C	O4'-C1'-N1	6.75	113.60	108.20
34	BA	198	U	O4'-C1'-C2'	6.75	113.68	107.60
35	BB	822	G	C4-N9-C1'	6.75	135.28	126.50
85	AA	5	U	P-O3'-C3'	-6.75	111.60	119.70
85	AA	1101	C	C6-N1-C2	-6.75	117.60	120.30
85	AA	1264	U	C5'-C4'-C3'	-6.75	105.19	116.00
85	AA	1729	C	N3-C4-N4	6.75	122.73	118.00
85	AA	2087	C	C4'-C3'-C2'	6.75	109.35	102.60
85	AA	2183	U	C6-N1-C2	-6.75	116.95	121.00
85	AA	2204	A	P-O3'-C3'	-6.75	111.60	119.70
34	BA	111	U	O5'-P-OP2	-6.75	99.62	105.70
34	BA	441	A	N1-C6-N6	6.75	122.65	118.60
34	BA	676	G	P-O5'-C5'	-6.75	110.10	120.90
34	BA	802	G	N9-C1'-C2'	-6.75	104.57	112.00
34	BA	1146	U	C4'-C3'-C2'	-6.75	95.85	102.60
34	BA	1287	G	C4'-C3'-C2'	6.75	109.35	102.60
35	BB	1027	U	O4'-C1'-N1	6.75	113.60	108.20
40	BG	20	U	C6-N1-C1'	6.75	130.65	121.20
40	BG	102	G	N1-C6-O6	-6.75	115.85	119.90
85	AA	1109	G	P-O5'-C5'	6.75	131.70	120.90
85	AA	1190	G	N9-C4-C5	-6.75	102.70	105.40
85	AA	1454	U	N1-C2-N3	6.75	118.95	114.90
85	AA	2005	U	C5'-C4'-O4'	6.75	117.20	109.10
85	AA	2120	C	C5'-C4'-C3'	-6.75	105.20	116.00
85	AA	2202	G	C5-C6-N1	6.75	114.88	111.50
34	BA	806	U	O3'-P-O5'	6.75	116.83	104.00
71	Bl	95	TRP	O-C-N	-6.75	111.90	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1250	A	N1-C6-N6	-6.75	114.55	118.60
86	AB	47	U	P-O5'-C5'	6.75	131.70	120.90
34	BA	1517	U	O4'-C1'-N1	6.75	113.60	108.20
35	BB	7	C	O4'-C1'-N1	6.75	113.60	108.20
35	BB	876	G	P-O5'-C5'	6.75	131.70	120.90
35	BB	1176	G	O4'-C1'-N9	6.75	113.60	108.20
38	BE	41	C	P-O5'-C5'	-6.75	110.10	120.90
40	BG	156	G	C2'-C3'-O3'	6.75	124.50	113.70
78	Bs	14	ASN	CB-CA-C	-6.75	96.90	110.40
8	A7	92	ARG	NE-CZ-NH1	6.75	123.67	120.30
34	BA	201	A	O4'-C4'-C3'	-6.75	97.25	104.00
34	BA	285	C	O4'-C1'-N1	6.75	113.60	108.20
34	BA	362	G	O4'-C1'-C2'	6.75	113.67	107.60
34	BA	1816	G	N1-C6-O6	6.75	123.95	119.90
35	BB	738	G	N1-C6-O6	6.75	123.95	119.90
35	BB	840	C	O3'-P-O5'	6.75	116.82	104.00
38	BE	171	U	C2'-C3'-O3'	6.75	124.49	113.70
85	AA	122	A	C5-C6-N6	-6.75	118.30	123.70
85	AA	2170	G	C8-N9-C1'	6.75	135.77	127.00
35	BB	308	C	O4'-C1'-N1	6.75	113.60	108.20
35	BB	652	G	C5-C6-O6	-6.75	124.55	128.60
35	BB	677	U	C1'-O4'-C4'	-6.75	104.50	109.90
35	BB	1379	U	O3'-P-O5'	6.75	116.81	104.00
41	BH	1	U	O4'-C1'-N1	6.75	113.60	108.20
85	AA	616	A	C5'-C4'-C3'	-6.75	105.21	116.00
85	AA	2045	U	C2-N1-C1'	-6.75	109.61	117.70
34	BA	1285	G	N1-C6-O6	-6.74	115.85	119.90
34	BA	1541	G	N9-C4-C5	-6.74	102.70	105.40
35	BB	373	C	P-O3'-C3'	-6.74	111.61	119.70
35	BB	519	A	C5-C6-N6	-6.74	118.31	123.70
35	BB	742	G	O4'-C1'-N9	6.74	113.59	108.20
35	BB	1154	C	O4'-C1'-C2'	6.74	113.67	107.60
38	BE	62	C	C6-N1-C1'	6.74	128.89	120.80
74	Bo	85	ARG	NE-CZ-NH1	6.74	123.67	120.30
85	AA	387	U	P-O3'-C3'	6.74	127.79	119.70
85	AA	523	U	O4'-C1'-N1	6.74	113.59	108.20
85	AA	686	U	P-O5'-C5'	-6.74	110.11	120.90
85	AA	1216	A	O4'-C1'-N9	6.74	113.59	108.20
13	AE	88	ARG	NE-CZ-NH1	6.74	123.67	120.30
34	BA	1539	A	P-O3'-C3'	-6.74	111.61	119.70
35	BB	5	A	C8-N9-C4	-6.74	103.10	105.80
49	BP	158	PRO	N-CA-C	-6.74	94.57	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	113	G	C3'-C2'-C1'	-6.74	96.11	101.50
34	BA	691	A	P-O5'-C5'	-6.74	110.12	120.90
34	BA	906	A	C8-N9-C4	6.74	108.50	105.80
34	BA	1106	A	C5'-C4'-O4'	-6.74	101.01	109.10
34	BA	1710	C	C3'-C2'-C1'	-6.74	96.11	101.50
35	BB	472	C	O3'-P-O5'	6.74	116.81	104.00
36	BC	12	A	C6-N1-C2	-6.74	114.56	118.60
72	Bm	36	ASP	CA-CB-CG	-6.74	98.57	113.40
85	AA	443	A	C4'-C3'-C2'	6.74	109.34	102.60
85	AA	774	C	O4'-C1'-N1	6.74	113.59	108.20
85	AA	991	G	O4'-C1'-N9	6.74	113.59	108.20
85	AA	1646	U	C1'-O4'-C4'	-6.74	104.51	109.90
85	AA	2060	G	N1-C6-O6	6.74	123.94	119.90
6	A5	117	TYR	CB-CG-CD2	-6.74	116.96	121.00
34	BA	223	U	O4'-C1'-N1	6.74	113.59	108.20
35	BB	1091	C	N1-C2-N3	6.74	123.92	119.20
36	BC	18	G	C4-N9-C1'	-6.74	117.74	126.50
40	BG	73	U	N3-C2-O2	-6.74	117.48	122.20
41	BH	51	C	C6-N1-C2	-6.74	117.60	120.30
85	AA	632	U	O4'-C1'-N1	6.74	113.59	108.20
85	AA	1954	C	O4'-C1'-N1	6.74	113.59	108.20
85	AA	2060	G	C8-N9-C1'	6.74	135.76	127.00
34	BA	339	G	OP1-P-O3'	6.74	120.02	105.20
35	BB	1263	A	C5-C6-N1	6.74	121.07	117.70
32	AY	37	ARG	N-CA-CB	-6.74	98.47	110.60
34	BA	1700	C	O5'-P-OP2	-6.74	99.64	105.70
35	BB	1086	G	P-O5'-C5'	-6.74	110.12	120.90
35	BB	1093	C	C2-N3-C4	-6.74	116.53	119.90
35	BB	1177	U	P-O3'-C3'	-6.74	111.62	119.70
35	BB	1455	A	P-O3'-C3'	6.74	127.78	119.70
37	BD	93	G	C8-N9-C1'	6.74	135.76	127.00
38	BE	160	C	C5'-C4'-C3'	-6.74	105.22	116.00
39	BF	7	G	O4'-C1'-N9	6.74	113.59	108.20
85	AA	8	U	P-O5'-C5'	-6.74	110.12	120.90
85	AA	51	A	N1-C6-N6	6.74	122.64	118.60
85	AA	379	U	P-O3'-C3'	-6.74	111.62	119.70
85	AA	1107	A	N1-C6-N6	-6.74	114.56	118.60
2	A1	240	GLN	C-N-CA	6.73	136.44	122.30
34	BA	585	G	C4-N9-C1'	6.73	135.25	126.50
34	BA	851	C	C6-N1-C1'	6.73	128.88	120.80
34	BA	1208	U	C2-N1-C1'	-6.73	109.62	117.70
35	BB	4	C	C3'-C2'-C1'	6.73	106.89	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	35	G	C4-N9-C1'	-6.73	117.75	126.50
35	BB	51	U	C1'-O4'-C4'	-6.73	104.51	109.90
40	BG	20	U	C5'-C4'-C3'	-6.73	105.23	116.00
41	BH	96	G	O4'-C1'-N9	6.73	113.59	108.20
85	AA	1978	G	P-O5'-C5'	-6.73	110.13	120.90
34	BA	170	U	C2-N3-C4	-6.73	122.96	127.00
34	BA	563	A	C5-C6-N6	6.73	129.09	123.70
34	BA	763	U	C1'-O4'-C4'	6.73	115.29	109.90
34	BA	1001	G	C6-N1-C2	-6.73	121.06	125.10
34	BA	1281	U	O3'-P-O5'	6.73	116.79	104.00
35	BB	312	U	C4'-C3'-C2'	-6.73	95.87	102.60
35	BB	1132	A	N1-C2-N3	-6.73	125.93	129.30
85	AA	523	U	C5'-C4'-C3'	-6.73	105.23	116.00
85	AA	1593	C	P-O3'-C3'	6.73	127.78	119.70
85	AA	2224	U	O4'-C1'-N1	6.73	113.59	108.20
86	AB	46	G	P-O3'-C3'	-6.73	111.62	119.70
5	A4	91	PHE	CA-CB-CG	-6.73	97.75	113.90
34	BA	700	G	C4-N9-C1'	-6.73	117.75	126.50
34	BA	1528	U	C4'-C3'-C2'	6.73	109.33	102.60
35	BB	459	U	O4'-C1'-N1	6.73	113.58	108.20
35	BB	502	C	C2-N1-C1'	-6.73	111.40	118.80
36	BC	153	C	C2'-C3'-O3'	6.73	124.47	113.70
40	BG	9	G	C3'-C2'-C1'	-6.73	96.11	101.50
40	BG	171	A	P-O5'-C5'	6.73	131.67	120.90
77	Br	33	HIS	CA-CB-CG	-6.73	102.16	113.60
85	AA	535	G	C8-N9-C4	6.73	109.09	106.40
34	BA	126	G	N1-C6-O6	6.73	123.94	119.90
34	BA	333	A	C5-C6-N6	-6.73	118.32	123.70
34	BA	568	G	O4'-C1'-N9	6.73	113.58	108.20
35	BB	657	A	C3'-C2'-C1'	6.73	106.88	101.50
37	BD	115	A	N1-C6-N6	6.73	122.64	118.60
38	BE	96	G	N3-C2-N2	-6.73	115.19	119.90
39	BF	19	A	O4'-C4'-C3'	-6.73	97.27	104.00
85	AA	267	U	C4'-C3'-C2'	6.73	109.33	102.60
85	AA	1251	G	C5'-C4'-C3'	-6.73	105.23	116.00
85	AA	1934	A	C5'-C4'-O4'	6.73	117.17	109.10
34	BA	744	G	N3-C4-C5	-6.73	125.24	128.60
34	BA	1636	C	C2-N3-C4	6.73	123.26	119.90
34	BA	1675	C	C6-N1-C2	-6.73	117.61	120.30
35	BB	830	G	O4'-C1'-N9	6.73	113.58	108.20
54	BU	108	LYS	N-CA-CB	-6.73	98.49	110.60
80	Bu	75	VAL	CG1-CB-CG2	6.73	121.66	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	425	G	C8-N9-C4	6.73	109.09	106.40
85	AA	825	U	C2-N3-C4	-6.73	122.96	127.00
85	AA	875	C	N1-C1'-C2'	-6.73	104.60	112.00
34	BA	401	A	C3'-C2'-C1'	-6.73	96.12	101.50
34	BA	516	U	C2-N1-C1'	-6.73	109.63	117.70
34	BA	1692	U	C2-N1-C1'	6.73	125.77	117.70
34	BA	1735	G	N3-C4-N9	-6.73	121.96	126.00
35	BB	772	U	C2-N1-C1'	-6.73	109.63	117.70
35	BB	780	U	C3'-C2'-C1'	6.73	106.88	101.50
35	BB	869	G	C8-N9-C1'	6.73	135.74	127.00
85	AA	288	G	C4-N9-C1'	-6.73	117.76	126.50
34	BA	1101	A	N9-C1'-C2'	-6.72	104.60	112.00
34	BA	1470	G	C5-C6-O6	-6.72	124.57	128.60
34	BA	1631	U	C6-N1-C2	-6.72	116.97	121.00
34	BA	1692	U	C6-N1-C2	-6.72	116.97	121.00
40	BG	27	C	C1'-O4'-C4'	-6.72	104.52	109.90
40	BG	38	A	N1-C6-N6	6.72	122.63	118.60
41	BH	101	A	N1-C2-N3	-6.72	125.94	129.30
58	BY	73	ARG	NE-CZ-NH2	-6.72	116.94	120.30
67	Bh	71	ALA	N-CA-CB	-6.72	100.69	110.10
85	AA	1674	G	C8-N9-C4	6.72	109.09	106.40
34	BA	327	G	C5-C6-O6	-6.72	124.57	128.60
34	BA	712	C	P-O5'-C5'	6.72	131.66	120.90
34	BA	733	G	C5-C6-O6	-6.72	124.57	128.60
34	BA	892	C	C2-N1-C1'	-6.72	111.40	118.80
34	BA	1218	G	C5'-C4'-C3'	6.72	126.76	116.00
35	BB	787	A	C8-N9-C1'	6.72	139.80	127.70
35	BB	812	G	N9-C1'-C2'	-6.72	104.60	112.00
41	BH	46	C	C2-N1-C1'	-6.72	111.41	118.80
85	AA	380	C	P-O3'-C3'	-6.72	111.63	119.70
85	AA	1371	C	C2-N1-C1'	-6.72	111.41	118.80
85	AA	1864	G	C1'-O4'-C4'	-6.72	104.52	109.90
86	AB	13	C	C1'-O4'-C4'	-6.72	104.52	109.90
34	BA	758	G	C5-C6-N1	6.72	114.86	111.50
35	BB	1159	U	N3-C2-O2	-6.72	117.50	122.20
85	AA	732	G	C8-N9-C4	-6.72	103.71	106.40
34	BA	47	U	N1-C2-N3	6.72	118.93	114.90
34	BA	508	C	C1'-O4'-C4'	-6.72	104.52	109.90
34	BA	1523	U	C2-N3-C4	-6.72	122.97	127.00
85	AA	130	G	C8-N9-C1'	6.72	135.74	127.00
85	AA	838	G	C6-N1-C2	-6.72	121.07	125.10
85	AA	968	U	P-O5'-C5'	-6.72	110.15	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1128	G	C5-C6-N1	6.72	114.86	111.50
34	BA	280	A	C5-C6-N6	-6.72	118.33	123.70
34	BA	1808	A	C6-N1-C2	-6.72	114.57	118.60
35	BB	1288	G	C8-N9-C4	6.72	109.09	106.40
69	Bj	3	CYS	N-CA-CB	6.72	122.69	110.60
85	AA	753	U	O5'-C5'-C4'	6.72	124.46	111.70
85	AA	1215	A	C5'-C4'-C3'	-6.72	105.25	116.00
85	AA	1949	U	O4'-C1'-N1	6.72	113.57	108.20
5	A4	67	LEU	CB-CA-C	6.72	122.96	110.20
34	BA	288	U	O4'-C1'-N1	6.72	113.57	108.20
34	BA	1176	C	C2'-C3'-O3'	6.72	124.45	113.70
34	BA	1597	G	C5-C6-O6	-6.72	124.57	128.60
35	BB	1000	U	O4'-C4'-C3'	-6.72	97.28	104.00
35	BB	1201	G	C5-C6-O6	-6.72	124.57	128.60
35	BB	1220	A	N9-C1'-C2'	-6.72	104.61	112.00
35	BB	1254	G	O5'-C5'-C4'	-6.72	98.94	111.70
40	BG	108	G	N9-C1'-C2'	-6.72	104.61	112.00
52	BS	156	ARG	C-N-CA	6.72	138.49	121.70
59	BZ	66	ARG	NE-CZ-NH1	6.72	123.66	120.30
85	AA	476	C	P-O5'-C5'	-6.72	110.15	120.90
85	AA	515	C	P-O5'-C5'	-6.72	110.15	120.90
85	AA	607	U	C1'-O4'-C4'	-6.72	104.53	109.90
85	AA	902	A	N1-C6-N6	6.72	122.63	118.60
85	AA	1038	U	O4'-C1'-N1	6.72	113.57	108.20
85	AA	1044	G	O4'-C1'-N9	6.72	113.57	108.20
85	AA	1191	G	N1-C6-O6	-6.72	115.87	119.90
85	AA	2004	U	C6-N1-C2	-6.72	116.97	121.00
85	AA	2074	G	C8-N9-C1'	6.72	135.73	127.00
4	A3	221	ARG	NE-CZ-NH1	6.71	123.66	120.30
34	BA	13	U	C5'-C4'-O4'	6.71	117.16	109.10
34	BA	545	U	C5'-C4'-O4'	6.71	117.16	109.10
34	BA	1026	C	C6-N1-C2	-6.71	117.61	120.30
34	BA	1248	A	C1'-O4'-C4'	-6.71	104.53	109.90
35	BB	1115	G	C1'-O4'-C4'	-6.71	104.53	109.90
36	BC	18	G	N3-C4-N9	-6.71	121.97	126.00
36	BC	87	C	C5'-C4'-O4'	6.71	117.16	109.10
53	BT	85	ARG	NE-CZ-NH1	6.71	123.66	120.30
85	AA	100	A	C1'-O4'-C4'	-6.71	104.53	109.90
85	AA	863	C	C1'-O4'-C4'	-6.71	104.53	109.90
85	AA	1460	G	C4'-C3'-C2'	-6.71	95.89	102.60
85	AA	1538	C	C5'-C4'-O4'	6.71	117.16	109.10
34	BA	1296	U	C2-N3-C4	-6.71	122.97	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1394	U	O4'-C1'-N1	6.71	113.57	108.20
35	BB	1074	U	O4'-C1'-N1	6.71	113.57	108.20
40	BG	162	A	N1-C6-N6	6.71	122.63	118.60
47	BN	5	ASN	C-N-CA	6.71	138.48	121.70
85	AA	83	U	O5'-C5'-C4'	-6.71	98.94	111.70
85	AA	336	C	C3'-C2'-C1'	-6.71	96.13	101.50
34	BA	1483	U	N3-C2-O2	-6.71	117.50	122.20
34	BA	1529	G	N1-C6-O6	-6.71	115.87	119.90
34	BA	1746	G	C5-C6-O6	-6.71	124.57	128.60
35	BB	1374	U	C2-N3-C4	-6.71	122.97	127.00
38	BE	25	U	C3'-C2'-C1'	-6.71	96.13	101.50
85	AA	962	U	O4'-C1'-N1	6.71	113.57	108.20
85	AA	969	U	P-O3'-C3'	6.71	127.75	119.70
85	AA	1226	A	C5'-C4'-O4'	-6.71	101.05	109.10
86	AB	19	G	O4'-C1'-N9	6.71	113.57	108.20
34	BA	680	C	O4'-C1'-N1	6.71	113.57	108.20
35	BB	364	U	C2-N1-C1'	6.71	125.75	117.70
37	BD	16	U	C5'-C4'-C3'	-6.71	105.26	116.00
85	AA	627	A	P-O5'-C5'	-6.71	110.17	120.90
34	BA	815	C	C2-N1-C1'	6.71	126.18	118.80
34	BA	1485	U	O5'-P-OP2	-6.71	99.66	105.70
34	BA	1651	C	C5'-C4'-C3'	-6.71	105.27	116.00
34	BA	1662	U	C4'-C3'-C2'	-6.71	95.89	102.60
34	BA	1776	G	P-O3'-C3'	6.71	127.75	119.70
35	BB	57	G	C8-N9-C4	-6.71	103.72	106.40
35	BB	434	A	P-O5'-C5'	-6.71	110.17	120.90
35	BB	853	U	OP1-P-OP2	-6.71	109.54	119.60
35	BB	1162	A	C6-N1-C2	-6.71	114.58	118.60
35	BB	1285	U	N1-C2-N3	-6.71	110.88	114.90
39	BF	25	G	N1-C6-O6	6.71	123.92	119.90
52	BS	95	GLU	N-CA-CB	-6.71	98.53	110.60
74	Bo	84	ARG	NE-CZ-NH1	6.71	123.65	120.30
85	AA	498	C	C6-N1-C2	-6.71	117.62	120.30
85	AA	827	C	C6-N1-C2	-6.71	117.62	120.30
85	AA	2141	G	C8-N9-C1'	6.71	135.72	127.00
26	AS	142	ARG	NE-CZ-NH1	6.71	123.65	120.30
34	BA	16	C	C6-N1-C2	-6.71	117.62	120.30
34	BA	335	C	N3-C2-O2	-6.71	117.21	121.90
34	BA	924	U	N3-C2-O2	-6.71	117.50	122.20
34	BA	1005	C	O4'-C1'-C2'	-6.71	99.09	105.80
34	BA	1019	C	N1-C1'-C2'	-6.71	104.62	112.00
35	BB	1087	A	C1'-O4'-C4'	-6.71	104.53	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1469	A	C5-C6-N1	6.71	121.05	117.70
38	BE	176	G	C3'-C2'-C1'	-6.71	96.14	101.50
40	BG	105	A	C2'-C3'-O3'	6.71	124.43	113.70
47	BN	66	PRO	N-CA-C	6.71	129.54	112.10
85	AA	597	A	C1'-O4'-C4'	-6.71	104.53	109.90
85	AA	623	G	C5-C6-O6	-6.71	124.58	128.60
5	A4	3	ALA	N-CA-C	-6.71	92.90	111.00
34	BA	448	U	C6-N1-C2	-6.71	116.98	121.00
41	BH	5	G	C4-N9-C1'	-6.71	117.78	126.50
85	AA	316	C	N3-C2-O2	-6.71	117.21	121.90
33	AZ	39	GLN	N-CA-C	-6.70	92.90	111.00
34	BA	313	C	P-O5'-C5'	6.70	131.62	120.90
34	BA	568	G	C4-N9-C1'	-6.70	117.78	126.50
34	BA	613	A	N1-C6-N6	-6.70	114.58	118.60
34	BA	961	C	C5'-C4'-C3'	-6.70	105.28	116.00
34	BA	1203	G	N9-C1'-C2'	-6.70	104.63	112.00
34	BA	1454	G	C5-N7-C8	-6.70	100.95	104.30
35	BB	996	G	C4-N9-C1'	-6.70	117.79	126.50
35	BB	1421	C	N1-C2-O2	6.70	122.92	118.90
36	BC	145	G	C8-N9-C4	-6.70	103.72	106.40
37	BD	81	C	C2-N3-C4	-6.70	116.55	119.90
37	BD	95	G	C5'-C4'-C3'	6.70	126.73	116.00
38	BE	198	A	O4'-C1'-N9	6.70	113.56	108.20
41	BH	72	G	P-O5'-C5'	-6.70	110.17	120.90
41	BH	129	G	C5'-C4'-O4'	6.70	117.14	109.10
80	Bu	169	LEU	CB-CG-CD2	6.70	122.39	111.00
85	AA	471	U	P-O3'-C3'	-6.70	111.66	119.70
85	AA	910	G	O4'-C1'-N9	6.70	113.56	108.20
85	AA	1229	G	N3-C2-N2	6.70	124.59	119.90
85	AA	1561	A	N1-C6-N6	-6.70	114.58	118.60
85	AA	1715	C	C1'-O4'-C4'	-6.70	104.54	109.90
85	AA	1816	C	P-O5'-C5'	6.70	131.62	120.90
85	AA	1878	C	P-O3'-C3'	-6.70	111.66	119.70
34	BA	1420	A	C8-N9-C4	-6.70	103.12	105.80
35	BB	1130	U	O5'-C5'-C4'	-6.70	98.97	111.70
65	Bf	312	HIS	CA-CB-CG	-6.70	102.21	113.60
84	By	121	ARG	NE-CZ-NH1	6.70	123.65	120.30
85	AA	2203	C	O4'-C1'-N1	6.70	113.56	108.20
20	AL	60	ARG	NE-CZ-NH1	6.70	123.65	120.30
34	BA	190	U	C4'-C3'-C2'	-6.70	95.90	102.60
34	BA	760	G	C4-N9-C1'	-6.70	117.79	126.50
34	BA	1073	G	C5-C6-N1	6.70	114.85	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1704	G	O3'-P-O5'	6.70	116.73	104.00
35	BB	1371	G	C1'-O4'-C4'	-6.70	104.54	109.90
36	BC	10	C	N1-C1'-C2'	-6.70	104.63	112.00
41	BH	12	U	O4'-C1'-N1	6.70	113.56	108.20
50	BQ	50	GLN	N-CA-C	6.70	129.09	111.00
59	BZ	41	ASN	CA-CB-CG	-6.70	98.66	113.40
65	Bf	303	ARG	NE-CZ-NH1	6.70	123.65	120.30
85	AA	1794	U	C6-N1-C2	-6.70	116.98	121.00
85	AA	2121	G	N9-C4-C5	6.70	108.08	105.40
34	BA	214	A	N3-C4-N9	6.70	132.76	127.40
34	BA	449	G	P-O3'-C3'	-6.70	111.66	119.70
34	BA	774	A	O4'-C1'-N9	6.70	113.56	108.20
35	BB	823	G	N1-C6-O6	-6.70	115.88	119.90
35	BB	1033	U	P-O3'-C3'	-6.70	111.66	119.70
38	BE	203	C	C4-C5-C6	-6.70	114.05	117.40
82	Bw	8	LEU	CB-CA-C	-6.70	97.47	110.20
85	AA	307	G	O4'-C4'-C3'	-6.70	97.30	104.00
85	AA	850	U	C2-N3-C4	-6.70	122.98	127.00
85	AA	991	G	C2'-C3'-O3'	6.70	124.42	113.70
85	AA	1211	C	C5-C4-N4	-6.70	115.51	120.20
85	AA	1247	A	C4'-C3'-C2'	-6.70	95.90	102.60
85	AA	1381	C	O4'-C1'-N1	6.70	113.56	108.20
34	BA	971	G	C5-C6-O6	-6.70	124.58	128.60
35	BB	1523	U	O5'-P-OP2	-6.70	99.67	105.70
36	BC	138	C	C3'-C2'-C1'	-6.70	96.14	101.50
84	By	74	HIS	CB-CA-C	6.70	123.79	110.40
85	AA	1480	C	C5'-C4'-C3'	-6.70	105.28	116.00
85	AA	2237	G	O4'-C1'-C2'	6.70	113.63	107.60
34	BA	223	U	P-O5'-C5'	-6.70	110.19	120.90
34	BA	684	G	C8-N9-C4	-6.70	103.72	106.40
35	BB	128	C	O4'-C1'-N1	6.70	113.56	108.20
35	BB	795	A	C1'-O4'-C4'	-6.70	104.54	109.90
35	BB	1024	G	O5'-C5'-C4'	-6.70	98.98	111.70
35	BB	1262	A	C6-N1-C2	-6.70	114.58	118.60
37	BD	75	G	C5'-C4'-C3'	-6.70	105.29	116.00
38	BE	40	C	C2'-C3'-O3'	6.70	124.41	113.70
40	BG	2	U	C1'-O4'-C4'	-6.70	104.54	109.90
41	BH	20	A	C8-N9-C1'	6.70	139.75	127.70
85	AA	1537	A	C3'-C2'-C1'	6.70	106.86	101.50
85	AA	2015	U	C2-N1-C1'	-6.70	109.67	117.70
69	Bj	70	ARG	NE-CZ-NH2	-6.69	116.95	120.30
85	AA	860	C	O4'-C1'-C2'	6.69	113.62	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2170	G	P-O3'-C3'	-6.69	111.67	119.70
31	AX	188	MET	CG-SD-CE	-6.69	89.49	100.20
34	BA	1306	U	C5'-C4'-O4'	6.69	117.13	109.10
34	BA	1561	C	C2-N1-C1'	-6.69	111.44	118.80
35	BB	1327	U	O4'-C1'-N1	6.69	113.55	108.20
37	BD	119	U	C2-N1-C1'	6.69	125.73	117.70
38	BE	196	C	N1-C2-O2	6.69	122.92	118.90
40	BG	86	U	C1'-O4'-C4'	-6.69	104.55	109.90
41	BH	128	G	O5'-P-OP2	6.69	118.73	110.70
83	Bx	118	ARG	NE-CZ-NH1	6.69	123.65	120.30
85	AA	405	C	O4'-C1'-N1	6.69	113.55	108.20
85	AA	474	C	O4'-C1'-N1	6.69	113.55	108.20
85	AA	1504	A	N9-C1'-C2'	-6.69	104.64	112.00
17	AI	137	ARG	NE-CZ-NH1	6.69	123.64	120.30
34	BA	223	U	C2-N1-C1'	-6.69	109.67	117.70
34	BA	305	C	O4'-C1'-N1	6.69	113.55	108.20
34	BA	717	U	C1'-O4'-C4'	-6.69	104.55	109.90
34	BA	1061	A	P-O3'-C3'	-6.69	111.67	119.70
34	BA	1224	A	C2'-C3'-O3'	6.69	124.40	113.70
34	BA	1300	G	O4'-C1'-C2'	6.69	113.62	107.60
35	BB	375	G	C5-C6-N1	6.69	114.84	111.50
85	AA	816	A	C8-N9-C4	-6.69	103.12	105.80
85	AA	1016	G	O3'-P-O5'	-6.69	91.29	104.00
85	AA	1339	C	O4'-C1'-N1	6.69	113.55	108.20
85	AA	2163	G	C8-N9-C1'	6.69	135.70	127.00
34	BA	239	C	O4'-C1'-N1	6.69	113.55	108.20
34	BA	247	U	C1'-O4'-C4'	-6.69	104.55	109.90
41	BH	31	A	C2'-C3'-O3'	6.69	124.40	113.70
64	Be	70	ARG	CD-NE-CZ	6.69	132.96	123.60
85	AA	663	C	C3'-C2'-C1'	-6.69	96.15	101.50
85	AA	1185	G	N1-C6-O6	6.69	123.91	119.90
34	BA	62	A	P-O3'-C3'	6.69	127.73	119.70
34	BA	218	G	C1'-O4'-C4'	-6.69	104.55	109.90
34	BA	1825	U	C5-C4-O4	-6.69	121.89	125.90
35	BB	27	C	C2-N1-C1'	-6.69	111.44	118.80
35	BB	647	U	N3-C2-O2	-6.69	117.52	122.20
35	BB	1179	C	C6-N1-C2	-6.69	117.62	120.30
35	BB	1258	G	OP1-P-OP2	-6.69	109.57	119.60
36	BC	116	C	C6-N1-C1'	6.69	128.83	120.80
39	BF	49	C	C5-C6-N1	6.69	124.34	121.00
40	BG	16	G	O4'-C4'-C3'	-6.69	97.31	104.00
41	BH	34	G	C5'-C4'-O4'	6.69	117.13	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	336	C	C6-N1-C2	-6.69	117.62	120.30
85	AA	846	U	O4'-C1'-N1	6.69	113.55	108.20
85	AA	960	G	C8-N9-C4	-6.69	103.72	106.40
85	AA	1254	A	C1'-O4'-C4'	-6.69	104.55	109.90
85	AA	1801	U	O3'-P-O5'	-6.69	91.30	104.00
85	AA	1876	U	C5'-C4'-C3'	6.69	126.70	116.00
36	BC	108	A	N9-C1'-C2'	-6.69	104.65	112.00
85	AA	391	G	C8-N9-C1'	6.69	135.69	127.00
34	BA	19	G	C8-N9-C1'	6.68	135.69	127.00
34	BA	907	A	N9-C1'-C2'	-6.68	104.65	112.00
34	BA	1210	A	N1-C2-N3	-6.68	125.96	129.30
34	BA	1367	G	C5'-C4'-C3'	-6.68	105.31	116.00
35	BB	347	G	C5-C6-O6	-6.68	124.59	128.60
35	BB	384	A	C6-C5-N7	-6.68	127.62	132.30
35	BB	743	C	C5-C4-N4	-6.68	115.52	120.20
35	BB	1083	C	N3-C2-O2	-6.68	117.22	121.90
35	BB	1360	A	C4-C5-C6	-6.68	113.66	117.00
40	BG	128	U	N1-C1'-C2'	-6.68	104.65	112.00
51	BR	63	TYR	CA-CB-CG	-6.68	100.70	113.40
58	BY	14	HIS	CB-CA-C	6.68	123.77	110.40
85	AA	23	G	C5'-C4'-C3'	6.68	126.70	116.00
85	AA	258	G	C5-C6-N1	6.68	114.84	111.50
85	AA	416	U	P-O3'-C3'	6.68	127.72	119.70
85	AA	1254	A	C4-N9-C1'	-6.68	114.27	126.30
85	AA	1560	A	C5-N7-C8	6.68	107.24	103.90
85	AA	2141	G	C4'-C3'-C2'	6.68	109.28	102.60
34	BA	139	U	N3-C2-O2	-6.68	117.52	122.20
38	BE	31	A	N7-C8-N9	6.68	117.14	113.80
85	AA	416	U	C6-N1-C2	-6.68	116.99	121.00
85	AA	1585	A	P-O5'-C5'	-6.68	110.21	120.90
34	BA	788	C	C4'-C3'-C2'	6.68	109.28	102.60
35	BB	566	A	O4'-C1'-N9	6.68	113.55	108.20
34	BA	6	C	N3-C2-O2	-6.68	117.22	121.90
34	BA	39	C	P-O5'-C5'	6.68	131.59	120.90
34	BA	212	A	C8-N9-C1'	6.68	139.72	127.70
34	BA	429	G	C6-N1-C2	-6.68	121.09	125.10
34	BA	843	G	C1'-O4'-C4'	-6.68	104.56	109.90
34	BA	964	U	C4'-C3'-C2'	-6.68	95.92	102.60
34	BA	1641	G	C5-C6-O6	-6.68	124.59	128.60
35	BB	423	G	P-O3'-C3'	-6.68	111.69	119.70
38	BE	81	C	O4'-C1'-N1	6.68	113.54	108.20
39	BF	5	U	C4'-C3'-C2'	-6.68	95.92	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
73	Bn	33	ARG	NE-CZ-NH1	6.68	123.64	120.30
85	AA	18	C	C6-N1-C2	-6.68	117.63	120.30
85	AA	1302	A	O5'-C5'-C4'	6.68	124.39	111.70
85	AA	1465	C	C2-N1-C1'	-6.68	111.45	118.80
85	AA	1593	C	O4'-C1'-C2'	6.68	113.61	107.60
85	AA	1900	C	N3-C4-N4	-6.68	113.32	118.00
24	AQ	21	MET	CG-SD-CE	-6.68	89.52	100.20
35	BB	1507	U	O5'-C5'-C4'	-6.68	99.01	111.70
38	BE	112	G	C8-N9-C4	-6.68	103.73	106.40
65	Bf	72	ARG	N-CA-CB	6.68	122.62	110.60
85	AA	1379	A	O4'-C1'-N9	6.68	113.54	108.20
85	AA	1931	C	P-O3'-C3'	6.68	127.71	119.70
85	AA	2215	C	O5'-P-OP1	-6.68	99.69	105.70
34	BA	25	C	O5'-P-OP2	6.68	118.71	110.70
34	BA	319	C	C4'-C3'-C2'	-6.68	95.92	102.60
34	BA	1284	G	P-O5'-C5'	-6.68	110.22	120.90
35	BB	706	G	C4-N9-C1'	-6.68	117.82	126.50
35	BB	969	C	P-O3'-C3'	-6.68	111.69	119.70
35	BB	1508	G	O4'-C4'-C3'	-6.68	97.32	104.00
50	BQ	58	ARG	NE-CZ-NH1	6.68	123.64	120.30
65	Bf	390	ARG	NE-CZ-NH1	6.68	123.64	120.30
77	Br	160	TYR	CB-CG-CD1	6.68	125.01	121.00
85	AA	438	G	O5'-C5'-C4'	-6.68	99.02	111.70
85	AA	449	G	N9-C1'-C2'	-6.68	104.66	112.00
85	AA	467	U	C6-N1-C1'	-6.68	111.85	121.20
85	AA	589	A	OP1-P-OP2	-6.68	109.59	119.60
85	AA	1466	U	O5'-C5'-C4'	6.68	124.39	111.70
85	AA	1917	G	C4-N9-C1'	-6.68	117.82	126.50
86	AB	15	G	C8-N9-C4	-6.68	103.73	106.40
34	BA	196	A	C5-C6-N6	-6.67	118.36	123.70
34	BA	1220	C	O5'-C5'-C4'	-6.67	99.02	111.70
34	BA	1368	G	P-O5'-C5'	6.67	131.58	120.90
35	BB	498	G	C5-C6-N1	6.67	114.84	111.50
35	BB	574	G	C4-N9-C1'	-6.67	117.82	126.50
35	BB	689	C	C5'-C4'-C3'	6.67	126.68	116.00
35	BB	1266	A	C3'-C2'-C1'	-6.67	96.16	101.50
36	BC	125	A	P-O3'-C3'	-6.67	111.69	119.70
39	BF	57	C	O5'-P-OP2	-6.67	99.69	105.70
39	BF	63	U	O4'-C1'-N1	6.67	113.54	108.20
40	BG	125	C	N3-C2-O2	-6.67	117.23	121.90
67	Bh	89	SER	N-CA-CB	-6.67	100.49	110.50
82	Bw	70	TYR	CA-CB-CG	-6.67	100.72	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	30	G	C4-N9-C1'	-6.67	117.82	126.50
85	AA	874	A	O5'-C5'-C4'	6.67	124.38	111.70
34	BA	770	G	C2-N3-C4	-6.67	108.56	111.90
34	BA	1710	C	N3-C2-O2	-6.67	117.23	121.90
35	BB	1453	G	C4-N9-C1'	-6.67	117.83	126.50
85	AA	973	U	O3'-P-O5'	6.67	116.68	104.00
85	AA	1650	G	O4'-C1'-N9	6.67	113.54	108.20
85	AA	1897	A	C2-N3-C4	6.67	113.94	110.60
34	BA	36	A	C4'-C3'-C2'	-6.67	95.93	102.60
34	BA	316	G	C5-C6-N1	6.67	114.84	111.50
34	BA	1221	A	C5'-C4'-C3'	6.67	126.67	116.00
34	BA	1425	G	O3'-P-O5'	-6.67	91.33	104.00
35	BB	715	G	C5'-C4'-O4'	6.67	117.11	109.10
35	BB	835	C	C2'-C3'-O3'	6.67	124.38	113.70
35	BB	1439	U	C5'-C4'-C3'	6.67	126.68	116.00
38	BE	74	U	C2-N3-C4	-6.67	123.00	127.00
41	BH	69	C	O4'-C1'-N1	6.67	113.54	108.20
85	AA	66	U	C6-N1-C2	-6.67	117.00	121.00
85	AA	270	A	C3'-C2'-C1'	-6.67	96.16	101.50
85	AA	800	A	C5-N7-C8	-6.67	100.56	103.90
85	AA	1544	G	C8-N9-C1'	6.67	135.67	127.00
85	AA	2033	C	C5'-C4'-C3'	-6.67	105.33	116.00
34	BA	128	C	C4'-C3'-C2'	6.67	109.27	102.60
34	BA	208	A	C5-C6-N6	6.67	129.03	123.70
34	BA	342	U	P-O3'-C3'	-6.67	111.70	119.70
34	BA	573	U	OP1-P-O3'	6.67	119.87	105.20
34	BA	1829	A	O4'-C1'-N9	6.67	113.53	108.20
35	BB	822	G	N7-C8-N9	6.67	116.43	113.10
40	BG	23	C	C4'-C3'-C2'	-6.67	95.93	102.60
57	BX	101	ASN	CA-CB-CG	-6.67	98.73	113.40
80	Bu	269	ARG	NE-CZ-NH1	6.67	123.63	120.30
85	AA	264	A	N9-C4-C5	-6.67	103.13	105.80
85	AA	399	A	O4'-C1'-N9	6.67	113.54	108.20
85	AA	834	U	C3'-C2'-C1'	-6.67	96.17	101.50
34	BA	304	G	O3'-P-O5'	6.67	116.67	104.00
34	BA	506	U	C2-N3-C4	-6.67	123.00	127.00
34	BA	614	A	O4'-C1'-N9	6.67	113.53	108.20
34	BA	664	C	C3'-C2'-C1'	-6.67	96.17	101.50
36	BC	33	U	C6-N1-C2	-6.67	117.00	121.00
65	Bf	165	PHE	N-CA-CB	-6.67	98.60	110.60
85	AA	25	C	O3'-P-O5'	6.67	116.67	104.00
85	AA	455	G	C8-N9-C4	6.67	109.07	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	490	A	O4'-C1'-N9	6.67	113.53	108.20
85	AA	777	U	P-O3'-C3'	-6.67	111.70	119.70
85	AA	1080	A	O4'-C1'-N9	6.67	113.53	108.20
85	AA	1525	C	O4'-C1'-N1	6.67	113.53	108.20
85	AA	2036	A	C8-N9-C1'	-6.67	115.70	127.70
34	BA	1694	C	C5'-C4'-C3'	-6.67	105.33	116.00
35	BB	1538	G	O4'-C1'-N9	6.67	113.53	108.20
85	AA	560	C	C5'-C4'-C3'	6.67	126.66	116.00
86	AB	5	G	O4'-C1'-N9	6.67	113.53	108.20
34	BA	88	C	C6-N1-C2	-6.66	117.64	120.30
34	BA	103	G	C5'-C4'-C3'	-6.66	105.34	116.00
34	BA	294	C	N1-C2-N3	6.66	123.86	119.20
34	BA	345	G	P-O3'-C3'	-6.66	111.70	119.70
34	BA	584	A	C5-C6-N1	6.66	121.03	117.70
34	BA	835	U	O4'-C1'-N1	6.66	113.53	108.20
34	BA	938	C	O4'-C1'-C2'	6.66	113.60	107.60
34	BA	1114	G	N1-C2-N2	-6.66	110.20	116.20
34	BA	1710	C	C1'-O4'-C4'	-6.66	104.57	109.90
35	BB	78	C	N3-C2-O2	-6.66	117.23	121.90
58	BY	74	ARG	NE-CZ-NH1	6.66	123.63	120.30
85	AA	182	C	O4'-C1'-N1	6.66	113.53	108.20
85	AA	836	A	O4'-C1'-N9	6.66	113.53	108.20
85	AA	868	A	N1-C6-N6	6.66	122.60	118.60
85	AA	1540	A	N7-C8-N9	6.66	117.13	113.80
85	AA	1818	C	C5-C6-N1	6.66	124.33	121.00
34	BA	596	G	N3-C4-N9	6.66	130.00	126.00
34	BA	1497	A	N3-C4-N9	-6.66	122.07	127.40
41	BH	34	G	C5-C6-N1	6.66	114.83	111.50
48	BO	146	ASN	CA-CB-CG	-6.66	98.74	113.40
82	Bw	82	ARG	NE-CZ-NH2	-6.66	116.97	120.30
85	AA	293	A	C8-N9-C4	-6.66	103.14	105.80
85	AA	1199	C	C1'-O4'-C4'	-6.66	104.57	109.90
21	AM	151	ARG	NE-CZ-NH1	6.66	123.63	120.30
34	BA	58	A	C4'-C3'-C2'	-6.66	95.94	102.60
34	BA	375	C	N1-C2-O2	6.66	122.90	118.90
34	BA	644	C	N3-C4-C5	-6.66	119.24	121.90
34	BA	953	G	P-O3'-C3'	6.66	127.69	119.70
34	BA	1439	C	C2-N3-C4	-6.66	116.57	119.90
34	BA	1563	G	C4'-C3'-C2'	6.66	109.26	102.60
34	BA	1591	G	N1-C6-O6	-6.66	115.90	119.90
34	BA	1786	C	C6-N1-C1'	6.66	128.79	120.80
35	BB	855	G	C8-N9-C1'	6.66	135.66	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1356	G	N1-C2-N3	6.66	127.90	123.90
37	BD	87	G	C8-N9-C4	6.66	109.06	106.40
40	BG	11	G	C6-C5-N7	-6.66	126.40	130.40
40	BG	165	C	C6-N1-C2	-6.66	117.64	120.30
41	BH	111	U	O5'-C5'-C4'	-6.66	99.05	111.70
85	AA	354	C	C1'-O4'-C4'	-6.66	104.57	109.90
85	AA	1035	C	C2-N3-C4	-6.66	116.57	119.90
34	BA	441	A	C5-C6-N6	-6.66	118.37	123.70
34	BA	1712	U	P-O3'-C3'	-6.66	111.71	119.70
35	BB	1303	A	O4'-C1'-N9	6.66	113.53	108.20
36	BC	144	C	P-O3'-C3'	-6.66	111.71	119.70
40	BG	54	G	C5'-C4'-C3'	-6.66	105.34	116.00
48	BO	201	ARG	NE-CZ-NH2	-6.66	116.97	120.30
74	Bo	14	TYR	CA-CB-CG	-6.66	100.75	113.40
85	AA	109	G	C8-N9-C4	-6.66	103.74	106.40
85	AA	413	G	C4-N9-C1'	-6.66	117.84	126.50
85	AA	760	U	C1'-O4'-C4'	-6.66	104.57	109.90
34	BA	1663	U	N1-C2-N3	6.66	118.89	114.90
36	BC	17	U	C5'-C4'-O4'	6.66	117.09	109.10
39	BF	45	G	P-O5'-C5'	6.66	131.55	120.90
40	BG	1	G	P-O3'-C3'	-6.66	111.71	119.70
34	BA	14	G	P-O3'-C3'	-6.66	111.71	119.70
34	BA	1311	G	C5-C6-N1	6.66	114.83	111.50
35	BB	706	G	P-O5'-C5'	6.66	131.55	120.90
36	BC	58	G	C4-N9-C1'	-6.66	117.85	126.50
36	BC	125	A	C8-N9-C4	-6.66	103.14	105.80
38	BE	16	C	C3'-C2'-C1'	-6.66	96.17	101.50
40	BG	83	U	C2-N3-C4	-6.66	123.01	127.00
85	AA	1182	A	P-O5'-C5'	6.66	131.55	120.90
85	AA	1281	G	N9-C4-C5	-6.66	102.74	105.40
35	BB	21	C	O5'-C5'-C4'	-6.65	99.06	111.70
38	BE	195	G	C5'-C4'-O4'	6.65	117.08	109.10
41	BH	1	U	C3'-C2'-C1'	-6.65	96.18	101.50
85	AA	544	A	O5'-P-OP1	-6.65	99.71	105.70
85	AA	755	G	O5'-C5'-C4'	-6.65	99.06	111.70
85	AA	770	C	C5-C6-N1	6.65	124.33	121.00
85	AA	963	U	C3'-C2'-C1'	-6.65	96.18	101.50
85	AA	1681	G	C8-N9-C1'	6.65	135.65	127.00
34	BA	139	U	N1-C2-O2	6.65	127.46	122.80
34	BA	1277	G	N1-C6-O6	-6.65	115.91	119.90
34	BA	1841	A	C5-C6-N1	6.65	121.03	117.70
35	BB	269	A	O4'-C1'-N9	6.65	113.52	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1539	C	P-O5'-C5'	-6.65	110.26	120.90
48	BO	75	PHE	CB-CG-CD1	6.65	125.46	120.80
85	AA	1521	U	C5-C6-N1	6.65	126.03	122.70
34	BA	1435	A	O5'-C5'-C4'	-6.65	99.06	111.70
34	BA	1748	G	C8-N9-C1'	6.65	135.65	127.00
35	BB	267	C	O4'-C1'-N1	6.65	113.52	108.20
35	BB	827	U	N3-C2-O2	-6.65	117.55	122.20
36	BC	124	A	C8-N9-C1'	-6.65	115.73	127.70
41	BH	102	C	N1-C2-O2	6.65	122.89	118.90
81	Bv	66	MET	CG-SD-CE	-6.65	89.56	100.20
85	AA	177	A	C4'-C3'-C2'	6.65	109.25	102.60
85	AA	429	G	O4'-C1'-C2'	6.65	113.59	107.60
85	AA	736	U	C4'-C3'-C2'	6.65	109.25	102.60
85	AA	1826	U	C2'-C3'-O3'	6.65	124.34	113.70
85	AA	2091	C	C5'-C4'-C3'	6.65	126.64	116.00
34	BA	34	U	P-O5'-C5'	-6.65	110.26	120.90
34	BA	288	U	C4'-C3'-C2'	-6.65	95.95	102.60
34	BA	1241	U	O5'-P-OP2	6.65	118.68	110.70
65	Bf	350	ASN	N-CA-CB	6.65	122.57	110.60
85	AA	1116	G	N1-C2-N2	-6.65	110.22	116.20
20	AL	80	ARG	NE-CZ-NH1	6.65	123.62	120.30
34	BA	941	G	C8-N9-C4	6.65	109.06	106.40
34	BA	999	G	P-O3'-C3'	-6.65	111.72	119.70
34	BA	1304	C	N3-C4-N4	-6.65	113.35	118.00
34	BA	1694	C	C1'-O4'-C4'	-6.65	104.58	109.90
35	BB	388	C	P-O3'-C3'	6.65	127.68	119.70
35	BB	788	U	P-O3'-C3'	-6.65	111.72	119.70
85	AA	147	G	C3'-C2'-C1'	-6.65	96.18	101.50
85	AA	570	U	C2-N3-C4	-6.65	123.01	127.00
85	AA	717	G	O4'-C1'-N9	6.65	113.52	108.20
85	AA	857	G	C5-C6-O6	-6.65	124.61	128.60
85	AA	1181	U	P-O5'-C5'	6.65	131.54	120.90
85	AA	1525	C	C6-N1-C1'	6.65	128.78	120.80
85	AA	1796	C	C3'-C2'-C1'	-6.65	96.18	101.50
85	AA	1963	G	P-O3'-C3'	6.65	127.68	119.70
85	AA	2234	C	C1'-O4'-C4'	-6.65	104.58	109.90
3	A2	51	ARG	NE-CZ-NH2	-6.65	116.98	120.30
34	BA	94	G	C4-N9-C1'	-6.65	117.86	126.50
34	BA	492	G	N1-C6-O6	-6.65	115.91	119.90
34	BA	862	C	O4'-C1'-N1	6.65	113.52	108.20
34	BA	1521	C	O4'-C1'-N1	6.65	113.52	108.20
34	BA	1695	G	C5'-C4'-C3'	-6.65	105.37	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	458	U	N1-C2-N3	6.65	118.89	114.90
35	BB	1313	C	P-O5'-C5'	-6.65	110.27	120.90
39	BF	56	C	O5'-C5'-C4'	-6.65	99.07	111.70
41	BH	41	A	N7-C8-N9	-6.65	110.48	113.80
85	AA	349	C	O4'-C1'-N1	6.65	113.52	108.20
85	AA	881	C	C1'-O4'-C4'	-6.65	104.58	109.90
85	AA	927	A	C6-N1-C2	-6.65	114.61	118.60
34	BA	610	A	N1-C6-N6	6.64	122.59	118.60
34	BA	683	C	C1'-O4'-C4'	-6.64	104.58	109.90
34	BA	868	C	N3-C2-O2	-6.64	117.25	121.90
34	BA	1522	G	C5-C6-N1	6.64	114.82	111.50
36	BC	32	U	C1'-O4'-C4'	-6.64	104.58	109.90
36	BC	68	A	C8-N9-C4	-6.64	103.14	105.80
36	BC	151	G	P-O3'-C3'	6.64	127.67	119.70
38	BE	41	C	O4'-C1'-N1	6.64	113.52	108.20
41	BH	77	G	OP1-P-O3'	6.64	119.82	105.20
85	AA	76	G	O4'-C4'-C3'	-6.64	97.36	104.00
85	AA	210	G	C6-N1-C2	-6.64	121.11	125.10
85	AA	515	C	N3-C2-O2	-6.64	117.25	121.90
85	AA	976	G	C1'-O4'-C4'	-6.64	104.58	109.90
85	AA	1960	C	C5-C6-N1	6.64	124.32	121.00
34	BA	1739	G	C6-N1-C2	-6.64	121.11	125.10
35	BB	48	G	P-O3'-C3'	6.64	127.67	119.70
35	BB	1293	C	N1-C2-O2	6.64	122.89	118.90
85	AA	730	G	N3-C4-C5	-6.64	125.28	128.60
85	AA	731	U	O3'-P-O5'	-6.64	91.38	104.00
85	AA	1934	A	P-O5'-C5'	6.64	131.53	120.90
1	A0	101	GLN	C-N-CA	6.64	138.30	121.70
4	A3	212	TYR	CB-CG-CD1	-6.64	117.02	121.00
34	BA	862	C	C1'-O4'-C4'	-6.64	104.59	109.90
35	BB	1094	A	C4-N9-C1'	-6.64	114.35	126.30
41	BH	4	U	C4'-C3'-C2'	6.64	109.24	102.60
41	BH	77	G	O5'-P-OP2	-6.64	99.72	105.70
85	AA	186	U	P-O5'-C5'	-6.64	110.28	120.90
85	AA	1396	C	O4'-C1'-N1	6.64	113.51	108.20
85	AA	1505	G	C4-N9-C1'	-6.64	117.87	126.50
34	BA	542	A	O4'-C1'-N9	6.64	113.51	108.20
34	BA	560	U	O4'-C1'-N1	6.64	113.51	108.20
34	BA	817	U	C1'-O4'-C4'	-6.64	104.59	109.90
34	BA	853	A	N1-C6-N6	-6.64	114.62	118.60
34	BA	1149	C	C5-C4-N4	6.64	124.85	120.20
34	BA	1186	U	C5-C6-N1	6.64	126.02	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1484	A	C5-C6-N1	6.64	121.02	117.70
34	BA	1538	G	C5-C6-O6	-6.64	124.62	128.60
34	BA	1650	G	C1'-O4'-C4'	-6.64	104.59	109.90
35	BB	1497	C	N3-C2-O2	-6.64	117.25	121.90
38	BE	22	A	O4'-C1'-N9	6.64	113.51	108.20
40	BG	64	C	O4'-C1'-N1	6.64	113.51	108.20
85	AA	308	U	C5'-C4'-O4'	6.64	117.07	109.10
85	AA	788	G	C4-N9-C1'	-6.64	117.87	126.50
85	AA	856	G	O4'-C4'-C3'	-6.64	97.36	104.00
85	AA	941	C	N3-C2-O2	-6.64	117.25	121.90
85	AA	2158	U	C5'-C4'-C3'	-6.64	105.38	116.00
7	A6	2	ARG	NE-CZ-NH1	6.64	123.62	120.30
34	BA	280	A	C5'-C4'-C3'	-6.64	105.38	116.00
34	BA	518	C	P-O3'-C3'	6.64	127.67	119.70
34	BA	1305	A	C5'-C4'-C3'	-6.64	105.38	116.00
34	BA	1416	C	C4'-C3'-C2'	6.64	109.24	102.60
34	BA	1534	U	O5'-P-OP1	-6.64	99.73	105.70
78	Bs	46	ARG	NE-CZ-NH1	6.64	123.62	120.30
85	AA	493	A	N1-C6-N6	-6.64	114.62	118.60
85	AA	1976	G	C1'-O4'-C4'	-6.64	104.59	109.90
34	BA	494	A	O4'-C1'-N9	6.64	113.51	108.20
34	BA	867	C	N3-C2-O2	-6.64	117.25	121.90
35	BB	52	G	C4'-C3'-C2'	6.64	109.24	102.60
35	BB	488	G	C4-N9-C1'	-6.64	117.87	126.50
35	BB	1185	G	C1'-O4'-C4'	-6.64	104.59	109.90
38	BE	139	U	C4'-C3'-C2'	-6.64	95.96	102.60
40	BG	1	G	C1'-O4'-C4'	-6.64	104.59	109.90
41	BH	102	C	N3-C4-C5	6.64	124.56	121.90
81	Bv	179	PHE	N-CA-CB	6.64	122.55	110.60
85	AA	649	C	C3'-C2'-C1'	-6.64	96.19	101.50
85	AA	919	U	O3'-P-O5'	6.64	116.61	104.00
85	AA	1288	A	C8-N9-C4	-6.64	103.14	105.80
85	AA	2201	A	O4'-C1'-N9	6.64	113.51	108.20
23	AP	87	ARG	N-CA-CB	6.63	122.54	110.60
34	BA	688	G	C1'-O4'-C4'	-6.63	104.59	109.90
34	BA	1611	A	C5'-C4'-C3'	-6.63	105.38	116.00
35	BB	81	A	P-O5'-C5'	6.63	131.51	120.90
35	BB	713	U	C2'-C3'-O3'	6.63	124.31	113.70
36	BC	65	G	C1'-O4'-C4'	-6.63	104.59	109.90
47	BN	44	ARG	N-CA-CB	-6.63	98.66	110.60
85	AA	335	G	C4-N9-C1'	-6.63	117.88	126.50
85	AA	368	C	N1-C2-N3	6.63	123.84	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	451	G	C5'-C4'-C3'	-6.63	105.39	116.00
85	AA	867	G	C1'-O4'-C4'	-6.63	104.59	109.90
85	AA	1384	C	O4'-C1'-N1	6.63	113.51	108.20
85	AA	2085	C	O5'-C5'-C4'	-6.63	99.09	111.70
34	BA	1472	G	N7-C8-N9	-6.63	109.78	113.10
34	BA	1798	G	O4'-C1'-N9	6.63	113.51	108.20
85	AA	1634	U	N1-C2-O2	6.63	127.44	122.80
15	AG	69	ARG	NE-CZ-NH1	6.63	123.62	120.30
34	BA	60	A	C5-C6-N6	-6.63	118.39	123.70
34	BA	90	G	O4'-C1'-N9	6.63	113.51	108.20
34	BA	103	G	N3-C2-N2	6.63	124.54	119.90
34	BA	899	G	C3'-C2'-C1'	-6.63	96.19	101.50
34	BA	1137	U	C2-N1-C1'	-6.63	109.74	117.70
34	BA	1161	G	N3-C2-N2	6.63	124.54	119.90
34	BA	1282	G	O5'-P-OP2	-6.63	99.73	105.70
34	BA	1412	G	C5'-C4'-C3'	-6.63	105.39	116.00
34	BA	1699	A	O3'-P-O5'	6.63	116.60	104.00
35	BB	486	G	C5'-C4'-C3'	6.63	126.61	116.00
35	BB	660	G	P-O3'-C3'	6.63	127.66	119.70
35	BB	1348	C	C3'-C2'-C1'	-6.63	96.19	101.50
40	BG	151	A	C1'-O4'-C4'	-6.63	104.59	109.90
65	Bf	351	GLN	N-CA-CB	6.63	122.54	110.60
85	AA	126	U	C4'-C3'-C2'	-6.63	95.97	102.60
85	AA	678	A	O3'-P-O5'	-6.63	91.40	104.00
85	AA	1076	U	O4'-C1'-N1	6.63	113.50	108.20
34	BA	103	G	N9-C1'-C2'	-6.63	104.71	112.00
41	BH	76	G	N1-C6-O6	-6.63	115.92	119.90
85	AA	1496	U	N3-C2-O2	-6.63	117.56	122.20
34	BA	1345	U	O4'-C1'-N1	6.63	113.50	108.20
34	BA	1573	C	C4'-C3'-C2'	6.63	109.23	102.60
35	BB	901	U	O4'-C4'-C3'	-6.63	97.37	104.00
38	BE	146	U	C2-N1-C1'	-6.63	109.75	117.70
39	BF	60	C	C5'-C4'-O4'	6.63	117.05	109.10
54	BU	116	ARG	NE-CZ-NH1	6.63	123.61	120.30
57	BX	125	TYR	CA-CB-CG	-6.63	100.81	113.40
62	Bc	26	ARG	NE-CZ-NH1	6.63	123.61	120.30
85	AA	273	C	C1'-O4'-C4'	-6.63	104.60	109.90
85	AA	1114	A	C4-C5-C6	-6.63	113.69	117.00
85	AA	1210	U	C4-C5-C6	-6.63	115.72	119.70
85	AA	1516	A	C5'-C4'-O4'	6.63	117.05	109.10
85	AA	1934	A	C5-C6-N1	6.63	121.01	117.70
34	BA	489	A	C1'-O4'-C4'	-6.63	104.60	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	784	C	C5'-C4'-C3'	6.63	126.60	116.00
34	BA	1035	A	P-O3'-C3'	6.63	127.65	119.70
35	BB	119	G	C4-N9-C1'	-6.63	117.88	126.50
35	BB	1024	G	C8-N9-C1'	6.63	135.62	127.00
37	BD	75	G	P-O3'-C3'	6.63	127.65	119.70
85	AA	974	U	P-O5'-C5'	6.63	131.50	120.90
85	AA	1794	U	C2-N1-C1'	-6.63	109.75	117.70
86	AB	55	U	P-O3'-C3'	-6.63	111.75	119.70
3	A2	57	ARG	NE-CZ-NH1	6.62	123.61	120.30
34	BA	180	G	N1-C6-O6	6.62	123.88	119.90
34	BA	527	C	C2-N3-C4	-6.62	116.59	119.90
34	BA	847	U	C6-N1-C2	-6.62	117.03	121.00
35	BB	857	G	O3'-P-O5'	6.62	116.59	104.00
35	BB	1346	A	C5-C6-N1	6.62	121.01	117.70
35	BB	1480	G	N1-C2-N3	-6.62	119.92	123.90
36	BC	169	G	O4'-C1'-N9	6.62	113.50	108.20
37	BD	48	G	N1-C2-N3	-6.62	119.92	123.90
85	AA	739	C	O4'-C1'-N1	6.62	113.50	108.20
34	BA	159	U	C6-N1-C2	-6.62	117.03	121.00
34	BA	573	U	C6-N1-C2	-6.62	117.03	121.00
34	BA	590	U	C3'-C2'-C1'	-6.62	96.20	101.50
34	BA	1041	U	O5'-C5'-C4'	-6.62	99.12	111.70
34	BA	1412	G	O4'-C1'-N9	6.62	113.50	108.20
35	BB	4	C	O5'-P-OP1	6.62	118.65	110.70
35	BB	1053	G	N3-C4-C5	-6.62	125.29	128.60
35	BB	1383	C	P-O3'-C3'	-6.62	111.75	119.70
35	BB	1484	A	P-O3'-C3'	-6.62	111.75	119.70
41	BH	58	C	C2-N1-C1'	-6.62	111.51	118.80
45	BL	138	LEU	C-N-CA	6.62	136.21	122.30
85	AA	1687	U	C3'-C2'-C1'	-6.62	96.20	101.50
86	AB	68	C	C6-N1-C1'	6.62	128.75	120.80
26	AS	107	ARG	NE-CZ-NH2	-6.62	116.99	120.30
34	BA	250	G	OP1-P-OP2	-6.62	109.67	119.60
34	BA	1371	U	C5'-C4'-C3'	-6.62	105.41	116.00
35	BB	481	A	C5'-C4'-O4'	6.62	117.05	109.10
35	BB	912	C	O4'-C1'-N1	6.62	113.50	108.20
35	BB	916	U	O4'-C1'-N1	6.62	113.50	108.20
35	BB	1476	C	C2-N1-C1'	-6.62	111.52	118.80
35	BB	1477	C	N3-C2-O2	-6.62	117.27	121.90
37	BD	48	G	N9-C1'-C2'	-6.62	104.72	112.00
85	AA	469	G	C4-N9-C1'	-6.62	117.89	126.50
85	AA	568	C	C6-N1-C1'	6.62	128.75	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1280	U	O4'-C1'-N1	6.62	113.50	108.20
2	A1	110	ARG	CB-CA-C	-6.62	97.16	110.40
34	BA	1832	A	C1'-O4'-C4'	-6.62	104.60	109.90
77	Br	216	THR	N-CA-CB	6.62	122.88	110.30
85	AA	109	G	P-O3'-C3'	-6.62	111.76	119.70
85	AA	572	G	C4'-C3'-C2'	-6.62	95.98	102.60
85	AA	1649	U	P-O3'-C3'	6.62	127.64	119.70
85	AA	2167	A	C8-N9-C1'	6.62	139.62	127.70
34	BA	136	A	C1'-O4'-C4'	-6.62	104.61	109.90
34	BA	243	C	C6-N1-C2	-6.62	117.65	120.30
34	BA	260	A	C1'-O4'-C4'	-6.62	104.61	109.90
34	BA	576	C	C2-N1-C1'	6.62	126.08	118.80
34	BA	909	G	C5-C6-N1	6.62	114.81	111.50
34	BA	1084	A	O5'-C5'-C4'	6.62	124.28	111.70
34	BA	1354	G	N1-C6-O6	6.62	123.87	119.90
34	BA	1563	G	C5'-C4'-C3'	-6.62	105.41	116.00
39	BF	44	C	O4'-C1'-N1	6.62	113.50	108.20
40	BG	140	G	C8-N9-C4	6.62	109.05	106.40
85	AA	38	C	O4'-C1'-N1	6.62	113.50	108.20
85	AA	171	U	C2'-C3'-O3'	6.62	124.29	113.70
85	AA	207	G	N7-C8-N9	6.62	116.41	113.10
85	AA	853	G	O5'-P-OP1	6.62	118.64	110.70
85	AA	863	C	N1-C2-N3	6.62	123.83	119.20
85	AA	1252	A	O4'-C1'-N9	6.62	113.50	108.20
85	AA	1495	G	C4-N9-C1'	-6.62	117.90	126.50
85	AA	2015	U	P-O5'-C5'	-6.62	110.31	120.90
34	BA	1146	U	C1'-O4'-C4'	-6.62	104.61	109.90
35	BB	509	A	C5-C6-N6	-6.62	118.41	123.70
59	BZ	111	ARG	NE-CZ-NH2	-6.62	116.99	120.30
66	Bg	107	GLY	N-CA-C	-6.62	96.56	113.10
85	AA	577	U	C6-N1-C2	-6.62	117.03	121.00
5	A4	75	LEU	N-CA-CB	-6.62	97.17	110.40
34	BA	59	A	C5'-C4'-O4'	6.62	117.04	109.10
34	BA	117	C	C5'-C4'-O4'	6.62	117.04	109.10
34	BA	253	U	P-O3'-C3'	-6.62	111.76	119.70
34	BA	1503	U	C5-C6-N1	-6.62	119.39	122.70
35	BB	4	C	C5'-C4'-C3'	6.62	126.58	116.00
35	BB	95	A	C3'-C2'-C1'	-6.62	96.21	101.50
35	BB	1541	G	N3-C2-N2	6.62	124.53	119.90
36	BC	66	G	C5-C6-O6	-6.62	124.63	128.60
40	BG	73	U	C2-N1-C1'	-6.62	109.76	117.70
66	Bg	70	TYR	CB-CG-CD1	-6.62	117.03	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	438	G	C1'-O4'-C4'	-6.62	104.61	109.90
85	AA	1258	U	P-O5'-C5'	6.62	131.49	120.90
34	BA	51	C	P-O3'-C3'	-6.61	111.77	119.70
34	BA	103	G	N1-C6-O6	-6.61	115.93	119.90
34	BA	114	U	P-O3'-C3'	6.61	127.64	119.70
34	BA	125	G	C5-C6-N1	6.61	114.81	111.50
34	BA	489	A	O4'-C4'-C3'	-6.61	97.39	104.00
34	BA	1126	U	C5'-C4'-C3'	6.61	126.58	116.00
34	BA	1239	G	N1-C6-O6	-6.61	115.93	119.90
35	BB	1224	C	C5'-C4'-O4'	6.61	117.04	109.10
38	BE	97	G	P-O5'-C5'	-6.61	110.32	120.90
38	BE	109	C	P-O5'-C5'	6.61	131.48	120.90
40	BG	182	G	O4'-C1'-N9	6.61	113.49	108.20
41	BH	120	C	P-O5'-C5'	-6.61	110.32	120.90
66	Bg	34	TYR	CB-CG-CD1	-6.61	117.03	121.00
73	Bn	66	TYR	N-CA-CB	-6.61	98.69	110.60
85	AA	1944	C	O4'-C1'-N1	6.61	113.49	108.20
35	BB	728	A	C8-N9-C4	-6.61	103.16	105.80
40	BG	129	G	N9-C1'-C2'	-6.61	104.73	112.00
85	AA	150	U	C2-N1-C1'	-6.61	109.77	117.70
85	AA	1363	U	C4'-C3'-C2'	-6.61	95.99	102.60
35	BB	513	G	C4-N9-C1'	-6.61	117.91	126.50
35	BB	976	U	C1'-O4'-C4'	-6.61	104.61	109.90
35	BB	1440	A	C8-N9-C4	6.61	108.44	105.80
45	BL	64	PHE	CB-CG-CD2	-6.61	116.17	120.80
59	BZ	57	ARG	NE-CZ-NH1	6.61	123.61	120.30
85	AA	68	A	P-O5'-C5'	-6.61	110.32	120.90
85	AA	1058	G	O4'-C1'-N9	6.61	113.49	108.20
85	AA	2237	G	C4-N9-C1'	-6.61	117.91	126.50
34	BA	135	G	C1'-O4'-C4'	-6.61	104.61	109.90
34	BA	374	U	C1'-O4'-C4'	-6.61	104.61	109.90
34	BA	501	U	C4'-C3'-C2'	-6.61	95.99	102.60
34	BA	1379	G	C5-C6-O6	-6.61	124.64	128.60
34	BA	1649	A	N9-C1'-C2'	6.61	122.59	114.00
34	BA	1736	A	P-O5'-C5'	6.61	131.47	120.90
35	BB	1096	G	C6-N1-C2	-6.61	121.14	125.10
36	BC	130	U	N3-C2-O2	-6.61	117.57	122.20
37	BD	112	U	C6-N1-C1'	6.61	130.45	121.20
40	BG	115	C	C1'-O4'-C4'	-6.61	104.61	109.90
85	AA	1776	C	O4'-C1'-N1	6.61	113.49	108.20
34	BA	69	C	N3-C4-N4	-6.61	113.37	118.00
34	BA	383	G	N1-C6-O6	6.61	123.86	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	127	U	C2-N3-C4	-6.61	123.04	127.00
35	BB	1151	A	N9-C4-C5	6.61	108.44	105.80
35	BB	1162	A	C4-N9-C1'	6.61	138.19	126.30
35	BB	1508	G	N9-C1'-C2'	-6.61	104.73	112.00
85	AA	354	C	P-O5'-C5'	-6.61	110.33	120.90
85	AA	930	G	O4'-C1'-N9	6.61	113.48	108.20
85	AA	1480	C	N1-C1'-C2'	-6.61	104.73	112.00
85	AA	1675	U	O4'-C1'-N1	6.61	113.49	108.20
86	AB	11	C	O4'-C1'-N1	6.61	113.49	108.20
34	BA	9	A	C1'-O4'-C4'	-6.61	104.61	109.90
34	BA	571	G	C5'-C4'-C3'	6.61	126.57	116.00
36	BC	139	A	N7-C8-N9	6.61	117.10	113.80
85	AA	273	C	O4'-C1'-N1	6.61	113.48	108.20
85	AA	292	C	C5'-C4'-C3'	6.61	126.57	116.00
85	AA	814	G	N9-C1'-C2'	-6.61	104.73	112.00
85	AA	1229	G	N1-C6-O6	-6.61	115.94	119.90
85	AA	1238	U	O4'-C1'-N1	6.61	113.48	108.20
86	AB	24	G	O4'-C1'-N9	6.61	113.48	108.20
34	BA	567	U	C5'-C4'-C3'	-6.60	105.43	116.00
34	BA	1377	A	O4'-C1'-N9	6.60	113.48	108.20
35	BB	710	A	C4-N9-C1'	-6.60	114.41	126.30
35	BB	795	A	N1-C6-N6	-6.60	114.64	118.60
38	BE	17	U	N1-C1'-C2'	-6.60	104.74	112.00
83	Bx	205	ARG	NE-CZ-NH1	6.60	123.60	120.30
85	AA	259	A	C4-N9-C1'	-6.60	114.41	126.30
85	AA	436	G	O4'-C1'-N9	6.60	113.48	108.20
34	BA	460	G	C8-N9-C1'	6.60	135.58	127.00
34	BA	686	U	C6-N1-C2	-6.60	117.04	121.00
34	BA	1171	C	C6-N1-C2	-6.60	117.66	120.30
34	BA	1699	A	C4'-C3'-O3'	6.60	126.20	113.00
35	BB	775	U	P-O5'-C5'	6.60	131.47	120.90
35	BB	859	U	C1'-O4'-C4'	-6.60	104.62	109.90
36	BC	122	A	C5-C6-N6	-6.60	118.42	123.70
37	BD	42	A	C5'-C4'-C3'	-6.60	105.44	116.00
40	BG	176	G	P-O5'-C5'	6.60	131.46	120.90
50	BQ	137	TRP	CB-CG-CD2	-6.60	118.02	126.60
73	Bn	57	ARG	NE-CZ-NH2	-6.60	117.00	120.30
85	AA	993	G	C5'-C4'-C3'	-6.60	105.44	116.00
85	AA	1055	U	O4'-C1'-N1	6.60	113.48	108.20
85	AA	1454	U	N3-C2-O2	-6.60	117.58	122.20
85	AA	1806	C	C2-N1-C1'	6.60	126.06	118.80
85	AA	1905	A	C6-N1-C2	-6.60	114.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
86	AB	3	C	N3-C4-N4	6.60	122.62	118.00
32	AY	18	THR	N-CA-CB	6.60	122.84	110.30
35	BB	1290	C	C3'-C2'-C1'	-6.60	96.22	101.50
85	AA	271	A	C3'-C2'-C1'	-6.60	96.22	101.50
85	AA	851	G	P-O5'-C5'	-6.60	110.34	120.90
85	AA	1183	C	C6-N1-C1'	-6.60	112.88	120.80
85	AA	1713	A	N1-C6-N6	6.60	122.56	118.60
85	AA	1719	C	C6-N1-C2	-6.60	117.66	120.30
34	BA	136	A	C5'-C4'-C3'	-6.60	105.44	116.00
34	BA	327	G	C6-N1-C2	-6.60	121.14	125.10
34	BA	869	C	P-O5'-C5'	-6.60	110.34	120.90
35	BB	653	G	N9-C1'-C2'	-6.60	104.74	112.00
35	BB	1134	G	C5-N7-C8	-6.60	101.00	104.30
35	BB	1332	G	O4'-C1'-N9	6.60	113.48	108.20
35	BB	1533	U	C6-N1-C1'	-6.60	111.96	121.20
40	BG	159	A	C5-C6-N1	6.60	121.00	117.70
43	BJ	57	ARG	NE-CZ-NH2	-6.60	117.00	120.30
45	BL	159	HIS	CA-CB-CG	-6.60	102.38	113.60
85	AA	185	A	N1-C6-N6	6.60	122.56	118.60
85	AA	1109	G	C4'-C3'-C2'	6.60	109.20	102.60
85	AA	2124	G	C5-C6-O6	-6.60	124.64	128.60
12	AD	72	TYR	CB-CG-CD2	-6.60	117.04	121.00
34	BA	295	G	C5'-C4'-C3'	-6.60	105.44	116.00
34	BA	877	U	C5-C6-N1	-6.60	119.40	122.70
34	BA	1170	A	C3'-C2'-C1'	-6.60	96.22	101.50
35	BB	1092	G	P-O5'-C5'	6.60	131.46	120.90
38	BE	147	G	C5-C6-N1	6.60	114.80	111.50
38	BE	193	A	N7-C8-N9	6.60	117.10	113.80
40	BG	50	G	C8-N9-C4	6.60	109.04	106.40
40	BG	139	U	C5-C4-O4	6.60	129.86	125.90
41	BH	29	G	C2-N3-C4	-6.60	108.60	111.90
85	AA	318	A	O4'-C1'-N9	-6.60	102.92	108.20
85	AA	523	U	C5-C4-O4	-6.60	121.94	125.90
85	AA	2125	A	C4'-C3'-C2'	6.60	109.20	102.60
6	A5	204	GLU	C-N-CA	6.60	136.15	122.30
35	BB	458	U	C1'-O4'-C4'	-6.60	104.62	109.90
41	BH	44	A	C5-C6-N6	-6.60	118.42	123.70
85	AA	59	C	N3-C4-N4	6.60	122.62	118.00
85	AA	527	A	C8-N9-C4	6.60	108.44	105.80
85	AA	1134	G	C5-C6-N1	6.60	114.80	111.50
85	AA	1551	G	C8-N9-C1'	-6.60	118.42	127.00
35	BB	135	C	C2-N1-C1'	-6.59	111.55	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	713	U	C2-N1-C1'	-6.59	109.79	117.70
35	BB	1448	U	O5'-C5'-C4'	-6.59	99.17	111.70
83	Bx	265	ARG	NE-CZ-NH1	6.59	123.60	120.30
85	AA	315	U	C3'-C2'-C1'	-6.59	96.22	101.50
85	AA	523	U	N3-C4-O4	6.59	124.02	119.40
85	AA	803	C	O4'-C1'-N1	6.59	113.48	108.20
85	AA	1856	G	P-O3'-C3'	-6.59	111.79	119.70
85	AA	2248	A	P-O3'-C3'	6.59	127.61	119.70
34	BA	106	U	P-O3'-C3'	-6.59	111.79	119.70
35	BB	599	U	C5'-C4'-O4'	6.59	117.01	109.10
40	BG	13	A	P-O5'-C5'	-6.59	110.35	120.90
41	BH	9	C	C6-N1-C2	-6.59	117.66	120.30
41	BH	99	G	O4'-C1'-N9	6.59	113.47	108.20
85	AA	815	G	C1'-O4'-C4'	-6.59	104.63	109.90
85	AA	818	C	C4-C5-C6	-6.59	114.10	117.40
34	BA	798	G	O3'-P-O5'	6.59	116.53	104.00
34	BA	1049	G	C5-C6-O6	-6.59	124.64	128.60
34	BA	1735	G	C5-C6-N1	6.59	114.80	111.50
35	BB	496	C	C3'-C2'-C1'	-6.59	96.23	101.50
35	BB	1446	C	O4'-C1'-C2'	6.59	113.53	107.60
40	BG	95	U	C6-N1-C1'	6.59	130.43	121.20
85	AA	939	A	C4'-C3'-C2'	-6.59	96.01	102.60
34	BA	537	C	C6-N1-C1'	6.59	128.71	120.80
34	BA	594	G	C5'-C4'-C3'	6.59	126.54	116.00
34	BA	1072	U	N1-C1'-C2'	-6.59	104.75	112.00
35	BB	80	C	C5-C4-N4	6.59	124.81	120.20
35	BB	893	U	N1-C1'-C2'	-6.59	104.75	112.00
35	BB	1464	G	P-O5'-C5'	6.59	131.44	120.90
37	BD	26	C	C5'-C4'-O4'	6.59	117.01	109.10
38	BE	119	U	C6-N1-C2	-6.59	117.05	121.00
39	BF	36	G	C4-N9-C1'	-6.59	117.93	126.50
47	BN	74	ARG	NE-CZ-NH2	-6.59	117.01	120.30
85	AA	568	C	N3-C2-O2	-6.59	117.29	121.90
85	AA	650	G	P-O3'-C3'	6.59	127.61	119.70
85	AA	690	G	N1-C2-N2	-6.59	110.27	116.20
85	AA	941	C	OP1-P-OP2	-6.59	109.72	119.60
85	AA	1004	G	N7-C8-N9	6.59	116.39	113.10
85	AA	2100	A	C6-N1-C2	-6.59	114.65	118.60
85	AA	2107	C	P-O5'-C5'	6.59	131.44	120.90
85	AA	2227	A	C4-N9-C1'	-6.59	114.44	126.30
34	BA	185	A	C1'-O4'-C4'	-6.59	104.63	109.90
34	BA	1502	G	C5-C6-O6	-6.59	124.65	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1798	G	OP1-P-OP2	-6.59	109.72	119.60
35	BB	1328	C	O4'-C1'-N1	6.59	113.47	108.20
36	BC	155	C	C5'-C4'-C3'	-6.59	105.46	116.00
44	BK	75	TYR	CB-CG-CD1	-6.59	117.05	121.00
49	BP	163	ARG	NE-CZ-NH2	-6.59	117.01	120.30
81	Bv	176	HIS	CA-CB-CG	-6.59	102.40	113.60
85	AA	879	G	C8-N9-C4	6.59	109.03	106.40
85	AA	1211	C	N1-C1'-C2'	-6.59	104.75	112.00
34	BA	134	U	C2-N1-C1'	-6.59	109.80	117.70
34	BA	817	U	C3'-C2'-C1'	-6.59	96.23	101.50
34	BA	1070	G	C5-N7-C8	-6.59	101.01	104.30
34	BA	1608	C	P-O3'-C3'	-6.59	111.80	119.70
34	BA	1609	U	C2'-C3'-O3'	6.59	124.24	113.70
34	BA	1722	U	P-O3'-C3'	-6.59	111.80	119.70
35	BB	420	U	C3'-C2'-C1'	-6.59	96.23	101.50
35	BB	1487	G	C5-C6-N1	6.59	114.79	111.50
38	BE	128	G	C4'-C3'-C2'	6.59	109.19	102.60
39	BF	13	U	C4'-C3'-C2'	-6.59	96.01	102.60
40	BG	20	U	C2-N1-C1'	-6.59	109.80	117.70
41	BH	127	A	C6-N1-C2	-6.59	114.65	118.60
51	BR	30	PHE	CB-CG-CD1	6.59	125.41	120.80
85	AA	19	A	P-O5'-C5'	6.59	131.44	120.90
85	AA	117	C	C3'-C2'-C1'	-6.59	96.23	101.50
85	AA	252	G	N9-C1'-C2'	6.59	122.56	114.00
85	AA	557	G	N9-C1'-C2'	-6.59	104.75	112.00
85	AA	650	G	C1'-O4'-C4'	-6.59	104.63	109.90
85	AA	1471	G	C8-N9-C4	6.59	109.03	106.40
85	AA	1661	U	N1-C2-N3	6.59	118.85	114.90
34	BA	736	G	O5'-P-OP2	6.58	118.60	110.70
34	BA	1156	U	C5-C4-O4	6.58	129.85	125.90
34	BA	1724	G	O3'-P-O5'	6.58	116.51	104.00
35	BB	1133	C	C2-N1-C1'	-6.58	111.56	118.80
85	AA	48	G	N1-C6-O6	-6.58	115.95	119.90
34	BA	858	C	N1-C2-O2	6.58	122.85	118.90
35	BB	29	C	C5'-C4'-C3'	6.58	126.53	116.00
35	BB	417	A	C5-C6-N6	-6.58	118.43	123.70
35	BB	498	G	C4-N9-C1'	-6.58	117.94	126.50
35	BB	1442	C	P-O3'-C3'	-6.58	111.80	119.70
35	BB	1448	U	N1-C2-N3	6.58	118.85	114.90
37	BD	73	U	C2-N3-C4	-6.58	123.05	127.00
38	BE	27	A	N9-C1'-C2'	-6.58	104.76	112.00
85	AA	701	C	C5'-C4'-C3'	6.58	126.53	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1167	G	C8-N9-C4	-6.58	103.77	106.40
85	AA	1259	U	O4'-C4'-C3'	-6.58	97.42	104.00
85	AA	1406	U	P-O3'-C3'	6.58	127.60	119.70
85	AA	1938	G	C4-N9-C1'	-6.58	117.94	126.50
21	AM	84	PHE	CB-CG-CD2	-6.58	116.19	120.80
23	AP	82	ARG	NE-CZ-NH1	6.58	123.59	120.30
34	BA	130	U	O5'-C5'-C4'	-6.58	99.19	111.70
34	BA	817	U	P-O3'-C3'	-6.58	111.80	119.70
34	BA	1072	U	C3'-C2'-C1'	-6.58	96.24	101.50
34	BA	1406	U	O4'-C1'-N1	6.58	113.47	108.20
35	BB	598	C	C1'-O4'-C4'	-6.58	104.64	109.90
35	BB	893	U	P-O3'-C3'	6.58	127.60	119.70
38	BE	198	A	C5-C6-N1	6.58	120.99	117.70
85	AA	400	G	C8-N9-C1'	6.58	135.56	127.00
85	AA	483	G	C8-N9-C1'	-6.58	118.44	127.00
85	AA	720	A	C3'-C2'-C1'	-6.58	96.23	101.50
85	AA	1270	C	C5-C6-N1	-6.58	117.71	121.00
85	AA	1787	G	C8-N9-C1'	6.58	135.56	127.00
34	BA	1705	C	P-O3'-C3'	6.58	127.60	119.70
35	BB	400	C	O4'-C1'-N1	6.58	113.46	108.20
35	BB	1425	A	C4-N9-C1'	-6.58	114.46	126.30
37	BD	19	C	C1'-O4'-C4'	-6.58	104.64	109.90
40	BG	17	A	N1-C6-N6	6.58	122.55	118.60
52	BS	42	ARG	NE-CZ-NH2	-6.58	117.01	120.30
52	BS	119	ARG	NE-CZ-NH1	6.58	123.59	120.30
85	AA	1162	A	O4'-C1'-C2'	6.58	113.52	107.60
85	AA	1283	C	N3-C2-O2	-6.58	117.29	121.90
22	AO	60	ARG	NE-CZ-NH2	-6.58	117.01	120.30
27	AT	117	ARG	N-CA-CB	6.58	122.44	110.60
34	BA	522	C	N1-C1'-C2'	-6.58	104.76	112.00
34	BA	1227	U	C2-N3-C4	-6.58	123.05	127.00
34	BA	1656	A	C4-C5-C6	-6.58	113.71	117.00
35	BB	104	G	O4'-C1'-N9	6.58	113.46	108.20
35	BB	481	A	C1'-O4'-C4'	-6.58	104.64	109.90
35	BB	794	G	N1-C6-O6	-6.58	115.95	119.90
35	BB	1098	G	C8-N9-C4	6.58	109.03	106.40
35	BB	1488	G	N3-C2-N2	6.58	124.50	119.90
36	BC	14	G	P-O3'-C3'	-6.58	111.81	119.70
36	BC	136	G	C8-N9-C1'	6.58	135.55	127.00
40	BG	4	A	N9-C4-C5	6.58	108.43	105.80
44	BK	157	MET	CG-SD-CE	6.58	110.72	100.20
85	AA	164	G	C1'-O4'-C4'	-6.58	104.64	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	411	U	C2-N1-C1'	-6.58	109.81	117.70
85	AA	1202	G	N3-C2-N2	6.58	124.50	119.90
85	AA	1676	G	C6-N1-C2	-6.58	121.15	125.10
85	AA	1725	G	P-O3'-C3'	6.58	127.59	119.70
85	AA	2218	G	C8-N9-C4	6.58	109.03	106.40
34	BA	252	A	C4'-C3'-C2'	-6.58	96.02	102.60
35	BB	1337	C	N3-C2-O2	-6.58	117.30	121.90
36	BC	69	U	C4'-C3'-C2'	6.58	109.18	102.60
38	BE	155	C	O4'-C1'-C2'	-6.58	99.22	105.80
85	AA	1520	A	C4'-C3'-C2'	-6.58	96.02	102.60
2	A1	27	ARG	NE-CZ-NH1	6.58	123.59	120.30
34	BA	344	G	C5-C6-O6	-6.58	124.66	128.60
34	BA	668	G	C5-C6-O6	-6.58	124.66	128.60
34	BA	690	G	C5-C6-N1	6.58	114.79	111.50
34	BA	1073	G	N9-C1'-C2'	-6.58	104.77	112.00
34	BA	1724	G	C5-C6-O6	6.58	132.55	128.60
35	BB	661	G	P-O3'-C3'	-6.58	111.81	119.70
35	BB	709	G	P-O3'-C3'	6.58	127.59	119.70
35	BB	1129	C	C6-N1-C2	-6.58	117.67	120.30
35	BB	1371	G	C5'-C4'-C3'	-6.58	105.48	116.00
83	Bx	111	ALA	N-CA-CB	-6.58	100.89	110.10
85	AA	2050	C	O4'-C1'-C2'	-6.58	99.22	105.80
34	BA	1176	C	N3-C4-N4	-6.57	113.40	118.00
34	BA	1331	G	C5-C6-O6	-6.57	124.66	128.60
34	BA	1585	A	C2'-C3'-O3'	6.57	124.22	113.70
34	BA	1593	U	N1-C2-N3	6.57	118.84	114.90
35	BB	582	G	P-O3'-C3'	-6.57	111.81	119.70
35	BB	1100	C	O4'-C1'-N1	6.57	113.46	108.20
35	BB	1460	G	P-O3'-C3'	6.57	127.59	119.70
38	BE	100	U	O3'-P-O5'	6.57	116.49	104.00
40	BG	137	G	P-O3'-C3'	-6.57	111.81	119.70
65	Bf	111	VAL	CB-CA-C	-6.57	98.91	111.40
85	AA	1574	C	C4'-C3'-C2'	-6.57	96.03	102.60
85	AA	1649	U	C6-N1-C1'	6.57	130.40	121.20
85	AA	1903	G	C5'-C4'-C3'	-6.57	105.48	116.00
85	AA	2065	U	O4'-C1'-N1	6.57	113.46	108.20
85	AA	2093	U	O4'-C1'-N1	6.57	113.46	108.20
24	AQ	84	ARG	NE-CZ-NH1	6.57	123.59	120.30
34	BA	683	C	C6-N1-C1'	-6.57	112.91	120.80
39	BF	40	U	C2'-C3'-O3'	6.57	124.22	113.70
44	BK	119	TYR	C-N-CA	6.57	136.10	122.30
62	Bc	66	SER	N-CA-C	-6.57	93.26	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	26	C	O4'-C1'-N1	6.57	113.46	108.20
34	BA	421	G	N1-C6-O6	-6.57	115.96	119.90
34	BA	1500	G	P-O3'-C3'	-6.57	111.81	119.70
35	BB	23	U	O3'-P-O5'	6.57	116.48	104.00
35	BB	808	U	C5'-C4'-C3'	6.57	126.51	116.00
35	BB	1001	G	C1'-O4'-C4'	-6.57	104.64	109.90
35	BB	1236	A	C5-C6-N6	-6.57	118.44	123.70
35	BB	1288	G	C5-C6-O6	-6.57	124.66	128.60
37	BD	41	G	C8-N9-C1'	6.57	135.54	127.00
38	BE	172	U	N1-C2-N3	-6.57	110.96	114.90
85	AA	1007	G	O4'-C1'-N9	6.57	113.46	108.20
85	AA	1439	A	O4'-C1'-N9	6.57	113.46	108.20
85	AA	1462	A	OP1-P-OP2	-6.57	109.74	119.60
85	AA	1574	C	O4'-C1'-N1	6.57	113.46	108.20
85	AA	1842	C	C5'-C4'-C3'	6.57	126.51	116.00
34	BA	9	A	C3'-C2'-C1'	-6.57	96.25	101.50
34	BA	124	G	N9-C1'-C2'	-6.57	104.77	112.00
34	BA	544	U	C5'-C4'-C3'	-6.57	105.49	116.00
34	BA	1054	U	C4'-C3'-C2'	-6.57	96.03	102.60
34	BA	1476	G	C4-N9-C1'	-6.57	117.96	126.50
34	BA	1601	C	P-O5'-C5'	-6.57	110.39	120.90
40	BG	75	C	C2'-C3'-O3'	6.57	124.21	113.70
41	BH	32	U	N3-C4-C5	6.57	118.54	114.60
47	BN	114	MET	CG-SD-CE	6.57	110.71	100.20
54	BU	122	GLY	N-CA-C	-6.57	96.68	113.10
1	A0	210	ARG	NE-CZ-NH2	6.57	123.58	120.30
34	BA	12	G	O5'-C5'-C4'	-6.57	99.22	111.70
34	BA	479	U	O4'-C1'-N1	6.57	113.45	108.20
34	BA	511	U	C2-N1-C1'	6.57	125.58	117.70
35	BB	610	U	C6-N1-C2	-6.57	117.06	121.00
35	BB	710	A	C8-N9-C1'	6.57	139.52	127.70
38	BE	7	U	O3'-P-O5'	6.57	116.48	104.00
47	BN	69	ARG	CG-CD-NE	-6.57	98.01	111.80
54	BU	150	THR	CA-CB-CG2	6.57	121.59	112.40
85	AA	48	G	C5-C6-O6	6.57	132.54	128.60
85	AA	227	A	C5-C6-N6	6.57	128.95	123.70
85	AA	2071	U	C6-N1-C1'	6.57	130.39	121.20
85	AA	2238	C	C1'-O4'-C4'	-6.57	104.65	109.90
34	BA	863	G	O5'-P-OP1	-6.57	99.79	105.70
34	BA	1737	A	C5'-C4'-C3'	-6.57	105.50	116.00
35	BB	390	G	C4'-C3'-C2'	-6.57	96.03	102.60
35	BB	474	G	C4'-C3'-C2'	-6.57	96.03	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1022	C	N3-C2-O2	-6.57	117.30	121.90
35	BB	1251	G	P-O3'-C3'	-6.57	111.82	119.70
35	BB	1534	U	C6-N1-C1'	6.57	130.39	121.20
38	BE	117	A	C6-C5-N7	-6.57	127.70	132.30
40	BG	53	C	C1'-O4'-C4'	-6.57	104.65	109.90
41	BH	29	G	C1'-O4'-C4'	-6.57	104.65	109.90
73	Bn	49	TRP	CB-CG-CD2	-6.57	118.06	126.60
85	AA	241	U	C6-N1-C2	-6.57	117.06	121.00
85	AA	634	U	P-O3'-C3'	-6.57	111.82	119.70
85	AA	635	G	O5'-C5'-C4'	-6.57	99.23	111.70
85	AA	1469	G	N1-C2-N3	-6.57	119.96	123.90
2	A1	143	ARG	NE-CZ-NH2	-6.56	117.02	120.30
34	BA	1739	G	N1-C2-N2	6.56	122.11	116.20
35	BB	774	C	O4'-C1'-C2'	6.56	113.51	107.60
62	Bc	12	VAL	N-CA-C	6.56	128.72	111.00
5	A4	35	SER	CA-C-N	-6.56	102.76	117.20
34	BA	304	G	P-O5'-C5'	-6.56	110.40	120.90
34	BA	784	C	P-O3'-C3'	-6.56	111.83	119.70
34	BA	853	A	O4'-C1'-N9	6.56	113.45	108.20
34	BA	866	C	O5'-P-OP1	-6.56	99.79	105.70
34	BA	1265	G	N1-C6-O6	6.56	123.84	119.90
34	BA	1401	C	C3'-C2'-C1'	-6.56	96.25	101.50
34	BA	1404	A	C8-N9-C1'	6.56	139.51	127.70
34	BA	1505	G	C4-C5-N7	-6.56	108.17	110.80
34	BA	1818	A	P-O3'-C3'	-6.56	111.82	119.70
35	BB	369	A	O4'-C1'-N9	6.56	113.45	108.20
35	BB	706	G	C8-N9-C1'	6.56	135.53	127.00
35	BB	962	U	O4'-C1'-N1	6.56	113.45	108.20
35	BB	1393	C	C6-N1-C1'	-6.56	112.93	120.80
37	BD	97	U	C2'-C3'-O3'	6.56	124.20	113.70
38	BE	129	G	N1-C2-N2	-6.56	110.29	116.20
43	BJ	23	ARG	NE-CZ-NH1	6.56	123.58	120.30
85	AA	531	G	N1-C6-O6	-6.56	115.96	119.90
85	AA	1460	G	C6-N1-C2	-6.56	121.16	125.10
85	AA	1852	U	C2-N3-C4	-6.56	123.06	127.00
35	BB	843	G	C3'-C2'-C1'	-6.56	96.25	101.50
35	BB	1165	A	C4-N9-C1'	-6.56	114.49	126.30
35	BB	1186	A	C4-N9-C1'	-6.56	114.49	126.30
85	AA	1288	A	C3'-C2'-C1'	-6.56	96.25	101.50
85	AA	1862	C	C6-N1-C2	-6.56	117.68	120.30
85	AA	1864	G	C5'-C4'-O4'	6.56	116.97	109.10
85	AA	2170	G	C4-N9-C1'	-6.56	117.97	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	557	U	P-O3'-C3'	6.56	127.57	119.70
34	BA	824	C	C1'-O4'-C4'	-6.56	104.65	109.90
34	BA	908	G	N9-C1'-C2'	-6.56	104.78	112.00
34	BA	1696	G	OP2-P-O3'	6.56	119.63	105.20
35	BB	144	G	C6-N1-C2	-6.56	121.17	125.10
35	BB	311	C	C6-N1-C2	-6.56	117.68	120.30
35	BB	335	C	O4'-C1'-N1	6.56	113.45	108.20
35	BB	1027	U	C2-N3-C4	-6.56	123.06	127.00
35	BB	1117	G	C1'-O4'-C4'	-6.56	104.65	109.90
35	BB	1263	A	N1-C6-N6	-6.56	114.66	118.60
35	BB	1486	C	C5'-C4'-C3'	-6.56	105.51	116.00
37	BD	56	G	C5-C6-O6	-6.56	124.66	128.60
85	AA	523	U	C2-N3-C4	-6.56	123.06	127.00
85	AA	550	G	O4'-C1'-N9	6.56	113.45	108.20
85	AA	1156	A	P-O3'-C3'	-6.56	111.83	119.70
85	AA	2020	C	C2'-C3'-O3'	6.56	124.19	113.70
27	AT	74	GLY	C-N-CA	6.56	138.09	121.70
34	BA	1541	G	C4-C5-C6	-6.56	114.87	118.80
35	BB	611	U	C2-N1-C1'	-6.56	109.83	117.70
35	BB	1460	G	O4'-C1'-N9	6.56	113.45	108.20
36	BC	5	U	P-O3'-C3'	-6.56	111.83	119.70
36	BC	47	C	P-O3'-C3'	6.56	127.57	119.70
85	AA	1004	G	C3'-C2'-C1'	-6.56	96.25	101.50
34	BA	333	A	C5'-C4'-O4'	6.56	116.97	109.10
34	BA	599	U	O4'-C4'-C3'	-6.56	97.44	104.00
34	BA	898	G	O4'-C1'-C2'	-6.56	99.24	105.80
34	BA	1793	G	C8-N9-C4	-6.56	103.78	106.40
35	BB	676	G	C5-C6-O6	-6.56	124.67	128.60
35	BB	836	U	P-O3'-C3'	6.56	127.57	119.70
40	BG	54	G	C8-N9-C4	6.56	109.02	106.40
85	AA	436	G	P-O3'-C3'	-6.56	111.83	119.70
85	AA	1571	A	P-O3'-C3'	-6.56	111.83	119.70
34	BA	286	C	N1-C1'-C2'	-6.55	104.79	112.00
35	BB	9	G	C5-C6-O6	-6.55	124.67	128.60
35	BB	823	G	C1'-O4'-C4'	-6.55	104.66	109.90
35	BB	1363	A	C5'-C4'-C3'	-6.55	105.51	116.00
36	BC	6	G	N1-C6-O6	6.55	123.83	119.90
39	BF	35	C	C5-C4-N4	-6.55	115.61	120.20
41	BH	77	G	OP1-P-OP2	-6.55	109.77	119.60
77	Br	262	PHE	CA-CB-CG	-6.55	98.17	113.90
85	AA	486	G	C2'-C3'-O3'	6.55	124.19	113.70
85	AA	1637	C	C5'-C4'-C3'	-6.55	105.51	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AM	125	ARG	NE-CZ-NH2	-6.55	117.02	120.30
34	BA	1196	C	C5'-C4'-C3'	-6.55	105.52	116.00
34	BA	1399	A	C5'-C4'-O4'	6.55	116.96	109.10
85	AA	249	C	O4'-C1'-N1	6.55	113.44	108.20
85	AA	283	A	C2-N3-C4	-6.55	107.32	110.60
85	AA	860	C	C5-C4-N4	6.55	124.79	120.20
85	AA	1211	C	N3-C4-C5	6.55	124.52	121.90
34	BA	697	A	P-O3'-C3'	-6.55	111.84	119.70
34	BA	1342	C	O4'-C1'-N1	6.55	113.44	108.20
34	BA	1486	U	O4'-C1'-N1	6.55	113.44	108.20
34	BA	1629	A	N1-C6-N6	-6.55	114.67	118.60
35	BB	1304	U	C1'-O4'-C4'	-6.55	104.66	109.90
39	BF	42	G	C8-N9-C4	-6.55	103.78	106.40
68	Bi	119	ARG	NE-CZ-NH1	6.55	123.58	120.30
85	AA	627	A	C5'-C4'-C3'	-6.55	105.52	116.00
34	BA	407	A	C5'-C4'-C3'	-6.55	105.52	116.00
34	BA	1232	C	C5'-C4'-C3'	-6.55	105.52	116.00
34	BA	1500	G	C5-N7-C8	6.55	107.57	104.30
35	BB	517	G	C8-N9-C1'	6.55	135.51	127.00
35	BB	611	U	O5'-P-OP2	-6.55	99.81	105.70
35	BB	1152	U	C3'-C2'-C1'	-6.55	96.26	101.50
36	BC	26	U	C5'-C4'-C3'	6.55	126.48	116.00
38	BE	201	A	N9-C4-C5	-6.55	103.18	105.80
40	BG	57	A	C5'-C4'-C3'	-6.55	105.52	116.00
85	AA	708	G	C6-N1-C2	-6.55	121.17	125.10
85	AA	1124	G	C1'-O4'-C4'	-6.55	104.66	109.90
85	AA	1380	U	O4'-C1'-N1	6.55	113.44	108.20
85	AA	1483	A	N1-C2-N3	-6.55	126.03	129.30
85	AA	2002	A	N3-C4-C5	-6.55	122.22	126.80
34	BA	1350	C	O4'-C1'-N1	6.55	113.44	108.20
34	BA	1700	C	O4'-C1'-N1	6.55	113.44	108.20
35	BB	765	G	O4'-C1'-N9	6.55	113.44	108.20
79	Bt	90	HIS	CA-CB-CG	-6.55	102.47	113.60
85	AA	2119	C	C5'-C4'-O4'	-6.55	101.24	109.10
31	AX	161	THR	CA-CB-CG2	-6.55	103.23	112.40
34	BA	204	U	P-O3'-C3'	6.55	127.56	119.70
34	BA	259	C	C6-N1-C2	-6.55	117.68	120.30
34	BA	523	A	C5-C6-N6	6.55	128.94	123.70
34	BA	707	C	C2-N3-C4	-6.55	116.63	119.90
34	BA	1551	G	C5-C6-N1	6.55	114.77	111.50
34	BA	1625	C	C1'-O4'-C4'	-6.55	104.66	109.90
35	BB	765	G	C8-N9-C1'	6.55	135.51	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	45	G	C5-C6-O6	-6.55	124.67	128.60
40	BG	30	C	C2-N1-C1'	-6.55	111.60	118.80
40	BG	90	G	N1-C6-O6	-6.55	115.97	119.90
70	Bk	59	MET	N-CA-CB	-6.55	98.82	110.60
85	AA	1226	A	N9-C1'-C2'	-6.55	104.80	112.00
85	AA	2020	C	C6-N1-C1'	-6.55	112.94	120.80
85	AA	2163	G	C3'-C2'-C1'	-6.55	96.26	101.50
4	A3	2	LYS	N-CA-CB	-6.54	98.82	110.60
34	BA	42	A	C8-N9-C1'	6.54	139.48	127.70
34	BA	734	G	C5-C6-N1	6.54	114.77	111.50
35	BB	28	G	C5-C6-O6	-6.54	124.67	128.60
35	BB	404	A	C5-N7-C8	-6.54	100.63	103.90
35	BB	898	U	P-O5'-C5'	6.54	131.37	120.90
38	BE	146	U	C6-N1-C1'	6.54	130.36	121.20
85	AA	260	A	C8-N9-C4	6.54	108.42	105.80
85	AA	1946	C	O4'-C1'-N1	6.54	113.44	108.20
85	AA	2231	G	O4'-C1'-N9	6.54	113.44	108.20
24	AQ	89	ARG	NE-CZ-NH2	-6.54	117.03	120.30
34	BA	282	A	C2-N3-C4	6.54	113.87	110.60
34	BA	1411	C	O4'-C4'-C3'	-6.54	97.46	104.00
34	BA	1836	A	C1'-O4'-C4'	-6.54	104.67	109.90
35	BB	401	U	P-O5'-C5'	-6.54	110.43	120.90
35	BB	528	G	C5'-C4'-C3'	-6.54	105.53	116.00
35	BB	1352	C	C4'-C3'-C2'	-6.54	96.06	102.60
41	BH	15	A	O4'-C1'-N9	6.54	113.43	108.20
85	AA	57	G	O5'-C5'-C4'	-6.54	99.27	111.70
34	BA	135	G	C3'-C2'-C1'	-6.54	96.27	101.50
34	BA	765	U	C5'-C4'-C3'	6.54	126.47	116.00
34	BA	1142	C	C6-N1-C2	-6.54	117.68	120.30
35	BB	1196	A	C4-C5-C6	-6.54	113.73	117.00
36	BC	53	A	C5'-C4'-C3'	-6.54	105.53	116.00
40	BG	70	C	O4'-C1'-N1	6.54	113.43	108.20
41	BH	2	U	C4'-C3'-C2'	-6.54	96.06	102.60
41	BH	79	A	C5-C6-N6	-6.54	118.47	123.70
85	AA	1269	A	N1-C6-N6	-6.54	114.67	118.60
85	AA	1440	C	P-O5'-C5'	-6.54	110.43	120.90
85	AA	1632	G	P-O3'-C3'	6.54	127.55	119.70
34	BA	206	C	O5'-C5'-C4'	6.54	124.13	111.70
34	BA	607	C	C6-N1-C1'	-6.54	112.95	120.80
35	BB	5	A	C3'-C2'-C1'	-6.54	96.27	101.50
80	Bu	145	ARG	N-CA-C	-6.54	93.34	111.00
85	AA	1816	C	C2-N1-C1'	6.54	125.99	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1838	C	O4'-C1'-N1	6.54	113.43	108.20
85	AA	2039	G	C8-N9-C1'	6.54	135.50	127.00
34	BA	605	G	N1-C6-O6	-6.54	115.98	119.90
34	BA	1194	G	C5'-C4'-C3'	6.54	126.46	116.00
35	BB	508	U	C1'-O4'-C4'	-6.54	104.67	109.90
35	BB	702	G	N9-C1'-C2'	-6.54	104.81	112.00
37	BD	8	A	O5'-C5'-C4'	-6.54	99.28	111.70
81	Bv	44	ARG	NE-CZ-NH1	6.54	123.57	120.30
85	AA	121	C	O4'-C1'-N1	6.54	113.43	108.20
85	AA	213	G	C5-C6-O6	-6.54	124.68	128.60
85	AA	493	A	C8-N9-C1'	6.54	139.47	127.70
85	AA	721	C	O4'-C1'-N1	6.54	113.43	108.20
85	AA	1616	U	P-O3'-C3'	6.54	127.55	119.70
85	AA	1784	G	O4'-C1'-N9	6.54	113.43	108.20
85	AA	2172	A	C1'-O4'-C4'	-6.54	104.67	109.90
34	BA	91	C	C6-N1-C2	-6.54	117.69	120.30
34	BA	1614	G	C8-N9-C4	6.54	109.02	106.40
34	BA	1660	A	P-O5'-C5'	-6.54	110.44	120.90
35	BB	106	A	C5-C6-N6	-6.54	118.47	123.70
36	BC	44	A	C5'-C4'-C3'	-6.54	105.54	116.00
39	BF	49	C	C3'-C2'-C1'	-6.54	96.27	101.50
40	BG	6	A	C5-C6-N6	-6.54	118.47	123.70
85	AA	527	A	N9-C1'-C2'	-6.54	104.81	112.00
85	AA	1535	C	OP2-P-O3'	-6.54	90.82	105.20
4	A3	191	ARG	NE-CZ-NH1	6.54	123.57	120.30
23	AP	200	PHE	CB-CG-CD2	-6.54	116.22	120.80
34	BA	686	U	P-O5'-C5'	-6.54	110.44	120.90
34	BA	944	G	C1'-O4'-C4'	-6.54	104.67	109.90
34	BA	1545	C	C2-N1-C1'	-6.54	111.61	118.80
34	BA	1685	C	C6-N1-C1'	6.54	128.64	120.80
36	BC	137	C	C5'-C4'-C3'	-6.54	105.54	116.00
38	BE	147	G	C6-N1-C2	-6.54	121.18	125.10
77	Br	232	SER	N-CA-C	-6.54	93.35	111.00
85	AA	57	G	N1-C6-O6	-6.54	115.98	119.90
85	AA	1093	C	C6-N1-C2	-6.54	117.69	120.30
85	AA	2133	A	C1'-O4'-C4'	-6.54	104.67	109.90
34	BA	977	G	C5'-C4'-O4'	6.53	116.94	109.10
34	BA	1014	A	C5'-C4'-C3'	-6.53	105.55	116.00
34	BA	1256	A	O4'-C1'-N9	6.53	113.43	108.20
35	BB	120	C	C3'-C2'-C1'	-6.53	96.27	101.50
35	BB	815	G	P-O5'-C5'	-6.53	110.44	120.90
37	BD	69	U	N1-C2-N3	6.53	118.82	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	48	G	O4'-C1'-N9	6.53	113.43	108.20
84	By	92	PHE	CB-CG-CD1	6.53	125.37	120.80
85	AA	38	C	C3'-C2'-C1'	-6.53	96.27	101.50
85	AA	51	A	O4'-C1'-N9	6.53	113.43	108.20
85	AA	178	U	C5'-C4'-C3'	-6.53	105.55	116.00
85	AA	1359	U	C2-N1-C1'	6.53	125.54	117.70
85	AA	1622	G	O3'-P-O5'	6.53	116.41	104.00
34	BA	25	C	P-O5'-C5'	-6.53	110.45	120.90
34	BA	181	G	C3'-C2'-C1'	-6.53	96.28	101.50
34	BA	602	G	P-O3'-C3'	-6.53	111.86	119.70
34	BA	1436	A	O3'-P-O5'	6.53	116.41	104.00
35	BB	776	U	O3'-P-O5'	-6.53	91.59	104.00
35	BB	1474	A	O4'-C1'-N9	6.53	113.43	108.20
85	AA	1366	A	C4-N9-C1'	-6.53	114.54	126.30
85	AA	1371	C	C4'-C3'-C2'	-6.53	96.07	102.60
85	AA	2007	G	N1-C6-O6	-6.53	115.98	119.90
34	BA	122	U	C5'-C4'-C3'	-6.53	105.55	116.00
34	BA	383	G	C1'-O4'-C4'	-6.53	104.67	109.90
34	BA	499	C	P-O3'-C3'	-6.53	111.86	119.70
34	BA	1234	U	C1'-O4'-C4'	-6.53	104.68	109.90
34	BA	1616	A	O3'-P-O5'	-6.53	91.59	104.00
35	BB	689	C	C6-N1-C2	-6.53	117.69	120.30
38	BE	133	C	C1'-O4'-C4'	-6.53	104.68	109.90
39	BF	22	U	O4'-C1'-N1	6.53	113.42	108.20
85	AA	7	G	C4-N9-C1'	-6.53	118.01	126.50
85	AA	416	U	O4'-C1'-N1	-6.53	102.98	108.20
85	AA	717	G	P-O3'-C3'	-6.53	111.86	119.70
85	AA	881	C	P-O3'-C3'	6.53	127.54	119.70
85	AA	1171	C	O4'-C1'-N1	6.53	113.42	108.20
85	AA	1355	U	C6-N1-C2	-6.53	117.08	121.00
85	AA	1991	C	C4-C5-C6	6.53	120.67	117.40
34	BA	1217	A	P-O3'-C3'	-6.53	111.87	119.70
35	BB	963	G	C1'-O4'-C4'	-6.53	104.68	109.90
35	BB	1152	U	C1'-O4'-C4'	-6.53	104.68	109.90
40	BG	104	A	N7-C8-N9	6.53	117.06	113.80
85	AA	1845	G	C5-C6-N1	6.53	114.77	111.50
85	AA	2149	C	P-O3'-C3'	-6.53	111.87	119.70
19	AK	118	TYR	CB-CG-CD2	-6.53	117.08	121.00
34	BA	353	U	C2-N3-C4	-6.53	123.08	127.00
34	BA	1346	U	C1'-O4'-C4'	-6.53	104.68	109.90
34	BA	1558	C	N3-C2-O2	-6.53	117.33	121.90
35	BB	851	U	C5'-C4'-O4'	6.53	116.93	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1333	U	C5'-C4'-C3'	-6.53	105.56	116.00
37	BD	44	U	C3'-C2'-C1'	-6.53	96.28	101.50
38	BE	61	A	C4-N9-C1'	-6.53	114.55	126.30
39	BF	35	C	C5'-C4'-C3'	-6.53	105.56	116.00
39	BF	53	G	C1'-O4'-C4'	-6.53	104.68	109.90
65	Bf	448	ARG	NE-CZ-NH2	-6.53	117.04	120.30
85	AA	64	A	C1'-O4'-C4'	-6.53	104.68	109.90
85	AA	1626	U	C5'-C4'-C3'	-6.53	105.56	116.00
85	AA	1950	G	C8-N9-C1'	6.53	135.49	127.00
34	BA	29	U	C5'-C4'-C3'	6.53	126.44	116.00
34	BA	102	G	N3-C4-C5	-6.53	125.34	128.60
34	BA	194	G	O4'-C1'-N9	6.53	113.42	108.20
34	BA	793	A	O4'-C1'-N9	6.53	113.42	108.20
34	BA	810	A	C4-N9-C1'	-6.53	114.56	126.30
35	BB	668	A	O4'-C1'-N9	6.53	113.42	108.20
38	BE	136	G	N9-C1'-C2'	6.53	122.48	114.00
40	BG	135	C	C2-N3-C4	-6.53	116.64	119.90
41	BH	96	G	O5'-P-OP1	6.53	118.53	110.70
49	BP	167	ALA	CB-CA-C	-6.53	100.31	110.10
36	BC	109	A	P-O3'-C3'	-6.52	111.87	119.70
60	Ba	115	PHE	CB-CG-CD1	6.52	125.37	120.80
66	Bg	43	LYS	CB-CA-C	-6.52	97.35	110.40
85	AA	972	G	N1-C6-O6	6.52	123.81	119.90
85	AA	1148	G	N1-C6-O6	6.52	123.81	119.90
85	AA	1578	G	C5'-C4'-O4'	6.52	116.93	109.10
86	AB	42	C	C6-N1-C2	-6.52	117.69	120.30
34	BA	268	U	O4'-C1'-C2'	6.52	113.47	107.60
34	BA	688	G	C4-N9-C1'	-6.52	118.02	126.50
34	BA	1204	U	C6-N1-C1'	6.52	130.33	121.20
34	BA	1344	G	C5'-C4'-C3'	-6.52	105.56	116.00
35	BB	585	U	C5-C6-N1	-6.52	119.44	122.70
35	BB	669	A	O4'-C1'-N9	6.52	113.42	108.20
35	BB	1265	U	P-O3'-C3'	-6.52	111.87	119.70
36	BC	11	G	N1-C2-N2	-6.52	110.33	116.20
38	BE	139	U	O5'-C5'-C4'	-6.52	99.31	111.70
41	BH	18	C	P-O3'-C3'	-6.52	111.87	119.70
85	AA	228	C	O4'-C1'-N1	6.52	113.42	108.20
85	AA	2169	C	C1'-O4'-C4'	-6.52	104.68	109.90
34	BA	880	G	P-O5'-C5'	-6.52	110.47	120.90
34	BA	1062	G	O4'-C1'-N9	6.52	113.42	108.20
35	BB	1417	C	C6-N1-C2	-6.52	117.69	120.30
35	BB	1496	C	C1'-O4'-C4'	-6.52	104.68	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	3	C	P-O3'-C3'	-6.52	111.88	119.70
85	AA	927	A	N9-C1'-C2'	-6.52	104.83	112.00
85	AA	1006	C	O4'-C1'-N1	6.52	113.42	108.20
34	BA	60	A	N1-C6-N6	6.52	122.51	118.60
35	BB	353	G	O4'-C1'-N9	6.52	113.42	108.20
35	BB	1114	A	C4'-C3'-C2'	-6.52	96.08	102.60
35	BB	1144	A	O4'-C1'-N9	6.52	113.42	108.20
35	BB	1446	C	N3-C4-N4	-6.52	113.44	118.00
40	BG	75	C	C2-N1-C1'	-6.52	111.63	118.80
85	AA	44	C	C3'-C2'-C1'	-6.52	96.28	101.50
85	AA	300	C	O5'-C5'-C4'	-6.52	99.31	111.70
85	AA	622	G	C8-N9-C1'	6.52	135.47	127.00
85	AA	691	U	C2-N3-C4	-6.52	123.09	127.00
85	AA	1103	A	N7-C8-N9	6.52	117.06	113.80
34	BA	19	G	C3'-C2'-C1'	-6.52	96.29	101.50
34	BA	383	G	C6-N1-C2	-6.52	121.19	125.10
34	BA	424	U	C2-N3-C4	-6.52	123.09	127.00
34	BA	961	C	N1-C2-O2	6.52	122.81	118.90
34	BA	1722	U	C3'-C2'-C1'	-6.52	96.29	101.50
35	BB	322	G	C8-N9-C1'	-6.52	118.53	127.00
35	BB	916	U	P-O3'-C3'	-6.52	111.88	119.70
35	BB	1255	U	O4'-C1'-N1	6.52	113.41	108.20
35	BB	1452	U	C4-C5-C6	-6.52	115.79	119.70
38	BE	16	C	C5-C4-N4	-6.52	115.64	120.20
59	BZ	43	ARG	NE-CZ-NH1	6.52	123.56	120.30
67	Bh	74	PHE	N-CA-CB	6.52	122.33	110.60
85	AA	750	A	C8-N9-C4	6.52	108.41	105.80
85	AA	886	A	O4'-C4'-C3'	-6.52	97.48	104.00
85	AA	1182	A	O4'-C1'-N9	6.52	113.41	108.20
85	AA	1471	G	N3-C2-N2	6.52	124.46	119.90
85	AA	1832	G	P-O3'-C3'	-6.52	111.88	119.70
35	BB	1492	C	C5'-C4'-C3'	-6.52	105.58	116.00
41	BH	4	U	C2-N1-C1'	-6.52	109.88	117.70
85	AA	1097	G	C4-N9-C1'	-6.52	118.03	126.50
86	AB	13	C	O4'-C1'-N1	6.52	113.41	108.20
34	BA	1597	G	N7-C8-N9	-6.51	109.84	113.10
35	BB	277	C	O4'-C1'-N1	6.51	113.41	108.20
35	BB	507	G	C5'-C4'-C3'	6.51	126.42	116.00
35	BB	818	U	C3'-C2'-C1'	-6.51	96.29	101.50
35	BB	1414	A	O4'-C1'-N9	6.51	113.41	108.20
64	Be	69	TYR	CB-CG-CD1	6.51	124.91	121.00
85	AA	1284	A	C1'-O4'-C4'	-6.51	104.69	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1687	U	C2-N1-C1'	-6.51	109.88	117.70
35	BB	1058	U	P-O3'-C3'	-6.51	111.89	119.70
36	BC	20	C	O4'-C1'-N1	6.51	113.41	108.20
68	Bi	103	ALA	N-CA-C	6.51	128.59	111.00
70	Bk	67	ARG	CD-NE-CZ	-6.51	114.48	123.60
85	AA	246	C	N3-C2-O2	-6.51	117.34	121.90
85	AA	560	C	O4'-C1'-N1	6.51	113.41	108.20
85	AA	1004	G	O4'-C1'-N9	6.51	113.41	108.20
85	AA	1490	A	N9-C4-C5	-6.51	103.19	105.80
85	AA	2095	U	C2-N1-C1'	-6.51	109.89	117.70
34	BA	12	G	O4'-C1'-N9	6.51	113.41	108.20
34	BA	1017	C	P-O5'-C5'	6.51	131.32	120.90
34	BA	1034	U	C3'-C2'-C1'	-6.51	96.29	101.50
34	BA	1196	C	C6-N1-C2	-6.51	117.70	120.30
34	BA	1408	C	C1'-O4'-C4'	-6.51	104.69	109.90
34	BA	1792	U	C5'-C4'-O4'	-6.51	101.28	109.10
35	BB	165	C	O4'-C1'-N1	6.51	113.41	108.20
79	Bt	32	LYS	C-N-CA	6.51	137.98	121.70
85	AA	267	U	C6-N1-C1'	6.51	130.32	121.20
85	AA	413	G	N3-C2-N2	6.51	124.46	119.90
85	AA	1009	G	C4-N9-C1'	-6.51	118.04	126.50
85	AA	1091	C	C5-C6-N1	6.51	124.26	121.00
85	AA	1538	C	C6-N1-C1'	6.51	128.62	120.80
85	AA	1885	A	O4'-C1'-C2'	6.51	113.46	107.60
85	AA	2150	G	C6-C5-N7	-6.51	126.49	130.40
86	AB	8	U	O4'-C1'-N1	6.51	113.41	108.20
34	BA	245	U	N3-C2-O2	-6.51	117.64	122.20
34	BA	646	C	O4'-C1'-N1	6.51	113.41	108.20
34	BA	1222	C	C5-C4-N4	-6.51	115.64	120.20
34	BA	1739	G	N3-C2-N2	-6.51	115.34	119.90
35	BB	705	C	O4'-C1'-N1	6.51	113.41	108.20
35	BB	1053	G	C6-C5-N7	-6.51	126.49	130.40
35	BB	1509	G	O4'-C1'-N9	6.51	113.41	108.20
40	BG	105	A	O5'-C5'-C4'	-6.51	99.33	111.70
40	BG	108	G	N1-C6-O6	-6.51	115.99	119.90
57	BX	87	TYR	N-CA-CB	6.51	122.32	110.60
64	Be	147	ARG	NE-CZ-NH1	6.51	123.56	120.30
85	AA	471	U	C2'-C3'-O3'	6.51	124.11	113.70
85	AA	548	G	O4'-C1'-N9	6.51	113.41	108.20
85	AA	574	U	C3'-C2'-C1'	-6.51	96.29	101.50
85	AA	1466	U	N1-C2-N3	-6.51	111.00	114.90
85	AA	1695	G	C6-N1-C2	-6.51	121.19	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2211	G	C1'-O4'-C4'	-6.51	104.69	109.90
34	BA	180	G	N3-C4-C5	-6.51	125.35	128.60
34	BA	280	A	C5'-C4'-O4'	6.51	116.91	109.10
35	BB	737	C	O4'-C1'-N1	6.51	113.41	108.20
38	BE	66	A	C5-C6-N6	-6.51	118.49	123.70
40	BG	44	G	C1'-O4'-C4'	-6.51	104.69	109.90
51	BR	140	MET	CG-SD-CE	6.51	110.61	100.20
34	BA	34	U	N1-C2-N3	6.51	118.80	114.90
34	BA	593	G	O3'-P-O5'	-6.51	91.64	104.00
34	BA	1334	G	C1'-O4'-C4'	-6.51	104.69	109.90
35	BB	711	C	N3-C2-O2	-6.51	117.35	121.90
35	BB	958	C	C5'-C4'-O4'	-6.51	101.29	109.10
39	BF	10	A	O4'-C1'-N9	6.51	113.41	108.20
47	BN	121	LEU	N-CA-CB	-6.51	97.39	110.40
85	AA	147	G	C1'-O4'-C4'	-6.51	104.69	109.90
85	AA	1407	C	O4'-C1'-N1	6.51	113.41	108.20
85	AA	1858	G	C1'-O4'-C4'	-6.51	104.69	109.90
85	AA	1913	G	P-O5'-C5'	6.51	131.31	120.90
34	BA	297	A	O4'-C1'-N9	-6.50	103.00	108.20
34	BA	857	C	OP1-P-O3'	6.50	119.51	105.20
35	BB	129	U	O4'-C1'-N1	6.50	113.40	108.20
35	BB	1202	G	O3'-P-O5'	-6.50	91.64	104.00
40	BG	101	G	P-O3'-C3'	-6.50	111.89	119.70
85	AA	628	C	P-O3'-C3'	6.50	127.51	119.70
85	AA	1147	A	C8-N9-C4	-6.50	103.20	105.80
85	AA	1454	U	C6-N1-C2	-6.50	117.10	121.00
85	AA	1721	A	C1'-O4'-C4'	-6.50	104.70	109.90
35	BB	793	A	C5'-C4'-O4'	6.50	116.90	109.10
35	BB	1023	G	C4'-C3'-C2'	-6.50	96.10	102.60
35	BB	1458	U	C4-C5-C6	-6.50	115.80	119.70
62	Bc	45	PHE	CB-CG-CD2	-6.50	116.25	120.80
85	AA	896	C	C4'-C3'-C2'	6.50	109.10	102.60
85	AA	982	G	C4-C5-C6	-6.50	114.90	118.80
85	AA	1355	U	OP1-P-O3'	6.50	119.51	105.20
85	AA	2192	A	N1-C6-N6	-6.50	114.70	118.60
35	BB	879	G	C1'-O4'-C4'	6.50	115.10	109.90
35	BB	959	C	O4'-C1'-N1	6.50	113.40	108.20
35	BB	1102	U	C5-C6-N1	-6.50	119.45	122.70
38	BE	18	U	N1-C2-O2	6.50	127.35	122.80
40	BG	30	C	N3-C2-O2	-6.50	117.35	121.90
47	BN	198	ARG	NE-CZ-NH1	6.50	123.55	120.30
85	AA	692	U	O5'-P-OP2	-6.50	99.85	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1044	G	P-O5'-C5'	6.50	131.30	120.90
85	AA	1077	U	O4'-C1'-N1	6.50	113.40	108.20
85	AA	1109	G	O4'-C4'-C3'	-6.50	97.50	104.00
85	AA	1148	G	P-O3'-C3'	-6.50	111.90	119.70
85	AA	1293	U	P-O3'-C3'	-6.50	111.90	119.70
85	AA	1503	G	C5-C6-O6	-6.50	124.70	128.60
8	A7	13	ARG	NE-CZ-NH1	6.50	123.55	120.30
34	BA	616	G	O5'-P-OP1	6.50	118.50	110.70
34	BA	1215	U	C5-C6-N1	-6.50	119.45	122.70
35	BB	599	U	N1-C2-N3	6.50	118.80	114.90
35	BB	1259	A	C8-N9-C4	6.50	108.40	105.80
85	AA	3	U	C6-N1-C1'	-6.50	112.10	121.20
85	AA	229	U	C5'-C4'-C3'	-6.50	105.60	116.00
85	AA	1920	A	O4'-C1'-N9	6.50	113.40	108.20
34	BA	452	A	C5-C6-N6	-6.50	118.50	123.70
34	BA	1438	C	P-O3'-C3'	-6.50	111.90	119.70
38	BE	112	G	C4'-C3'-O3'	6.50	126.00	113.00
71	Bl	138	ARG	NE-CZ-NH2	-6.50	117.05	120.30
85	AA	371	C	O4'-C1'-N1	6.50	113.40	108.20
85	AA	619	A	P-O5'-C5'	6.50	131.30	120.90
85	AA	932	A	P-O5'-C5'	6.50	131.30	120.90
85	AA	1149	A	C1'-O4'-C4'	-6.50	104.70	109.90
34	BA	181	G	C6-N1-C2	-6.50	121.20	125.10
34	BA	496	G	C8-N9-C1'	6.50	135.45	127.00
34	BA	841	G	O4'-C1'-N9	6.50	113.40	108.20
34	BA	1497	A	C2-N3-C4	-6.50	107.35	110.60
35	BB	767	A	C4'-C3'-C2'	-6.50	96.10	102.60
35	BB	1052	G	O4'-C1'-C2'	6.50	113.45	107.60
35	BB	1069	C	P-O3'-C3'	-6.50	111.90	119.70
38	BE	27	A	P-O3'-C3'	-6.50	111.90	119.70
38	BE	149	A	N1-C6-N6	6.50	122.50	118.60
38	BE	199	A	C5-C6-N1	6.50	120.95	117.70
41	BH	72	G	C8-N9-C1'	6.50	135.44	127.00
65	Bf	157	TRP	N-CA-C	6.50	128.54	111.00
83	Bx	115	ARG	NE-CZ-NH1	6.50	123.55	120.30
85	AA	127	U	C4'-C3'-C2'	-6.50	96.10	102.60
85	AA	446	C	O4'-C1'-N1	6.50	113.40	108.20
85	AA	1816	C	C2-N3-C4	-6.50	116.65	119.90
35	BB	503	G	N9-C1'-C2'	-6.50	104.86	112.00
35	BB	843	G	C1'-O4'-C4'	-6.50	104.70	109.90
35	BB	1183	U	O4'-C1'-N1	6.50	113.40	108.20
37	BD	55	A	C3'-C2'-C1'	-6.50	96.30	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	66	A	O4'-C1'-N9	6.50	113.40	108.20
40	BG	153	C	C2-N1-C1'	-6.50	111.66	118.80
56	BW	96	TYR	CB-CG-CD2	-6.50	117.10	121.00
85	AA	1496	U	N3-C4-C5	6.50	118.50	114.60
34	BA	251	U	P-O5'-C5'	6.49	131.29	120.90
34	BA	736	G	C5-N7-C8	-6.49	101.05	104.30
34	BA	841	G	C8-N9-C1'	6.49	135.44	127.00
34	BA	861	C	P-O5'-C5'	-6.49	110.51	120.90
34	BA	1732	A	C5-N7-C8	6.49	107.15	103.90
34	BA	1732	A	C5'-C4'-C3'	-6.49	105.61	116.00
35	BB	483	C	C4'-C3'-C2'	-6.49	96.11	102.60
38	BE	199	A	N9-C1'-C2'	-6.49	104.86	112.00
85	AA	341	C	P-O5'-C5'	6.49	131.29	120.90
85	AA	869	A	C6-N1-C2	-6.49	114.70	118.60
85	AA	1644	G	C6-C5-N7	-6.49	126.50	130.40
85	AA	1956	C	P-O3'-C3'	6.49	127.49	119.70
85	AA	1976	G	C5'-C4'-O4'	6.49	116.89	109.10
85	AA	2210	C	C3'-C2'-C1'	-6.49	96.31	101.50
34	BA	395	G	C5'-C4'-C3'	-6.49	105.61	116.00
34	BA	457	A	P-O3'-C3'	-6.49	111.91	119.70
35	BB	434	A	C5-C6-N6	-6.49	118.51	123.70
35	BB	840	C	C2-N3-C4	-6.49	116.65	119.90
35	BB	1410	G	N1-C6-O6	6.49	123.80	119.90
39	BF	4	A	O4'-C1'-N9	6.49	113.39	108.20
40	BG	14	G	O4'-C1'-N9	6.49	113.39	108.20
41	BH	40	C	P-O5'-C5'	6.49	131.29	120.90
85	AA	247	G	C4-N9-C1'	-6.49	118.06	126.50
85	AA	945	A	C1'-O4'-C4'	-6.49	104.71	109.90
85	AA	1181	U	O5'-P-OP1	6.49	118.49	110.70
85	AA	1271	U	C1'-O4'-C4'	6.49	115.09	109.90
34	BA	351	A	P-O3'-C3'	-6.49	111.91	119.70
34	BA	395	G	C5-C6-O6	6.49	132.50	128.60
34	BA	794	G	P-O5'-C5'	-6.49	110.51	120.90
34	BA	869	C	N3-C4-C5	6.49	124.50	121.90
34	BA	1211	G	C5'-C4'-C3'	6.49	126.39	116.00
34	BA	1775	U	O4'-C1'-N1	6.49	113.39	108.20
35	BB	3	C	C5-C4-N4	-6.49	115.66	120.20
35	BB	468	U	O5'-C5'-C4'	-6.49	99.37	111.70
35	BB	566	A	O3'-P-O5'	-6.49	91.67	104.00
35	BB	659	C	C2-N1-C1'	-6.49	111.66	118.80
35	BB	1331	U	C5'-C4'-O4'	6.49	116.89	109.10
38	BE	96	G	C4-N9-C1'	-6.49	118.06	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	755	G	N3-C4-C5	-6.49	125.35	128.60
85	AA	1634	U	C2-N1-C1'	6.49	125.49	117.70
85	AA	2129	U	C4'-C3'-C2'	-6.49	96.11	102.60
34	BA	881	C	C2'-C3'-O3'	6.49	124.08	113.70
34	BA	1511	C	O4'-C1'-C2'	6.49	113.44	107.60
34	BA	1834	A	O4'-C1'-N9	6.49	113.39	108.20
35	BB	650	A	C5'-C4'-O4'	6.49	116.89	109.10
35	BB	1137	G	O4'-C1'-N9	6.49	113.39	108.20
35	BB	1455	A	N7-C8-N9	6.49	117.05	113.80
36	BC	41	A	N1-C6-N6	6.49	122.49	118.60
62	Bc	133	LYS	N-CA-CB	6.49	122.28	110.60
85	AA	238	C	C6-N1-C1'	-6.49	113.01	120.80
85	AA	611	G	C4-N9-C1'	-6.49	118.07	126.50
85	AA	1982	C	OP1-P-OP2	-6.49	109.87	119.60
35	BB	997	G	O4'-C1'-N9	6.49	113.39	108.20
38	BE	70	C	C5-C4-N4	6.49	124.74	120.20
85	AA	107	A	N9-C1'-C2'	-6.49	104.86	112.00
85	AA	575	G	C2'-C3'-O3'	6.49	124.08	113.70
85	AA	1979	A	C4'-C3'-C2'	-6.49	96.11	102.60
85	AA	2027	U	O4'-C1'-N1	6.49	113.39	108.20
25	AR	26	ASN	CA-CB-CG	-6.49	99.13	113.40
34	BA	321	G	C4'-C3'-C2'	-6.49	96.11	102.60
34	BA	1382	G	P-O3'-C3'	-6.49	111.92	119.70
34	BA	1600	G	C4'-C3'-C2'	-6.49	96.11	102.60
34	BA	1654	G	C1'-O4'-C4'	-6.49	104.71	109.90
34	BA	1752	A	C8-N9-C1'	6.49	139.37	127.70
35	BB	1492	C	C4'-C3'-C2'	-6.49	96.11	102.60
37	BD	42	A	P-O3'-C3'	-6.49	111.92	119.70
40	BG	116	G	N9-C1'-C2'	-6.49	104.86	112.00
41	BH	129	G	O4'-C1'-C2'	6.49	113.44	107.60
84	By	169	ASP	N-CA-C	6.49	128.51	111.00
85	AA	249	C	N3-C2-O2	-6.49	117.36	121.90
85	AA	488	G	C5-C6-O6	-6.49	124.71	128.60
85	AA	1047	G	O4'-C1'-N9	6.49	113.39	108.20
85	AA	1831	U	C4'-C3'-C2'	-6.49	96.11	102.60
86	AB	18	G	O4'-C1'-N9	6.49	113.39	108.20
34	BA	608	G	C5-C6-O6	-6.48	124.71	128.60
34	BA	1320	A	P-O3'-C3'	-6.48	111.92	119.70
35	BB	981	A	C8-N9-C1'	-6.48	116.03	127.70
34	BA	33	C	C3'-C2'-C1'	-6.48	96.31	101.50
34	BA	696	A	C8-N9-C4	6.48	108.39	105.80
34	BA	868	C	N3-C4-N4	-6.48	113.46	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1658	G	C1'-O4'-C4'	-6.48	104.71	109.90
35	BB	457	U	C1'-O4'-C4'	-6.48	104.71	109.90
35	BB	769	C	O4'-C1'-N1	6.48	113.39	108.20
35	BB	1442	C	C6-N1-C2	-6.48	117.71	120.30
37	BD	79	G	C5-C6-N1	6.48	114.74	111.50
37	BD	81	C	O4'-C1'-N1	6.48	113.39	108.20
41	BH	12	U	C2-N3-C4	-6.48	123.11	127.00
68	Bi	129	ARG	CG-CD-NE	-6.48	98.19	111.80
85	AA	676	U	C2-N3-C4	-6.48	123.11	127.00
85	AA	791	C	C6-N1-C2	-6.48	117.71	120.30
85	AA	929	G	C6-N1-C2	-6.48	121.21	125.10
85	AA	964	C	O4'-C1'-N1	6.48	113.39	108.20
85	AA	1608	U	O4'-C1'-N1	6.48	113.39	108.20
85	AA	1687	U	N1-C2-O2	6.48	127.34	122.80
34	BA	711	C	C6-N1-C2	-6.48	117.71	120.30
34	BA	824	C	O4'-C1'-N1	6.48	113.38	108.20
34	BA	829	U	P-O3'-C3'	-6.48	111.92	119.70
35	BB	1383	C	O4'-C1'-N1	6.48	113.39	108.20
55	BV	60	ARG	C-N-CA	6.48	137.90	121.70
85	AA	642	G	C8-N9-C1'	6.48	135.42	127.00
85	AA	1955	U	C3'-C2'-C1'	-6.48	96.32	101.50
85	AA	2183	U	C2-N3-C4	-6.48	123.11	127.00
34	BA	737	U	O4'-C1'-N1	6.48	113.38	108.20
34	BA	997	U	N1-C2-O2	6.48	127.33	122.80
34	BA	1212	A	N1-C6-N6	-6.48	114.71	118.60
40	BG	103	C	C3'-C2'-C1'	-6.48	96.32	101.50
85	AA	159	G	C8-N9-C4	6.48	108.99	106.40
34	BA	573	U	N1-C2-N3	6.48	118.79	114.90
34	BA	1305	A	C8-N9-C1'	-6.48	116.04	127.70
34	BA	1379	G	N1-C6-O6	6.48	123.79	119.90
35	BB	1255	U	C5'-C4'-C3'	-6.48	105.64	116.00
35	BB	1548	C	C4'-C3'-C2'	-6.48	96.12	102.60
36	BC	162	C	P-O3'-C3'	6.48	127.47	119.70
39	BF	50	C	C4'-C3'-C2'	6.48	109.08	102.60
40	BG	62	C	P-O3'-C3'	6.48	127.47	119.70
85	AA	571	G	C4-N9-C1'	-6.48	118.08	126.50
85	AA	578	U	C4'-C3'-C2'	-6.48	96.12	102.60
85	AA	579	U	C2-N1-C1'	-6.48	109.93	117.70
85	AA	1301	C	C2-N1-C1'	-6.48	111.67	118.80
85	AA	2148	C	P-O3'-C3'	-6.48	111.93	119.70
85	AA	2196	G	N9-C1'-C2'	-6.48	104.88	112.00
34	BA	24	C	C1'-O4'-C4'	-6.48	104.72	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	155	G	O4'-C1'-N9	6.48	113.38	108.20
35	BB	502	C	C6-N1-C1'	6.48	128.57	120.80
35	BB	1025	A	C8-N9-C4	-6.48	103.21	105.80
37	BD	86	A	C5'-C4'-O4'	-6.48	101.33	109.10
82	Bw	91	TYR	CB-CG-CD1	-6.48	117.11	121.00
85	AA	890	U	C6-N1-C2	-6.48	117.11	121.00
85	AA	1797	U	C5-C4-O4	-6.48	122.01	125.90
85	AA	1869	U	O4'-C1'-N1	6.48	113.38	108.20
27	AT	43	ALA	N-CA-CB	-6.47	101.03	110.10
34	BA	843	G	N3-C4-N9	6.47	129.88	126.00
34	BA	1721	U	O3'-P-O5'	-6.47	91.70	104.00
35	BB	40	C	C6-N1-C1'	6.47	128.57	120.80
35	BB	454	U	C1'-O4'-C4'	-6.47	104.72	109.90
35	BB	1152	U	P-O5'-C5'	-6.47	110.54	120.90
35	BB	1210	U	C1'-O4'-C4'	-6.47	104.72	109.90
36	BC	97	U	C3'-C2'-C1'	-6.47	96.32	101.50
40	BG	41	U	C1'-O4'-C4'	-6.47	104.72	109.90
50	BQ	79	PHE	CA-CB-CG	-6.47	98.36	113.90
85	AA	661	C	P-O5'-C5'	6.47	131.26	120.90
85	AA	1280	U	C4-C5-C6	-6.47	115.81	119.70
85	AA	1798	U	P-O3'-C3'	-6.47	111.93	119.70
86	AB	8	U	O5'-C5'-C4'	6.47	124.00	111.70
34	BA	514	U	C2-N3-C4	-6.47	123.12	127.00
34	BA	590	U	C6-N1-C2	-6.47	117.12	121.00
34	BA	618	G	N9-C4-C5	6.47	107.99	105.40
34	BA	972	C	O4'-C1'-N1	6.47	113.38	108.20
34	BA	1110	A	C5-C6-N1	6.47	120.94	117.70
34	BA	1314	A	C5'-C4'-C3'	-6.47	105.64	116.00
34	BA	1439	C	N3-C2-O2	-6.47	117.37	121.90
35	BB	73	G	C5-C6-O6	-6.47	124.72	128.60
35	BB	807	U	O3'-P-O5'	6.47	116.30	104.00
36	BC	74	U	P-O3'-C3'	-6.47	111.93	119.70
37	BD	115	A	C4'-C3'-C2'	-6.47	96.13	102.60
38	BE	100	U	N1-C2-N3	6.47	118.78	114.90
39	BF	47	C	C3'-C2'-C1'	-6.47	96.32	101.50
41	BH	46	C	C6-N1-C2	-6.47	117.71	120.30
57	BX	87	TYR	N-CA-C	-6.47	93.53	111.00
85	AA	638	G	P-O3'-C3'	-6.47	111.93	119.70
85	AA	929	G	C5-C6-N1	6.47	114.74	111.50
85	AA	1173	A	C5-C6-N6	-6.47	118.52	123.70
85	AA	1243	G	P-O3'-C3'	-6.47	111.93	119.70
85	AA	1280	U	C1'-O4'-C4'	-6.47	104.72	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1502	A	P-O5'-C5'	6.47	131.26	120.90
85	AA	2199	G	C1'-O4'-C4'	-6.47	104.72	109.90
31	AX	166	PHE	CB-CG-CD1	-6.47	116.27	120.80
34	BA	271	C	O4'-C1'-N1	6.47	113.38	108.20
34	BA	404	C	O4'-C1'-N1	6.47	113.38	108.20
34	BA	1425	G	C1'-O4'-C4'	-6.47	104.72	109.90
85	AA	283	A	P-O3'-C3'	6.47	127.47	119.70
85	AA	972	G	C4'-C3'-C2'	6.47	109.07	102.60
85	AA	1177	G	O4'-C1'-N9	6.47	113.38	108.20
85	AA	1785	U	P-O5'-C5'	6.47	131.25	120.90
34	BA	28	C	O4'-C1'-N1	6.47	113.38	108.20
34	BA	147	U	C5-C6-N1	-6.47	119.47	122.70
34	BA	663	U	C2-N3-C4	-6.47	123.12	127.00
34	BA	1238	C	C3'-C2'-C1'	-6.47	96.32	101.50
34	BA	1527	G	N9-C1'-C2'	-6.47	104.88	112.00
34	BA	1579	G	C4-N9-C1'	6.47	134.91	126.50
35	BB	883	G	C1'-O4'-C4'	-6.47	104.72	109.90
35	BB	1384	A	O4'-C1'-N9	6.47	113.38	108.20
38	BE	195	G	C1'-O4'-C4'	-6.47	104.72	109.90
39	BF	16	C	O5'-C5'-C4'	6.47	123.99	111.70
41	BH	130	G	C5'-C4'-C3'	-6.47	105.65	116.00
85	AA	260	A	O4'-C1'-N9	6.47	113.38	108.20
85	AA	1157	U	C5'-C4'-C3'	-6.47	105.65	116.00
85	AA	1191	G	P-O5'-C5'	6.47	131.25	120.90
34	BA	784	C	N1-C1'-C2'	-6.47	104.89	112.00
35	BB	322	G	C4-N9-C1'	6.47	134.91	126.50
35	BB	1202	G	O4'-C4'-C3'	-6.47	97.53	104.00
36	BC	37	U	C2-N1-C1'	6.47	125.46	117.70
40	BG	97	G	C5-C6-O6	-6.47	124.72	128.60
62	Bc	124	CYS	N-CA-CB	6.47	122.24	110.60
85	AA	508	C	O4'-C4'-C3'	-6.47	97.53	104.00
85	AA	1435	C	C3'-C2'-C1'	-6.47	96.33	101.50
34	BA	168	U	N1-C2-N3	6.47	118.78	114.90
34	BA	431	A	C6-N1-C2	-6.47	114.72	118.60
34	BA	542	A	C5'-C4'-C3'	-6.47	105.65	116.00
34	BA	590	U	N3-C2-O2	-6.47	117.67	122.20
35	BB	858	U	O4'-C1'-N1	6.47	113.37	108.20
40	BG	9	G	C4-C5-C6	-6.47	114.92	118.80
48	BO	153	ARG	NE-CZ-NH1	6.47	123.53	120.30
85	AA	244	G	N9-C1'-C2'	-6.47	104.89	112.00
85	AA	541	A	C4'-C3'-C2'	-6.47	96.13	102.60
85	AA	591	A	P-O3'-C3'	-6.47	111.94	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	688	C	C3'-C2'-C1'	-6.47	96.33	101.50
85	AA	1268	C	C1'-O4'-C4'	-6.47	104.73	109.90
22	AO	35	CYS	CA-CB-SG	-6.46	102.36	114.00
30	AW	34	MET	CG-SD-CE	-6.46	89.86	100.20
34	BA	109	A	P-O5'-C5'	-6.46	110.56	120.90
34	BA	1594	G	N9-C1'-C2'	-6.46	104.89	112.00
35	BB	279	A	O4'-C1'-N9	6.46	113.37	108.20
35	BB	1132	A	C4-C5-C6	-6.46	113.77	117.00
36	BC	104	A	C5'-C4'-C3'	-6.46	105.66	116.00
85	AA	15	U	C5'-C4'-C3'	-6.46	105.66	116.00
85	AA	817	G	C4'-C3'-C2'	6.46	109.06	102.60
85	AA	1586	C	C6-N1-C2	-6.46	117.71	120.30
85	AA	1894	G	C5'-C4'-O4'	-6.46	101.34	109.10
3	A2	14	TYR	CB-CG-CD2	-6.46	117.12	121.00
34	BA	262	A	C2-N3-C4	-6.46	107.37	110.60
34	BA	861	C	P-O3'-C3'	-6.46	111.94	119.70
37	BD	6	C	P-O5'-C5'	-6.46	110.56	120.90
39	BF	40	U	P-O3'-C3'	-6.46	111.94	119.70
85	AA	58	C	C5-C6-N1	6.46	124.23	121.00
85	AA	1231	G	C5'-C4'-C3'	6.46	126.34	116.00
34	BA	301	U	O4'-C4'-C3'	-6.46	97.54	104.00
34	BA	1487	U	C6-N1-C2	-6.46	117.12	121.00
34	BA	1668	C	C6-N1-C2	-6.46	117.72	120.30
34	BA	1749	C	C6-N1-C2	-6.46	117.72	120.30
34	BA	1795	A	C8-N9-C4	6.46	108.39	105.80
35	BB	589	U	O4'-C1'-N1	6.46	113.37	108.20
35	BB	998	G	C5-C6-N1	6.46	114.73	111.50
35	BB	1130	U	C2-N3-C4	-6.46	123.12	127.00
41	BH	78	C	OP1-P-O3'	6.46	119.42	105.20
69	Bj	101	GLN	CB-CA-C	-6.46	97.48	110.40
85	AA	24	U	C2-N3-C4	-6.46	123.12	127.00
85	AA	155	U	N1-C1'-C2'	-6.46	104.89	112.00
85	AA	1510	A	P-O5'-C5'	6.46	131.24	120.90
85	AA	1937	G	O4'-C1'-N9	6.46	113.37	108.20
34	BA	1506	C	C6-N1-C1'	6.46	128.55	120.80
36	BC	162	C	N3-C2-O2	-6.46	117.38	121.90
50	BQ	219	ARG	NE-CZ-NH1	6.46	123.53	120.30
85	AA	1459	C	C2-N1-C1'	-6.46	111.69	118.80
85	AA	1561	A	C8-N9-C4	6.46	108.38	105.80
34	BA	500	C	O4'-C1'-N1	6.46	113.37	108.20
34	BA	675	C	P-O5'-C5'	6.46	131.23	120.90
34	BA	1588	U	C4'-C3'-C2'	6.46	109.06	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1735	G	C2'-C3'-O3'	6.46	124.03	113.70
34	BA	1798	G	C4-N9-C1'	6.46	134.90	126.50
35	BB	764	C	C2-N1-C1'	-6.46	111.70	118.80
35	BB	1508	G	N1-C6-O6	-6.46	116.03	119.90
36	BC	137	C	C3'-C2'-C1'	-6.46	96.33	101.50
38	BE	98	C	P-O3'-C3'	-6.46	111.95	119.70
38	BE	167	U	C2-N1-C1'	-6.46	109.95	117.70
82	Bw	33	PHE	CB-CG-CD2	-6.46	116.28	120.80
85	AA	115	U	C5-C6-N1	-6.46	119.47	122.70
4	A3	226	ARG	NE-CZ-NH1	6.46	123.53	120.30
34	BA	865	C	C2-N3-C4	-6.46	116.67	119.90
34	BA	1088	G	N9-C1'-C2'	-6.46	104.90	112.00
34	BA	1229	G	N1-C6-O6	6.46	123.77	119.90
34	BA	1757	C	O4'-C1'-N1	6.46	113.37	108.20
35	BB	160	A	P-O3'-C3'	6.46	127.45	119.70
35	BB	1122	C	C5'-C4'-C3'	-6.46	105.67	116.00
35	BB	1292	G	O5'-C5'-C4'	-6.46	99.43	111.70
36	BC	120	G	C6-C5-N7	-6.46	126.53	130.40
41	BH	86	G	N1-C2-N3	-6.46	120.03	123.90
85	AA	426	C	P-O3'-C3'	-6.46	111.95	119.70
85	AA	577	U	N1-C2-N3	6.46	118.77	114.90
85	AA	750	A	N1-C6-N6	6.46	122.47	118.60
85	AA	795	C	C2-N1-C1'	-6.46	111.70	118.80
85	AA	1513	U	O4'-C1'-N1	6.46	113.36	108.20
85	AA	1541	G	C3'-C2'-C1'	-6.46	96.33	101.50
85	AA	1800	U	O4'-C1'-N1	6.46	113.36	108.20
85	AA	2128	G	P-O5'-C5'	-6.46	110.57	120.90
85	AA	2146	G	O4'-C1'-N9	6.46	113.36	108.20
35	BB	795	A	C4-N9-C1'	-6.46	114.68	126.30
35	BB	1188	A	C5-C6-N6	6.46	128.86	123.70
85	AA	315	U	C5'-C4'-O4'	6.46	116.85	109.10
85	AA	725	G	C1'-O4'-C4'	-6.46	104.74	109.90
34	BA	829	U	P-O5'-C5'	6.45	131.23	120.90
34	BA	837	U	C5'-C4'-O4'	6.45	116.84	109.10
34	BA	1191	C	C2-N1-C1'	-6.45	111.70	118.80
34	BA	1336	U	P-O3'-C3'	-6.45	111.95	119.70
34	BA	1464	C	C6-N1-C1'	6.45	128.54	120.80
34	BA	1748	G	C4-N9-C1'	-6.45	118.11	126.50
34	BA	1780	U	O4'-C1'-N1	6.45	113.36	108.20
35	BB	633	C	C1'-O4'-C4'	-6.45	104.74	109.90
35	BB	1185	G	C5-C6-O6	-6.45	124.73	128.60
37	BD	96	C	O4'-C1'-N1	6.45	113.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	107	U	P-O5'-C5'	-6.45	110.57	120.90
53	BT	153	ARG	NE-CZ-NH1	6.45	123.53	120.30
80	Bu	263	ARG	NE-CZ-NH2	-6.45	117.07	120.30
85	AA	423	G	C3'-C2'-C1'	-6.45	96.34	101.50
85	AA	651	G	P-O3'-C3'	-6.45	111.95	119.70
85	AA	1140	G	N3-C2-N2	6.45	124.42	119.90
85	AA	1987	G	O4'-C1'-N9	6.45	113.36	108.20
35	BB	1045	G	C5-C6-O6	-6.45	124.73	128.60
35	BB	1290	C	C1'-O4'-C4'	-6.45	104.74	109.90
38	BE	58	U	C4-C5-C6	-6.45	115.83	119.70
85	AA	84	C	C5-C6-N1	6.45	124.23	121.00
85	AA	301	U	C5'-C4'-O4'	6.45	116.84	109.10
85	AA	820	G	P-O5'-C5'	-6.45	110.58	120.90
85	AA	926	C	N1-C1'-C2'	-6.45	104.90	112.00
85	AA	1502	A	O4'-C1'-N9	6.45	113.36	108.20
85	AA	1800	U	C4'-C3'-C2'	-6.45	96.15	102.60
34	BA	803	U	O3'-P-O5'	-6.45	91.74	104.00
34	BA	1840	C	O4'-C1'-N1	6.45	113.36	108.20
35	BB	1285	U	C5-C6-N1	-6.45	119.47	122.70
36	BC	112	G	P-O5'-C5'	6.45	131.22	120.90
85	AA	159	G	C1'-O4'-C4'	-6.45	104.74	109.90
34	BA	138	C	C5-C6-N1	6.45	124.22	121.00
34	BA	884	G	O4'-C1'-N9	6.45	113.36	108.20
35	BB	625	A	O4'-C1'-N9	6.45	113.36	108.20
35	BB	1011	C	O4'-C1'-N1	6.45	113.36	108.20
36	BC	162	C	C6-N1-C2	-6.45	117.72	120.30
41	BH	129	G	C8-N9-C1'	6.45	135.38	127.00
85	AA	508	C	C3'-C2'-C1'	-6.45	96.34	101.50
85	AA	921	C	O4'-C1'-N1	6.45	113.36	108.20
35	BB	126	C	C3'-C2'-C1'	-6.45	96.34	101.50
85	AA	54	C	P-O3'-C3'	-6.45	111.96	119.70
85	AA	508	C	O4'-C1'-N1	6.45	113.36	108.20
85	AA	1248	U	N1-C2-N3	6.45	118.77	114.90
85	AA	2238	C	O4'-C1'-N1	6.45	113.36	108.20
34	BA	18	G	N1-C6-O6	6.45	123.77	119.90
34	BA	204	U	C4'-C3'-C2'	-6.45	96.16	102.60
34	BA	792	A	P-O3'-C3'	6.45	127.43	119.70
34	BA	1083	A	C2'-C3'-O3'	6.45	124.01	113.70
34	BA	1435	A	N9-C1'-C2'	-6.45	104.91	112.00
34	BA	1616	A	C8-N9-C4	-6.45	103.22	105.80
35	BB	733	G	N1-C6-O6	6.45	123.77	119.90
35	BB	836	U	C5-C4-O4	-6.45	122.03	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1118	G	C3'-C2'-C1'	-6.45	96.34	101.50
35	BB	1494	G	O3'-P-O5'	6.45	116.25	104.00
36	BC	55	U	C5'-C4'-O4'	6.45	116.83	109.10
37	BD	113	G	C5'-C4'-C3'	6.45	126.31	116.00
53	BT	109	TYR	CB-CG-CD1	6.45	124.87	121.00
58	BY	55	TRP	CB-CG-CD2	-6.45	118.22	126.60
85	AA	369	A	O4'-C1'-N9	6.45	113.36	108.20
85	AA	561	C	C5-C4-N4	6.45	124.71	120.20
85	AA	1858	G	P-O3'-C3'	-6.45	111.96	119.70
32	AY	60	GLN	CA-CB-CG	6.44	127.58	113.40
34	BA	230	A	P-O3'-C3'	6.44	127.43	119.70
34	BA	258	C	N3-C2-O2	-6.44	117.39	121.90
34	BA	842	U	O3'-P-O5'	-6.44	91.76	104.00
34	BA	1314	A	O3'-P-O5'	-6.44	91.76	104.00
35	BB	1027	U	P-O5'-C5'	6.44	131.21	120.90
85	AA	368	C	O3'-P-O5'	6.44	116.24	104.00
34	BA	6	C	C4'-C3'-C2'	6.44	109.04	102.60
34	BA	410	G	C5'-C4'-O4'	6.44	116.83	109.10
34	BA	495	A	C4-N9-C1'	-6.44	114.70	126.30
34	BA	512	U	N3-C2-O2	-6.44	117.69	122.20
34	BA	761	U	C5-C6-N1	-6.44	119.48	122.70
34	BA	1270	G	C4-N9-C1'	-6.44	118.12	126.50
34	BA	1425	G	P-O5'-C5'	6.44	131.21	120.90
35	BB	104	G	C4-N9-C1'	-6.44	118.12	126.50
35	BB	893	U	O4'-C1'-N1	6.44	113.35	108.20
37	BD	40	C	OP2-P-O3'	6.44	119.37	105.20
39	BF	47	C	C6-N1-C2	-6.44	117.72	120.30
44	BK	139	ARG	CD-NE-CZ	-6.44	114.58	123.60
62	Bc	7	LEU	N-CA-CB	-6.44	97.51	110.40
85	AA	97	A	C1'-O4'-C4'	-6.44	104.75	109.90
85	AA	273	C	C5-C6-N1	6.44	124.22	121.00
85	AA	508	C	P-O5'-C5'	6.44	131.21	120.90
85	AA	1891	U	N3-C2-O2	-6.44	117.69	122.20
21	AM	126	HIS	CA-CB-CG	6.44	124.55	113.60
27	AT	34	HIS	C-N-CD	-6.44	106.43	120.60
34	BA	231	U	O4'-C1'-N1	6.44	113.35	108.20
34	BA	960	C	P-O5'-C5'	-6.44	110.59	120.90
35	BB	132	G	O4'-C1'-C2'	6.44	113.40	107.60
82	Bw	164	TYR	CB-CG-CD1	-6.44	117.14	121.00
85	AA	243	A	C5'-C4'-C3'	6.44	126.31	116.00
85	AA	289	G	O4'-C4'-C3'	-6.44	97.56	104.00
85	AA	742	U	C4'-C3'-C2'	-6.44	96.16	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1209	U	N3-C2-O2	-6.44	117.69	122.20
34	BA	400	A	O4'-C1'-C2'	6.44	113.39	107.60
34	BA	851	C	O5'-C5'-C4'	-6.44	99.47	111.70
35	BB	24	C	C1'-O4'-C4'	-6.44	104.75	109.90
35	BB	1507	U	N1-C2-O2	6.44	127.31	122.80
35	BB	1542	C	P-O3'-C3'	-6.44	111.97	119.70
64	Be	161	SER	C-N-CA	6.44	137.80	121.70
85	AA	195	C	O4'-C1'-N1	6.44	113.35	108.20
85	AA	1593	C	C6-N1-C2	-6.44	117.72	120.30
85	AA	1799	C	C5-C6-N1	6.44	124.22	121.00
6	A5	77	ARG	NE-CZ-NH1	6.44	123.52	120.30
34	BA	1535	G	C4'-C3'-C2'	-6.44	96.16	102.60
34	BA	1786	C	O4'-C1'-N1	6.44	113.35	108.20
35	BB	405	U	O4'-C1'-N1	6.44	113.35	108.20
64	Be	163	ARG	CA-CB-CG	6.44	127.56	113.40
85	AA	42	G	P-O3'-C3'	6.44	127.42	119.70
85	AA	1018	G	C1'-O4'-C4'	-6.44	104.75	109.90
85	AA	1453	U	C4'-C3'-C2'	-6.44	96.16	102.60
85	AA	2105	G	P-O3'-C3'	-6.44	111.98	119.70
31	AX	123	ARG	NE-CZ-NH2	-6.44	117.08	120.30
34	BA	322	U	N3-C2-O2	-6.44	117.69	122.20
85	AA	177	A	O4'-C1'-C2'	6.44	113.39	107.60
85	AA	541	A	C3'-C2'-C1'	-6.44	96.35	101.50
34	BA	429	G	N3-C4-N9	-6.43	122.14	126.00
35	BB	845	C	C1'-O4'-C4'	-6.43	104.75	109.90
40	BG	82	U	C6-N1-C1'	6.43	130.21	121.20
40	BG	112	C	N1-C1'-C2'	-6.43	104.92	112.00
40	BG	145	C	C3'-C2'-C1'	-6.43	96.35	101.50
40	BG	172	C	P-O5'-C5'	-6.43	110.61	120.90
41	BH	26	C	C5'-C4'-C3'	6.43	126.30	116.00
41	BH	55	C	P-O3'-C3'	-6.43	111.98	119.70
85	AA	301	U	P-O3'-C3'	6.43	127.42	119.70
85	AA	350	U	O4'-C1'-N1	6.43	113.35	108.20
85	AA	386	G	C3'-C2'-C1'	-6.43	96.35	101.50
85	AA	665	A	N1-C6-N6	-6.43	114.74	118.60
85	AA	867	G	P-O5'-C5'	-6.43	110.60	120.90
85	AA	1096	G	C1'-O4'-C4'	-6.43	104.75	109.90
85	AA	1929	G	C5-C6-O6	-6.43	124.74	128.60
34	BA	252	A	P-O5'-C5'	-6.43	110.61	120.90
34	BA	615	A	C5'-C4'-O4'	6.43	116.82	109.10
34	BA	1078	U	C4-C5-C6	-6.43	115.84	119.70
34	BA	1724	G	N9-C1'-C2'	-6.43	104.92	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1218	G	O4'-C1'-N9	6.43	113.35	108.20
36	BC	25	C	C2'-C3'-O3'	6.43	123.99	113.70
36	BC	124	A	N3-C4-N9	6.43	132.55	127.40
38	BE	23	G	N1-C6-O6	-6.43	116.04	119.90
41	BH	39	G	O4'-C4'-C3'	-6.43	97.57	104.00
85	AA	118	C	O4'-C1'-C2'	6.43	113.39	107.60
85	AA	393	C	C1'-O4'-C4'	-6.43	104.75	109.90
34	BA	602	G	C5-C6-O6	-6.43	124.74	128.60
34	BA	815	C	C6-N1-C1'	-6.43	113.08	120.80
34	BA	1368	G	O4'-C1'-N9	6.43	113.34	108.20
34	BA	1558	C	O5'-C5'-C4'	-6.43	99.48	111.70
34	BA	1775	U	C4'-C3'-C2'	-6.43	96.17	102.60
85	AA	1777	C	O4'-C1'-N1	6.43	113.34	108.20
85	AA	1946	C	P-O3'-C3'	6.43	127.42	119.70
85	AA	2110	U	O4'-C1'-C2'	6.43	113.39	107.60
1	A0	24	MET	CG-SD-CE	-6.43	89.91	100.20
34	BA	544	U	N1-C2-N3	-6.43	111.04	114.90
34	BA	693	G	N9-C1'-C2'	6.43	122.36	114.00
34	BA	1546	C	N3-C2-O2	-6.43	117.40	121.90
34	BA	1648	G	O5'-P-OP1	6.43	118.42	110.70
34	BA	1713	U	P-O3'-C3'	6.43	127.42	119.70
35	BB	85	A	C8-N9-C4	6.43	108.37	105.80
35	BB	696	G	P-O3'-C3'	-6.43	111.98	119.70
35	BB	1142	C	C3'-C2'-C1'	-6.43	96.36	101.50
35	BB	1361	A	C5-C6-N1	6.43	120.91	117.70
35	BB	1381	U	O4'-C1'-N1	6.43	113.34	108.20
36	BC	92	C	C4'-C3'-C2'	-6.43	96.17	102.60
85	AA	171	U	O4'-C1'-N1	-6.43	103.06	108.20
85	AA	852	C	N1-C1'-C2'	-6.43	104.93	112.00
85	AA	1337	A	O4'-C1'-N9	6.43	113.34	108.20
85	AA	1508	A	O4'-C1'-N9	6.43	113.34	108.20
85	AA	1805	A	P-O5'-C5'	6.43	131.19	120.90
85	AA	2241	C	C2-N1-C1'	-6.43	111.73	118.80
19	AK	46	LEU	CA-C-N	6.43	135.10	117.10
20	AL	63	ARG	NE-CZ-NH1	6.43	123.51	120.30
34	BA	67	A	C8-N9-C4	6.43	108.37	105.80
35	BB	306	U	P-O5'-C5'	6.43	131.18	120.90
35	BB	652	G	C3'-C2'-C1'	6.43	106.64	101.50
37	BD	64	A	P-O3'-C3'	6.43	127.41	119.70
40	BG	63	U	O3'-P-O5'	-6.43	91.79	104.00
85	AA	2241	C	O4'-C1'-C2'	6.43	113.39	107.60
34	BA	850	C	C4'-C3'-C2'	-6.43	96.17	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	885	A	P-O3'-C3'	6.43	127.41	119.70
34	BA	976	C	C1'-O4'-C4'	-6.43	104.76	109.90
34	BA	1250	C	N1-C1'-C2'	-6.43	104.93	112.00
34	BA	1407	C	C6-N1-C2	-6.43	117.73	120.30
35	BB	452	A	P-O5'-C5'	-6.43	110.62	120.90
35	BB	526	A	C5-C6-N1	-6.43	114.49	117.70
51	BR	155	GLU	N-CA-C	-6.43	93.65	111.00
80	Bu	34	ARG	NE-CZ-NH1	6.43	123.51	120.30
85	AA	43	A	O5'-C5'-C4'	-6.43	99.49	111.70
85	AA	444	U	C4-C5-C6	-6.43	115.84	119.70
85	AA	564	A	O4'-C1'-N9	6.43	113.34	108.20
85	AA	622	G	N3-C2-N2	6.43	124.40	119.90
85	AA	2019	G	C4-N9-C1'	-6.43	118.15	126.50
85	AA	2165	C	C2-N3-C4	6.43	123.11	119.90
4	A3	89	ARG	NE-CZ-NH1	6.42	123.51	120.30
34	BA	1316	G	C4-N9-C1'	6.42	134.85	126.50
35	BB	5	A	N1-C2-N3	-6.42	126.09	129.30
35	BB	36	U	C2-N3-C4	-6.42	123.15	127.00
35	BB	857	G	C3'-C2'-C1'	-6.42	96.36	101.50
36	BC	55	U	O4'-C1'-N1	6.42	113.34	108.20
36	BC	89	U	C5'-C4'-C3'	-6.42	105.72	116.00
37	BD	74	A	C8-N9-C4	6.42	108.37	105.80
38	BE	137	A	C4-N9-C1'	-6.42	114.73	126.30
38	BE	204	U	C2-N3-C4	-6.42	123.15	127.00
39	BF	36	G	C5-C6-O6	-6.42	124.75	128.60
40	BG	34	A	C4-N9-C1'	-6.42	114.74	126.30
41	BH	38	G	C5-C6-N1	6.42	114.71	111.50
85	AA	65	A	O4'-C4'-C3'	-6.42	97.58	104.00
85	AA	1263	G	C5'-C4'-C3'	-6.42	105.72	116.00
85	AA	1710	C	C4'-C3'-C2'	6.42	109.03	102.60
85	AA	1736	U	O4'-C1'-N1	6.42	113.34	108.20
85	AA	2022	A	C5-C6-N1	6.42	120.91	117.70
85	AA	2169	C	C6-N1-C2	-6.42	117.73	120.30
34	BA	612	U	C3'-C2'-C1'	-6.42	96.36	101.50
34	BA	1683	C	C5'-C4'-C3'	6.42	126.28	116.00
38	BE	188	C	C3'-C2'-C1'	-6.42	96.36	101.50
40	BG	116	G	C8-N9-C1'	6.42	135.35	127.00
85	AA	278	C	C1'-O4'-C4'	-6.42	104.76	109.90
85	AA	1211	C	C3'-C2'-C1'	-6.42	96.36	101.50
85	AA	1507	G	P-O5'-C5'	-6.42	110.62	120.90
85	AA	2148	C	C3'-C2'-C1'	-6.42	96.36	101.50
34	BA	141	G	C6-N1-C2	-6.42	121.25	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	183	G	C3'-C2'-C1'	-6.42	96.36	101.50
34	BA	322	U	C6-N1-C1'	6.42	130.19	121.20
34	BA	809	U	C5-C4-O4	6.42	129.75	125.90
34	BA	874	G	N1-C2-N3	-6.42	120.05	123.90
34	BA	907	A	C5-C6-N6	6.42	128.84	123.70
34	BA	1059	U	C5'-C4'-C3'	-6.42	105.73	116.00
34	BA	1494	G	O4'-C1'-N9	6.42	113.34	108.20
35	BB	359	A	C5'-C4'-C3'	-6.42	105.72	116.00
35	BB	690	C	P-O5'-C5'	6.42	131.17	120.90
38	BE	2	G	C5-C6-N1	6.42	114.71	111.50
38	BE	68	U	C6-N1-C1'	6.42	130.19	121.20
39	BF	15	U	O4'-C1'-C2'	-6.42	99.38	105.80
61	Bb	124	ARG	NE-CZ-NH1	6.42	123.51	120.30
65	Bf	346	SER	CA-C-N	6.42	131.33	117.20
85	AA	641	A	C5-C6-N6	6.42	128.84	123.70
85	AA	1006	C	C6-N1-C2	-6.42	117.73	120.30
85	AA	1474	U	C6-N1-C2	-6.42	117.15	121.00
85	AA	2169	C	C5-C4-N4	6.42	124.69	120.20
34	BA	420	A	C5'-C4'-C3'	-6.42	105.73	116.00
34	BA	1307	U	C1'-O4'-C4'	-6.42	104.76	109.90
35	BB	1215	U	P-O3'-C3'	-6.42	112.00	119.70
37	BD	14	C	C2'-C3'-O3'	6.42	123.97	113.70
85	AA	381	A	P-O5'-C5'	-6.42	110.63	120.90
85	AA	1973	G	P-O5'-C5'	-6.42	110.63	120.90
34	BA	420	A	N9-C4-C5	-6.42	103.23	105.80
35	BB	385	C	P-O3'-C3'	-6.42	112.00	119.70
35	BB	682	U	P-O3'-C3'	-6.42	112.00	119.70
35	BB	1111	C	C1'-O4'-C4'	-6.42	104.77	109.90
40	BG	92	U	C4'-C3'-C2'	6.42	109.02	102.60
41	BH	29	G	C4-C5-N7	6.42	113.37	110.80
85	AA	937	G	P-O3'-C3'	-6.42	112.00	119.70
85	AA	1491	G	C2-N3-C4	-6.42	108.69	111.90
34	BA	727	G	C6-N1-C2	-6.42	121.25	125.10
34	BA	917	C	N3-C4-N4	-6.42	113.51	118.00
34	BA	1607	U	C2-N3-C4	-6.42	123.15	127.00
35	BB	1485	G	P-O3'-C3'	-6.42	112.00	119.70
53	BT	38	ARG	N-CA-CB	-6.42	99.05	110.60
85	AA	101	C	C5'-C4'-O4'	-6.42	101.40	109.10
85	AA	513	G	C5'-C4'-C3'	-6.42	105.73	116.00
85	AA	1244	A	C8-N9-C4	6.42	108.37	105.80
34	BA	1581	G	C6-N1-C2	-6.42	121.25	125.10
85	AA	191	C	O4'-C1'-N1	6.42	113.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	543	A	C5'-C4'-C3'	6.42	126.27	116.00
85	AA	1176	C	N1-C2-N3	6.42	123.69	119.20
34	BA	176	G	O4'-C1'-N9	6.41	113.33	108.20
34	BA	201	A	O3'-P-O5'	-6.41	91.81	104.00
34	BA	271	C	C4'-C3'-C2'	-6.41	96.19	102.60
34	BA	609	G	C4-N9-C1'	-6.41	118.16	126.50
34	BA	979	G	O3'-P-O5'	6.41	116.18	104.00
34	BA	997	U	P-O5'-C5'	-6.41	110.64	120.90
34	BA	1778	U	C1'-O4'-C4'	-6.41	104.77	109.90
35	BB	440	U	P-O5'-C5'	6.41	131.16	120.90
35	BB	481	A	N9-C1'-C2'	-6.41	104.95	112.00
35	BB	918	C	O4'-C1'-N1	6.41	113.33	108.20
72	Bm	12	ARG	NE-CZ-NH1	6.41	123.51	120.30
85	AA	526	G	C4'-C3'-C2'	-6.41	96.19	102.60
85	AA	661	C	O4'-C1'-N1	6.41	113.33	108.20
85	AA	2110	U	O4'-C1'-N1	6.41	113.33	108.20
86	AB	70	G	C4'-C3'-C2'	-6.41	96.19	102.60
34	BA	314	A	C5'-C4'-C3'	-6.41	105.74	116.00
34	BA	1204	U	N1-C2-N3	6.41	118.75	114.90
34	BA	1328	U	P-O3'-C3'	-6.41	112.01	119.70
35	BB	145	G	C5'-C4'-O4'	-6.41	101.41	109.10
39	BF	51	C	OP2-P-O3'	6.41	119.31	105.20
85	AA	277	G	N9-C1'-C2'	-6.41	104.95	112.00
85	AA	750	A	O3'-P-O5'	6.41	116.18	104.00
85	AA	2056	C	C6-N1-C2	-6.41	117.73	120.30
25	AR	58	CYS	CA-CB-SG	-6.41	102.46	114.00
34	BA	351	A	C5-C6-N1	6.41	120.91	117.70
34	BA	1435	A	P-O3'-C3'	-6.41	112.01	119.70
34	BA	1549	U	O5'-C5'-C4'	-6.41	99.52	111.70
34	BA	1718	C	N3-C4-N4	6.41	122.49	118.00
35	BB	555	G	P-O5'-C5'	-6.41	110.64	120.90
35	BB	806	U	C6-N1-C2	-6.41	117.15	121.00
35	BB	1110	G	C5-C6-O6	-6.41	124.75	128.60
35	BB	1212	C	N3-C2-O2	-6.41	117.41	121.90
35	BB	1228	A	P-O3'-C3'	-6.41	112.01	119.70
36	BC	71	A	O4'-C1'-N9	6.41	113.33	108.20
38	BE	130	G	N3-C4-N9	6.41	129.85	126.00
39	BF	13	U	C6-N1-C1'	6.41	130.17	121.20
39	BF	36	G	C8-N9-C1'	6.41	135.33	127.00
71	Bl	75	TYR	CB-CG-CD2	-6.41	117.15	121.00
71	Bl	93	VAL	CA-CB-CG1	6.41	120.52	110.90
77	Br	204	ARG	NE-CZ-NH2	-6.41	117.09	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	315	U	N3-C2-O2	-6.41	117.71	122.20
85	AA	541	A	O5'-C5'-C4'	-6.41	99.52	111.70
85	AA	889	G	C5'-C4'-C3'	-6.41	105.74	116.00
34	BA	691	A	C4-C5-C6	-6.41	113.80	117.00
35	BB	824	C	C4'-C3'-C2'	-6.41	96.19	102.60
35	BB	1371	G	C3'-C2'-C1'	-6.41	96.37	101.50
35	BB	1510	G	C1'-O4'-C4'	-6.41	104.77	109.90
36	BC	15	G	C3'-C2'-C1'	-6.41	96.37	101.50
38	BE	176	G	N1-C2-N3	6.41	127.75	123.90
40	BG	24	A	O4'-C1'-N9	6.41	113.33	108.20
85	AA	49	C	O4'-C1'-N1	6.41	113.33	108.20
85	AA	974	U	O4'-C1'-C2'	6.41	113.37	107.60
26	AS	11	ARG	NE-CZ-NH1	6.41	123.50	120.30
34	BA	717	U	C4-C5-C6	-6.41	115.86	119.70
35	BB	1144	A	C5'-C4'-C3'	-6.41	105.75	116.00
48	BO	149	ARG	NE-CZ-NH1	6.41	123.50	120.30
85	AA	315	U	P-O3'-C3'	6.41	127.39	119.70
86	AB	1	G	C5-C6-O6	-6.41	124.76	128.60
86	AB	22	G	C4-N9-C1'	6.41	134.83	126.50
34	BA	323	C	O3'-P-O5'	-6.41	91.83	104.00
34	BA	867	C	O3'-P-O5'	-6.41	91.83	104.00
34	BA	1321	A	C3'-C2'-C1'	-6.41	96.38	101.50
34	BA	1639	U	N3-C2-O2	-6.41	117.72	122.20
35	BB	40	C	C2-N1-C1'	-6.41	111.75	118.80
35	BB	363	A	C2-N3-C4	6.41	113.80	110.60
35	BB	1093	C	C5'-C4'-O4'	6.41	116.79	109.10
40	BG	119	A	C4'-C3'-C2'	-6.41	96.19	102.60
85	AA	985	G	C4'-C3'-C2'	-6.41	96.19	102.60
85	AA	1106	A	N1-C2-N3	6.41	132.50	129.30
85	AA	1141	U	C5'-C4'-C3'	-6.41	105.75	116.00
22	AO	145	ARG	NE-CZ-NH2	-6.40	117.10	120.30
34	BA	4	A	P-O5'-C5'	6.40	131.15	120.90
34	BA	1215	U	C4'-C3'-C2'	6.40	109.00	102.60
34	BA	1603	A	P-O5'-C5'	-6.40	110.65	120.90
35	BB	461	U	C5-C4-O4	-6.40	122.06	125.90
51	BR	3	HIS	CA-CB-CG	-6.40	102.71	113.60
85	AA	177	A	C1'-O4'-C4'	-6.40	104.78	109.90
85	AA	617	C	C6-N1-C1'	-6.40	113.12	120.80
5	A4	146	ARG	CB-CA-C	-6.40	97.59	110.40
34	BA	71	G	C5-C6-N1	6.40	114.70	111.50
34	BA	471	U	N1-C2-N3	6.40	118.74	114.90
34	BA	1366	C	O4'-C1'-N1	6.40	113.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1543	A	C1'-O4'-C4'	-6.40	104.78	109.90
35	BB	56	U	N3-C2-O2	-6.40	117.72	122.20
35	BB	616	U	C5'-C4'-C3'	-6.40	105.76	116.00
38	BE	135	A	O4'-C1'-C2'	-6.40	99.40	105.80
38	BE	148	C	O4'-C1'-N1	6.40	113.32	108.20
38	BE	196	C	N3-C2-O2	-6.40	117.42	121.90
38	BE	200	A	N1-C6-N6	6.40	122.44	118.60
54	BU	149	ARG	NE-CZ-NH1	6.40	123.50	120.30
85	AA	761	G	C8-N9-C1'	-6.40	118.68	127.00
85	AA	974	U	O3'-P-O5'	6.40	116.17	104.00
85	AA	1179	A	O4'-C1'-N9	6.40	113.32	108.20
85	AA	1992	A	C8-N9-C4	-6.40	103.24	105.80
23	AP	253	HIS	CA-CB-CG	-6.40	102.72	113.60
34	BA	115	U	C5'-C4'-O4'	6.40	116.78	109.10
34	BA	301	U	O5'-C5'-C4'	6.40	123.86	111.70
34	BA	488	C	C6-N1-C2	-6.40	117.74	120.30
35	BB	735	A	O4'-C1'-N9	6.40	113.32	108.20
35	BB	1376	G	P-O3'-C3'	-6.40	112.02	119.70
35	BB	1421	C	C6-N1-C2	-6.40	117.74	120.30
36	BC	23	G	C8-N9-C4	-6.40	103.84	106.40
36	BC	48	A	P-O3'-C3'	6.40	127.38	119.70
36	BC	92	C	O3'-P-O5'	-6.40	91.84	104.00
40	BG	26	G	C3'-C2'-C1'	-6.40	96.38	101.50
40	BG	79	U	P-O3'-C3'	-6.40	112.02	119.70
41	BH	25	A	C2'-C3'-O3'	6.40	123.94	113.70
85	AA	857	G	O4'-C1'-N9	6.40	113.32	108.20
85	AA	2107	C	O3'-P-O5'	6.40	116.16	104.00
85	AA	2227	A	O5'-C5'-C4'	-6.40	99.54	111.70
34	BA	143	A	C3'-C2'-C1'	-6.40	96.38	101.50
34	BA	605	G	C6-C5-N7	-6.40	126.56	130.40
34	BA	736	G	C4'-C3'-C2'	-6.40	96.20	102.60
35	BB	836	U	C5-C6-N1	6.40	125.90	122.70
37	BD	49	A	O4'-C1'-N9	6.40	113.32	108.20
37	BD	57	C	C5'-C4'-O4'	6.40	116.78	109.10
85	AA	466	A	C6-C5-N7	6.40	136.78	132.30
85	AA	510	A	O5'-C5'-C4'	6.40	123.86	111.70
8	A7	5	TYR	CB-CG-CD1	6.40	124.84	121.00
34	BA	1001	G	C3'-C2'-C1'	-6.40	96.38	101.50
35	BB	125	G	C8-N9-C4	-6.40	103.84	106.40
35	BB	994	A	C3'-C2'-C1'	6.40	106.62	101.50
36	BC	88	A	C6-N1-C2	-6.40	114.76	118.60
41	BH	92	A	N1-C2-N3	6.40	132.50	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	131	C	O3'-P-O5'	-6.40	91.85	104.00
85	AA	486	G	P-O5'-C5'	-6.40	110.66	120.90
85	AA	1473	U	O4'-C1'-N1	6.40	113.32	108.20
85	AA	1786	G	C8-N9-C4	-6.40	103.84	106.40
85	AA	2048	C	N3-C2-O2	-6.40	117.42	121.90
34	BA	483	A	O5'-P-OP1	-6.40	99.94	105.70
34	BA	815	C	C6-N1-C2	-6.40	117.74	120.30
35	BB	796	C	O4'-C4'-C3'	-6.40	97.60	104.00
36	BC	87	C	P-O5'-C5'	-6.40	110.67	120.90
64	Be	69	TYR	CB-CG-CD2	-6.40	117.16	121.00
34	BA	639	U	OP1-P-OP2	-6.39	110.01	119.60
34	BA	1190	A	C4-N9-C1'	-6.39	114.79	126.30
34	BA	1197	U	C5'-C4'-O4'	-6.39	101.43	109.10
35	BB	118	A	C5-C6-N6	-6.39	118.58	123.70
35	BB	1291	G	N9-C1'-C2'	-6.39	104.97	112.00
35	BB	1532	C	N3-C2-O2	-6.39	117.42	121.90
38	BE	96	G	N9-C4-C5	6.39	107.96	105.40
85	AA	937	G	N1-C6-O6	6.39	123.74	119.90
86	AB	65	G	P-O3'-C3'	-6.39	112.03	119.70
34	BA	486	G	C1'-O4'-C4'	6.39	115.01	109.90
34	BA	1778	U	C5'-C4'-C3'	-6.39	105.77	116.00
35	BB	1236	A	C4'-C3'-C2'	-6.39	96.21	102.60
35	BB	1536	G	N1-C6-O6	6.39	123.74	119.90
36	BC	14	G	O4'-C1'-N9	6.39	113.31	108.20
37	BD	36	C	P-O3'-C3'	-6.39	112.03	119.70
40	BG	20	U	C4'-C3'-C2'	-6.39	96.21	102.60
67	Bh	38	TRP	CB-CG-CD2	-6.39	118.29	126.60
85	AA	31	C	C1'-O4'-C4'	-6.39	104.79	109.90
85	AA	151	A	N1-C6-N6	-6.39	114.76	118.60
85	AA	2043	A	P-O3'-C3'	-6.39	112.03	119.70
85	AA	2152	C	C6-N1-C2	-6.39	117.74	120.30
86	AB	53	G	C5'-C4'-C3'	-6.39	105.77	116.00
34	BA	868	C	O5'-P-OP2	-6.39	99.95	105.70
34	BA	1163	G	N1-C2-N2	-6.39	110.45	116.20
84	By	180	GLN	N-CA-CB	-6.39	99.10	110.60
85	AA	100	A	C4-N9-C1'	-6.39	114.80	126.30
85	AA	1458	G	C4-C5-N7	-6.39	108.24	110.80
85	AA	1760	C	C6-N1-C2	-6.39	117.74	120.30
34	BA	16	C	C2-N3-C4	-6.39	116.70	119.90
34	BA	316	G	O5'-C5'-C4'	-6.39	99.56	111.70
34	BA	353	U	C5'-C4'-C3'	-6.39	105.78	116.00
34	BA	1726	U	C5-C4-O4	6.39	129.73	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	487	A	C8-N9-C4	6.39	108.36	105.80
40	BG	140	G	C1'-O4'-C4'	-6.39	104.79	109.90
85	AA	88	G	O4'-C1'-N9	6.39	113.31	108.20
85	AA	110	U	C4'-C3'-C2'	6.39	108.99	102.60
85	AA	631	G	N3-C2-N2	6.39	124.37	119.90
85	AA	986	U	N1-C2-N3	6.39	118.73	114.90
8	A7	148	ARG	NE-CZ-NH2	-6.39	117.11	120.30
34	BA	1291	A	O4'-C1'-C2'	6.39	113.35	107.60
38	BE	104	G	N3-C2-N2	6.39	124.37	119.90
85	AA	574	U	C1'-O4'-C4'	-6.39	104.79	109.90
85	AA	771	A	P-O3'-C3'	6.39	127.36	119.70
85	AA	978	U	N1-C1'-C2'	-6.39	104.97	112.00
85	AA	1449	C	C2-N1-C1'	-6.39	111.77	118.80
25	AR	64	ARG	NE-CZ-NH1	6.39	123.49	120.30
26	AS	13	LEU	CB-CA-C	-6.39	98.06	110.20
34	BA	22	C	C6-N1-C2	-6.39	117.75	120.30
34	BA	1018	U	C5-C4-O4	6.39	129.73	125.90
34	BA	1521	C	N3-C2-O2	-6.39	117.43	121.90
35	BB	23	U	P-O3'-C3'	6.39	127.36	119.70
35	BB	472	C	C2-N3-C4	-6.39	116.71	119.90
35	BB	642	G	N3-C4-N9	6.39	129.83	126.00
35	BB	1183	U	C1'-O4'-C4'	-6.39	104.79	109.90
36	BC	12	A	P-O3'-C3'	-6.39	112.04	119.70
37	BD	86	A	C4-N9-C1'	-6.39	114.81	126.30
39	BF	42	G	C8-N9-C1'	6.39	135.30	127.00
53	BT	187	ARG	NE-CZ-NH1	6.39	123.49	120.30
85	AA	157	G	N7-C8-N9	-6.39	109.91	113.10
85	AA	258	G	C3'-C2'-C1'	-6.39	96.39	101.50
85	AA	967	C	C4'-C3'-C2'	-6.39	96.21	102.60
85	AA	1120	G	C3'-C2'-C1'	-6.39	96.39	101.50
85	AA	1186	C	P-O3'-C3'	-6.39	112.04	119.70
85	AA	1256	C	C5'-C4'-C3'	-6.39	105.78	116.00
85	AA	1985	C	C3'-C2'-C1'	-6.39	96.39	101.50
34	BA	295	G	C4-N9-C1'	6.38	134.80	126.50
34	BA	904	G	C8-N9-C4	6.38	108.95	106.40
34	BA	1306	U	O4'-C1'-C2'	-6.38	99.42	105.80
34	BA	1613	G	C5-N7-C8	-6.38	101.11	104.30
35	BB	130	G	N9-C1'-C2'	-6.38	104.98	112.00
37	BD	58	G	C8-N9-C1'	6.38	135.30	127.00
38	BE	192	A	C5-C6-N6	6.38	128.81	123.70
41	BH	33	G	P-O5'-C5'	6.38	131.12	120.90
85	AA	373	G	C8-N9-C4	6.38	108.95	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	552	C	C5-C6-N1	6.38	124.19	121.00
85	AA	596	A	C6-N1-C2	-6.38	114.77	118.60
34	BA	808	U	O4'-C1'-N1	6.38	113.31	108.20
38	BE	25	U	C5'-C4'-C3'	6.38	126.21	116.00
85	AA	110	U	O3'-P-O5'	6.38	116.13	104.00
85	AA	251	A	C5'-C4'-O4'	6.38	116.76	109.10
85	AA	565	G	P-O3'-C3'	-6.38	112.04	119.70
85	AA	806	G	O5'-C5'-C4'	-6.38	99.57	111.70
85	AA	1993	C	O4'-C1'-N1	6.38	113.31	108.20
25	AR	84	ARG	NE-CZ-NH1	6.38	123.49	120.30
34	BA	234	A	C8-N9-C1'	6.38	139.19	127.70
34	BA	471	U	C4'-C3'-C2'	6.38	108.98	102.60
34	BA	1343	A	C3'-C2'-C1'	-6.38	96.39	101.50
34	BA	1560	U	P-O3'-C3'	-6.38	112.04	119.70
35	BB	442	U	C1'-O4'-C4'	-6.38	104.80	109.90
35	BB	463	C	O4'-C1'-N1	6.38	113.31	108.20
35	BB	496	C	C1'-O4'-C4'	-6.38	104.79	109.90
35	BB	1298	C	O4'-C1'-N1	6.38	113.31	108.20
36	BC	123	G	N3-C4-N9	-6.38	122.17	126.00
37	BD	95	G	C6-N1-C2	-6.38	121.27	125.10
38	BE	25	U	OP1-P-OP2	-6.38	110.03	119.60
41	BH	67	G	C8-N9-C1'	6.38	135.30	127.00
58	BY	81	ARG	NE-CZ-NH1	6.38	123.49	120.30
82	Bw	150	ALA	N-CA-CB	6.38	119.03	110.10
85	AA	429	G	C1'-O4'-C4'	-6.38	104.80	109.90
85	AA	2058	C	C5'-C4'-C3'	6.38	126.21	116.00
34	BA	1477	C	C6-N1-C1'	-6.38	113.14	120.80
35	BB	972	C	C1'-O4'-C4'	-6.38	104.80	109.90
35	BB	1485	G	C4-N9-C1'	-6.38	118.21	126.50
39	BF	14	C	C6-N1-C1'	-6.38	113.14	120.80
49	BP	11	ARG	NE-CZ-NH2	-6.38	117.11	120.30
85	AA	144	A	P-O3'-C3'	6.38	127.36	119.70
85	AA	271	A	N1-C2-N3	-6.38	126.11	129.30
85	AA	789	A	O5'-P-OP2	6.38	118.36	110.70
85	AA	1288	A	C2-N3-C4	6.38	113.79	110.60
34	BA	755	G	C1'-O4'-C4'	-6.38	104.80	109.90
34	BA	1322	A	C1'-O4'-C4'	-6.38	104.80	109.90
34	BA	1392	A	P-O3'-C3'	-6.38	112.05	119.70
35	BB	356	C	C1'-O4'-C4'	-6.38	104.80	109.90
35	BB	475	A	P-O5'-C5'	6.38	131.11	120.90
35	BB	1065	G	C8-N9-C4	6.38	108.95	106.40
35	BB	1330	A	P-O3'-C3'	-6.38	112.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	39	A	P-O5'-C5'	-6.38	110.69	120.90
85	AA	964	C	P-O5'-C5'	-6.38	110.69	120.90
85	AA	975	G	C3'-C2'-C1'	-6.38	96.40	101.50
85	AA	1993	C	P-O3'-C3'	-6.38	112.05	119.70
34	BA	134	U	C1'-O4'-C4'	-6.38	104.80	109.90
34	BA	632	U	C5'-C4'-C3'	-6.38	105.80	116.00
34	BA	952	G	C5'-C4'-C3'	6.38	126.20	116.00
34	BA	995	A	O4'-C1'-N9	6.38	113.30	108.20
34	BA	1267	A	O4'-C4'-C3'	6.38	111.20	106.10
34	BA	1353	U	O4'-C1'-N1	6.38	113.30	108.20
34	BA	1836	A	O4'-C1'-C2'	6.38	113.34	107.60
35	BB	441	G	C8-N9-C4	6.38	108.95	106.40
35	BB	998	G	N9-C1'-C2'	-6.38	104.99	112.00
35	BB	1004	A	C8-N9-C1'	6.38	139.18	127.70
35	BB	1413	U	N1-C2-N3	6.38	118.73	114.90
39	BF	35	C	P-O3'-C3'	-6.38	112.05	119.70
85	AA	657	C	N3-C2-O2	-6.38	117.44	121.90
85	AA	725	G	C4'-C3'-C2'	-6.38	96.22	102.60
85	AA	844	C	O4'-C1'-N1	6.38	113.30	108.20
34	BA	1679	C	N3-C2-O2	-6.38	117.44	121.90
35	BB	111	C	C5'-C4'-O4'	6.38	116.75	109.10
35	BB	958	C	C6-N1-C2	-6.38	117.75	120.30
35	BB	1059	U	P-O3'-C3'	-6.38	112.05	119.70
77	Br	306	GLN	N-CA-CB	6.38	122.07	110.60
85	AA	1130	G	N1-C6-O6	-6.38	116.08	119.90
85	AA	1367	C	C4'-C3'-C2'	-6.38	96.22	102.60
34	BA	684	G	C8-N9-C1'	-6.37	118.71	127.00
34	BA	939	C	C1'-O4'-C4'	-6.37	104.80	109.90
34	BA	1013	A	N1-C6-N6	6.37	122.42	118.60
40	BG	62	C	C5'-C4'-C3'	6.37	126.20	116.00
85	AA	86	G	N1-C6-O6	6.37	123.72	119.90
85	AA	393	C	N3-C2-O2	-6.37	117.44	121.90
85	AA	728	U	O3'-P-O5'	-6.37	91.89	104.00
85	AA	1795	C	O4'-C1'-N1	6.37	113.30	108.20
85	AA	2105	G	C6-N1-C2	-6.37	121.28	125.10
35	BB	928	C	O4'-C1'-N1	6.37	113.30	108.20
35	BB	936	U	O4'-C1'-N1	6.37	113.30	108.20
71	Bl	47	TYR	CB-CG-CD2	-6.37	117.18	121.00
85	AA	347	U	O4'-C1'-N1	6.37	113.30	108.20
85	AA	420	C	C1'-O4'-C4'	-6.37	104.80	109.90
85	AA	662	U	P-O3'-C3'	-6.37	112.05	119.70
85	AA	1478	G	N3-C2-N2	6.37	124.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1694	C	C6-N1-C2	-6.37	117.75	120.30
85	AA	1978	G	O4'-C1'-N9	6.37	113.30	108.20
34	BA	562	C	N1-C1'-C2'	-6.37	104.99	112.00
34	BA	1629	A	C6-N1-C2	-6.37	114.78	118.60
39	BF	30	C	C5'-C4'-C3'	-6.37	105.81	116.00
85	AA	1657	C	C4'-C3'-C2'	6.37	108.97	102.60
34	BA	160	G	C5'-C4'-C3'	-6.37	105.81	116.00
34	BA	312	U	N3-C2-O2	-6.37	117.74	122.20
34	BA	631	G	O4'-C1'-N9	6.37	113.30	108.20
34	BA	818	G	C3'-C2'-C1'	-6.37	96.40	101.50
34	BA	890	G	C8-N9-C1'	6.37	135.28	127.00
35	BB	615	A	N1-C6-N6	6.37	122.42	118.60
35	BB	746	A	C5'-C4'-O4'	6.37	116.74	109.10
38	BE	95	G	C4-N9-C1'	-6.37	118.22	126.50
62	Bc	108	ARG	NE-CZ-NH2	-6.37	117.12	120.30
85	AA	660	G	C5-C6-O6	-6.37	124.78	128.60
85	AA	1289	U	C2-N3-C4	-6.37	123.18	127.00
85	AA	1406	U	O4'-C1'-N1	6.37	113.30	108.20
34	BA	564	C	C5-C6-N1	-6.37	117.82	121.00
34	BA	1785	G	O4'-C1'-N9	6.37	113.29	108.20
35	BB	976	U	C6-N1-C2	-6.37	117.18	121.00
40	BG	181	C	O5'-C5'-C4'	-6.37	99.60	111.70
85	AA	33	U	C4'-C3'-C2'	-6.37	96.23	102.60
85	AA	134	U	O4'-C1'-N1	6.37	113.29	108.20
85	AA	268	A	C5'-C4'-C3'	-6.37	105.81	116.00
85	AA	1762	G	P-O3'-C3'	6.37	127.34	119.70
3	A2	184	ARG	NE-CZ-NH1	6.37	123.48	120.30
34	BA	253	U	C5-C4-O4	6.37	129.72	125.90
34	BA	818	G	C5-C6-O6	-6.37	124.78	128.60
35	BB	654	C	C2-N1-C1'	-6.37	111.80	118.80
35	BB	1313	C	N3-C2-O2	-6.37	117.44	121.90
35	BB	1434	G	P-O3'-C3'	-6.37	112.06	119.70
38	BE	95	G	C5-C6-N1	6.37	114.68	111.50
85	AA	176	C	O4'-C1'-N1	6.37	113.29	108.20
85	AA	847	G	C1'-O4'-C4'	-6.37	104.81	109.90
85	AA	869	A	C2-N3-C4	-6.37	107.42	110.60
85	AA	1175	A	P-O3'-C3'	-6.37	112.06	119.70
85	AA	1267	A	C1'-O4'-C4'	-6.37	104.81	109.90
34	BA	687	G	N1-C2-N2	-6.36	110.47	116.20
35	BB	15	C	O4'-C1'-N1	6.36	113.29	108.20
35	BB	80	C	O4'-C1'-N1	6.36	113.29	108.20
35	BB	98	A	O5'-P-OP2	-6.36	99.97	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	136	A	P-O5'-C5'	6.36	131.08	120.90
35	BB	779	C	C6-N1-C2	6.36	122.84	120.30
35	BB	854	G	C3'-C2'-C1'	-6.36	96.41	101.50
85	AA	577	U	C4'-C3'-C2'	-6.36	96.24	102.60
85	AA	865	G	C4'-C3'-C2'	-6.36	96.24	102.60
85	AA	894	A	C1'-O4'-C4'	-6.36	104.81	109.90
85	AA	925	G	P-O3'-C3'	-6.36	112.06	119.70
85	AA	1832	G	O4'-C1'-N9	6.36	113.29	108.20
35	BB	11	A	P-O3'-C3'	6.36	127.33	119.70
35	BB	137	A	C8-N9-C4	6.36	108.34	105.80
85	AA	924	A	C5'-C4'-O4'	6.36	116.73	109.10
85	AA	1615	A	C1'-O4'-C4'	-6.36	104.81	109.90
34	BA	89	G	O5'-C5'-C4'	-6.36	99.61	111.70
34	BA	719	G	C4'-C3'-C2'	-6.36	96.24	102.60
34	BA	856	G	O4'-C1'-N9	6.36	113.29	108.20
34	BA	1283	U	C2-N1-C1'	-6.36	110.07	117.70
34	BA	1625	C	C5'-C4'-O4'	6.36	116.73	109.10
35	BB	659	C	C2'-C3'-O3'	6.36	123.88	113.70
36	BC	36	G	C5-C6-O6	-6.36	124.78	128.60
53	BT	113	LYS	N-CA-CB	6.36	122.05	110.60
85	AA	155	U	P-O5'-C5'	-6.36	110.72	120.90
85	AA	680	U	O4'-C1'-C2'	-6.36	99.44	105.80
85	AA	1161	U	O4'-C1'-N1	6.36	113.29	108.20
85	AA	2041	G	N1-C2-N2	-6.36	110.48	116.20
34	BA	177	G	C6-N1-C2	-6.36	121.28	125.10
34	BA	515	U	O4'-C1'-C2'	6.36	113.32	107.60
34	BA	1841	A	P-O5'-C5'	6.36	131.07	120.90
35	BB	116	G	P-O5'-C5'	-6.36	110.72	120.90
61	Bb	19	TYR	CA-CB-CG	6.36	125.48	113.40
80	Bu	57	ASN	C-N-CA	6.36	137.60	121.70
85	AA	899	A	C3'-C2'-C1'	-6.36	96.41	101.50
34	BA	109	A	P-O3'-C3'	-6.36	112.07	119.70
34	BA	297	A	N9-C1'-C2'	6.36	122.26	114.00
34	BA	321	G	C5-N7-C8	6.36	107.48	104.30
34	BA	747	G	C6-N1-C2	-6.36	121.28	125.10
34	BA	856	G	P-O3'-C3'	-6.36	112.07	119.70
34	BA	1756	C	O4'-C1'-N1	6.36	113.29	108.20
35	BB	1333	U	C2-N3-C4	-6.36	123.19	127.00
37	BD	58	G	C4-N9-C1'	-6.36	118.23	126.50
40	BG	8	U	C5-C6-N1	-6.36	119.52	122.70
40	BG	103	C	C4'-C3'-C2'	-6.36	96.24	102.60
81	Bv	42	ARG	CG-CD-NE	-6.36	98.45	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	305	A	P-O3'-C3'	-6.36	112.07	119.70
85	AA	447	C	N1-C2-O2	6.36	122.72	118.90
85	AA	705	G	C4-N9-C1'	-6.36	118.23	126.50
85	AA	1115	G	C3'-C2'-C1'	-6.36	96.41	101.50
85	AA	1575	G	O4'-C1'-N9	6.36	113.29	108.20
85	AA	1579	A	P-O3'-C3'	-6.36	112.07	119.70
85	AA	1934	A	C1'-O4'-C4'	-6.36	104.81	109.90
5	A4	158	PHE	C-N-CA	6.36	137.59	121.70
34	BA	490	A	C8-N9-C4	6.36	108.34	105.80
34	BA	627	U	O4'-C1'-N1	6.36	113.28	108.20
34	BA	1000	G	C8-N9-C1'	6.36	135.26	127.00
35	BB	968	C	P-O3'-C3'	-6.36	112.07	119.70
38	BE	82	C	C2'-C3'-O3'	6.36	123.87	113.70
72	Bm	76	ARG	NE-CZ-NH2	6.36	123.48	120.30
85	AA	860	C	C6-N1-C2	-6.36	117.76	120.30
85	AA	906	U	N1-C1'-C2'	-6.36	105.01	112.00
85	AA	1466	U	O3'-P-O5'	6.36	116.07	104.00
20	AL	58	MET	N-CA-CB	6.35	122.04	110.60
34	BA	123	C	P-O3'-C3'	-6.35	112.08	119.70
34	BA	1285	G	N3-C2-N2	6.35	124.35	119.90
34	BA	1818	A	O3'-P-O5'	6.35	116.07	104.00
53	BT	88	ARG	NE-CZ-NH2	-6.35	117.12	120.30
85	AA	2225	G	C5-C6-N1	6.35	114.68	111.50
18	AJ	23	ARG	NE-CZ-NH1	6.35	123.48	120.30
34	BA	167	U	C5-C4-O4	6.35	129.71	125.90
34	BA	1001	G	C1'-O4'-C4'	-6.35	104.82	109.90
34	BA	1330	G	C4-N9-C1'	-6.35	118.24	126.50
34	BA	1459	U	P-O5'-C5'	-6.35	110.74	120.90
34	BA	1692	U	O4'-C1'-N1	6.35	113.28	108.20
34	BA	1801	G	O4'-C4'-C3'	-6.35	97.65	104.00
35	BB	845	C	C3'-C2'-C1'	-6.35	96.42	101.50
35	BB	1350	A	C6-N1-C2	-6.35	114.79	118.60
38	BE	51	C	C4'-C3'-C2'	6.35	108.95	102.60
39	BF	12	U	N1-C2-N3	-6.35	111.09	114.90
43	BJ	177	ARG	NE-CZ-NH1	6.35	123.48	120.30
62	Bc	137	HIS	CB-CA-C	-6.35	97.69	110.40
80	Bu	98	ALA	N-CA-CB	-6.35	101.21	110.10
85	AA	327	G	C4'-C3'-O3'	6.35	125.70	113.00
85	AA	684	G	OP2-P-O3'	6.35	119.18	105.20
85	AA	705	G	C1'-O4'-C4'	-6.35	104.82	109.90
85	AA	1267	A	O4'-C1'-N9	6.35	113.28	108.20
85	AA	1579	A	N1-C6-N6	-6.35	114.79	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1728	G	N9-C4-C5	-6.35	102.86	105.40
34	BA	1796	A	C3'-C2'-C1'	-6.35	96.42	101.50
35	BB	1251	G	C5-C6-N1	6.35	114.68	111.50
35	BB	1533	U	C2-N1-C1'	6.35	125.32	117.70
41	BH	119	U	C5-C6-N1	-6.35	119.52	122.70
85	AA	189	G	C5-C6-N1	6.35	114.68	111.50
85	AA	767	A	N1-C2-N3	-6.35	126.12	129.30
85	AA	2218	G	N7-C8-N9	-6.35	109.92	113.10
2	A1	46	ARG	NE-CZ-NH1	6.35	123.47	120.30
34	BA	522	C	O4'-C1'-N1	6.35	113.28	108.20
34	BA	645	U	O4'-C1'-N1	6.35	113.28	108.20
34	BA	823	G	N1-C6-O6	-6.35	116.09	119.90
34	BA	1026	C	C5'-C4'-C3'	6.35	126.16	116.00
34	BA	1069	U	P-O3'-C3'	-6.35	112.08	119.70
35	BB	48	G	O4'-C1'-N9	6.35	113.28	108.20
35	BB	494	C	P-O3'-C3'	6.35	127.32	119.70
35	BB	1102	U	C2-N1-C1'	-6.35	110.08	117.70
35	BB	1171	U	P-O5'-C5'	6.35	131.06	120.90
36	BC	10	C	P-O3'-C3'	-6.35	112.08	119.70
36	BC	91	G	N1-C6-O6	-6.35	116.09	119.90
62	Bc	142	ARG	N-CA-C	6.35	128.14	111.00
85	AA	159	G	O4'-C1'-C2'	6.35	113.31	107.60
85	AA	1135	U	C2-N1-C1'	-6.35	110.08	117.70
85	AA	1491	G	C6-N1-C2	-6.35	121.29	125.10
5	A4	47	HIS	CA-CB-CG	-6.35	102.81	113.60
34	BA	1143	U	O5'-C5'-C4'	-6.35	99.64	111.70
34	BA	1495	A	C2'-C3'-O3'	6.35	123.86	113.70
35	BB	1365	G	P-O5'-C5'	-6.35	110.75	120.90
38	BE	64	A	C8-N9-C4	6.35	108.34	105.80
66	Bg	94	ARG	NE-CZ-NH2	-6.35	117.13	120.30
85	AA	1291	A	C5'-C4'-O4'	6.35	116.72	109.10
85	AA	1522	U	C4-C5-C6	-6.35	115.89	119.70
85	AA	1829	C	N3-C2-O2	-6.35	117.46	121.90
85	AA	2044	A	C5'-C4'-C3'	-6.35	105.84	116.00
34	BA	1039	G	C5'-C4'-C3'	-6.35	105.85	116.00
35	BB	420	U	C4'-C3'-C2'	-6.35	96.25	102.60
35	BB	760	C	O4'-C1'-N1	6.35	113.28	108.20
35	BB	1197	G	C8-N9-C4	6.35	108.94	106.40
85	AA	484	G	P-O3'-C3'	-6.35	112.08	119.70
85	AA	936	C	C2-N3-C4	-6.35	116.73	119.90
34	BA	418	G	C3'-C2'-C1'	-6.34	96.42	101.50
34	BA	561	U	OP1-P-OP2	-6.34	110.08	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	583	G	N3-C2-N2	6.34	124.34	119.90
34	BA	634	U	O4'-C1'-N1	6.34	113.28	108.20
34	BA	1522	G	C1'-O4'-C4'	-6.34	104.82	109.90
34	BA	1774	G	C8-N9-C1'	6.34	135.25	127.00
35	BB	298	G	O4'-C1'-N9	6.34	113.28	108.20
35	BB	954	G	O4'-C1'-N9	6.34	113.28	108.20
38	BE	85	G	O4'-C1'-N9	6.34	113.28	108.20
40	BG	163	G	C2-N3-C4	-6.34	108.73	111.90
41	BH	86	G	N1-C6-O6	6.34	123.71	119.90
52	BS	82	TYR	CB-CG-CD2	-6.34	117.19	121.00
80	Bu	190	ASN	N-CA-CB	6.34	122.02	110.60
85	AA	1095	C	C6-N1-C1'	6.34	128.41	120.80
85	AA	1458	G	C5'-C4'-O4'	-6.34	101.49	109.10
85	AA	1544	G	N9-C1'-C2'	-6.34	105.02	112.00
34	BA	325	A	C2-N3-C4	-6.34	107.43	110.60
34	BA	622	G	N1-C6-O6	6.34	123.71	119.90
35	BB	568	A	C8-N9-C4	6.34	108.34	105.80
35	BB	954	G	C3'-C2'-C1'	-6.34	96.43	101.50
38	BE	47	U	P-O5'-C5'	-6.34	110.75	120.90
39	BF	46	G	O4'-C1'-N9	6.34	113.28	108.20
40	BG	9	G	C4-C5-N7	-6.34	108.26	110.80
85	AA	1210	U	P-O3'-C3'	-6.34	112.09	119.70
85	AA	1365	U	C2-N3-C4	-6.34	123.19	127.00
85	AA	1797	U	C5'-C4'-C3'	-6.34	105.85	116.00
85	AA	2069	A	C3'-C2'-C1'	-6.34	96.43	101.50
31	AX	123	ARG	NE-CZ-NH1	6.34	123.47	120.30
34	BA	492	G	O4'-C1'-N9	6.34	113.27	108.20
34	BA	828	A	O5'-P-OP2	-6.34	99.99	105.70
34	BA	1415	C	C5'-C4'-C3'	-6.34	105.85	116.00
35	BB	546	A	C5-C6-N1	6.34	120.87	117.70
35	BB	1239	A	N1-C6-N6	-6.34	114.80	118.60
65	Bf	410	GLU	C-N-CA	6.34	137.55	121.70
65	Bf	448	ARG	NE-CZ-NH1	6.34	123.47	120.30
85	AA	281	C	P-O5'-C5'	-6.34	110.75	120.90
85	AA	423	G	C5'-C4'-C3'	-6.34	105.86	116.00
85	AA	768	C	C2'-C3'-O3'	6.34	123.85	113.70
85	AA	980	U	P-O5'-C5'	-6.34	110.75	120.90
3	A2	57	ARG	NE-CZ-NH2	-6.34	117.13	120.30
34	BA	137	C	C6-N1-C2	-6.34	117.76	120.30
34	BA	1001	G	C5-C6-N1	6.34	114.67	111.50
34	BA	1203	G	C1'-O4'-C4'	-6.34	104.83	109.90
34	BA	1210	A	C2-N3-C4	6.34	113.77	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	423	G	C5-C6-N1	6.34	114.67	111.50
37	BD	116	C	C1'-O4'-C4'	-6.34	104.83	109.90
39	BF	62	U	C4'-C3'-C2'	-6.34	96.26	102.60
85	AA	438	G	N9-C1'-C2'	-6.34	105.03	112.00
85	AA	1489	G	N9-C4-C5	-6.34	102.86	105.40
85	AA	1790	G	C5'-C4'-C3'	6.34	126.14	116.00
85	AA	1840	C	O5'-C5'-C4'	-6.34	99.65	111.70
85	AA	1881	C	C1'-O4'-C4'	-6.34	104.83	109.90
85	AA	1916	A	C5'-C4'-C3'	-6.34	105.86	116.00
34	BA	348	U	N3-C2-O2	-6.34	117.76	122.20
34	BA	1545	C	C5-C6-N1	-6.34	117.83	121.00
34	BA	1642	A	C1'-O4'-C4'	-6.34	104.83	109.90
34	BA	1696	G	C5-C6-N1	6.34	114.67	111.50
35	BB	673	C	P-O5'-C5'	6.34	131.04	120.90
35	BB	899	C	N3-C2-O2	-6.34	117.46	121.90
35	BB	1422	G	C6-C5-N7	-6.34	126.60	130.40
36	BC	8	C	C2'-C3'-O3'	6.34	123.84	113.70
36	BC	24	G	C5-C6-O6	-6.34	124.80	128.60
37	BD	93	G	O3'-P-O5'	-6.34	91.96	104.00
39	BF	32	G	C6-N1-C2	-6.34	121.30	125.10
85	AA	1057	G	C1'-O4'-C4'	-6.34	104.83	109.90
85	AA	1261	U	C3'-C2'-C1'	-6.34	96.43	101.50
85	AA	1574	C	O3'-P-O5'	-6.34	91.96	104.00
13	AE	113	TYR	CB-CG-CD1	-6.34	117.20	121.00
34	BA	84	U	C2'-C3'-O3'	6.34	123.84	113.70
34	BA	1295	U	C4'-C3'-O3'	6.34	125.67	113.00
34	BA	1336	U	C4'-C3'-C2'	-6.34	96.26	102.60
34	BA	1589	U	C6-N1-C2	-6.34	117.20	121.00
40	BG	15	G	C4'-C3'-C2'	6.34	108.94	102.60
85	AA	313	A	N9-C4-C5	-6.34	103.27	105.80
2	A1	48	ARG	NE-CZ-NH2	-6.33	117.13	120.30
34	BA	942	G	P-O3'-C3'	-6.33	112.10	119.70
34	BA	1158	A	C3'-C2'-C1'	-6.33	96.43	101.50
34	BA	1488	C	C4-C5-C6	-6.33	114.23	117.40
35	BB	368	C	N1-C2-O2	6.33	122.70	118.90
35	BB	828	G	N3-C2-N2	6.33	124.33	119.90
35	BB	974	C	C6-N1-C1'	-6.33	113.20	120.80
85	AA	213	G	N1-C6-O6	6.33	123.70	119.90
85	AA	260	A	C4-C5-C6	-6.33	113.83	117.00
85	AA	293	A	N1-C6-N6	6.33	122.40	118.60
85	AA	1159	C	C2-N1-C1'	-6.33	111.83	118.80
85	AA	1472	G	C1'-O4'-C4'	-6.33	104.83	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	AV	17	ARG	N-CA-CB	6.33	122.00	110.60
34	BA	800	G	C5-C6-N1	6.33	114.67	111.50
34	BA	890	G	P-O5'-C5'	-6.33	110.77	120.90
34	BA	983	A	N1-C6-N6	6.33	122.40	118.60
34	BA	1347	G	C4-N9-C1'	-6.33	118.27	126.50
35	BB	373	C	N3-C2-O2	-6.33	117.47	121.90
35	BB	992	C	O4'-C1'-N1	6.33	113.27	108.20
36	BC	22	U	P-O3'-C3'	6.33	127.30	119.70
38	BE	147	G	C4-N9-C1'	-6.33	118.27	126.50
40	BG	171	A	C5'-C4'-O4'	6.33	116.70	109.10
85	AA	82	A	C3'-C2'-C1'	-6.33	96.43	101.50
85	AA	820	G	C2'-C3'-O3'	6.33	123.83	113.70
85	AA	1874	G	C1'-O4'-C4'	-6.33	104.83	109.90
34	BA	624	G	C5-C6-O6	-6.33	124.80	128.60
34	BA	893	U	O4'-C1'-N1	6.33	113.27	108.20
34	BA	1724	G	C6-N1-C2	-6.33	121.30	125.10
35	BB	1215	U	C6-N1-C1'	6.33	130.06	121.20
35	BB	1221	G	C4-C5-C6	-6.33	115.00	118.80
42	BI	191	ARG	NE-CZ-NH1	6.33	123.47	120.30
34	BA	746	C	N1-C2-O2	6.33	122.70	118.90
34	BA	1150	A	N1-C6-N6	-6.33	114.80	118.60
34	BA	1247	G	C8-N9-C4	6.33	108.93	106.40
34	BA	1801	G	O4'-C1'-C2'	6.33	113.30	107.60
35	BB	1408	G	C5-C6-O6	-6.33	124.80	128.60
37	BD	101	A	C5-N7-C8	-6.33	100.73	103.90
76	Bq	30	ARG	NE-CZ-NH1	6.33	123.47	120.30
85	AA	1386	C	O4'-C1'-N1	6.33	113.26	108.20
85	AA	2190	U	C6-N1-C1'	6.33	130.06	121.20
34	BA	33	C	P-O3'-C3'	-6.33	112.11	119.70
34	BA	585	G	C8-N9-C4	-6.33	103.87	106.40
34	BA	862	C	C5-C4-N4	-6.33	115.77	120.20
34	BA	1733	G	C8-N9-C1'	6.33	135.23	127.00
35	BB	478	G	P-O5'-C5'	6.33	131.03	120.90
35	BB	795	A	C8-N9-C1'	6.33	139.09	127.70
38	BE	44	C	O4'-C1'-N1	6.33	113.26	108.20
41	BH	47	G	C1'-O4'-C4'	-6.33	104.84	109.90
85	AA	448	G	N3-C2-N2	6.33	124.33	119.90
85	AA	521	A	C2-N3-C4	-6.33	107.44	110.60
85	AA	698	G	C3'-C2'-C1'	-6.33	96.44	101.50
85	AA	778	C	O4'-C1'-N1	6.33	113.26	108.20
85	AA	1969	A	O4'-C1'-N9	6.33	113.26	108.20
34	BA	897	U	P-O5'-C5'	6.33	131.02	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1555	G	C8-N9-C1'	6.33	135.22	127.00
35	BB	517	G	C4-N9-C1'	-6.33	118.28	126.50
38	BE	115	U	C4'-C3'-C2'	-6.33	96.27	102.60
38	BE	170	U	O3'-P-O5'	-6.33	91.98	104.00
85	AA	838	G	N3-C4-C5	-6.33	125.44	128.60
85	AA	1903	G	C4'-C3'-C2'	-6.33	96.27	102.60
34	BA	53	G	C4'-C3'-C2'	6.33	108.93	102.60
34	BA	208	A	C8-N9-C4	-6.33	103.27	105.80
34	BA	287	U	P-O5'-C5'	-6.33	110.78	120.90
34	BA	506	U	P-O3'-C3'	-6.33	112.11	119.70
34	BA	808	U	P-O3'-C3'	-6.33	112.11	119.70
34	BA	926	A	C4-C5-C6	-6.33	113.84	117.00
35	BB	274	U	O4'-C1'-N1	6.33	113.26	108.20
35	BB	598	C	C3'-C2'-C1'	-6.33	96.44	101.50
35	BB	1404	A	C8-N9-C4	6.33	108.33	105.80
41	BH	35	G	C1'-O4'-C4'	-6.33	104.84	109.90
41	BH	101	A	C5'-C4'-C3'	6.33	126.12	116.00
85	AA	854	A	N1-C6-N6	-6.33	114.80	118.60
85	AA	1240	A	N9-C1'-C2'	-6.33	105.04	112.00
85	AA	1863	A	C1'-O4'-C4'	-6.33	104.84	109.90
85	AA	1963	G	N1-C6-O6	6.33	123.70	119.90
85	AA	1985	C	P-O5'-C5'	-6.33	110.78	120.90
85	AA	2136	C	O4'-C1'-N1	6.33	113.26	108.20
34	BA	446	U	P-O3'-C3'	-6.32	112.11	119.70
34	BA	1077	G	O4'-C1'-N9	6.32	113.26	108.20
34	BA	1348	G	C4'-C3'-C2'	-6.32	96.28	102.60
34	BA	1355	G	C5-C6-O6	-6.32	124.81	128.60
35	BB	390	G	P-O3'-C3'	-6.32	112.11	119.70
35	BB	823	G	N9-C1'-C2'	-6.32	105.04	112.00
35	BB	1417	C	C2-N1-C1'	-6.32	111.84	118.80
35	BB	1508	G	C5'-C4'-C3'	6.32	126.12	116.00
37	BD	54	A	P-O3'-C3'	-6.32	112.11	119.70
37	BD	71	G	C5-C6-N1	6.32	114.66	111.50
39	BF	69	A	C8-N9-C4	6.32	108.33	105.80
51	BR	53	ALA	N-CA-CB	6.32	118.95	110.10
61	Bb	35	ALA	N-CA-CB	6.32	118.95	110.10
65	Bf	451	ARG	NE-CZ-NH2	-6.32	117.14	120.30
83	Bx	110	TYR	CA-CB-CG	-6.32	101.39	113.40
85	AA	398	U	C2-N3-C4	-6.32	123.21	127.00
34	BA	99	G	C8-N9-C4	-6.32	103.87	106.40
34	BA	940	C	C6-N1-C2	-6.32	117.77	120.30
34	BA	1535	G	C5-C6-N1	6.32	114.66	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	360	C	C4'-C3'-C2'	6.32	108.92	102.60
85	AA	1903	G	O4'-C1'-N9	6.32	113.26	108.20
85	AA	2122	A	C8-N9-C1'	6.32	139.08	127.70
85	AA	2201	A	N9-C1'-C2'	-6.32	105.05	112.00
34	BA	855	C	C6-N1-C1'	-6.32	113.22	120.80
34	BA	1107	A	O4'-C1'-N9	6.32	113.26	108.20
34	BA	1193	A	P-O3'-C3'	6.32	127.28	119.70
34	BA	1489	U	O4'-C1'-N1	6.32	113.26	108.20
34	BA	1728	G	N9-C1'-C2'	-6.32	105.05	112.00
34	BA	1736	A	O3'-P-O5'	-6.32	91.99	104.00
35	BB	816	U	O3'-P-O5'	-6.32	91.99	104.00
35	BB	1015	U	C2-N3-C4	-6.32	123.21	127.00
36	BC	35	C	O4'-C1'-N1	6.32	113.26	108.20
85	AA	378	A	C5-C6-N1	6.32	120.86	117.70
85	AA	1450	U	N3-C4-C5	6.32	118.39	114.60
85	AA	2214	A	C1'-O4'-C4'	-6.32	104.84	109.90
86	AB	31	A	P-O3'-C3'	6.32	127.28	119.70
34	BA	754	G	C5-C6-N1	6.32	114.66	111.50
34	BA	1605	G	O5'-P-OP1	6.32	118.28	110.70
35	BB	503	G	P-O5'-C5'	-6.32	110.79	120.90
35	BB	957	A	O4'-C4'-C3'	-6.32	97.68	104.00
38	BE	200	A	C5-C6-N6	-6.32	118.64	123.70
85	AA	17	C	C5'-C4'-C3'	-6.32	105.89	116.00
85	AA	1022	G	C8-N9-C4	-6.32	103.87	106.40
85	AA	1293	U	P-O5'-C5'	6.32	131.01	120.90
85	AA	2103	C	C5'-C4'-C3'	-6.32	105.89	116.00
34	BA	344	G	P-O3'-C3'	6.32	127.28	119.70
34	BA	753	G	N1-C6-O6	6.32	123.69	119.90
34	BA	854	A	N1-C6-N6	6.32	122.39	118.60
34	BA	958	G	O3'-P-O5'	6.32	116.00	104.00
34	BA	1721	U	C5-C4-O4	6.32	129.69	125.90
35	BB	1354	C	C5'-C4'-C3'	-6.32	105.89	116.00
39	BF	2	G	O4'-C1'-N9	6.32	113.25	108.20
45	BL	130	TYR	CB-CG-CD1	6.32	124.79	121.00
85	AA	35	U	C1'-O4'-C4'	-6.32	104.85	109.90
85	AA	1205	U	C2-N3-C4	-6.32	123.21	127.00
85	AA	1557	U	C2-N1-C1'	-6.32	110.12	117.70
85	AA	1894	G	N1-C6-O6	6.32	123.69	119.90
24	AQ	56	ARG	NE-CZ-NH1	6.32	123.46	120.30
31	AX	116	ARG	NE-CZ-NH1	6.32	123.46	120.30
34	BA	379	C	P-O5'-C5'	6.32	131.01	120.90
34	BA	565	U	C1'-O4'-C4'	-6.32	104.85	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	965	A	O4'-C1'-N9	6.32	113.25	108.20
34	BA	1200	U	N3-C4-O4	6.32	123.82	119.40
34	BA	1637	G	N1-C6-O6	-6.32	116.11	119.90
34	BA	1679	C	C6-N1-C2	-6.32	117.77	120.30
35	BB	366	G	P-O5'-C5'	-6.32	110.80	120.90
35	BB	833	G	C6-N1-C2	-6.32	121.31	125.10
35	BB	864	U	C5'-C4'-C3'	-6.32	105.89	116.00
35	BB	1291	G	N1-C6-O6	-6.32	116.11	119.90
38	BE	72	C	C2-N3-C4	-6.32	116.74	119.90
40	BG	9	G	C4'-C3'-O3'	-6.32	96.14	109.40
57	BX	65	THR	N-CA-CB	6.32	122.30	110.30
85	AA	337	C	C3'-C2'-C1'	-6.32	96.45	101.50
85	AA	528	U	C2-N3-C4	-6.32	123.21	127.00
85	AA	1564	U	O4'-C1'-N1	6.32	113.25	108.20
85	AA	2056	C	N3-C2-O2	-6.32	117.48	121.90
34	BA	210	G	C5-C6-N1	6.31	114.66	111.50
35	BB	922	C	O4'-C1'-N1	6.31	113.25	108.20
37	BD	32	A	O4'-C1'-C2'	6.31	113.28	107.60
85	AA	544	A	C8-N9-C4	6.31	108.33	105.80
85	AA	736	U	O4'-C4'-C3'	-6.31	97.69	104.00
85	AA	863	C	C5'-C4'-C3'	-6.31	105.90	116.00
34	BA	512	U	C5'-C4'-O4'	6.31	116.67	109.10
34	BA	736	G	C4-C5-N7	6.31	113.33	110.80
34	BA	1459	U	P-O3'-C3'	6.31	127.28	119.70
34	BA	1737	A	C4'-C3'-C2'	-6.31	96.29	102.60
34	BA	1774	G	C4-N9-C1'	-6.31	118.29	126.50
35	BB	967	G	C1'-O4'-C4'	-6.31	104.85	109.90
35	BB	1156	U	C6-N1-C2	-6.31	117.21	121.00
35	BB	1185	G	C6-N1-C2	-6.31	121.31	125.10
35	BB	1246	C	C3'-C2'-C1'	-6.31	96.45	101.50
74	Bo	69	TYR	CB-CG-CD2	-6.31	117.21	121.00
85	AA	442	G	C1'-O4'-C4'	-6.31	104.85	109.90
85	AA	1117	G	O4'-C1'-N9	6.31	113.25	108.20
85	AA	1139	G	P-O5'-C5'	-6.31	110.80	120.90
85	AA	1200	A	O3'-P-O5'	6.31	115.99	104.00
85	AA	1935	G	N1-C6-O6	6.31	123.69	119.90
85	AA	2038	C	C6-N1-C2	-6.31	117.78	120.30
34	BA	739	A	N9-C1'-C2'	6.31	122.20	114.00
34	BA	1485	U	C2-N3-C4	-6.31	123.21	127.00
34	BA	1739	G	C1'-O4'-C4'	-6.31	104.85	109.90
34	BA	1792	U	C5'-C4'-C3'	6.31	126.10	116.00
35	BB	133	G	C5'-C4'-C3'	-6.31	105.90	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	110	G	C5'-C4'-C3'	6.31	126.10	116.00
85	AA	658	C	C1'-O4'-C4'	-6.31	104.85	109.90
85	AA	785	C	C2'-C3'-O3'	6.31	123.80	113.70
85	AA	939	A	C3'-C2'-C1'	-6.31	96.45	101.50
85	AA	2195	A	N9-C1'-C2'	-6.31	105.06	112.00
20	AL	33	ARG	NE-CZ-NH1	6.31	123.45	120.30
34	BA	138	C	C5'-C4'-O4'	6.31	116.67	109.10
34	BA	519	G	C8-N9-C1'	-6.31	118.80	127.00
34	BA	1078	U	C6-N1-C2	-6.31	117.22	121.00
35	BB	373	C	C6-N1-C2	-6.31	117.78	120.30
35	BB	621	C	C1'-O4'-C4'	-6.31	104.85	109.90
35	BB	701	U	C3'-C2'-C1'	-6.31	96.45	101.50
36	BC	151	G	C4-N9-C1'	-6.31	118.30	126.50
50	BQ	211	ARG	NE-CZ-NH1	6.31	123.45	120.30
82	Bw	164	TYR	CA-CB-CG	-6.31	101.41	113.40
85	AA	1303	U	C2-N1-C1'	6.31	125.27	117.70
85	AA	1676	G	N9-C4-C5	6.31	107.92	105.40
34	BA	25	C	C2-N3-C4	-6.31	116.75	119.90
34	BA	233	U	C2-N1-C1'	-6.31	110.13	117.70
34	BA	806	U	C2-N3-C4	-6.31	123.22	127.00
35	BB	381	C	C5'-C4'-C3'	6.31	126.09	116.00
35	BB	453	C	C2-N3-C4	-6.31	116.75	119.90
35	BB	539	G	C5-C6-O6	-6.31	124.82	128.60
35	BB	986	C	P-O3'-C3'	6.31	127.27	119.70
35	BB	1222	A	C3'-C2'-C1'	-6.31	96.45	101.50
35	BB	1281	G	P-O3'-C3'	-6.31	112.13	119.70
41	BH	22	A	C8-N9-C4	6.31	108.32	105.80
59	BZ	67	VAL	CB-CA-C	-6.31	99.42	111.40
85	AA	717	G	N3-C2-N2	6.31	124.32	119.90
85	AA	1372	C	P-O5'-C5'	6.31	130.99	120.90
85	AA	1573	A	C2-N3-C4	-6.31	107.45	110.60
85	AA	1731	G	P-O3'-C3'	-6.31	112.13	119.70
85	AA	2050	C	P-O3'-C3'	6.31	127.27	119.70
34	BA	120	A	P-O3'-C3'	6.31	127.27	119.70
34	BA	159	U	N1-C1'-C2'	-6.31	105.06	112.00
34	BA	288	U	P-O3'-C3'	-6.31	112.13	119.70
35	BB	1406	C	O4'-C1'-N1	6.31	113.25	108.20
36	BC	116	C	N1-C2-O2	6.31	122.68	118.90
45	BL	124	ASP	CA-CB-CG	-6.31	99.53	113.40
85	AA	443	A	O4'-C1'-C2'	6.31	113.28	107.60
85	AA	639	C	P-O5'-C5'	-6.31	110.81	120.90
85	AA	805	A	P-O5'-C5'	6.31	130.99	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	835	C	C3'-C2'-C1'	-6.31	96.45	101.50
85	AA	977	U	C3'-C2'-C1'	-6.31	96.45	101.50
85	AA	1818	C	O4'-C1'-N1	6.31	113.25	108.20
34	BA	84	U	C6-N1-C2	-6.30	117.22	121.00
34	BA	561	U	N3-C4-O4	6.30	123.81	119.40
34	BA	1655	G	C5-C6-N1	6.30	114.65	111.50
38	BE	32	U	O4'-C4'-C3'	6.30	111.14	106.10
85	AA	2165	C	O4'-C1'-N1	6.30	113.24	108.20
85	AA	2189	U	C5'-C4'-O4'	6.30	116.67	109.10
35	BB	1444	U	C5'-C4'-C3'	-6.30	105.92	116.00
85	AA	572	G	P-O5'-C5'	-6.30	110.81	120.90
21	AM	125	ARG	CD-NE-CZ	-6.30	114.78	123.60
34	BA	718	U	N1-C1'-C2'	-6.30	105.07	112.00
34	BA	1289	C	C4'-C3'-C2'	-6.30	96.30	102.60
35	BB	1231	U	O3'-P-O5'	6.30	115.97	104.00
35	BB	1523	U	C5'-C4'-C3'	-6.30	105.92	116.00
37	BD	80	G	C8-N9-C4	6.30	108.92	106.40
38	BE	192	A	N1-C6-N6	-6.30	114.82	118.60
85	AA	979	U	C2-N3-C4	-6.30	123.22	127.00
85	AA	1409	U	O4'-C1'-N1	6.30	113.24	108.20
85	AA	2133	A	C8-N9-C4	6.30	108.32	105.80
34	BA	321	G	C8-N9-C1'	6.30	135.19	127.00
34	BA	590	U	C2-N1-C1'	-6.30	110.14	117.70
34	BA	992	A	C4'-C3'-C2'	6.30	108.90	102.60
34	BA	1308	C	O5'-P-OP2	-6.30	100.03	105.70
85	AA	44	C	C2'-C3'-O3'	6.30	123.78	113.70
85	AA	272	C	C3'-C2'-C1'	-6.30	96.46	101.50
85	AA	478	U	C5-C6-N1	-6.30	119.55	122.70
85	AA	713	G	P-O3'-C3'	-6.30	112.14	119.70
85	AA	983	A	O3'-P-O5'	-6.30	92.03	104.00
30	AW	5	ASP	N-CA-C	6.30	128.00	111.00
34	BA	180	G	C8-N9-C4	-6.30	103.88	106.40
35	BB	72	G	C1'-O4'-C4'	-6.30	104.86	109.90
35	BB	857	G	C5'-C4'-C3'	-6.30	105.92	116.00
35	BB	1396	G	C8-N9-C4	6.30	108.92	106.40
38	BE	114	G	C5'-C4'-O4'	6.30	116.66	109.10
34	BA	299	C	O4'-C1'-N1	6.30	113.24	108.20
34	BA	1099	U	P-O3'-C3'	-6.30	112.14	119.70
34	BA	1509	U	N3-C2-O2	-6.30	117.79	122.20
34	BA	1696	G	O3'-P-O5'	6.30	115.96	104.00
34	BA	1708	A	C8-N9-C4	6.30	108.32	105.80
35	BB	140	U	O4'-C1'-N1	6.30	113.24	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	449	C	N3-C4-N4	-6.30	113.59	118.00
35	BB	1109	A	P-O3'-C3'	-6.30	112.14	119.70
38	BE	38	C	C5'-C4'-C3'	-6.30	105.93	116.00
40	BG	45	G	C1'-O4'-C4'	-6.30	104.86	109.90
84	By	24	VAL	CB-CA-C	-6.30	99.44	111.40
85	AA	869	A	C5-N7-C8	-6.30	100.75	103.90
85	AA	1459	C	N1-C2-N3	6.30	123.61	119.20
85	AA	1716	U	N3-C2-O2	-6.30	117.79	122.20
85	AA	1816	C	N1-C2-O2	6.30	122.68	118.90
85	AA	1917	G	O4'-C1'-N9	6.30	113.24	108.20
85	AA	1955	U	N3-C2-O2	-6.30	117.79	122.20
34	BA	1173	C	P-O5'-C5'	6.29	130.97	120.90
34	BA	1446	G	N1-C6-O6	-6.29	116.12	119.90
35	BB	807	U	C6-N1-C1'	6.29	130.01	121.20
38	BE	77	C	C2-N1-C1'	6.29	125.72	118.80
41	BH	39	G	C2-N3-C4	6.29	115.05	111.90
85	AA	204	U	O4'-C1'-N1	6.29	113.24	108.20
85	AA	785	C	C4'-C3'-C2'	6.29	108.89	102.60
85	AA	887	A	O4'-C1'-N9	6.29	113.24	108.20
6	A5	180	ARG	NE-CZ-NH1	6.29	123.45	120.30
34	BA	265	A	O5'-C5'-C4'	-6.29	99.74	111.70
34	BA	691	A	O3'-P-O5'	6.29	115.96	104.00
34	BA	1484	A	C5'-C4'-C3'	6.29	126.07	116.00
35	BB	642	G	C3'-C2'-C1'	-6.29	96.47	101.50
35	BB	1514	G	C1'-O4'-C4'	-6.29	104.87	109.90
40	BG	145	C	P-O5'-C5'	-6.29	110.83	120.90
85	AA	47	A	C5'-C4'-O4'	6.29	116.65	109.10
85	AA	589	A	C8-N9-C4	-6.29	103.28	105.80
85	AA	1157	U	C2-N1-C1'	-6.29	110.15	117.70
34	BA	485	C	O3'-P-O5'	6.29	115.95	104.00
34	BA	1335	A	C3'-C2'-C1'	-6.29	96.47	101.50
34	BA	1561	C	C2-N3-C4	-6.29	116.75	119.90
34	BA	1694	C	C2-N1-C1'	-6.29	111.88	118.80
34	BA	1733	G	N9-C1'-C2'	-6.29	105.08	112.00
35	BB	24	C	C3'-C2'-C1'	-6.29	96.47	101.50
35	BB	314	A	C5-C6-N6	-6.29	118.67	123.70
35	BB	1014	U	C2-N1-C1'	-6.29	110.15	117.70
35	BB	1251	G	N9-C4-C5	-6.29	102.88	105.40
35	BB	1520	C	P-O3'-C3'	6.29	127.25	119.70
49	BP	102	PHE	CB-CG-CD2	-6.29	116.40	120.80
68	Bi	62	ARG	NE-CZ-NH2	-6.29	117.15	120.30
85	AA	414	C	N1-C2-N3	6.29	123.60	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	962	U	C1'-O4'-C4'	-6.29	104.87	109.90
85	AA	1191	G	O4'-C1'-N9	6.29	113.23	108.20
35	BB	870	C	N3-C4-C5	-6.29	119.38	121.90
85	AA	47	A	C8-N9-C1'	-6.29	116.38	127.70
85	AA	718	C	N3-C2-O2	-6.29	117.50	121.90
34	BA	195	G	N1-C6-O6	-6.29	116.13	119.90
34	BA	1367	G	C5'-C4'-O4'	6.29	116.65	109.10
34	BA	1499	A	C4-N9-C1'	-6.29	114.98	126.30
34	BA	1550	G	P-O3'-C3'	6.29	127.25	119.70
34	BA	1751	C	O4'-C1'-N1	6.29	113.23	108.20
35	BB	130	G	C4-N9-C1'	-6.29	118.33	126.50
35	BB	791	A	C8-N9-C4	-6.29	103.28	105.80
35	BB	1347	C	C5'-C4'-C3'	-6.29	105.94	116.00
37	BD	45	U	C2-N3-C4	6.29	130.77	127.00
37	BD	71	G	C4'-C3'-C2'	-6.29	96.31	102.60
38	BE	20	C	OP1-P-OP2	-6.29	110.17	119.60
85	AA	112	A	C8-N9-C4	6.29	108.31	105.80
85	AA	811	A	P-O5'-C5'	6.29	130.96	120.90
85	AA	1506	U	N1-C2-N3	6.29	118.67	114.90
85	AA	1691	U	O4'-C1'-N1	6.29	113.23	108.20
85	AA	2147	A	P-O3'-C3'	-6.29	112.15	119.70
85	AA	2155	U	C2'-C3'-O3'	6.29	123.76	113.70
85	AA	2196	G	O5'-C5'-C4'	-6.29	99.75	111.70
34	BA	68	A	C2-N3-C4	-6.29	107.46	110.60
34	BA	290	G	C1'-O4'-C4'	-6.29	104.87	109.90
34	BA	909	G	C8-N9-C4	6.29	108.92	106.40
34	BA	1271	C	P-O3'-C3'	-6.29	112.16	119.70
34	BA	1519	G	C5'-C4'-C3'	-6.29	105.94	116.00
35	BB	426	A	P-O5'-C5'	6.29	130.96	120.90
35	BB	431	U	C5'-C4'-O4'	6.29	116.64	109.10
35	BB	804	U	C6-N1-C2	-6.29	117.23	121.00
74	Bo	48	ARG	NE-CZ-NH1	6.29	123.44	120.30
85	AA	127	U	C5'-C4'-O4'	6.29	116.64	109.10
85	AA	1995	U	N3-C4-O4	-6.29	115.00	119.40
34	BA	602	G	O4'-C1'-N9	6.29	113.23	108.20
34	BA	673	U	C5'-C4'-O4'	-6.29	101.56	109.10
34	BA	1058	C	C2-N3-C4	-6.29	116.76	119.90
34	BA	1491	U	C5-C4-O4	6.29	129.67	125.90
34	BA	1782	C	N3-C2-O2	-6.29	117.50	121.90
35	BB	440	U	N1-C2-N3	6.29	118.67	114.90
35	BB	627	G	C3'-C2'-C1'	6.29	106.53	101.50
35	BB	743	C	C2-N3-C4	-6.29	116.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1272	G	C5-C6-O6	-6.29	124.83	128.60
35	BB	1438	U	C4-C5-C6	-6.29	115.93	119.70
53	BT	136	ARG	N-CA-CB	-6.29	99.29	110.60
58	BY	61	ARG	NE-CZ-NH1	6.29	123.44	120.30
67	Bh	91	HIS	CA-CB-CG	-6.29	102.92	113.60
85	AA	796	U	P-O3'-C3'	6.29	127.24	119.70
85	AA	1594	G	C5'-C4'-C3'	-6.29	105.94	116.00
85	AA	2047	U	C5'-C4'-C3'	-6.29	105.94	116.00
85	AA	2177	C	O4'-C1'-N1	6.29	113.23	108.20
85	AA	2187	G	C8-N9-C4	6.29	108.91	106.40
35	BB	635	A	O3'-P-O5'	6.28	115.94	104.00
35	BB	1098	G	N1-C6-O6	-6.28	116.13	119.90
36	BC	27	U	C6-N1-C2	-6.28	117.23	121.00
38	BE	26	G	C3'-C2'-C1'	-6.28	96.47	101.50
40	BG	11	G	C8-N9-C4	-6.28	103.89	106.40
41	BH	9	C	C6-N1-C1'	-6.28	113.26	120.80
42	BI	71	MET	N-CA-CB	-6.28	99.29	110.60
59	BZ	14	ARG	NE-CZ-NH1	6.28	123.44	120.30
85	AA	1190	G	C8-N9-C1'	6.28	135.17	127.00
85	AA	1900	C	C2-N1-C1'	-6.28	111.89	118.80
85	AA	1978	G	C5-C6-N1	6.28	114.64	111.50
85	AA	2069	A	C5'-C4'-O4'	6.28	116.64	109.10
85	AA	2075	C	C1'-O4'-C4'	-6.28	104.87	109.90
34	BA	255	G	C8-N9-C1'	6.28	135.17	127.00
34	BA	321	G	C1'-O4'-C4'	-6.28	104.88	109.90
34	BA	1177	C	N3-C4-N4	6.28	122.40	118.00
34	BA	1222	C	N3-C4-N4	6.28	122.40	118.00
34	BA	1721	U	C5-C6-N1	-6.28	119.56	122.70
35	BB	1293	C	N3-C2-O2	-6.28	117.50	121.90
66	Bg	20	THR	N-CA-CB	6.28	122.23	110.30
85	AA	145	C	P-O3'-C3'	-6.28	112.16	119.70
85	AA	1675	U	P-O3'-C3'	-6.28	112.16	119.70
34	BA	267	G	C5-C6-O6	-6.28	124.83	128.60
34	BA	1513	G	N1-C6-O6	-6.28	116.13	119.90
35	BB	465	C	O4'-C1'-N1	6.28	113.22	108.20
35	BB	679	G	N1-C2-N2	-6.28	110.55	116.20
35	BB	1199	A	N1-C2-N3	-6.28	126.16	129.30
35	BB	1257	A	C5-C6-N6	-6.28	118.67	123.70
35	BB	1454	G	C1'-O4'-C4'	-6.28	104.88	109.90
36	BC	16	A	C1'-O4'-C4'	-6.28	104.88	109.90
85	AA	889	G	P-O5'-C5'	6.28	130.95	120.90
85	AA	1033	C	O4'-C1'-N1	6.28	113.22	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1995	U	O4'-C1'-N1	6.28	113.22	108.20
34	BA	277	A	N1-C6-N6	-6.28	114.83	118.60
34	BA	729	C	N1-C2-O2	6.28	122.67	118.90
34	BA	816	G	C4'-C3'-C2'	6.28	108.88	102.60
34	BA	941	G	N9-C4-C5	-6.28	102.89	105.40
34	BA	951	C	P-O3'-C3'	-6.28	112.17	119.70
34	BA	1157	A	N9-C1'-C2'	-6.28	105.09	112.00
34	BA	1475	G	N9-C1'-C2'	-6.28	105.09	112.00
34	BA	1511	C	C4'-C3'-C2'	6.28	108.88	102.60
36	BC	17	U	N1-C2-N3	-6.28	111.13	114.90
53	BT	3	SER	N-CA-CB	6.28	119.92	110.50
64	Be	204	ARG	NE-CZ-NH1	6.28	123.44	120.30
85	AA	472	A	C8-N9-C4	-6.28	103.29	105.80
85	AA	1150	G	C5-C6-O6	-6.28	124.83	128.60
85	AA	1348	C	C6-N1-C2	-6.28	117.79	120.30
13	AE	71	ASP	CB-CG-OD2	-6.28	112.65	118.30
34	BA	106	U	C3'-C2'-C1'	-6.28	96.48	101.50
34	BA	433	G	O5'-C5'-C4'	6.28	123.63	111.70
34	BA	1014	A	C5-C6-N6	6.28	128.72	123.70
34	BA	1725	U	P-O5'-C5'	-6.28	110.86	120.90
34	BA	1758	C	O4'-C1'-N1	6.28	113.22	108.20
34	BA	1793	G	N3-C2-N2	-6.28	115.51	119.90
35	BB	27	C	O4'-C1'-N1	6.28	113.22	108.20
35	BB	112	G	N3-C4-C5	-6.28	125.46	128.60
35	BB	524	C	C5'-C4'-O4'	6.28	116.63	109.10
35	BB	693	U	C1'-O4'-C4'	-6.28	104.88	109.90
35	BB	746	A	C1'-O4'-C4'	-6.28	104.88	109.90
35	BB	798	A	OP1-P-OP2	-6.28	110.18	119.60
35	BB	1527	A	C5'-C4'-C3'	-6.28	105.96	116.00
36	BC	7	U	P-O5'-C5'	-6.28	110.86	120.90
37	BD	16	U	C2-N1-C1'	-6.28	110.17	117.70
38	BE	120	C	O4'-C1'-N1	6.28	113.22	108.20
41	BH	49	C	C3'-C2'-C1'	-6.28	96.48	101.50
65	Bf	193	GLY	N-CA-C	-6.28	97.41	113.10
75	Bp	17	ARG	NE-CZ-NH1	6.28	123.44	120.30
85	AA	158	C	C5'-C4'-C3'	-6.28	105.95	116.00
85	AA	1492	U	N1-C1'-C2'	-6.28	105.09	112.00
34	BA	210	G	N1-C6-O6	-6.28	116.14	119.90
34	BA	626	G	N3-C4-C5	-6.28	125.46	128.60
34	BA	649	A	P-O3'-C3'	-6.28	112.17	119.70
34	BA	1697	U	N3-C2-O2	6.28	126.59	122.20
35	BB	1517	G	P-O3'-C3'	-6.28	112.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	89	U	O5'-C5'-C4'	-6.28	99.78	111.70
36	BC	140	U	C6-N1-C1'	-6.28	112.42	121.20
40	BG	166	C	O4'-C1'-N1	6.28	113.22	108.20
77	Br	225	LEU	N-CA-C	-6.28	94.05	111.00
85	AA	548	G	C1'-O4'-C4'	-6.28	104.88	109.90
85	AA	1160	U	P-O3'-C3'	6.28	127.23	119.70
34	BA	575	U	OP2-P-O3'	6.27	119.00	105.20
34	BA	682	A	P-O5'-C5'	-6.27	110.86	120.90
34	BA	1202	G	C5'-C4'-O4'	6.27	116.63	109.10
34	BA	1333	G	N9-C1'-C2'	-6.27	105.10	112.00
34	BA	1347	G	C8-N9-C1'	6.27	135.16	127.00
35	BB	894	A	O3'-P-O5'	6.27	115.92	104.00
35	BB	1548	C	C6-N1-C1'	6.27	128.33	120.80
36	BC	139	A	C5'-C4'-O4'	-6.27	101.57	109.10
37	BD	45	U	C3'-C2'-C1'	-6.27	96.48	101.50
85	AA	962	U	N1-C1'-C2'	-6.27	105.10	112.00
34	BA	477	C	O4'-C1'-N1	6.27	113.22	108.20
34	BA	810	A	O4'-C1'-N9	6.27	113.22	108.20
34	BA	1425	G	O4'-C1'-C2'	-6.27	99.53	105.80
34	BA	1660	A	P-O3'-C3'	-6.27	112.17	119.70
35	BB	448	G	C6-N1-C2	-6.27	121.34	125.10
35	BB	479	U	C6-N1-C1'	6.27	129.98	121.20
35	BB	1228	A	O5'-C5'-C4'	6.27	123.62	111.70
35	BB	1475	U	OP1-P-OP2	-6.27	110.19	119.60
36	BC	74	U	O4'-C1'-N1	6.27	113.22	108.20
37	BD	48	G	C2-N3-C4	-6.27	108.76	111.90
37	BD	92	G	C6-N1-C2	-6.27	121.34	125.10
62	Bc	21	LYS	N-CA-CB	-6.27	99.31	110.60
77	Br	195	MET	CA-CB-CG	6.27	123.97	113.30
85	AA	314	C	C5'-C4'-C3'	6.27	126.04	116.00
34	BA	869	C	N3-C2-O2	-6.27	117.51	121.90
35	BB	879	G	OP1-P-OP2	-6.27	110.19	119.60
36	BC	44	A	C6-N1-C2	-6.27	114.84	118.60
85	AA	744	C	C2-N1-C1'	6.27	125.70	118.80
85	AA	1916	A	N3-C4-C5	6.27	131.19	126.80
85	AA	2067	A	P-O5'-C5'	-6.27	110.87	120.90
15	AG	32	ASP	CA-CB-CG	-6.27	99.61	113.40
34	BA	128	C	C6-N1-C2	-6.27	117.79	120.30
34	BA	683	C	C5'-C4'-O4'	-6.27	101.58	109.10
34	BA	1215	U	O5'-C5'-C4'	-6.27	99.79	111.70
34	BA	1262	A	N7-C8-N9	-6.27	110.67	113.80
34	BA	1447	C	C1'-O4'-C4'	-6.27	104.88	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1674	G	C4-N9-C1'	6.27	134.65	126.50
35	BB	59	U	O5'-C5'-C4'	-6.27	99.79	111.70
35	BB	1237	C	O4'-C1'-C2'	6.27	113.24	107.60
35	BB	1520	C	C4'-C3'-C2'	-6.27	96.33	102.60
38	BE	59	U	P-O3'-C3'	-6.27	112.18	119.70
62	Bc	78	LYS	CG-CD-CE	6.27	130.71	111.90
85	AA	365	G	N7-C8-N9	-6.27	109.97	113.10
85	AA	1503	G	O4'-C1'-C2'	6.27	113.24	107.60
85	AA	1609	U	C4'-C3'-C2'	-6.27	96.33	102.60
85	AA	2228	G	C6-N1-C2	-6.27	121.34	125.10
86	AB	41	C	O4'-C1'-N1	6.27	113.22	108.20
34	BA	761	U	N3-C2-O2	-6.27	117.81	122.20
34	BA	974	G	P-O3'-C3'	-6.27	112.18	119.70
34	BA	1344	G	C5-C6-O6	-6.27	124.84	128.60
35	BB	662	G	N3-C2-N2	6.27	124.29	119.90
35	BB	1299	G	C5-N7-C8	-6.27	101.17	104.30
35	BB	1387	C	N3-C4-N4	-6.27	113.61	118.00
38	BE	140	G	C5-C6-N1	6.27	114.63	111.50
39	BF	11	C	C5'-C4'-O4'	6.27	116.62	109.10
39	BF	53	G	C3'-C2'-C1'	-6.27	96.49	101.50
40	BG	94	G	C5'-C4'-C3'	6.27	126.03	116.00
34	BA	335	C	O5'-C5'-C4'	-6.27	99.80	111.70
34	BA	658	C	C2-N1-C1'	-6.27	111.91	118.80
34	BA	984	U	C5-C6-N1	-6.27	119.57	122.70
34	BA	1011	G	C8-N9-C1'	6.27	135.15	127.00
34	BA	1172	C	C6-N1-C1'	6.27	128.32	120.80
85	AA	2042	G	C8-N9-C4	6.27	108.91	106.40
20	AL	108	MET	CA-CB-CG	6.26	123.95	113.30
34	BA	405	C	C2-N1-C1'	-6.26	111.91	118.80
34	BA	784	C	N1-C2-O2	6.26	122.66	118.90
34	BA	867	C	C2-N3-C4	-6.26	116.77	119.90
34	BA	1206	C	C6-N1-C1'	-6.26	113.28	120.80
34	BA	1286	C	P-O3'-C3'	-6.26	112.18	119.70
35	BB	710	A	P-O3'-C3'	-6.26	112.18	119.70
38	BE	144	A	N1-C6-N6	-6.26	114.84	118.60
75	Bp	69	VAL	CA-CB-CG2	-6.26	101.50	110.90
85	AA	320	U	P-O3'-C3'	-6.26	112.18	119.70
85	AA	340	G	C1'-O4'-C4'	-6.26	104.89	109.90
85	AA	764	U	O3'-P-O5'	6.26	115.90	104.00
85	AA	858	G	C1'-O4'-C4'	-6.26	104.89	109.90
85	AA	1727	U	C2-N1-C1'	-6.26	110.18	117.70
34	BA	768	G	OP2-P-O3'	6.26	118.98	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1106	A	P-O5'-C5'	6.26	130.92	120.90
34	BA	1505	G	C8-N9-C1'	-6.26	118.86	127.00
34	BA	1622	U	P-O3'-C3'	-6.26	112.19	119.70
35	BB	313	C	C6-N1-C2	-6.26	117.80	120.30
34	BA	305	C	N1-C1'-C2'	-6.26	105.11	112.00
34	BA	371	U	C5-C6-N1	-6.26	119.57	122.70
34	BA	589	A	C3'-C2'-C1'	-6.26	96.49	101.50
34	BA	739	A	O3'-P-O5'	6.26	115.90	104.00
34	BA	767	U	O4'-C1'-N1	6.26	113.21	108.20
34	BA	922	C	P-O5'-C5'	-6.26	110.88	120.90
34	BA	922	C	C3'-C2'-C1'	-6.26	96.49	101.50
34	BA	1218	G	N3-C4-C5	-6.26	125.47	128.60
34	BA	1332	U	N1-C1'-C2'	-6.26	105.11	112.00
35	BB	843	G	N9-C1'-C2'	-6.26	105.11	112.00
35	BB	1187	G	O4'-C1'-N9	6.26	113.21	108.20
35	BB	1429	A	P-O3'-C3'	-6.26	112.19	119.70
35	BB	1461	C	N3-C4-N4	6.26	122.38	118.00
35	BB	1521	G	C6-N1-C2	-6.26	121.34	125.10
35	BB	1538	G	N9-C1'-C2'	-6.26	105.11	112.00
36	BC	19	A	C3'-C2'-C1'	6.26	106.51	101.50
36	BC	72	A	C5'-C4'-C3'	-6.26	105.98	116.00
36	BC	111	C	N3-C4-N4	6.26	122.38	118.00
38	BE	201	A	C5'-C4'-O4'	6.26	116.61	109.10
85	AA	1761	C	O4'-C1'-N1	6.26	113.21	108.20
34	BA	184	C	C1'-O4'-C4'	-6.26	104.89	109.90
34	BA	201	A	N1-C2-N3	-6.26	126.17	129.30
34	BA	572	G	C5'-C4'-C3'	6.26	126.02	116.00
34	BA	721	A	C5'-C4'-C3'	-6.26	105.98	116.00
34	BA	1135	U	C2-N1-C1'	-6.26	110.19	117.70
34	BA	1234	U	C2-N1-C1'	-6.26	110.19	117.70
35	BB	657	A	O4'-C1'-N9	6.26	113.21	108.20
35	BB	802	G	C5-C6-N1	6.26	114.63	111.50
41	BH	23	G	C5-N7-C8	-6.26	101.17	104.30
67	Bh	33	ARG	NE-CZ-NH1	6.26	123.43	120.30
70	Bk	80	ARG	NE-CZ-NH1	6.26	123.43	120.30
85	AA	160	A	C5'-C4'-C3'	-6.26	105.98	116.00
85	AA	164	G	C3'-C2'-C1'	-6.26	96.49	101.50
85	AA	335	G	C8-N9-C1'	6.26	135.14	127.00
85	AA	932	A	C5-N7-C8	-6.26	100.77	103.90
85	AA	1848	G	C2-N3-C4	-6.26	108.77	111.90
17	AI	60	ALA	CA-C-N	6.26	134.62	117.10
35	BB	368	C	C4'-C3'-C2'	6.26	108.86	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1424	G	C8-N9-C1'	6.26	135.14	127.00
37	BD	64	A	O5'-C5'-C4'	-6.26	99.81	111.70
40	BG	43	U	O4'-C1'-N1	6.26	113.21	108.20
41	BH	65	G	O4'-C1'-N9	6.26	113.21	108.20
85	AA	216	U	O4'-C1'-N1	6.26	113.21	108.20
85	AA	2092	A	P-O3'-C3'	-6.26	112.19	119.70
7	A6	145	PHE	CB-CG-CD2	-6.26	116.42	120.80
34	BA	13	U	C6-N1-C1'	-6.26	112.44	121.20
34	BA	78	U	C2-N1-C1'	-6.26	110.19	117.70
34	BA	1066	A	P-O3'-C3'	-6.26	112.19	119.70
34	BA	1079	C	C4-C5-C6	-6.26	114.27	117.40
34	BA	1708	A	O4'-C4'-C3'	-6.26	97.74	104.00
41	BH	62	C	C5'-C4'-O4'	6.26	116.61	109.10
85	AA	706	U	O5'-C5'-C4'	-6.26	99.81	111.70
85	AA	773	G	C4-N9-C1'	-6.26	118.37	126.50
85	AA	857	G	C1'-O4'-C4'	-6.26	104.89	109.90
85	AA	2176	U	O5'-C5'-C4'	-6.26	99.81	111.70
34	BA	511	U	P-O3'-C3'	6.25	127.21	119.70
34	BA	546	U	C5'-C4'-O4'	6.25	116.61	109.10
34	BA	940	C	N3-C2-O2	-6.25	117.52	121.90
34	BA	1146	U	P-O3'-C3'	6.25	127.21	119.70
37	BD	12	U	C3'-C2'-C1'	-6.25	96.50	101.50
40	BG	137	G	C5'-C4'-C3'	-6.25	105.99	116.00
85	AA	239	G	P-O5'-C5'	-6.25	110.89	120.90
85	AA	267	U	O4'-C4'-C3'	-6.25	97.75	104.00
85	AA	1254	A	O4'-C1'-N9	6.25	113.20	108.20
30	AW	24	ARG	NE-CZ-NH1	6.25	123.43	120.30
32	AY	47	LYS	N-CA-CB	-6.25	99.34	110.60
34	BA	7	U	C5'-C4'-C3'	6.25	126.01	116.00
34	BA	47	U	C4'-C3'-C2'	6.25	108.85	102.60
34	BA	756	A	P-O3'-C3'	-6.25	112.20	119.70
34	BA	859	G	C5-C6-O6	-6.25	124.85	128.60
34	BA	1084	A	O4'-C1'-N9	6.25	113.20	108.20
35	BB	464	C	O4'-C1'-N1	6.25	113.20	108.20
35	BB	1495	U	C6-N1-C1'	6.25	129.95	121.20
37	BD	98	G	N3-C2-N2	6.25	124.28	119.90
38	BE	60	C	C6-N1-C2	-6.25	117.80	120.30
73	Bn	14	ARG	C-N-CA	6.25	137.34	121.70
85	AA	1223	A	P-O3'-C3'	-6.25	112.20	119.70
85	AA	1788	U	P-O5'-C5'	6.25	130.91	120.90
85	AA	1966	C	O4'-C1'-N1	6.25	113.20	108.20
85	AA	1985	C	P-O3'-C3'	-6.25	112.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A2	64	PHE	CA-CB-CG	-6.25	98.90	113.90
4	A3	7	TYR	N-CA-CB	-6.25	99.35	110.60
27	AT	101	LEU	C-N-CA	6.25	135.43	122.30
34	BA	296	G	C8-N9-C4	-6.25	103.90	106.40
34	BA	730	C	C3'-C2'-C1'	-6.25	96.50	101.50
34	BA	1173	C	C2-N1-C1'	-6.25	111.92	118.80
34	BA	1435	A	C8-N9-C4	6.25	108.30	105.80
35	BB	356	C	P-O3'-C3'	-6.25	112.20	119.70
35	BB	405	U	C5-C4-O4	-6.25	122.15	125.90
35	BB	494	C	N1-C1'-C2'	-6.25	105.12	112.00
35	BB	1170	U	P-O5'-C5'	-6.25	110.90	120.90
35	BB	1307	C	O4'-C1'-N1	6.25	113.20	108.20
35	BB	1548	C	N1-C1'-C2'	-6.25	105.12	112.00
36	BC	136	G	N3-C2-N2	6.25	124.28	119.90
37	BD	51	G	C2'-C3'-O3'	6.25	123.70	113.70
64	Be	83	PHE	CB-CA-C	6.25	122.90	110.40
85	AA	25	C	C6-N1-C2	-6.25	117.80	120.30
85	AA	70	U	C5'-C4'-O4'	6.25	116.60	109.10
85	AA	1453	U	P-O3'-C3'	6.25	127.20	119.70
85	AA	2054	G	O4'-C1'-N9	6.25	113.20	108.20
34	BA	572	G	N9-C1'-C2'	6.25	122.12	114.00
34	BA	1000	G	C4-N9-C1'	-6.25	118.38	126.50
35	BB	412	A	C1'-O4'-C4'	-6.25	104.90	109.90
35	BB	995	C	C4'-C3'-C2'	6.25	108.85	102.60
36	BC	158	U	P-O3'-C3'	-6.25	112.20	119.70
39	BF	51	C	C2-N3-C4	-6.25	116.78	119.90
40	BG	122	G	C6-N1-C2	-6.25	121.35	125.10
85	AA	48	G	C5'-C4'-C3'	-6.25	106.00	116.00
85	AA	112	A	O5'-C5'-C4'	6.25	123.58	111.70
85	AA	600	C	P-O3'-C3'	6.25	127.20	119.70
85	AA	1234	G	P-O5'-C5'	6.25	130.90	120.90
85	AA	1467	U	C2-N3-C4	-6.25	123.25	127.00
85	AA	2199	G	P-O3'-C3'	6.25	127.20	119.70
7	A6	52	ARG	NE-CZ-NH1	6.25	123.42	120.30
34	BA	450	G	N1-C6-O6	6.25	123.65	119.90
34	BA	861	C	N1-C1'-C2'	-6.25	105.13	112.00
34	BA	1247	G	C5'-C4'-O4'	6.25	116.60	109.10
34	BA	1609	U	C6-N1-C1'	6.25	129.95	121.20
34	BA	1807	G	C3'-C2'-C1'	-6.25	96.50	101.50
35	BB	398	A	P-O3'-C3'	6.25	127.20	119.70
35	BB	642	G	C5-C6-O6	6.25	132.35	128.60
35	BB	1208	G	C6-C5-N7	-6.25	126.65	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1209	A	C5-C6-N6	-6.25	118.70	123.70
35	BB	1517	G	C5-N7-C8	-6.25	101.18	104.30
37	BD	63	C	P-O5'-C5'	-6.25	110.90	120.90
37	BD	91	U	C5'-C4'-C3'	-6.25	106.00	116.00
38	BE	204	U	C5'-C4'-C3'	-6.25	106.00	116.00
85	AA	809	A	O5'-C5'-C4'	-6.25	99.83	111.70
85	AA	899	A	N9-C1'-C2'	-6.25	105.13	112.00
85	AA	1858	G	C8-N9-C1'	6.25	135.12	127.00
85	AA	1985	C	O4'-C1'-N1	6.25	113.20	108.20
85	AA	2171	A	O4'-C1'-N9	6.25	113.20	108.20
34	BA	764	G	OP1-P-OP2	-6.25	110.23	119.60
34	BA	1189	A	O4'-C1'-N9	6.25	113.20	108.20
34	BA	1702	G	C4-N9-C1'	-6.25	118.38	126.50
35	BB	505	G	O5'-C5'-C4'	-6.25	99.83	111.70
35	BB	667	G	O5'-C5'-C4'	-6.25	99.83	111.70
35	BB	1434	G	N3-C2-N2	6.25	124.27	119.90
35	BB	1518	U	C5'-C4'-C3'	6.25	126.00	116.00
39	BF	64	U	OP1-P-OP2	-6.25	110.23	119.60
49	BP	120	ARG	NE-CZ-NH1	6.25	123.42	120.30
85	AA	1661	U	O4'-C1'-N1	6.25	113.20	108.20
34	BA	604	G	OP1-P-OP2	-6.25	110.23	119.60
35	BB	512	C	O4'-C1'-N1	6.25	113.20	108.20
38	BE	202	C	C5'-C4'-C3'	6.25	125.99	116.00
39	BF	47	C	C5'-C4'-C3'	-6.25	106.01	116.00
40	BG	108	G	C5'-C4'-C3'	-6.25	106.01	116.00
41	BH	11	C	P-O3'-C3'	6.25	127.19	119.70
41	BH	12	U	C5-C6-N1	-6.25	119.58	122.70
41	BH	110	C	C5'-C4'-O4'	6.25	116.59	109.10
85	AA	90	A	C5'-C4'-O4'	6.25	116.59	109.10
85	AA	161	A	C5-C6-N1	-6.25	114.58	117.70
85	AA	889	G	N1-C2-N2	6.25	121.82	116.20
34	BA	69	C	C5-C4-N4	6.24	124.57	120.20
34	BA	480	G	N9-C4-C5	-6.24	102.90	105.40
34	BA	620	C	C6-N1-C2	-6.24	117.80	120.30
34	BA	1037	C	P-O5'-C5'	-6.24	110.91	120.90
34	BA	1253	G	O3'-P-O5'	-6.24	92.14	104.00
35	BB	318	C	O4'-C1'-N1	6.24	113.19	108.20
35	BB	667	G	C3'-C2'-C1'	-6.24	96.50	101.50
36	BC	122	A	C1'-O4'-C4'	-6.24	104.91	109.90
37	BD	93	G	N9-C1'-C2'	-6.24	105.13	112.00
41	BH	63	G	C5'-C4'-O4'	6.24	116.59	109.10
42	BI	58	ASN	CA-CB-CG	-6.24	99.66	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	BP	114	ARG	NE-CZ-NH1	6.24	123.42	120.30
71	Bl	42	GLY	N-CA-C	-6.24	97.49	113.10
85	AA	61	C	C2-N1-C1'	-6.24	111.93	118.80
85	AA	71	G	O3'-P-O5'	-6.24	92.14	104.00
85	AA	273	C	C3'-C2'-C1'	-6.24	96.50	101.50
85	AA	442	G	C6-N1-C2	-6.24	121.35	125.10
85	AA	689	U	C5'-C4'-C3'	-6.24	106.01	116.00
85	AA	2236	U	C2-N3-C4	-6.24	123.25	127.00
34	BA	1108	U	C5'-C4'-C3'	-6.24	106.01	116.00
34	BA	1226	G	C5-C6-O6	-6.24	124.86	128.60
34	BA	1748	G	N1-C6-O6	6.24	123.64	119.90
35	BB	764	C	C6-N1-C1'	6.24	128.29	120.80
35	BB	1396	G	C3'-C2'-C1'	-6.24	96.51	101.50
35	BB	1491	G	P-O5'-C5'	-6.24	110.91	120.90
36	BC	76	C	P-O3'-C3'	-6.24	112.21	119.70
85	AA	367	A	C5-C6-N6	6.24	128.69	123.70
85	AA	1138	U	P-O3'-C3'	-6.24	112.21	119.70
85	AA	1287	C	N1-C2-N3	6.24	123.57	119.20
85	AA	1456	A	N1-C6-N6	6.24	122.34	118.60
85	AA	1572	C	P-O3'-C3'	-6.24	112.21	119.70
34	BA	22	C	O4'-C1'-N1	6.24	113.19	108.20
34	BA	43	U	P-O3'-C3'	6.24	127.19	119.70
34	BA	116	G	O4'-C1'-N9	6.24	113.19	108.20
34	BA	428	C	O4'-C1'-N1	6.24	113.19	108.20
37	BD	74	A	P-O3'-C3'	-6.24	112.21	119.70
38	BE	12	A	P-O3'-C3'	-6.24	112.21	119.70
40	BG	40	G	C4'-C3'-C2'	-6.24	96.36	102.60
85	AA	553	G	N7-C8-N9	6.24	116.22	113.10
85	AA	682	C	N1-C1'-C2'	-6.24	105.14	112.00
85	AA	1515	A	O5'-C5'-C4'	-6.24	99.84	111.70
85	AA	1679	U	C2-N3-C4	-6.24	123.26	127.00
85	AA	1699	A	O5'-C5'-C4'	-6.24	99.84	111.70
85	AA	1926	A	P-O3'-C3'	6.24	127.19	119.70
8	A7	148	ARG	NE-CZ-NH1	6.24	123.42	120.30
34	BA	131	A	C2'-C3'-O3'	6.24	123.68	113.70
34	BA	218	G	C8-N9-C4	6.24	108.90	106.40
34	BA	807	U	C2-N1-C1'	-6.24	110.21	117.70
34	BA	856	G	N9-C1'-C2'	-6.24	105.14	112.00
34	BA	862	C	O3'-P-O5'	-6.24	92.14	104.00
34	BA	1488	C	P-O5'-C5'	-6.24	110.92	120.90
34	BA	1513	G	C5-C6-N1	6.24	114.62	111.50
34	BA	1572	G	P-O3'-C3'	6.24	127.19	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	5	U	C6-N1-C1'	-6.24	112.47	121.20
41	BH	55	C	C6-N1-C2	-6.24	117.81	120.30
41	BH	132	C	O4'-C1'-N1	6.24	113.19	108.20
85	AA	96	C	P-O5'-C5'	6.24	130.88	120.90
85	AA	497	G	C5'-C4'-C3'	-6.24	106.02	116.00
85	AA	1934	A	C5'-C4'-C3'	-6.24	106.02	116.00
34	BA	1259	C	C1'-O4'-C4'	-6.24	104.91	109.90
34	BA	1295	U	C2-N3-C4	-6.24	123.26	127.00
34	BA	1521	C	C1'-O4'-C4'	-6.24	104.91	109.90
35	BB	375	G	C1'-O4'-C4'	-6.24	104.91	109.90
35	BB	651	G	N7-C8-N9	6.24	116.22	113.10
54	BU	81	ARG	NE-CZ-NH1	6.24	123.42	120.30
85	AA	570	U	N3-C2-O2	-6.24	117.83	122.20
7	A6	108	LEU	N-CA-CB	-6.24	97.93	110.40
34	BA	967	C	C6-N1-C1'	6.24	128.28	120.80
34	BA	1716	A	O5'-C5'-C4'	6.24	123.55	111.70
35	BB	131	A	C4-N9-C1'	-6.24	115.08	126.30
35	BB	429	C	C2-N3-C4	-6.24	116.78	119.90
35	BB	604	C	O4'-C1'-N1	6.24	113.19	108.20
35	BB	888	U	C4'-C3'-C2'	-6.24	96.36	102.60
35	BB	1063	C	C2-N3-C4	-6.24	116.78	119.90
35	BB	1388	A	C1'-O4'-C4'	-6.24	104.91	109.90
38	BE	21	C	P-O3'-C3'	6.24	127.18	119.70
85	AA	424	A	C8-N9-C4	-6.24	103.31	105.80
85	AA	1368	G	C2-N3-C4	-6.24	108.78	111.90
34	BA	26	C	C5-C4-N4	-6.23	115.84	120.20
34	BA	824	C	C3'-C2'-C1'	-6.23	96.51	101.50
34	BA	957	A	C5'-C4'-C3'	-6.23	106.03	116.00
34	BA	1006	G	O5'-C5'-C4'	-6.23	99.86	111.70
34	BA	1549	U	N1-C2-O2	6.23	127.16	122.80
35	BB	427	U	C3'-C2'-C1'	-6.23	96.51	101.50
35	BB	1190	U	N3-C2-O2	-6.23	117.84	122.20
41	BH	23	G	N9-C1'-C2'	6.23	122.11	114.00
85	AA	147	G	O4'-C1'-N9	6.23	113.19	108.20
2	A1	32	PRO	N-CA-C	6.23	128.30	112.10
34	BA	8	G	N3-C2-N2	6.23	124.26	119.90
34	BA	759	A	C8-N9-C4	6.23	108.29	105.80
34	BA	1592	U	C1'-O4'-C4'	-6.23	104.91	109.90
35	BB	448	G	C8-N9-C1'	6.23	135.10	127.00
35	BB	1012	G	C5-C6-O6	-6.23	124.86	128.60
35	BB	1185	G	C4-N9-C1'	-6.23	118.40	126.50
38	BE	16	C	C5'-C4'-O4'	6.23	116.58	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	95	C	N3-C4-N4	6.23	122.36	118.00
45	BL	150	ARG	NE-CZ-NH1	6.23	123.42	120.30
49	BP	14	ARG	NE-CZ-NH1	6.23	123.42	120.30
85	AA	282	C	C5'-C4'-O4'	6.23	116.58	109.10
85	AA	1807	A	O4'-C1'-N9	6.23	113.19	108.20
85	AA	2047	U	C6-N1-C2	-6.23	117.26	121.00
34	BA	49	A	C4-N9-C1'	-6.23	115.09	126.30
34	BA	449	G	C5-C6-N1	6.23	114.61	111.50
34	BA	609	G	P-O3'-C3'	-6.23	112.22	119.70
34	BA	1049	G	O3'-P-O5'	6.23	115.84	104.00
34	BA	1137	U	C2'-C3'-O3'	6.23	123.67	113.70
34	BA	1144	A	C8-N9-C4	-6.23	103.31	105.80
34	BA	1152	A	C8-N9-C4	6.23	108.29	105.80
35	BB	433	C	C4'-C3'-C2'	6.23	108.83	102.60
35	BB	566	A	C4'-C3'-C2'	-6.23	96.37	102.60
35	BB	984	U	O4'-C1'-N1	6.23	113.18	108.20
35	BB	1031	G	C5-C6-O6	-6.23	124.86	128.60
35	BB	1195	A	C5'-C4'-C3'	-6.23	106.03	116.00
38	BE	141	A	C5-C6-N6	-6.23	118.72	123.70
41	BH	19	G	O4'-C1'-N9	6.23	113.18	108.20
54	BU	57	TYR	CB-CG-CD1	-6.23	117.26	121.00
85	AA	256	A	C8-N9-C4	6.23	108.29	105.80
85	AA	312	G	N3-C2-N2	6.23	124.26	119.90
85	AA	970	U	O5'-C5'-C4'	-6.23	99.86	111.70
85	AA	1181	U	P-O3'-C3'	-6.23	112.22	119.70
85	AA	1353	U	C5'-C4'-O4'	6.23	116.58	109.10
85	AA	1822	G	C1'-O4'-C4'	-6.23	104.92	109.90
85	AA	2143	U	C1'-O4'-C4'	-6.23	104.92	109.90
35	BB	1103	A	C3'-C2'-C1'	-6.23	96.52	101.50
37	BD	105	G	C1'-O4'-C4'	-6.23	104.92	109.90
52	BS	162	ARG	NE-CZ-NH1	6.23	123.41	120.30
85	AA	342	C	C1'-O4'-C4'	-6.23	104.92	109.90
14	AF	116	ARG	NE-CZ-NH1	6.23	123.41	120.30
31	AX	119	MET	N-CA-CB	-6.23	99.39	110.60
34	BA	988	U	C5'-C4'-C3'	-6.23	106.03	116.00
34	BA	1502	G	O4'-C4'-C3'	-6.23	97.77	104.00
34	BA	1791	C	O4'-C1'-N1	6.23	113.18	108.20
35	BB	36	U	C4'-C3'-C2'	-6.23	96.37	102.60
35	BB	90	G	N7-C8-N9	-6.23	109.99	113.10
35	BB	384	A	OP1-P-OP2	-6.23	110.26	119.60
35	BB	802	G	N1-C2-N2	-6.23	110.59	116.20
35	BB	837	A	C4-N9-C1'	-6.23	115.09	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1187	G	C4-C5-N7	-6.23	108.31	110.80
36	BC	9	G	O3'-P-O5'	-6.23	92.17	104.00
38	BE	59	U	C5-C6-N1	-6.23	119.59	122.70
38	BE	140	G	P-O5'-C5'	-6.23	110.94	120.90
39	BF	70	A	C3'-C2'-C1'	-6.23	96.52	101.50
40	BG	19	C	N3-C2-O2	-6.23	117.54	121.90
41	BH	67	G	N1-C6-O6	-6.23	116.16	119.90
77	Br	226	ASP	CA-CB-CG	-6.23	99.70	113.40
85	AA	843	U	O4'-C1'-N1	6.23	113.18	108.20
85	AA	975	G	N3-C4-C5	-6.23	125.49	128.60
85	AA	1315	C	O4'-C1'-N1	6.23	113.18	108.20
34	BA	516	U	N1-C2-O2	6.23	127.16	122.80
34	BA	610	A	P-O5'-C5'	-6.23	110.94	120.90
34	BA	861	C	N3-C2-O2	-6.23	117.54	121.90
34	BA	932	G	N9-C1'-C2'	-6.23	105.15	112.00
34	BA	1048	C	N1-C1'-C2'	-6.23	105.15	112.00
34	BA	1724	G	N3-C4-N9	-6.23	122.27	126.00
35	BB	582	G	N9-C1'-C2'	-6.23	105.15	112.00
35	BB	839	G	O5'-C5'-C4'	6.23	123.53	111.70
85	AA	389	A	N9-C1'-C2'	-6.23	105.15	112.00
85	AA	1268	C	N3-C2-O2	-6.23	117.54	121.90
85	AA	1848	G	C5-C6-O6	-6.23	124.86	128.60
34	BA	795	G	C3'-C2'-C1'	-6.22	96.52	101.50
34	BA	1847	G	P-O5'-C5'	-6.22	110.94	120.90
35	BB	881	G	C5-C6-O6	-6.22	124.86	128.60
37	BD	50	A	N9-C1'-C2'	-6.22	105.15	112.00
39	BF	4	A	O5'-P-OP1	-6.22	100.10	105.70
40	BG	46	G	C6-N1-C2	-6.22	121.37	125.10
40	BG	89	A	P-O3'-C3'	-6.22	112.23	119.70
41	BH	17	A	C5'-C4'-C3'	-6.22	106.04	116.00
78	Bs	30	ARG	N-CA-CB	-6.22	99.39	110.60
85	AA	422	G	O5'-C5'-C4'	-6.22	99.87	111.70
85	AA	1184	A	N1-C2-N3	6.22	132.41	129.30
85	AA	2032	G	O4'-C1'-N9	6.22	113.18	108.20
85	AA	2055	G	N1-C6-O6	6.22	123.64	119.90
4	A3	60	GLU	N-CA-CB	6.22	121.80	110.60
34	BA	125	G	C6-N1-C2	-6.22	121.37	125.10
34	BA	389	U	N3-C2-O2	-6.22	117.84	122.20
34	BA	417	A	O3'-P-O5'	-6.22	92.18	104.00
34	BA	484	A	C4-N9-C1'	-6.22	115.10	126.30
34	BA	1211	G	C3'-C2'-C1'	6.22	106.48	101.50
34	BA	1555	G	O4'-C1'-N9	6.22	113.18	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1566	G	C8-N9-C1'	6.22	135.09	127.00
35	BB	440	U	N3-C2-O2	-6.22	117.84	122.20
35	BB	1252	G	C2-N3-C4	-6.22	108.79	111.90
35	BB	1415	G	N1-C6-O6	-6.22	116.17	119.90
36	BC	88	A	C4'-C3'-C2'	-6.22	96.38	102.60
38	BE	203	C	C5'-C4'-O4'	-6.22	101.63	109.10
68	Bi	114	HIS	CA-CB-CG	6.22	124.18	113.60
83	Bx	162	ARG	NE-CZ-NH1	6.22	123.41	120.30
85	AA	514	U	C5-C4-O4	-6.22	122.17	125.90
85	AA	605	A	OP1-P-OP2	-6.22	110.27	119.60
34	BA	582	U	C5-C6-N1	-6.22	119.59	122.70
34	BA	747	G	C5-C6-N1	6.22	114.61	111.50
35	BB	483	C	C6-N1-C2	6.22	122.79	120.30
35	BB	779	C	O4'-C1'-C2'	6.22	113.20	107.60
36	BC	148	C	O4'-C1'-N1	6.22	113.18	108.20
39	BF	32	G	C2-N3-C4	-6.22	108.79	111.90
40	BG	180	C	O4'-C4'-C3'	6.22	111.08	106.10
34	BA	102	G	O4'-C4'-C3'	-6.22	97.78	104.00
34	BA	308	C	N3-C2-O2	-6.22	117.55	121.90
34	BA	571	G	O4'-C1'-N9	6.22	113.18	108.20
34	BA	1270	G	N9-C1'-C2'	-6.22	105.16	112.00
34	BA	1496	G	P-O3'-C3'	6.22	127.16	119.70
34	BA	1565	U	C4'-C3'-C2'	6.22	108.82	102.60
34	BA	1641	G	P-O3'-C3'	-6.22	112.24	119.70
35	BB	1205	A	C6-C5-N7	-6.22	127.95	132.30
37	BD	75	G	O4'-C1'-N9	6.22	113.18	108.20
41	BH	104	U	N1-C1'-C2'	-6.22	105.16	112.00
70	Bk	71	ARG	NE-CZ-NH2	-6.22	117.19	120.30
85	AA	442	G	P-O3'-C3'	6.22	127.16	119.70
85	AA	469	G	C5-C6-O6	6.22	132.33	128.60
85	AA	1194	U	C2-N3-C4	-6.22	123.27	127.00
85	AA	1591	U	C5'-C4'-C3'	6.22	125.95	116.00
5	A4	4	GLN	N-CA-CB	6.22	121.79	110.60
34	BA	683	C	O4'-C1'-N1	6.22	113.17	108.20
35	BB	1354	C	P-O5'-C5'	-6.22	110.95	120.90
38	BE	193	A	C8-N9-C4	-6.22	103.31	105.80
85	AA	27	U	C5'-C4'-C3'	6.22	125.95	116.00
85	AA	349	C	C2-N1-C1'	-6.22	111.96	118.80
85	AA	1182	A	C5'-C4'-C3'	-6.22	106.05	116.00
85	AA	1279	A	C4'-C3'-C2'	-6.22	96.38	102.60
85	AA	1571	A	C3'-C2'-C1'	-6.22	96.53	101.50
8	A7	251	TRP	N-CA-C	-6.22	94.21	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	91	C	O4'-C1'-C2'	-6.22	99.58	105.80
34	BA	477	C	N3-C2-O2	-6.22	117.55	121.90
34	BA	554	A	OP2-P-O3'	6.22	118.88	105.20
34	BA	679	U	C6-N1-C1'	6.22	129.90	121.20
34	BA	987	C	C6-N1-C2	-6.22	117.81	120.30
34	BA	1709	A	O4'-C1'-C2'	6.22	113.19	107.60
35	BB	605	C	C2'-C3'-O3'	6.22	123.65	113.70
38	BE	65	U	C5'-C4'-C3'	-6.22	106.06	116.00
49	BP	98	ALA	CB-CA-C	6.22	119.43	110.10
67	Bh	142	GLY	N-CA-C	-6.22	97.56	113.10
85	AA	812	C	N1-C1'-C2'	-6.22	105.16	112.00
85	AA	844	C	C5-C6-N1	6.22	124.11	121.00
85	AA	1983	C	O3'-P-O5'	-6.22	92.19	104.00
34	BA	78	U	N3-C2-O2	-6.21	117.85	122.20
34	BA	120	A	C4'-C3'-C2'	-6.21	96.39	102.60
34	BA	1048	C	C2-N1-C1'	-6.21	111.96	118.80
34	BA	1144	A	P-O3'-C3'	-6.21	112.24	119.70
34	BA	1183	U	O4'-C1'-N1	6.21	113.17	108.20
34	BA	1591	G	C4'-C3'-C2'	6.21	108.81	102.60
35	BB	47	C	O4'-C1'-N1	6.21	113.17	108.20
35	BB	1205	A	N9-C4-C5	-6.21	103.31	105.80
85	AA	967	C	C2-N1-C1'	-6.21	111.97	118.80
85	AA	1277	C	C4'-C3'-C2'	-6.21	96.39	102.60
85	AA	1934	A	C6-N1-C2	-6.21	114.87	118.60
85	AA	2196	G	N1-C6-O6	-6.21	116.17	119.90
34	BA	189	G	C3'-C2'-C1'	-6.21	96.53	101.50
34	BA	927	A	O4'-C1'-C2'	6.21	113.19	107.60
35	BB	356	C	P-O5'-C5'	6.21	130.84	120.90
37	BD	16	U	C1'-O4'-C4'	-6.21	104.93	109.90
85	AA	439	U	C2-N3-C4	-6.21	123.27	127.00
85	AA	2146	G	C6-N1-C2	-6.21	121.37	125.10
86	AB	62	C	C1'-O4'-C4'	-6.21	104.93	109.90
6	A5	191	ARG	NE-CZ-NH2	-6.21	117.19	120.30
24	AQ	77	TYR	CB-CG-CD1	-6.21	117.27	121.00
34	BA	270	U	C6-N1-C1'	-6.21	112.50	121.20
34	BA	808	U	C5'-C4'-O4'	6.21	116.55	109.10
36	BC	52	A	P-O5'-C5'	-6.21	110.96	120.90
37	BD	49	A	N7-C8-N9	6.21	116.91	113.80
38	BE	79	G	N1-C6-O6	6.21	123.63	119.90
38	BE	188	C	O4'-C1'-C2'	-6.21	99.59	105.80
39	BF	52	A	C5'-C4'-O4'	6.21	116.55	109.10
40	BG	44	G	N9-C1'-C2'	-6.21	105.17	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	BZ	63	ARG	NE-CZ-NH2	-6.21	117.19	120.30
69	Bj	3	CYS	C-N-CD	-6.21	106.93	120.60
73	Bn	41	ARG	NE-CZ-NH1	6.21	123.41	120.30
85	AA	271	A	C5-C6-N6	-6.21	118.73	123.70
85	AA	313	A	N1-C6-N6	-6.21	114.87	118.60
85	AA	505	U	P-O5'-C5'	-6.21	110.96	120.90
85	AA	717	G	C8-N9-C1'	6.21	135.08	127.00
85	AA	1006	C	C2-N3-C4	-6.21	116.79	119.90
85	AA	1074	U	C1'-O4'-C4'	-6.21	104.93	109.90
85	AA	1660	U	N1-C1'-C2'	-6.21	105.17	112.00
85	AA	1690	A	P-O5'-C5'	-6.21	110.96	120.90
85	AA	2103	C	P-O5'-C5'	-6.21	110.96	120.90
34	BA	270	U	P-O3'-C3'	6.21	127.15	119.70
34	BA	765	U	C6-N1-C1'	-6.21	112.51	121.20
34	BA	1824	U	O5'-C5'-C4'	6.21	123.50	111.70
35	BB	750	G	C8-N9-C1'	6.21	135.07	127.00
35	BB	1118	G	C5'-C4'-C3'	-6.21	106.06	116.00
35	BB	1433	U	C2'-C3'-O3'	6.21	123.64	113.70
37	BD	16	U	C3'-C2'-C1'	-6.21	96.53	101.50
65	Bf	145	GLN	N-CA-CB	6.21	121.78	110.60
85	AA	704	A	C8-N9-C4	6.21	108.28	105.80
34	BA	169	C	O4'-C1'-N1	6.21	113.17	108.20
34	BA	959	G	O5'-P-OP2	-6.21	100.11	105.70
34	BA	1149	C	N1-C2-O2	6.21	122.63	118.90
34	BA	1519	G	C4'-C3'-C2'	-6.21	96.39	102.60
34	BA	1711	G	O5'-P-OP2	-6.21	100.11	105.70
35	BB	694	C	C2-N3-C4	6.21	123.00	119.90
35	BB	1018	U	C4-C5-C6	-6.21	115.97	119.70
39	BF	5	U	O4'-C1'-N1	6.21	113.17	108.20
41	BH	51	C	C2-N1-C1'	-6.21	111.97	118.80
85	AA	769	C	N1-C2-N3	6.21	123.55	119.20
34	BA	1241	U	O5'-P-OP1	-6.21	100.11	105.70
35	BB	567	G	C5-C6-N1	6.21	114.60	111.50
35	BB	1304	U	C6-N1-C1'	-6.21	112.51	121.20
36	BC	8	C	C2-N3-C4	6.21	123.00	119.90
39	BF	11	C	C6-N1-C1'	-6.21	113.35	120.80
39	BF	14	C	C5-C4-N4	-6.21	115.86	120.20
40	BG	68	U	C2-N3-C4	-6.21	123.28	127.00
40	BG	139	U	C6-N1-C1'	6.21	129.89	121.20
41	BH	48	G	P-O5'-C5'	-6.21	110.97	120.90
59	BZ	60	PHE	CB-CA-C	-6.21	97.99	110.40
85	AA	376	C	N3-C2-O2	-6.21	117.56	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2122	A	N9-C4-C5	6.21	108.28	105.80
85	AA	2199	G	N3-C2-N2	6.21	124.25	119.90
34	BA	587	U	C5-C4-O4	-6.21	122.18	125.90
35	BB	268	G	N1-C6-O6	6.21	123.62	119.90
38	BE	100	U	C1'-O4'-C4'	-6.21	104.94	109.90
41	BH	33	G	O4'-C1'-N9	6.21	113.16	108.20
85	AA	1617	G	C5-C6-O6	-6.21	124.88	128.60
85	AA	1700	C	C6-N1-C1'	6.21	128.25	120.80
34	BA	1702	G	C8-N9-C1'	6.20	135.06	127.00
35	BB	490	G	C5-C6-N1	6.20	114.60	111.50
35	BB	1250	A	C5-C6-N6	6.20	128.66	123.70
35	BB	1369	A	C5'-C4'-C3'	6.20	125.92	116.00
35	BB	1410	G	C5'-C4'-O4'	6.20	116.55	109.10
58	BY	5	ASP	N-CA-C	-6.20	94.25	111.00
85	AA	448	G	C4-N9-C1'	-6.20	118.44	126.50
85	AA	598	C	C5'-C4'-O4'	6.20	116.54	109.10
34	BA	291	C	C3'-C2'-C1'	-6.20	96.54	101.50
34	BA	306	G	C3'-C2'-C1'	-6.20	96.54	101.50
34	BA	1619	U	C2-N1-C1'	-6.20	110.26	117.70
34	BA	1805	C	P-O5'-C5'	6.20	130.82	120.90
37	BD	76	U	O4'-C1'-N1	6.20	113.16	108.20
38	BE	85	G	C2-N3-C4	6.20	115.00	111.90
68	Bi	45	ARG	NE-CZ-NH1	6.20	123.40	120.30
85	AA	1455	C	O4'-C4'-C3'	-6.20	97.80	104.00
85	AA	2074	G	C2'-C3'-O3'	6.20	123.62	113.70
34	BA	249	A	P-O3'-C3'	-6.20	112.26	119.70
34	BA	1498	A	C2'-C3'-O3'	6.20	123.62	113.70
36	BC	139	A	C1'-O4'-C4'	-6.20	104.94	109.90
37	BD	78	C	C6-N1-C1'	6.20	128.24	120.80
37	BD	92	G	N3-C4-C5	-6.20	125.50	128.60
39	BF	21	C	O3'-P-O5'	-6.20	92.22	104.00
39	BF	46	G	P-O3'-C3'	-6.20	112.26	119.70
67	Bh	34	ASP	CB-CA-C	6.20	122.80	110.40
77	Br	196	ARG	NE-CZ-NH2	6.20	123.40	120.30
85	AA	488	G	C8-N9-C4	-6.20	103.92	106.40
85	AA	924	A	C3'-C2'-C1'	-6.20	96.54	101.50
85	AA	1291	A	N1-C6-N6	-6.20	114.88	118.60
85	AA	1896	G	C6-C5-N7	-6.20	126.68	130.40
85	AA	2088	U	O4'-C1'-N1	6.20	113.16	108.20
34	BA	615	A	C1'-O4'-C4'	-6.20	104.94	109.90
34	BA	1242	A	C5'-C4'-C3'	-6.20	106.08	116.00
35	BB	34	G	C5-C6-N1	6.20	114.60	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	39	C	C5'-C4'-C3'	-6.20	106.08	116.00
35	BB	1057	G	O4'-C1'-N9	6.20	113.16	108.20
85	AA	1488	G	C4'-C3'-C2'	-6.20	96.40	102.60
85	AA	1644	G	C4-C5-C6	6.20	122.52	118.80
85	AA	2021	A	C5'-C4'-C3'	-6.20	106.08	116.00
16	AH	34	PHE	CB-CG-CD1	6.20	125.14	120.80
34	BA	629	G	N9-C4-C5	6.20	107.88	105.40
34	BA	963	G	O4'-C1'-N9	6.20	113.16	108.20
34	BA	1054	U	P-O5'-C5'	-6.20	110.98	120.90
35	BB	1416	A	P-O3'-C3'	-6.20	112.26	119.70
41	BH	100	A	C4-C5-N7	6.20	113.80	110.70
85	AA	116	G	C5-C6-O6	-6.20	124.88	128.60
85	AA	391	G	C5-C6-O6	6.20	132.32	128.60
15	AG	19	ARG	NE-CZ-NH1	6.20	123.40	120.30
34	BA	23	A	C5'-C4'-O4'	6.20	116.53	109.10
34	BA	954	U	N3-C2-O2	-6.20	117.86	122.20
34	BA	1197	U	C2-N3-C4	-6.20	123.28	127.00
35	BB	374	A	C8-N9-C4	6.20	108.28	105.80
35	BB	1191	G	C8-N9-C1'	6.20	135.05	127.00
36	BC	121	G	C3'-C2'-C1'	-6.20	96.54	101.50
39	BF	35	C	N3-C4-N4	6.20	122.34	118.00
85	AA	1371	C	N3-C2-O2	-6.20	117.56	121.90
85	AA	1615	A	C5'-C4'-C3'	-6.20	106.09	116.00
10	A9	118	ARG	NE-CZ-NH1	6.19	123.40	120.30
34	BA	186	G	N1-C6-O6	-6.19	116.18	119.90
39	BF	13	U	O4'-C4'-C3'	-6.19	97.81	104.00
39	BF	47	C	P-O3'-C3'	-6.19	112.27	119.70
45	BL	148	ARG	NE-CZ-NH1	6.19	123.40	120.30
85	AA	1291	A	O3'-P-O5'	-6.19	92.23	104.00
85	AA	1405	U	O4'-C1'-N1	6.19	113.16	108.20
2	A1	215	PHE	CB-CG-CD2	-6.19	116.47	120.80
34	BA	185	A	O5'-C5'-C4'	-6.19	99.94	111.70
34	BA	390	A	C5'-C4'-C3'	6.19	125.91	116.00
34	BA	1672	C	P-O5'-C5'	6.19	130.81	120.90
34	BA	1806	A	C8-N9-C4	6.19	108.28	105.80
35	BB	567	G	P-O5'-C5'	-6.19	110.99	120.90
40	BG	58	G	N1-C6-O6	6.19	123.61	119.90
55	BV	73	ARG	NE-CZ-NH2	-6.19	117.20	120.30
85	AA	116	G	C4-N9-C1'	-6.19	118.45	126.50
85	AA	769	C	N3-C4-C5	-6.19	119.42	121.90
34	BA	360	C	O4'-C1'-C2'	-6.19	99.61	105.80
34	BA	691	A	C4'-C3'-C2'	6.19	108.79	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	715	U	C4'-C3'-C2'	6.19	108.79	102.60
34	BA	863	G	N3-C4-C5	-6.19	125.50	128.60
34	BA	1019	C	C1'-O4'-C4'	-6.19	104.95	109.90
34	BA	1297	G	C3'-C2'-C1'	6.19	106.45	101.50
34	BA	1343	A	C5'-C4'-O4'	6.19	116.53	109.10
34	BA	1709	A	N1-C2-N3	-6.19	126.20	129.30
35	BB	866	A	N1-C6-N6	6.19	122.31	118.60
35	BB	1020	U	C6-N1-C2	-6.19	117.29	121.00
35	BB	1321	G	C5'-C4'-C3'	-6.19	106.09	116.00
42	BI	66	ARG	NE-CZ-NH1	6.19	123.39	120.30
53	BT	19	ARG	NE-CZ-NH1	6.19	123.39	120.30
85	AA	771	A	O5'-C5'-C4'	-6.19	99.94	111.70
85	AA	878	U	O5'-C5'-C4'	-6.19	99.94	111.70
85	AA	1436	A	C5'-C4'-C3'	6.19	125.91	116.00
85	AA	1576	G	O4'-C1'-N9	6.19	113.15	108.20
85	AA	1992	A	C2-N3-C4	-6.19	107.50	110.60
85	AA	2095	U	C6-N1-C1'	6.19	129.87	121.20
86	AB	5	G	C4-N9-C1'	-6.19	118.45	126.50
34	BA	1191	C	N3-C2-O2	-6.19	117.57	121.90
34	BA	1281	U	C6-N1-C2	-6.19	117.29	121.00
34	BA	1720	U	N1-C2-O2	6.19	127.13	122.80
39	BF	29	U	C3'-C2'-C1'	-6.19	96.55	101.50
41	BH	13	C	C1'-O4'-C4'	-6.19	104.95	109.90
53	BT	75	HIS	N-CA-CB	6.19	121.74	110.60
71	Bl	96	SER	C-N-CA	6.19	137.17	121.70
85	AA	1855	U	C2-N1-C1'	-6.19	110.27	117.70
34	BA	61	G	C3'-C2'-C1'	-6.19	96.55	101.50
34	BA	377	G	N1-C2-N2	-6.19	110.63	116.20
34	BA	577	U	O5'-P-OP2	6.19	118.13	110.70
34	BA	595	U	O4'-C1'-N1	6.19	113.15	108.20
34	BA	753	G	N3-C2-N2	6.19	124.23	119.90
34	BA	1711	G	P-O5'-C5'	-6.19	111.00	120.90
35	BB	292	U	O4'-C1'-N1	6.19	113.15	108.20
35	BB	476	A	O4'-C1'-N9	6.19	113.15	108.20
35	BB	1246	C	O4'-C1'-N1	6.19	113.15	108.20
35	BB	1540	U	P-O5'-C5'	-6.19	111.00	120.90
36	BC	63	G	C5'-C4'-O4'	6.19	116.53	109.10
36	BC	115	G	C3'-C2'-C1'	-6.19	96.55	101.50
38	BE	137	A	C8-N9-C1'	6.19	138.84	127.70
85	AA	205	A	O4'-C1'-N9	6.19	113.15	108.20
85	AA	1410	C	O4'-C1'-N1	6.19	113.15	108.20
85	AA	1483	A	N1-C6-N6	-6.19	114.89	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	237	A	N7-C8-N9	-6.19	110.71	113.80
34	BA	488	C	OP1-P-OP2	-6.19	110.32	119.60
34	BA	772	G	C5'-C4'-O4'	6.19	116.52	109.10
34	BA	1271	C	O4'-C1'-N1	6.19	113.15	108.20
34	BA	1297	G	P-O3'-C3'	6.19	127.12	119.70
85	AA	1492	U	C1'-O4'-C4'	-6.19	104.95	109.90
13	AE	104	ARG	NE-CZ-NH1	-6.18	117.21	120.30
34	BA	1201	G	OP2-P-O3'	6.18	118.81	105.20
34	BA	1513	G	P-O3'-C3'	-6.18	112.28	119.70
35	BB	584	A	P-O3'-C3'	-6.18	112.28	119.70
35	BB	637	G	N9-C4-C5	6.18	107.87	105.40
35	BB	1408	G	O4'-C1'-N9	6.18	113.15	108.20
35	BB	1438	U	C3'-C2'-C1'	-6.18	96.55	101.50
37	BD	94	C	C5'-C4'-C3'	-6.18	106.10	116.00
40	BG	23	C	N1-C1'-C2'	-6.18	105.20	112.00
40	BG	25	G	N9-C1'-C2'	-6.18	105.20	112.00
40	BG	161	C	P-O3'-C3'	6.18	127.12	119.70
85	AA	292	C	C3'-C2'-C1'	-6.18	96.55	101.50
85	AA	422	G	N3-C4-C5	-6.18	125.51	128.60
85	AA	923	A	C5'-C4'-O4'	6.18	116.52	109.10
85	AA	1209	U	C4'-C3'-C2'	6.18	108.78	102.60
85	AA	1274	A	P-O3'-C3'	-6.18	112.28	119.70
85	AA	1359	U	O4'-C1'-N1	6.18	113.15	108.20
2	A1	96	PHE	CB-CG-CD2	-6.18	116.47	120.80
34	BA	47	U	C6-N1-C1'	6.18	129.85	121.20
34	BA	218	G	N1-C6-O6	6.18	123.61	119.90
34	BA	1210	A	C5'-C4'-C3'	-6.18	106.11	116.00
34	BA	1419	A	C6-N1-C2	-6.18	114.89	118.60
34	BA	1425	G	C5-C6-O6	-6.18	124.89	128.60
34	BA	1627	U	P-O5'-C5'	6.18	130.79	120.90
35	BB	1035	C	P-O5'-C5'	-6.18	111.01	120.90
35	BB	1040	C	OP1-P-OP2	-6.18	110.33	119.60
35	BB	1107	C	C6-N1-C2	-6.18	117.83	120.30
38	BE	20	C	N1-C2-O2	6.18	122.61	118.90
65	Bf	449	GLU	N-CA-CB	6.18	121.73	110.60
85	AA	291	G	O4'-C1'-N9	6.18	113.15	108.20
85	AA	339	A	C1'-O4'-C4'	-6.18	104.95	109.90
85	AA	687	G	N9-C1'-C2'	-6.18	105.20	112.00
85	AA	822	U	P-O5'-C5'	6.18	130.79	120.90
85	AA	2042	G	O4'-C1'-C2'	6.18	113.16	107.60
86	AB	31	A	O4'-C1'-N9	6.18	113.15	108.20
34	BA	983	A	C8-N9-C4	6.18	108.27	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	717	A	C8-N9-C4	-6.18	103.33	105.80
40	BG	139	U	C2-N1-C1'	-6.18	110.28	117.70
77	Br	137	MET	CG-SD-CE	-6.18	90.31	100.20
85	AA	196	U	C5-C6-N1	-6.18	119.61	122.70
85	AA	1256	C	C1'-O4'-C4'	-6.18	104.96	109.90
34	BA	187	G	N3-C2-N2	6.18	124.23	119.90
35	BB	102	G	O5'-P-OP2	6.18	118.11	110.70
35	BB	119	G	C1'-O4'-C4'	-6.18	104.96	109.90
35	BB	329	U	C2-N1-C1'	6.18	125.11	117.70
35	BB	1183	U	O3'-P-O5'	6.18	115.74	104.00
85	AA	18	C	C5'-C4'-C3'	6.18	125.89	116.00
85	AA	210	G	O3'-P-O5'	-6.18	92.26	104.00
85	AA	271	A	O4'-C1'-N9	6.18	113.14	108.20
85	AA	722	G	O3'-P-O5'	-6.18	92.26	104.00
85	AA	995	G	O4'-C1'-N9	6.18	113.14	108.20
85	AA	1542	A	C4'-C3'-C2'	-6.18	96.42	102.60
85	AA	1794	U	C4'-C3'-C2'	-6.18	96.42	102.60
85	AA	1934	A	C8-N9-C4	-6.18	103.33	105.80
1	A0	213	ARG	CD-NE-CZ	-6.18	114.95	123.60
5	A4	163	ASP	CA-CB-CG	-6.18	99.81	113.40
34	BA	16	C	N1-C2-N3	6.18	123.53	119.20
34	BA	278	U	C5'-C4'-C3'	-6.18	106.12	116.00
34	BA	1514	A	C4-N9-C1'	-6.18	115.18	126.30
35	BB	144	G	C4-N9-C1'	-6.18	118.47	126.50
77	Br	210	MET	CG-SD-CE	-6.18	90.31	100.20
85	AA	1458	G	C2-N3-C4	6.18	114.99	111.90
85	AA	1698	A	C1'-O4'-C4'	-6.18	104.96	109.90
34	BA	964	U	N1-C2-O2	-6.18	118.48	122.80
34	BA	1052	G	O4'-C1'-C2'	6.18	113.16	107.60
34	BA	1754	C	O4'-C1'-N1	6.18	113.14	108.20
35	BB	1230	A	C8-N9-C1'	6.18	138.82	127.70
36	BC	147	G	N1-C2-N2	-6.18	110.64	116.20
38	BE	62	C	O4'-C1'-C2'	6.18	113.16	107.60
39	BF	65	U	O5'-C5'-C4'	-6.18	99.96	111.70
85	AA	588	G	C5'-C4'-C3'	-6.18	106.12	116.00
85	AA	1432	C	C6-N1-C2	-6.18	117.83	120.30
85	AA	1557	U	P-O5'-C5'	6.18	130.78	120.90
8	A7	264	ASP	CB-CG-OD1	6.17	123.86	118.30
34	BA	50	G	N7-C8-N9	-6.17	110.01	113.10
34	BA	764	G	P-O5'-C5'	6.17	130.78	120.90
34	BA	1221	A	C4-N9-C1'	-6.17	115.19	126.30
35	BB	84	G	O4'-C1'-N9	6.17	113.14	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	618	U	C2-N1-C1'	-6.17	110.29	117.70
35	BB	768	A	C8-N9-C1'	6.17	138.82	127.70
36	BC	154	A	N9-C1'-C2'	-6.17	105.21	112.00
38	BE	38	C	O4'-C1'-N1	6.17	113.14	108.20
38	BE	160	C	O4'-C1'-N1	6.17	113.14	108.20
57	BX	101	ASN	CB-CA-C	6.17	122.75	110.40
62	Bc	111	ARG	NE-CZ-NH1	6.17	123.39	120.30
85	AA	412	G	P-O5'-C5'	-6.17	111.02	120.90
85	AA	1142	G	C1'-O4'-C4'	-6.17	104.96	109.90
85	AA	2077	G	C8-N9-C1'	6.17	135.03	127.00
85	AA	2102	A	C4'-C3'-C2'	-6.17	96.43	102.60
85	AA	2211	G	O3'-P-O5'	6.17	115.73	104.00
34	BA	375	C	N3-C2-O2	-6.17	117.58	121.90
81	Bv	75	ARG	NE-CZ-NH1	6.17	123.39	120.30
85	AA	485	A	C5'-C4'-O4'	6.17	116.51	109.10
34	BA	14	G	C4-N9-C1'	-6.17	118.48	126.50
34	BA	160	G	C4-C5-C6	-6.17	115.10	118.80
34	BA	648	C	C6-N1-C2	-6.17	117.83	120.30
34	BA	723	C	C6-N1-C2	-6.17	117.83	120.30
34	BA	1097	G	P-O5'-C5'	6.17	130.77	120.90
34	BA	1488	C	O5'-C5'-C4'	6.17	123.43	111.70
35	BB	64	U	O4'-C1'-N1	6.17	113.14	108.20
35	BB	368	C	O4'-C1'-C2'	6.17	113.15	107.60
35	BB	830	G	C1'-O4'-C4'	-6.17	104.96	109.90
35	BB	1003	G	C4-N9-C1'	-6.17	118.48	126.50
35	BB	1016	C	N3-C2-O2	-6.17	117.58	121.90
35	BB	1342	C	C4'-C3'-C2'	6.17	108.77	102.60
40	BG	9	G	N1-C6-O6	-6.17	116.20	119.90
85	AA	95	U	C2-N1-C1'	-6.17	110.29	117.70
85	AA	139	G	N3-C2-N2	6.17	124.22	119.90
85	AA	992	G	C5'-C4'-C3'	-6.17	106.13	116.00
85	AA	1092	G	O4'-C1'-N9	6.17	113.14	108.20
85	AA	2043	A	C4'-C3'-C2'	-6.17	96.43	102.60
85	AA	2114	U	C6-N1-C1'	6.17	129.84	121.20
86	AB	15	G	O5'-C5'-C4'	6.17	123.42	111.70
86	AB	56	C	C5'-C4'-O4'	6.17	116.51	109.10
34	BA	29	U	C5-C4-O4	6.17	129.60	125.90
34	BA	825	G	C5-C6-N1	6.17	114.58	111.50
34	BA	1163	G	N3-C2-N2	6.17	124.22	119.90
34	BA	1326	U	C6-N1-C1'	-6.17	112.56	121.20
34	BA	1538	G	O4'-C1'-N9	6.17	113.14	108.20
35	BB	892	U	C4'-C3'-C2'	-6.17	96.43	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	75	G	C3'-C2'-C1'	-6.17	96.56	101.50
62	Bc	136	PHE	CB-CG-CD1	6.17	125.12	120.80
85	AA	496	C	N1-C2-O2	6.17	122.60	118.90
85	AA	1796	C	O4'-C4'-C3'	-6.17	97.83	104.00
34	BA	38	G	O4'-C1'-N9	6.17	113.14	108.20
34	BA	740	A	P-O3'-C3'	-6.17	112.30	119.70
34	BA	1173	C	O4'-C1'-C2'	6.17	113.15	107.60
34	BA	1400	A	N1-C6-N6	6.17	122.30	118.60
36	BC	76	C	C4'-C3'-C2'	-6.17	96.43	102.60
37	BD	26	C	C2-N3-C4	-6.17	116.82	119.90
37	BD	44	U	N3-C2-O2	-6.17	117.88	122.20
40	BG	23	C	O5'-P-OP2	6.17	118.10	110.70
40	BG	101	G	N9-C1'-C2'	-6.17	105.22	112.00
41	BH	66	G	C1'-O4'-C4'	-6.17	104.96	109.90
41	BH	76	G	C5-C6-O6	6.17	132.30	128.60
48	BO	75	PHE	CB-CG-CD2	-6.17	116.48	120.80
76	Bq	45	ARG	N-CA-CB	6.17	121.70	110.60
85	AA	340	G	C5'-C4'-C3'	-6.17	106.13	116.00
85	AA	718	C	C2-N1-C1'	-6.17	112.02	118.80
34	BA	514	U	P-O3'-C3'	-6.17	112.30	119.70
34	BA	712	C	OP1-P-OP2	-6.17	110.35	119.60
34	BA	769	U	O4'-C1'-N1	6.17	113.13	108.20
34	BA	1215	U	N1-C2-O2	6.17	127.12	122.80
34	BA	1332	U	C2-N3-C4	-6.17	123.30	127.00
34	BA	1456	C	O4'-C1'-N1	6.17	113.13	108.20
34	BA	1739	G	C4-C5-C6	-6.17	115.10	118.80
35	BB	449	C	N3-C4-C5	6.17	124.37	121.90
35	BB	950	G	C5-C6-O6	-6.17	124.90	128.60
35	BB	1177	U	O4'-C4'-C3'	-6.17	97.83	104.00
35	BB	1385	C	C1'-O4'-C4'	-6.17	104.97	109.90
38	BE	114	G	C1'-O4'-C4'	-6.17	104.97	109.90
83	Bx	91	PHE	CB-CG-CD1	-6.17	116.48	120.80
85	AA	349	C	C6-N1-C1'	6.17	128.20	120.80
85	AA	862	U	C2'-C3'-O3'	6.17	123.57	113.70
34	BA	250	G	O4'-C1'-N9	6.17	113.13	108.20
35	BB	351	G	N1-C6-O6	6.17	123.60	119.90
35	BB	714	U	N1-C2-N3	6.17	118.60	114.90
35	BB	1247	C	O4'-C1'-N1	6.17	113.13	108.20
35	BB	1297	G	O4'-C1'-N9	6.17	113.13	108.20
35	BB	1485	G	N3-C2-N2	6.17	124.22	119.90
36	BC	60	U	N3-C4-O4	6.17	123.72	119.40
41	BH	119	U	OP1-P-O3'	6.17	118.76	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1496	U	N1-C1'-C2'	-6.17	105.22	112.00
85	AA	2054	G	P-O5'-C5'	6.17	130.76	120.90
34	BA	960	C	N3-C2-O2	-6.16	117.59	121.90
34	BA	1019	C	C6-N1-C1'	-6.16	113.40	120.80
34	BA	1156	U	C5-C6-N1	-6.16	119.62	122.70
34	BA	1254	C	C6-N1-C2	-6.16	117.83	120.30
34	BA	1273	U	O3'-P-O5'	-6.16	92.29	104.00
34	BA	1532	G	N1-C2-N2	-6.16	110.65	116.20
34	BA	1796	A	C1'-O4'-C4'	-6.16	104.97	109.90
34	BA	1804	A	C1'-O4'-C4'	-6.16	104.97	109.90
35	BB	491	A	P-O3'-C3'	6.16	127.10	119.70
35	BB	844	G	O4'-C1'-N9	6.16	113.13	108.20
41	BH	12	U	N3-C4-C5	-6.16	110.90	114.60
65	Bf	360	ALA	N-CA-CB	6.16	118.73	110.10
85	AA	30	G	P-O3'-C3'	-6.16	112.31	119.70
85	AA	440	U	N1-C1'-C2'	-6.16	105.22	112.00
85	AA	929	G	N1-C6-O6	6.16	123.60	119.90
85	AA	1100	U	O3'-P-O5'	-6.16	92.29	104.00
85	AA	1862	C	O4'-C1'-N1	6.16	113.13	108.20
34	BA	161	U	C2'-C3'-O3'	6.16	123.56	113.70
34	BA	383	G	C2'-C3'-O3'	6.16	123.56	113.70
34	BA	1370	A	C5'-C4'-C3'	-6.16	106.14	116.00
35	BB	1048	A	C8-N9-C4	6.16	108.27	105.80
85	AA	25	C	O5'-P-OP1	6.16	118.09	110.70
85	AA	1184	A	P-O3'-C3'	-6.16	112.31	119.70
34	BA	526	C	C5-C4-N4	-6.16	115.89	120.20
34	BA	649	A	O4'-C1'-N9	6.16	113.13	108.20
34	BA	774	A	C5'-C4'-O4'	-6.16	101.71	109.10
34	BA	1120	U	C3'-C2'-C1'	-6.16	96.57	101.50
34	BA	1162	U	C6-N1-C2	-6.16	117.30	121.00
34	BA	1691	G	O3'-P-O5'	6.16	115.71	104.00
35	BB	257	G	C5-C6-O6	-6.16	124.90	128.60
35	BB	770	G	P-O5'-C5'	6.16	130.76	120.90
35	BB	1023	G	C1'-O4'-C4'	-6.16	104.97	109.90
36	BC	15	G	N1-C6-O6	6.16	123.60	119.90
67	Bh	53	TYR	CB-CG-CD2	-6.16	117.30	121.00
85	AA	36	U	C2-N3-C4	-6.16	123.30	127.00
85	AA	1116	G	C4-N9-C1'	-6.16	118.49	126.50
85	AA	1560	A	O4'-C4'-C3'	-6.16	97.84	104.00
16	AH	13	SER	O-C-N	-6.16	112.85	122.70
34	BA	119	G	O4'-C1'-N9	6.16	113.13	108.20
34	BA	367	G	N1-C6-O6	6.16	123.59	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1000	G	N1-C6-O6	-6.16	116.20	119.90
34	BA	1034	U	C5'-C4'-C3'	-6.16	106.15	116.00
34	BA	1704	G	C8-N9-C1'	6.16	135.00	127.00
35	BB	837	A	O3'-P-O5'	6.16	115.70	104.00
39	BF	9	C	N3-C4-N4	-6.16	113.69	118.00
40	BG	85	C	C2-N1-C1'	6.16	125.57	118.80
51	BR	16	LYS	CB-CA-C	-6.16	98.08	110.40
53	BT	6	LEU	N-CA-CB	6.16	122.72	110.40
64	Be	83	PHE	CB-CG-CD1	-6.16	116.49	120.80
85	AA	100	A	C8-N9-C4	-6.16	103.34	105.80
85	AA	245	A	C4-N9-C1'	-6.16	115.21	126.30
85	AA	424	A	C5-N7-C8	-6.16	100.82	103.90
85	AA	587	G	C8-N9-C1'	6.16	135.01	127.00
85	AA	768	C	P-O5'-C5'	-6.16	111.05	120.90
85	AA	938	A	P-O5'-C5'	6.16	130.75	120.90
34	BA	712	C	N3-C2-O2	-6.16	117.59	121.90
34	BA	1300	G	N1-C6-O6	6.16	123.59	119.90
35	BB	60	A	O4'-C1'-N9	6.16	113.13	108.20
35	BB	1045	G	C6-N1-C2	-6.16	121.41	125.10
85	AA	1694	C	O4'-C1'-N1	6.16	113.12	108.20
5	A4	127	PHE	CB-CG-CD1	6.16	125.11	120.80
34	BA	218	G	O4'-C1'-N9	6.16	113.12	108.20
34	BA	304	G	N9-C1'-C2'	-6.16	105.23	112.00
34	BA	657	C	O4'-C1'-N1	6.16	113.12	108.20
34	BA	1211	G	C4-N9-C1'	6.16	134.50	126.50
35	BB	419	G	C5-C6-O6	-6.16	124.91	128.60
35	BB	509	A	N1-C6-N6	6.16	122.29	118.60
35	BB	1452	U	P-O5'-C5'	6.16	130.75	120.90
37	BD	83	A	C8-N9-C4	6.16	108.26	105.80
38	BE	10	G	N3-C2-N2	-6.16	115.59	119.90
85	AA	826	C	C5'-C4'-O4'	6.16	116.49	109.10
85	AA	1063	U	O5'-C5'-C4'	6.16	123.39	111.70
85	AA	1704	C	N3-C4-C5	6.16	124.36	121.90
85	AA	2056	C	C5'-C4'-C3'	-6.16	106.15	116.00
34	BA	605	G	C5-C6-N1	6.15	114.58	111.50
34	BA	652	C	C4'-C3'-C2'	-6.15	96.45	102.60
35	BB	508	U	C2-N1-C1'	-6.15	110.32	117.70
35	BB	1259	A	C1'-O4'-C4'	-6.15	104.98	109.90
85	AA	154	U	O4'-C1'-N1	6.15	113.12	108.20
85	AA	338	G	C4-N9-C1'	-6.15	118.50	126.50
85	AA	691	U	O4'-C1'-N1	6.15	113.12	108.20
85	AA	2194	U	O4'-C1'-C2'	6.15	113.14	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	147	U	O5'-C5'-C4'	-6.15	100.01	111.70
34	BA	280	A	C4'-C3'-C2'	6.15	108.75	102.60
34	BA	833	U	C4'-C3'-C2'	-6.15	96.45	102.60
34	BA	1185	U	O4'-C1'-N1	6.15	113.12	108.20
34	BA	1731	A	O4'-C4'-C3'	-6.15	97.85	104.00
35	BB	955	U	O4'-C1'-N1	6.15	113.12	108.20
37	BD	51	G	C8-N9-C4	6.15	108.86	106.40
40	BG	46	G	N1-C6-O6	6.15	123.59	119.90
57	BX	60	TYR	CB-CG-CD1	-6.15	117.31	121.00
85	AA	83	U	P-O5'-C5'	6.15	130.74	120.90
85	AA	521	A	P-O5'-C5'	6.15	130.75	120.90
31	AX	55	ARG	NE-CZ-NH2	-6.15	117.22	120.30
34	BA	13	U	C4-C5-C6	-6.15	116.01	119.70
34	BA	47	U	C2-N3-C4	-6.15	123.31	127.00
34	BA	605	G	O4'-C1'-N9	6.15	113.12	108.20
34	BA	768	G	C5'-C4'-C3'	-6.15	106.16	116.00
34	BA	851	C	C5'-C4'-C3'	6.15	125.84	116.00
34	BA	1212	A	C5-C6-N1	6.15	120.78	117.70
34	BA	1341	A	O4'-C4'-C3'	-6.15	97.85	104.00
35	BB	501	G	N3-C2-N2	6.15	124.21	119.90
35	BB	638	G	C4-N9-C1'	-6.15	118.50	126.50
36	BC	135	A	C5'-C4'-C3'	-6.15	106.16	116.00
37	BD	30	A	C8-N9-C4	6.15	108.26	105.80
39	BF	64	U	C6-N1-C1'	-6.15	112.59	121.20
41	BH	21	G	N9-C1'-C2'	-6.15	105.23	112.00
43	BJ	57	ARG	NE-CZ-NH1	6.15	123.38	120.30
85	AA	1259	U	P-O3'-C3'	-6.15	112.32	119.70
85	AA	1535	C	C3'-C2'-C1'	6.15	106.42	101.50
85	AA	1568	U	O4'-C1'-N1	6.15	113.12	108.20
27	AT	10	VAL	CB-CA-C	-6.15	99.72	111.40
34	BA	89	G	C5'-C4'-C3'	6.15	125.84	116.00
34	BA	503	C	P-O3'-C3'	-6.15	112.32	119.70
34	BA	767	U	P-O5'-C5'	-6.15	111.06	120.90
34	BA	1295	U	O4'-C1'-C2'	6.15	113.13	107.60
34	BA	1747	C	O3'-P-O5'	6.15	115.68	104.00
35	BB	1268	C	N3-C2-O2	-6.15	117.59	121.90
38	BE	106	C	N3-C4-N4	6.15	122.30	118.00
85	AA	305	A	O4'-C4'-C3'	-6.15	97.85	104.00
85	AA	2086	C	O4'-C1'-N1	6.15	113.12	108.20
34	BA	289	A	C5-C6-N1	6.15	120.77	117.70
34	BA	1087	A	C6-N1-C2	-6.15	114.91	118.60
35	BB	1452	U	C5'-C4'-C3'	6.15	125.84	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	BL	167	MET	CG-SD-CE	-6.15	90.36	100.20
59	BZ	40	TYR	CA-CB-CG	-6.15	101.72	113.40
69	Bj	10	ARG	NE-CZ-NH1	6.15	123.37	120.30
85	AA	163	C	C6-N1-C1'	-6.15	113.42	120.80
85	AA	338	G	C1'-O4'-C4'	-6.15	104.98	109.90
85	AA	447	C	C4'-C3'-C2'	6.15	108.75	102.60
85	AA	451	G	N3-C2-N2	6.15	124.20	119.90
85	AA	667	A	P-O5'-C5'	-6.15	111.06	120.90
85	AA	692	U	C2-N3-C4	-6.15	123.31	127.00
85	AA	1526	G	C8-N9-C4	-6.15	103.94	106.40
85	AA	1909	C	C4'-C3'-C2'	-6.15	96.45	102.60
85	AA	1932	C	C6-N1-C1'	-6.15	113.42	120.80
85	AA	1974	C	P-O5'-C5'	-6.15	111.06	120.90
29	AV	53	ARG	NE-CZ-NH1	6.15	123.37	120.30
34	BA	217	C	C5'-C4'-C3'	-6.15	106.17	116.00
34	BA	703	U	C6-N1-C2	-6.15	117.31	121.00
36	BC	108	A	C5'-C4'-O4'	6.15	116.47	109.10
37	BD	93	G	C5-C6-N1	6.15	114.57	111.50
34	BA	3	G	O4'-C1'-N9	6.14	113.11	108.20
34	BA	277	A	N7-C8-N9	-6.14	110.73	113.80
34	BA	449	G	N7-C8-N9	-6.14	110.03	113.10
34	BA	1087	A	C5'-C4'-C3'	-6.14	106.17	116.00
34	BA	1515	U	N1-C1'-C2'	-6.14	105.24	112.00
34	BA	1583	A	C8-N9-C4	6.14	108.26	105.80
34	BA	1711	G	C2-N3-C4	6.14	114.97	111.90
35	BB	474	G	C5-C6-O6	-6.14	124.91	128.60
35	BB	557	C	N3-C2-O2	-6.14	117.60	121.90
35	BB	857	G	C5-C6-O6	-6.14	124.91	128.60
35	BB	1346	A	C5'-C4'-C3'	6.14	125.83	116.00
37	BD	80	G	C5-C6-N1	6.14	114.57	111.50
41	BH	22	A	C4'-C3'-O3'	-6.14	96.50	109.40
41	BH	52	G	C5-C6-O6	-6.14	124.91	128.60
65	Bf	268	SER	N-CA-CB	6.14	119.72	110.50
85	AA	145	C	C1'-O4'-C4'	-6.14	104.98	109.90
85	AA	536	C	C1'-O4'-C4'	-6.14	104.98	109.90
85	AA	551	C	C6-N1-C2	-6.14	117.84	120.30
85	AA	1198	U	C2-N3-C4	-6.14	123.31	127.00
34	BA	513	U	O4'-C1'-C2'	6.14	113.13	107.60
34	BA	1325	G	C5-C6-N1	6.14	114.57	111.50
34	BA	1666	U	C1'-O4'-C4'	-6.14	104.99	109.90
34	BA	1726	U	C6-N1-C2	-6.14	117.31	121.00
35	BB	552	C	O4'-C1'-C2'	6.14	113.13	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	106	C	P-O3'-C3'	-6.14	112.33	119.70
41	BH	63	G	C2'-C3'-O3'	6.14	123.53	113.70
41	BH	103	C	C5'-C4'-C3'	6.14	125.83	116.00
71	Bl	93	VAL	N-CA-CB	-6.14	97.99	111.50
85	AA	114	C	P-O3'-C3'	-6.14	112.33	119.70
85	AA	383	C	C5-C4-N4	6.14	124.50	120.20
85	AA	1218	C	O4'-C1'-N1	6.14	113.11	108.20
85	AA	2046	G	C1'-O4'-C4'	-6.14	104.99	109.90
34	BA	1187	U	C3'-C2'-C1'	-6.14	96.59	101.50
35	BB	1070	G	C3'-C2'-C1'	-6.14	96.59	101.50
35	BB	1319	U	P-O3'-C3'	-6.14	112.33	119.70
85	AA	764	U	C2-N3-C4	6.14	130.68	127.00
85	AA	1378	U	C2-N3-C4	-6.14	123.31	127.00
85	AA	2204	A	C8-N9-C4	6.14	108.26	105.80
3	A2	39	ALA	N-CA-CB	6.14	118.70	110.10
34	BA	917	C	N1-C2-O2	6.14	122.58	118.90
34	BA	1030	C	C1'-O4'-C4'	-6.14	104.99	109.90
34	BA	1052	G	C8-N9-C4	6.14	108.86	106.40
34	BA	1231	C	C3'-C2'-C1'	-6.14	96.59	101.50
34	BA	1233	U	O4'-C1'-C2'	6.14	113.13	107.60
34	BA	1365	U	O3'-P-O5'	-6.14	92.34	104.00
34	BA	1472	G	C5-C6-N1	6.14	114.57	111.50
34	BA	1788	U	P-O5'-C5'	6.14	130.72	120.90
34	BA	1807	G	N3-C2-N2	6.14	124.20	119.90
35	BB	126	C	C1'-O4'-C4'	-6.14	104.99	109.90
35	BB	130	G	O4'-C1'-C2'	6.14	113.12	107.60
35	BB	775	U	N3-C4-O4	-6.14	115.10	119.40
35	BB	1063	C	C5'-C4'-C3'	-6.14	106.18	116.00
35	BB	1397	G	C5'-C4'-C3'	-6.14	106.17	116.00
40	BG	119	A	P-O3'-C3'	6.14	127.07	119.70
44	BK	10	ARG	NE-CZ-NH2	-6.14	117.23	120.30
73	Bn	57	ARG	NE-CZ-NH1	6.14	123.37	120.30
74	Bo	47	PHE	CA-CB-CG	-6.14	99.16	113.90
85	AA	115	U	O3'-P-O5'	-6.14	92.34	104.00
85	AA	217	G	N1-C6-O6	6.14	123.58	119.90
85	AA	258	G	C4-N9-C1'	-6.14	118.52	126.50
85	AA	744	C	C4-C5-C6	-6.14	114.33	117.40
85	AA	1106	A	C4'-C3'-C2'	-6.14	96.46	102.60
85	AA	1521	U	O3'-P-O5'	-6.14	92.34	104.00
85	AA	2145	G	C5-C6-N1	6.14	114.57	111.50
34	BA	549	G	N1-C6-O6	-6.14	116.22	119.90
34	BA	1418	G	O5'-P-OP2	-6.14	100.18	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1091	C	C5'-C4'-C3'	-6.14	106.18	116.00
37	BD	68	C	N3-C2-O2	-6.14	117.60	121.90
37	BD	79	G	C4'-C3'-C2'	6.14	108.74	102.60
38	BE	154	A	N9-C1'-C2'	-6.14	105.25	112.00
85	AA	161	A	C5'-C4'-O4'	6.14	116.47	109.10
85	AA	1576	G	C4-C5-C6	-6.14	115.12	118.80
85	AA	2102	A	N9-C1'-C2'	-6.14	105.25	112.00
23	AP	136	ARG	NE-CZ-NH2	-6.14	117.23	120.30
34	BA	33	C	O4'-C1'-N1	6.14	113.11	108.20
34	BA	294	C	O3'-P-O5'	6.14	115.66	104.00
34	BA	401	A	C4-C5-C6	-6.14	113.93	117.00
34	BA	523	A	C4-N9-C1'	-6.14	115.25	126.30
34	BA	617	G	P-O3'-C3'	-6.14	112.34	119.70
34	BA	678	C	C3'-C2'-C1'	6.14	106.41	101.50
34	BA	1058	C	O3'-P-O5'	6.14	115.66	104.00
35	BB	829	C	P-O3'-C3'	6.14	127.06	119.70
35	BB	1143	A	P-O3'-C3'	-6.14	112.34	119.70
35	BB	1442	C	C5'-C4'-C3'	6.14	125.82	116.00
39	BF	17	U	C4-C5-C6	-6.14	116.02	119.70
41	BH	49	C	C6-N1-C1'	-6.14	113.44	120.80
65	Bf	416	PHE	CB-CG-CD2	-6.14	116.50	120.80
84	By	173	PHE	CB-CG-CD1	6.14	125.10	120.80
85	AA	389	A	C1'-O4'-C4'	-6.14	104.99	109.90
85	AA	478	U	C5'-C4'-C3'	-6.14	106.18	116.00
85	AA	719	C	C3'-C2'-C1'	-6.14	96.59	101.50
85	AA	1251	G	C5-C6-O6	-6.14	124.92	128.60
24	AQ	42	ASN	CA-CB-CG	-6.13	99.91	113.40
34	BA	1176	C	N3-C2-O2	-6.13	117.61	121.90
35	BB	1315	C	O5'-C5'-C4'	-6.13	100.05	111.70
35	BB	1379	U	P-O3'-C3'	6.13	127.06	119.70
35	BB	1487	G	P-O5'-C5'	-6.13	111.08	120.90
40	BG	29	U	N3-C4-C5	6.13	118.28	114.60
63	Bd	29	MET	CG-SD-CE	-6.13	90.39	100.20
71	Bl	139	ARG	NE-CZ-NH1	6.13	123.37	120.30
85	AA	146	U	P-O5'-C5'	-6.13	111.08	120.90
85	AA	909	C	C2'-C3'-O3'	6.13	123.51	113.70
85	AA	920	A	N9-C1'-C2'	-6.13	105.25	112.00
85	AA	922	A	C5'-C4'-O4'	6.13	116.46	109.10
85	AA	2096	G	C8-N9-C4	-6.13	103.95	106.40
34	BA	1011	G	N1-C6-O6	6.13	123.58	119.90
34	BA	1260	G	C8-N9-C1'	6.13	134.97	127.00
35	BB	148	C	P-O3'-C3'	6.13	127.06	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	386	G	C5-C6-O6	-6.13	124.92	128.60
35	BB	604	C	C1'-O4'-C4'	-6.13	104.99	109.90
35	BB	1164	U	C6-N1-C1'	6.13	129.79	121.20
38	BE	102	U	C6-N1-C1'	-6.13	112.61	121.20
41	BH	130	G	C5-C6-N1	6.13	114.57	111.50
85	AA	862	U	C6-N1-C2	-6.13	117.32	121.00
85	AA	1616	U	O4'-C1'-N1	6.13	113.11	108.20
86	AB	32	U	C2-N1-C1'	-6.13	110.34	117.70
34	BA	686	U	N3-C2-O2	-6.13	117.91	122.20
34	BA	881	C	N1-C2-O2	6.13	122.58	118.90
34	BA	1240	G	C4-C5-N7	6.13	113.25	110.80
34	BA	1540	C	C5-C4-N4	-6.13	115.91	120.20
35	BB	506	G	N3-C2-N2	6.13	124.19	119.90
35	BB	985	A	P-O3'-C3'	6.13	127.06	119.70
35	BB	1077	C	N3-C4-N4	-6.13	113.71	118.00
35	BB	1279	C	C5'-C4'-C3'	6.13	125.81	116.00
35	BB	1300	U	O4'-C1'-N1	6.13	113.11	108.20
35	BB	1481	C	O5'-C5'-C4'	6.13	123.35	111.70
36	BC	168	C	C5'-C4'-O4'	6.13	116.46	109.10
40	BG	172	C	C5'-C4'-O4'	6.13	116.46	109.10
41	BH	101	A	C1'-O4'-C4'	-6.13	105.00	109.90
85	AA	80	G	C4'-C3'-C2'	-6.13	96.47	102.60
85	AA	643	C	C3'-C2'-C1'	-6.13	96.59	101.50
85	AA	717	G	C4-N9-C1'	-6.13	118.53	126.50
85	AA	739	C	C4'-C3'-C2'	-6.13	96.47	102.60
85	AA	1016	G	C5'-C4'-C3'	-6.13	106.19	116.00
85	AA	1303	U	O4'-C1'-N1	6.13	113.11	108.20
85	AA	1874	G	P-O3'-C3'	6.13	127.06	119.70
35	BB	650	A	C4'-C3'-C2'	-6.13	96.47	102.60
35	BB	1335	G	N1-C6-O6	-6.13	116.22	119.90
77	Br	75	ILE	N-CA-C	6.13	127.55	111.00
85	AA	354	C	N3-C2-O2	-6.13	117.61	121.90
85	AA	913	U	O4'-C1'-N1	6.13	113.10	108.20
85	AA	1338	C	O4'-C1'-N1	6.13	113.10	108.20
29	AV	99	ARG	NE-CZ-NH1	6.13	123.36	120.30
34	BA	449	G	C4-C5-C6	-6.13	115.12	118.80
34	BA	511	U	C6-N1-C1'	-6.13	112.62	121.20
39	BF	38	C	N3-C4-C5	-6.13	119.45	121.90
85	AA	762	U	C5'-C4'-C3'	6.13	125.81	116.00
85	AA	787	U	C1'-O4'-C4'	-6.13	105.00	109.90
85	AA	1549	G	C5-N7-C8	-6.13	101.24	104.30
86	AB	10	G	O3'-P-O5'	-6.13	92.36	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	AV	68	MET	N-CA-C	-6.13	94.46	111.00
34	BA	120	A	P-O5'-C5'	6.13	130.70	120.90
34	BA	898	G	C4'-C3'-C2'	-6.13	96.47	102.60
34	BA	1062	G	P-O3'-C3'	6.13	127.05	119.70
34	BA	1329	U	N1-C2-O2	6.13	127.09	122.80
34	BA	1354	G	O4'-C1'-N9	6.13	113.10	108.20
35	BB	419	G	C3'-C2'-C1'	-6.13	96.60	101.50
35	BB	1539	C	N3-C2-O2	-6.13	117.61	121.90
36	BC	103	A	P-O5'-C5'	-6.13	111.10	120.90
38	BE	146	U	O4'-C1'-N1	6.13	113.10	108.20
39	BF	58	U	OP1-P-O3'	6.13	118.68	105.20
40	BG	117	C	O4'-C1'-N1	6.13	113.10	108.20
85	AA	836	A	C5-C6-N1	6.13	120.76	117.70
85	AA	2197	A	O5'-C5'-C4'	6.13	123.34	111.70
85	AA	2237	G	C8-N9-C1'	6.13	134.97	127.00
30	AW	48	TYR	CA-CB-CG	-6.12	101.76	113.40
34	BA	298	G	C4-N9-C1'	6.12	134.46	126.50
34	BA	1784	G	P-O5'-C5'	6.12	130.70	120.90
35	BB	557	C	O4'-C1'-N1	6.12	113.10	108.20
35	BB	814	A	N1-C6-N6	-6.12	114.92	118.60
35	BB	1288	G	C4-N9-C1'	-6.12	118.54	126.50
35	BB	1539	C	N1-C1'-C2'	-6.12	105.26	112.00
37	BD	66	G	N9-C1'-C2'	-6.12	105.26	112.00
80	Bu	244	ASP	C-N-CA	6.12	137.01	121.70
85	AA	266	U	C6-N1-C2	-6.12	117.33	121.00
85	AA	858	G	C6-N1-C2	-6.12	121.42	125.10
25	AR	51	ASP	N-CA-C	-6.12	94.47	111.00
34	BA	535	G	C5-C6-N1	6.12	114.56	111.50
34	BA	1184	A	C6-N1-C2	-6.12	114.93	118.60
34	BA	1673	G	C5-C6-N1	6.12	114.56	111.50
34	BA	1709	A	C1'-O4'-C4'	-6.12	105.00	109.90
34	BA	1737	A	P-O3'-C3'	-6.12	112.35	119.70
35	BB	257	G	N1-C6-O6	6.12	123.57	119.90
35	BB	296	G	O4'-C1'-N9	6.12	113.10	108.20
35	BB	441	G	O4'-C1'-C2'	6.12	113.11	107.60
35	BB	535	U	C2-N1-C1'	-6.12	110.35	117.70
35	BB	1314	G	C3'-C2'-C1'	-6.12	96.60	101.50
38	BE	166	G	O5'-P-OP2	-6.12	100.19	105.70
41	BH	132	C	C5-C6-N1	6.12	124.06	121.00
45	BL	157	PHE	CB-CG-CD2	-6.12	116.51	120.80
84	By	112	ASN	CB-CA-C	-6.12	98.15	110.40
85	AA	559	G	C4'-C3'-C2'	-6.12	96.48	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1154	A	O4'-C1'-N9	6.12	113.10	108.20
85	AA	1236	G	O4'-C4'-C3'	-6.12	97.88	104.00
85	AA	1240	A	C5-C6-N6	-6.12	118.80	123.70
34	BA	504	A	O5'-C5'-C4'	-6.12	100.07	111.70
34	BA	1026	C	N3-C4-C5	6.12	124.35	121.90
34	BA	1167	A	C8-N9-C4	6.12	108.25	105.80
34	BA	1305	A	C6-N1-C2	-6.12	114.93	118.60
35	BB	95	A	O4'-C1'-N9	6.12	113.10	108.20
35	BB	977	G	C4'-C3'-C2'	-6.12	96.48	102.60
35	BB	1283	C	C3'-C2'-C1'	-6.12	96.60	101.50
35	BB	1419	G	C6-N1-C2	-6.12	121.43	125.10
69	Bj	109	LYS	N-CA-CB	-6.12	99.58	110.60
85	AA	189	G	C3'-C2'-C1'	-6.12	96.60	101.50
85	AA	532	G	C4'-C3'-C2'	-6.12	96.48	102.60
85	AA	1670	U	C5-C4-O4	6.12	129.57	125.90
85	AA	1730	C	C6-N1-C2	-6.12	117.85	120.30
85	AA	2099	C	O4'-C1'-N1	6.12	113.10	108.20
19	AK	126	ASP	CA-CB-CG	-6.12	99.94	113.40
34	BA	904	G	C1'-O4'-C4'	-6.12	105.00	109.90
34	BA	1390	C	O4'-C1'-N1	6.12	113.10	108.20
41	BH	57	A	O4'-C1'-N9	6.12	113.10	108.20
85	AA	1784	G	C4'-C3'-C2'	-6.12	96.48	102.60
85	AA	2100	A	C4'-C3'-C2'	6.12	108.72	102.60
34	BA	10	G	C1'-O4'-C4'	-6.12	105.00	109.90
34	BA	170	U	O4'-C1'-N1	6.12	113.09	108.20
34	BA	175	G	C4-N9-C1'	-6.12	118.55	126.50
34	BA	187	G	C4-N9-C1'	-6.12	118.55	126.50
34	BA	241	U	O3'-P-O5'	-6.12	92.38	104.00
34	BA	603	U	O5'-P-OP2	-6.12	100.19	105.70
34	BA	667	U	C2-N1-C1'	-6.12	110.36	117.70
34	BA	691	A	C8-N9-C4	6.12	108.25	105.80
34	BA	1211	G	N3-C2-N2	-6.12	115.62	119.90
34	BA	1668	C	O4'-C1'-N1	6.12	113.09	108.20
34	BA	1675	C	N3-C2-O2	-6.12	117.62	121.90
35	BB	155	G	C5-C6-O6	-6.12	124.93	128.60
38	BE	172	U	N1-C2-O2	6.12	127.08	122.80
41	BH	20	A	O4'-C1'-N9	6.12	113.09	108.20
41	BH	23	G	C1'-O4'-C4'	6.12	114.80	109.90
48	BO	168	TYR	CA-CB-CG	-6.12	101.77	113.40
85	AA	600	C	O5'-P-OP1	-6.12	100.19	105.70
85	AA	703	U	P-O3'-C3'	-6.12	112.36	119.70
85	AA	1848	G	N9-C4-C5	-6.12	102.95	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A4	91	PHE	CB-CG-CD2	-6.12	116.52	120.80
34	BA	1204	U	C2-N1-C1'	-6.12	110.36	117.70
35	BB	811	C	O4'-C1'-N1	6.12	113.09	108.20
37	BD	5	A	O4'-C1'-N9	6.12	113.09	108.20
85	AA	397	G	C5-C6-N1	6.12	114.56	111.50
85	AA	718	C	C6-N1-C1'	6.12	128.14	120.80
85	AA	972	G	O4'-C1'-C2'	6.12	113.11	107.60
34	BA	813	C	N1-C2-O2	6.12	122.57	118.90
34	BA	892	C	C6-N1-C1'	6.12	128.14	120.80
34	BA	916	A	P-O3'-C3'	-6.12	112.36	119.70
34	BA	1639	U	C6-N1-C1'	6.12	129.76	121.20
34	BA	1779	U	O4'-C1'-N1	6.12	113.09	108.20
35	BB	139	G	P-O3'-C3'	-6.12	112.36	119.70
35	BB	788	U	C5-C4-O4	6.12	129.57	125.90
35	BB	1476	C	N3-C2-O2	-6.12	117.62	121.90
38	BE	96	G	C4-C5-N7	-6.12	108.35	110.80
38	BE	194	A	C6-C5-N7	-6.12	128.02	132.30
49	BP	32	ASP	CB-CA-C	6.12	122.63	110.40
67	Bh	128	ASP	N-CA-CB	-6.12	99.59	110.60
85	AA	1174	G	P-O3'-C3'	-6.12	112.36	119.70
85	AA	1313	C	C6-N1-C2	-6.12	117.85	120.30
85	AA	1337	A	C3'-C2'-C1'	-6.12	96.61	101.50
85	AA	1647	G	N3-C4-C5	-6.12	125.54	128.60
85	AA	1731	G	N3-C4-C5	-6.12	125.54	128.60
85	AA	1792	C	C3'-C2'-C1'	6.12	106.39	101.50
86	AB	65	G	C8-N9-C1'	-6.12	119.05	127.00
34	BA	8	G	C3'-C2'-C1'	-6.11	96.61	101.50
34	BA	50	G	C5-C6-N1	6.11	114.56	111.50
34	BA	257	G	C3'-C2'-C1'	-6.11	96.61	101.50
34	BA	261	A	N1-C6-N6	6.11	122.27	118.60
34	BA	418	G	O4'-C1'-C2'	-6.11	99.69	105.80
34	BA	422	C	C2-N3-C4	-6.11	116.84	119.90
34	BA	797	A	C3'-C2'-C1'	6.11	106.39	101.50
34	BA	933	U	C5-C6-N1	-6.11	119.64	122.70
34	BA	1218	G	C5-C6-O6	6.11	132.27	128.60
34	BA	1281	U	N3-C2-O2	-6.11	117.92	122.20
34	BA	1417	C	O4'-C1'-N1	6.11	113.09	108.20
40	BG	28	A	P-O3'-C3'	-6.11	112.36	119.70
41	BH	65	G	C8-N9-C1'	6.11	134.95	127.00
85	AA	601	A	O4'-C4'-C3'	-6.11	97.89	104.00
85	AA	1651	C	N1-C1'-C2'	-6.11	105.28	112.00
24	AQ	101	PHE	CB-CG-CD1	6.11	125.08	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1442	A	N1-C2-N3	6.11	132.36	129.30
85	AA	306	C	P-O5'-C5'	-6.11	111.12	120.90
85	AA	1876	U	P-O3'-C3'	6.11	127.03	119.70
85	AA	1971	G	O4'-C1'-N9	6.11	113.09	108.20
34	BA	469	C	OP2-P-O3'	6.11	118.64	105.20
34	BA	1674	G	P-O5'-C5'	-6.11	111.12	120.90
35	BB	405	U	C3'-C2'-C1'	6.11	106.39	101.50
35	BB	1187	G	P-O5'-C5'	-6.11	111.12	120.90
56	BW	37	TYR	CB-CG-CD1	6.11	124.67	121.00
67	Bh	77	THR	N-CA-CB	6.11	121.91	110.30
77	Br	217	ARG	N-CA-CB	6.11	121.60	110.60
77	Br	250	TRP	CA-CB-CG	-6.11	102.09	113.70
85	AA	852	C	C5-C4-N4	-6.11	115.92	120.20
85	AA	1206	A	C1'-O4'-C4'	-6.11	105.01	109.90
85	AA	1441	G	C5-C6-N1	6.11	114.56	111.50
85	AA	1668	G	C1'-O4'-C4'	-6.11	105.01	109.90
85	AA	1992	A	N7-C8-N9	6.11	116.86	113.80
34	BA	5	C	C2-N3-C4	6.11	122.95	119.90
34	BA	15	G	C5-N7-C8	-6.11	101.25	104.30
34	BA	320	G	N1-C6-O6	-6.11	116.23	119.90
34	BA	894	G	C5-C6-O6	6.11	132.26	128.60
35	BB	3	C	N3-C2-O2	-6.11	117.62	121.90
38	BE	13	A	O4'-C4'-C3'	-6.11	97.89	104.00
41	BH	52	G	C8-N9-C4	-6.11	103.96	106.40
58	BY	75	ARG	NE-CZ-NH1	6.11	123.35	120.30
85	AA	2106	C	C5'-C4'-C3'	-6.11	106.23	116.00
7	A6	140	VAL	N-CA-C	-6.11	94.51	111.00
34	BA	1251	A	O4'-C1'-C2'	6.11	113.10	107.60
34	BA	1295	U	O5'-C5'-C4'	6.11	123.31	111.70
35	BB	472	C	C6-N1-C1'	6.11	128.13	120.80
35	BB	1066	G	N1-C6-O6	6.11	123.56	119.90
35	BB	1304	U	P-O5'-C5'	-6.11	111.13	120.90
35	BB	1428	C	C5'-C4'-C3'	-6.11	106.23	116.00
35	BB	1485	G	C5'-C4'-O4'	6.11	116.43	109.10
36	BC	144	C	C6-N1-C2	-6.11	117.86	120.30
37	BD	85	C	C6-N1-C1'	6.11	128.13	120.80
38	BE	133	C	P-O5'-C5'	-6.11	111.13	120.90
65	Bf	447	ARG	NE-CZ-NH1	6.11	123.35	120.30
85	AA	245	A	C3'-C2'-C1'	-6.11	96.61	101.50
85	AA	867	G	N9-C1'-C2'	-6.11	105.28	112.00
85	AA	1509	A	N7-C8-N9	6.11	116.85	113.80
85	AA	1865	C	P-O3'-C3'	6.11	127.03	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2089	G	O4'-C1'-C2'	6.11	113.10	107.60
85	AA	2215	C	C4'-C3'-C2'	6.11	108.71	102.60
6	A5	78	ILE	N-CA-C	-6.11	94.52	111.00
34	BA	153	C	O4'-C1'-N1	6.11	113.08	108.20
34	BA	521	C	C2-N3-C4	-6.11	116.85	119.90
34	BA	847	U	O4'-C1'-C2'	-6.11	99.69	105.80
35	BB	961	G	C5'-C4'-C3'	-6.11	106.23	116.00
35	BB	1383	C	N3-C4-N4	6.11	122.27	118.00
38	BE	184	G	C4-N9-C1'	-6.11	118.56	126.50
85	AA	369	A	O5'-C5'-C4'	-6.11	100.10	111.70
85	AA	868	A	C5-C6-N6	-6.11	118.81	123.70
85	AA	1595	G	P-O3'-C3'	-6.11	112.37	119.70
85	AA	1979	A	N9-C1'-C2'	-6.11	105.28	112.00
85	AA	2008	G	P-O3'-C3'	-6.11	112.37	119.70
10	A9	152	MET	CG-SD-CE	-6.10	90.43	100.20
34	BA	1379	G	O4'-C1'-N9	6.10	113.08	108.20
35	BB	818	U	C1'-O4'-C4'	-6.10	105.02	109.90
35	BB	1461	C	OP1-P-OP2	-6.10	110.44	119.60
82	Bw	82	ARG	CD-NE-CZ	6.10	132.15	123.60
85	AA	162	A	C5-C6-N6	-6.10	118.82	123.70
85	AA	748	C	C6-N1-C2	-6.10	117.86	120.30
85	AA	1458	G	C5'-C4'-C3'	-6.10	106.23	116.00
7	A6	113	PHE	CB-CG-CD2	-6.10	116.53	120.80
19	AK	68	ARG	NE-CZ-NH2	-6.10	117.25	120.30
34	BA	72	U	N3-C2-O2	-6.10	117.93	122.20
34	BA	371	U	C2-N1-C1'	-6.10	110.38	117.70
34	BA	975	A	C5'-C4'-C3'	-6.10	106.24	116.00
34	BA	1701	U	N1-C2-N3	6.10	118.56	114.90
35	BB	483	C	O5'-C5'-C4'	-6.10	100.11	111.70
35	BB	631	G	C4-N9-C1'	6.10	134.43	126.50
65	Bf	277	THR	N-CA-CB	6.10	121.89	110.30
34	BA	23	A	C5'-C4'-C3'	-6.10	106.24	116.00
35	BB	1040	C	O5'-P-OP2	6.10	118.02	110.70
36	BC	82	C	C2-N1-C1'	6.10	125.51	118.80
38	BE	85	G	C5'-C4'-O4'	-6.10	101.78	109.10
39	BF	52	A	O3'-P-O5'	-6.10	92.41	104.00
47	BN	206	ARG	NE-CZ-NH2	-6.10	117.25	120.30
85	AA	543	A	O4'-C1'-N9	6.10	113.08	108.20
85	AA	660	G	C8-N9-C4	6.10	108.84	106.40
85	AA	663	C	P-O5'-C5'	-6.10	111.14	120.90
85	AA	986	U	O4'-C1'-N1	6.10	113.08	108.20
85	AA	1456	A	C5-C6-N6	-6.10	118.82	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	244	A	P-O3'-C3'	-6.10	112.38	119.70
34	BA	479	U	C5'-C4'-C3'	-6.10	106.24	116.00
34	BA	765	U	C5'-C4'-O4'	6.10	116.42	109.10
34	BA	882	G	P-O5'-C5'	-6.10	111.14	120.90
35	BB	505	G	N9-C1'-C2'	-6.10	105.29	112.00
35	BB	860	U	C6-N1-C1'	-6.10	112.66	121.20
35	BB	1357	C	N1-C2-O2	6.10	122.56	118.90
38	BE	110	U	C4'-C3'-C2'	-6.10	96.50	102.60
39	BF	57	C	N1-C1'-C2'	-6.10	105.29	112.00
40	BG	181	C	C2-N3-C4	-6.10	116.85	119.90
63	Bd	14	ARG	NE-CZ-NH1	6.10	123.35	120.30
85	AA	165	C	C1'-O4'-C4'	-6.10	105.02	109.90
85	AA	169	G	C8-N9-C1'	6.10	134.93	127.00
85	AA	491	G	N1-C2-N2	-6.10	110.71	116.20
85	AA	558	U	P-O5'-C5'	-6.10	111.14	120.90
85	AA	1135	U	C5'-C4'-C3'	-6.10	106.24	116.00
85	AA	2179	C	P-O5'-C5'	6.10	130.66	120.90
85	AA	2182	A	C5-C6-N6	-6.10	118.82	123.70
26	AS	67	ARG	NE-CZ-NH2	-6.10	117.25	120.30
34	BA	600	G	C4-N9-C1'	-6.10	118.57	126.50
34	BA	624	G	C6-N1-C2	-6.10	121.44	125.10
34	BA	841	G	C5'-C4'-C3'	-6.10	106.25	116.00
34	BA	1200	U	C5-C4-O4	-6.10	122.24	125.90
34	BA	1797	A	N1-C2-N3	-6.10	126.25	129.30
35	BB	416	U	O4'-C1'-C2'	6.10	113.09	107.60
35	BB	1269	A	C3'-C2'-C1'	-6.10	96.62	101.50
35	BB	1334	C	P-O3'-C3'	-6.10	112.38	119.70
38	BE	96	G	C8-N9-C1'	6.10	134.93	127.00
41	BH	110	C	C2-N1-C1'	6.10	125.51	118.80
85	AA	524	A	P-O5'-C5'	6.10	130.66	120.90
85	AA	572	G	C1'-O4'-C4'	-6.10	105.02	109.90
85	AA	884	A	P-O3'-C3'	6.10	127.02	119.70
85	AA	1127	G	C4-N9-C1'	-6.10	118.57	126.50
85	AA	1854	U	C6-N1-C1'	-6.10	112.66	121.20
34	BA	337	C	C5'-C4'-C3'	-6.10	106.25	116.00
34	BA	996	U	C5-C6-N1	-6.10	119.65	122.70
34	BA	1071	G	N1-C6-O6	6.10	123.56	119.90
34	BA	1769	U	O4'-C1'-N1	6.10	113.08	108.20
35	BB	631	G	C8-N9-C1'	-6.10	119.08	127.00
85	AA	1453	U	O4'-C1'-N1	6.10	113.08	108.20
7	A6	34	GLY	C-N-CA	6.09	136.94	121.70
34	BA	103	G	C8-N9-C4	6.09	108.84	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	156	U	O4'-C1'-N1	6.09	113.08	108.20
34	BA	539	C	N3-C2-O2	-6.09	117.63	121.90
34	BA	620	C	O4'-C4'-C3'	-6.09	97.91	104.00
34	BA	701	G	C5'-C4'-O4'	6.09	116.41	109.10
34	BA	1012	A	C1'-O4'-C4'	-6.09	105.03	109.90
34	BA	1550	G	C5'-C4'-C3'	6.09	125.75	116.00
34	BA	1737	A	P-O5'-C5'	6.09	130.65	120.90
35	BB	571	C	N1-C1'-C2'	-6.09	105.30	112.00
35	BB	869	G	C5'-C4'-O4'	6.09	116.41	109.10
35	BB	1081	U	C5-C6-N1	-6.09	119.65	122.70
35	BB	1195	A	P-O5'-C5'	6.09	130.65	120.90
35	BB	1270	C	N3-C2-O2	-6.09	117.63	121.90
35	BB	1532	C	N3-C4-C5	6.09	124.34	121.90
36	BC	35	C	O4'-C1'-C2'	6.09	113.08	107.60
37	BD	40	C	O5'-P-OP2	6.09	118.01	110.70
37	BD	68	C	O4'-C1'-N1	6.09	113.08	108.20
38	BE	87	U	C3'-C2'-C1'	-6.09	96.62	101.50
85	AA	1168	C	O4'-C1'-N1	6.09	113.08	108.20
85	AA	1668	G	C8-N9-C4	-6.09	103.96	106.40
85	AA	2190	U	O4'-C1'-N1	6.09	113.08	108.20
86	AB	62	C	O4'-C1'-C2'	6.09	113.08	107.60
34	BA	470	C	C5'-C4'-O4'	6.09	116.41	109.10
34	BA	797	A	N1-C6-N6	-6.09	114.94	118.60
41	BH	100	A	C5-C6-N6	-6.09	118.83	123.70
85	AA	39	A	O4'-C1'-N9	6.09	113.08	108.20
85	AA	804	A	N1-C6-N6	-6.09	114.94	118.60
34	BA	454	G	N1-C6-O6	-6.09	116.25	119.90
34	BA	1505	G	N9-C1'-C2'	6.09	121.92	114.00
34	BA	1579	G	N3-C2-N2	6.09	124.16	119.90
34	BA	1732	A	C1'-O4'-C4'	-6.09	105.03	109.90
34	BA	1749	C	O4'-C1'-N1	6.09	113.07	108.20
34	BA	1823	A	O4'-C4'-C3'	-6.09	97.91	104.00
35	BB	64	U	C5'-C4'-C3'	-6.09	106.25	116.00
35	BB	484	G	C8-N9-C4	-6.09	103.96	106.40
35	BB	531	U	C3'-C2'-C1'	6.09	106.37	101.50
35	BB	965	G	C5-C6-O6	-6.09	124.94	128.60
35	BB	1100	C	N3-C4-N4	-6.09	113.74	118.00
36	BC	35	C	N3-C2-O2	-6.09	117.64	121.90
40	BG	9	G	N1-C2-N2	6.09	121.68	116.20
40	BG	123	C	C2-N1-C1'	-6.09	112.10	118.80
53	BT	132	PHE	CB-CG-CD2	-6.09	116.54	120.80
85	AA	239	G	C2-N3-C4	6.09	114.95	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	380	C	C5'-C4'-C3'	-6.09	106.25	116.00
85	AA	687	G	C8-N9-C1'	-6.09	119.08	127.00
85	AA	932	A	C4'-C3'-C2'	6.09	108.69	102.60
34	BA	124	G	C4'-C3'-C2'	6.09	108.69	102.60
34	BA	159	U	C5-C4-O4	6.09	129.55	125.90
34	BA	295	G	O4'-C1'-N9	6.09	113.07	108.20
34	BA	754	G	N9-C1'-C2'	-6.09	105.30	112.00
34	BA	783	U	C4'-C3'-C2'	6.09	108.69	102.60
34	BA	1211	G	O4'-C4'-C3'	6.09	110.97	106.10
34	BA	1330	G	C1'-O4'-C4'	-6.09	105.03	109.90
35	BB	148	C	N1-C2-O2	6.09	122.55	118.90
35	BB	482	A	O4'-C1'-N9	6.09	113.07	108.20
35	BB	569	G	C5-C6-N1	6.09	114.55	111.50
36	BC	104	A	C4'-C3'-C2'	-6.09	96.51	102.60
44	BK	94	PHE	CB-CA-C	-6.09	98.22	110.40
44	BK	153	ARG	NE-CZ-NH1	6.09	123.34	120.30
69	Bj	106	ARG	NE-CZ-NH1	6.09	123.34	120.30
85	AA	361	U	O4'-C4'-C3'	-6.09	97.91	104.00
85	AA	696	G	N1-C2-N2	6.09	121.68	116.20
85	AA	789	A	O4'-C4'-C3'	-6.09	97.91	104.00
85	AA	871	U	C4'-C3'-C2'	6.09	108.69	102.60
85	AA	879	G	O4'-C1'-N9	6.09	113.07	108.20
85	AA	984	A	C5'-C4'-O4'	6.09	116.41	109.10
85	AA	1241	A	C5-C6-N6	-6.09	118.83	123.70
85	AA	1671	G	C3'-C2'-C1'	-6.09	96.63	101.50
15	AG	50	ILE	CB-CA-C	-6.09	99.42	111.60
34	BA	1273	U	C5-C6-N1	-6.09	119.66	122.70
35	BB	470	C	N3-C2-O2	-6.09	117.64	121.90
35	BB	1051	U	N3-C2-O2	-6.09	117.94	122.20
36	BC	2	A	OP1-P-O3'	6.09	118.59	105.20
41	BH	17	A	O4'-C1'-N9	6.09	113.07	108.20
73	Bn	24	ARG	CA-CB-CG	6.09	126.79	113.40
35	BB	560	C	C2'-C3'-O3'	6.09	123.44	113.70
35	BB	661	G	C3'-C2'-C1'	-6.09	96.63	101.50
35	BB	838	G	O3'-P-O5'	6.09	115.57	104.00
35	BB	879	G	N3-C4-C5	-6.09	125.56	128.60
35	BB	1018	U	C5'-C4'-O4'	6.09	116.40	109.10
35	BB	1202	G	C5-C6-N1	6.09	114.54	111.50
35	BB	1323	U	C5'-C4'-C3'	-6.09	106.26	116.00
35	BB	1434	G	C8-N9-C4	6.09	108.83	106.40
79	Bt	16	ARG	NE-CZ-NH2	-6.09	117.26	120.30
81	Bv	63	SER	N-CA-CB	6.09	119.63	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	718	C	C3'-C2'-C1'	-6.09	96.63	101.50
85	AA	853	G	OP1-P-OP2	-6.09	110.47	119.60
85	AA	866	U	N1-C1'-C2'	-6.09	105.31	112.00
85	AA	1220	A	P-O3'-C3'	-6.09	112.40	119.70
85	AA	1481	U	O4'-C1'-N1	6.09	113.07	108.20
27	AT	97	ARG	CG-CD-NE	-6.08	99.02	111.80
34	BA	1107	A	C6-N1-C2	-6.08	114.95	118.60
60	Ba	59	ARG	CB-CA-C	6.08	122.57	110.40
85	AA	232	U	C4'-C3'-C2'	-6.08	96.52	102.60
85	AA	2219	G	P-O5'-C5'	-6.08	111.16	120.90
34	BA	651	U	C1'-O4'-C4'	-6.08	105.03	109.90
34	BA	688	G	C8-N9-C1'	6.08	134.91	127.00
34	BA	1663	U	C2-N3-C4	-6.08	123.35	127.00
35	BB	79	U	C1'-O4'-C4'	-6.08	105.03	109.90
35	BB	472	C	O4'-C1'-C2'	6.08	113.08	107.60
35	BB	662	G	C5-C6-N1	6.08	114.54	111.50
35	BB	1044	U	C6-N1-C2	-6.08	117.35	121.00
37	BD	57	C	C3'-C2'-C1'	-6.08	96.63	101.50
39	BF	15	U	C3'-C2'-C1'	-6.08	96.63	101.50
39	BF	44	C	C6-N1-C2	-6.08	117.87	120.30
39	BF	50	C	C6-N1-C2	-6.08	117.87	120.30
41	BH	24	U	O4'-C1'-C2'	-6.08	99.72	105.80
41	BH	106	G	C5-C6-N1	6.08	114.54	111.50
41	BH	122	U	C2-N1-C1'	6.08	125.00	117.70
62	Bc	88	SER	N-CA-C	6.08	127.42	111.00
63	Bd	14	ARG	N-CA-CB	-6.08	99.65	110.60
65	Bf	112	ASP	CA-CB-CG	-6.08	100.01	113.40
85	AA	166	C	O4'-C1'-N1	6.08	113.07	108.20
85	AA	597	A	C5'-C4'-O4'	6.08	116.40	109.10
85	AA	994	A	O4'-C1'-N9	6.08	113.07	108.20
85	AA	1809	G	P-O5'-C5'	6.08	130.63	120.90
85	AA	1955	U	O3'-P-O5'	6.08	115.56	104.00
19	AK	137	ARG	CD-NE-CZ	-6.08	115.09	123.60
34	BA	141	G	C5-N7-C8	-6.08	101.26	104.30
34	BA	482	C	C1'-O4'-C4'	6.08	114.77	109.90
34	BA	793	A	C4'-C3'-C2'	-6.08	96.52	102.60
34	BA	993	C	P-O3'-C3'	6.08	127.00	119.70
34	BA	1606	A	C5'-C4'-C3'	-6.08	106.27	116.00
35	BB	367	C	C1'-O4'-C4'	-6.08	105.03	109.90
35	BB	992	C	C6-N1-C2	-6.08	117.87	120.30
35	BB	1420	U	P-O3'-C3'	-6.08	112.40	119.70
65	Bf	167	ARG	NE-CZ-NH2	-6.08	117.26	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	42	G	O4'-C1'-N9	6.08	113.06	108.20
85	AA	178	U	C1'-O4'-C4'	-6.08	105.03	109.90
85	AA	600	C	P-O5'-C5'	6.08	130.63	120.90
85	AA	742	U	O5'-C5'-C4'	-6.08	100.14	111.70
85	AA	1257	A	C8-N9-C4	6.08	108.23	105.80
85	AA	1526	G	N7-C8-N9	6.08	116.14	113.10
85	AA	2008	G	N1-C2-N2	6.08	121.67	116.20
34	BA	1638	U	C2'-C3'-O3'	6.08	123.43	113.70
34	BA	1677	C	P-O3'-C3'	-6.08	112.40	119.70
35	BB	550	G	C4-N9-C1'	-6.08	118.59	126.50
35	BB	1097	U	C3'-C2'-C1'	-6.08	96.64	101.50
35	BB	1339	C	C5'-C4'-C3'	-6.08	106.27	116.00
55	BV	121	TYR	CB-CG-CD1	6.08	124.65	121.00
85	AA	479	C	C6-N1-C2	-6.08	117.87	120.30
85	AA	2005	U	P-O5'-C5'	-6.08	111.17	120.90
21	AM	15	ARG	NE-CZ-NH1	6.08	123.34	120.30
34	BA	952	G	N9-C1'-C2'	-6.08	105.31	112.00
34	BA	992	A	N1-C6-N6	-6.08	114.95	118.60
35	BB	743	C	N3-C4-N4	6.08	122.26	118.00
35	BB	1418	C	P-O5'-C5'	-6.08	111.17	120.90
35	BB	1530	U	N3-C2-O2	-6.08	117.95	122.20
38	BE	101	C	O4'-C1'-N1	6.08	113.06	108.20
40	BG	56	G	C5'-C4'-C3'	-6.08	106.28	116.00
71	Bl	62	ARG	NE-CZ-NH2	-6.08	117.26	120.30
75	Bp	36	VAL	CB-CA-C	-6.08	99.85	111.40
85	AA	130	G	C4-N9-C1'	-6.08	118.60	126.50
85	AA	1281	G	N7-C8-N9	-6.08	110.06	113.10
85	AA	1366	A	C4'-C3'-C2'	-6.08	96.52	102.60
85	AA	1610	G	C5'-C4'-C3'	-6.08	106.27	116.00
85	AA	2102	A	C8-N9-C4	6.08	108.23	105.80
85	AA	2118	U	O3'-P-O5'	6.08	115.55	104.00
86	AB	8	U	O3'-P-O5'	-6.08	92.45	104.00
34	BA	570	G	C5'-C4'-C3'	-6.08	106.28	116.00
34	BA	807	U	C3'-C2'-C1'	-6.08	96.64	101.50
34	BA	1085	G	C4'-C3'-C2'	-6.08	96.52	102.60
35	BB	846	A	C4'-C3'-C2'	-6.08	96.52	102.60
35	BB	1462	G	C5'-C4'-C3'	6.08	125.72	116.00
38	BE	177	U	C5-C4-O4	6.08	129.55	125.90
41	BH	45	G	N9-C1'-C2'	-6.08	105.32	112.00
85	AA	212	G	O4'-C1'-N9	6.08	113.06	108.20
85	AA	2161	C	C6-N1-C1'	6.08	128.09	120.80
34	BA	18	G	C8-N9-C1'	6.08	134.90	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	514	U	C4'-C3'-C2'	6.08	108.67	102.60
34	BA	983	A	C5-C6-N6	-6.08	118.84	123.70
34	BA	1135	U	C6-N1-C1'	6.08	129.71	121.20
35	BB	103	C	P-O3'-C3'	-6.08	112.41	119.70
35	BB	540	G	P-O5'-C5'	-6.08	111.18	120.90
35	BB	1408	G	N1-C6-O6	6.08	123.55	119.90
35	BB	1458	U	OP2-P-O3'	6.08	118.57	105.20
41	BH	114	G	O4'-C1'-C2'	6.08	113.07	107.60
44	BK	139	ARG	NE-CZ-NH2	-6.08	117.26	120.30
54	BU	7	TYR	CA-CB-CG	6.08	124.94	113.40
85	AA	70	U	O4'-C1'-N1	6.08	113.06	108.20
85	AA	245	A	C8-N9-C1'	6.08	138.64	127.70
85	AA	258	G	C5-C6-O6	-6.08	124.95	128.60
85	AA	384	C	C5'-C4'-C3'	-6.08	106.28	116.00
85	AA	1548	A	C3'-C2'-C1'	-6.08	96.64	101.50
5	A4	190	PHE	CB-CG-CD2	-6.07	116.55	120.80
34	BA	300	C	N3-C4-N4	-6.07	113.75	118.00
34	BA	423	G	P-O5'-C5'	-6.07	111.18	120.90
34	BA	470	C	N3-C4-N4	-6.07	113.75	118.00
34	BA	1551	G	O4'-C1'-N9	6.07	113.06	108.20
34	BA	1607	U	C3'-C2'-C1'	-6.07	96.64	101.50
35	BB	378	C	C5'-C4'-O4'	6.07	116.39	109.10
35	BB	1199	A	C8-N9-C4	6.07	108.23	105.80
35	BB	1385	C	C3'-C2'-C1'	-6.07	96.64	101.50
35	BB	1393	C	O3'-P-O5'	-6.07	92.46	104.00
37	BD	11	A	C4-C5-C6	-6.07	113.96	117.00
37	BD	85	C	C4'-C3'-C2'	6.07	108.67	102.60
38	BE	32	U	C4'-C3'-O3'	-6.07	96.65	109.40
42	BI	106	ARG	NE-CZ-NH1	6.07	123.34	120.30
60	Ba	84	TYR	CB-CG-CD2	-6.07	117.36	121.00
69	Bj	114	VAL	CA-C-N	6.07	130.56	117.20
75	Bp	25	VAL	CA-CB-CG2	-6.07	101.79	110.90
85	AA	473	C	O3'-P-O5'	6.07	115.54	104.00
85	AA	1288	A	C1'-O4'-C4'	-6.07	105.04	109.90
85	AA	1488	G	P-O5'-C5'	-6.07	111.18	120.90
85	AA	1803	U	C5'-C4'-O4'	6.07	116.39	109.10
85	AA	1897	A	C5-C6-N1	6.07	120.74	117.70
86	AB	15	G	P-O3'-C3'	6.07	126.99	119.70
5	A4	102	ARG	NE-CZ-NH1	6.07	123.34	120.30
25	AR	62	TYR	CA-CB-CG	-6.07	101.86	113.40
34	BA	1499	A	C5-C6-N1	6.07	120.74	117.70
82	Bw	192	ASP	CA-CB-CG	-6.07	100.04	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	866	U	O4'-C4'-C3'	-6.07	97.93	104.00
85	AA	1140	G	O5'-C5'-C4'	6.07	123.24	111.70
85	AA	1835	U	C2-N3-C4	-6.07	123.36	127.00
6	A5	160	ARG	NE-CZ-NH1	6.07	123.33	120.30
24	AQ	64	LYS	C-N-CA	6.07	136.87	121.70
34	BA	473	A	P-O3'-C3'	-6.07	112.42	119.70
34	BA	661	C	C3'-C2'-C1'	-6.07	96.64	101.50
34	BA	882	G	C6-N1-C2	-6.07	121.46	125.10
34	BA	1127	U	C5-C4-O4	-6.07	122.26	125.90
35	BB	7	C	C2-N1-C1'	-6.07	112.12	118.80
35	BB	505	G	C5-C6-N1	6.07	114.54	111.50
35	BB	619	A	C4-N9-C1'	-6.07	115.37	126.30
35	BB	857	G	C8-N9-C1'	6.07	134.89	127.00
35	BB	858	U	C3'-C2'-C1'	-6.07	96.64	101.50
35	BB	1003	G	C8-N9-C4	-6.07	103.97	106.40
35	BB	1157	G	C8-N9-C1'	6.07	134.89	127.00
35	BB	1387	C	C6-N1-C2	-6.07	117.87	120.30
39	BF	30	C	C6-N1-C2	6.07	122.73	120.30
40	BG	15	G	C3'-C2'-C1'	-6.07	96.64	101.50
40	BG	98	A	C1'-O4'-C4'	-6.07	105.04	109.90
85	AA	83	U	O5'-P-OP1	6.07	117.98	110.70
85	AA	157	G	P-O5'-C5'	-6.07	111.19	120.90
85	AA	349	C	P-O3'-C3'	-6.07	112.42	119.70
85	AA	1728	G	O4'-C1'-N9	6.07	113.06	108.20
85	AA	1907	U	O4'-C1'-N1	6.07	113.06	108.20
85	AA	1937	G	C8-N9-C1'	6.07	134.89	127.00
85	AA	1983	C	O4'-C1'-N1	6.07	113.06	108.20
85	AA	2061	C	P-O5'-C5'	-6.07	111.19	120.90
34	BA	862	C	N3-C4-C5	6.07	124.33	121.90
34	BA	1344	G	N3-C2-N2	6.07	124.15	119.90
34	BA	1401	C	C6-N1-C2	-6.07	117.87	120.30
34	BA	1803	A	N9-C1'-C2'	-6.07	105.32	112.00
35	BB	694	C	C5-C4-N4	6.07	124.45	120.20
36	BC	67	U	C6-N1-C1'	6.07	129.70	121.20
39	BF	5	U	C1'-O4'-C4'	-6.07	105.05	109.90
85	AA	224	C	O4'-C1'-N1	6.07	113.06	108.20
85	AA	400	G	OP1-P-OP2	-6.07	110.50	119.60
85	AA	1201	A	N9-C1'-C2'	-6.07	105.32	112.00
85	AA	1897	A	C8-N9-C4	-6.07	103.37	105.80
34	BA	397	A	C8-N9-C4	6.07	108.23	105.80
34	BA	687	G	N3-C4-C5	-6.07	125.57	128.60
34	BA	700	G	C6-N1-C2	-6.07	121.46	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	891	C	O4'-C1'-N1	6.07	113.05	108.20
34	BA	1099	U	C1'-O4'-C4'	-6.07	105.05	109.90
34	BA	1738	G	N9-C1'-C2'	-6.07	105.33	112.00
35	BB	818	U	C5'-C4'-C3'	-6.07	106.29	116.00
38	BE	193	A	N1-C6-N6	6.07	122.24	118.60
40	BG	105	A	C8-N9-C4	6.07	108.23	105.80
41	BH	127	A	C5'-C4'-C3'	6.07	125.71	116.00
48	BO	136	ARG	NH1-CZ-NH2	-6.07	112.73	119.40
63	Bd	61	GLU	CG-CD-OE2	-6.07	106.17	118.30
85	AA	158	C	O4'-C1'-C2'	6.07	113.06	107.60
85	AA	196	U	C4'-C3'-C2'	-6.07	96.53	102.60
85	AA	456	A	N7-C8-N9	-6.07	110.77	113.80
85	AA	666	A	P-O3'-C3'	-6.07	112.42	119.70
85	AA	1010	U	C2-N3-C4	-6.07	123.36	127.00
85	AA	1237	A	O4'-C4'-C3'	-6.07	97.93	104.00
85	AA	1961	U	C5'-C4'-C3'	-6.07	106.29	116.00
85	AA	2108	C	P-O3'-C3'	-6.07	112.42	119.70
85	AA	2112	G	C1'-O4'-C4'	-6.07	105.05	109.90
20	AL	5	ARG	NE-CZ-NH1	6.07	123.33	120.30
32	AY	3	LYS	C-N-CA	6.07	136.86	121.70
34	BA	53	G	O4'-C1'-C2'	6.07	113.06	107.60
34	BA	608	G	C3'-C2'-C1'	6.07	106.35	101.50
34	BA	958	G	P-O3'-C3'	6.07	126.98	119.70
34	BA	1309	U	O5'-C5'-C4'	6.07	123.23	111.70
34	BA	1384	G	C5-C6-O6	-6.07	124.96	128.60
35	BB	391	G	O5'-P-OP2	-6.07	100.24	105.70
35	BB	670	G	P-O5'-C5'	6.07	130.60	120.90
35	BB	691	A	P-O3'-C3'	-6.07	112.42	119.70
35	BB	812	G	C5-C6-N1	6.07	114.53	111.50
35	BB	851	U	C4'-C3'-C2'	-6.07	96.53	102.60
35	BB	995	C	C5'-C4'-O4'	6.07	116.38	109.10
35	BB	1077	C	C5-C4-N4	6.07	124.44	120.20
39	BF	16	C	C6-N1-C1'	-6.07	113.52	120.80
67	Bh	66	ARG	NE-CZ-NH1	6.07	123.33	120.30
75	Bp	63	SER	N-CA-CB	-6.07	101.40	110.50
77	Br	27	PHE	CB-CG-CD2	-6.07	116.56	120.80
77	Br	184	ASP	CB-CG-OD1	6.07	123.76	118.30
85	AA	838	G	N9-C1'-C2'	-6.07	105.33	112.00
85	AA	2198	G	C4'-C3'-C2'	-6.07	96.53	102.60
86	AB	42	C	C5'-C4'-C3'	-6.07	106.29	116.00
86	AB	67	C	P-O5'-C5'	-6.07	111.20	120.90
34	BA	1820	G	O4'-C1'-C2'	6.06	113.06	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	116	C	C6-N1-C2	-6.06	117.88	120.30
85	AA	114	C	C4'-C3'-C2'	-6.06	96.54	102.60
85	AA	341	C	O5'-C5'-C4'	-6.06	100.18	111.70
85	AA	673	A	C5-C6-N6	6.06	128.55	123.70
18	AJ	76	CYS	CB-CA-C	-6.06	98.28	110.40
23	AP	261	ARG	N-CA-C	-6.06	94.63	111.00
34	BA	90	G	P-O3'-C3'	6.06	126.97	119.70
34	BA	581	U	N1-C1'-C2'	6.06	121.88	114.00
35	BB	22	A	C4-N9-C1'	-6.06	115.39	126.30
35	BB	73	G	P-O5'-C5'	-6.06	111.20	120.90
35	BB	79	U	C2-N1-C1'	-6.06	110.42	117.70
35	BB	493	U	N3-C2-O2	-6.06	117.96	122.20
38	BE	30	C	C4-C5-C6	-6.06	114.37	117.40
38	BE	48	G	N3-C4-C5	-6.06	125.57	128.60
38	BE	118	C	P-O3'-C3'	6.06	126.97	119.70
39	BF	48	G	C5'-C4'-O4'	6.06	116.37	109.10
85	AA	23	G	C8-N9-C4	-6.06	103.97	106.40
85	AA	357	C	C3'-C2'-C1'	6.06	106.35	101.50
85	AA	571	G	O4'-C4'-C3'	-6.06	97.94	104.00
85	AA	713	G	C8-N9-C1'	-6.06	119.12	127.00
85	AA	723	U	O5'-C5'-C4'	-6.06	100.18	111.70
85	AA	781	G	N9-C1'-C2'	-6.06	105.33	112.00
85	AA	960	G	N1-C6-O6	6.06	123.54	119.90
85	AA	975	G	N1-C2-N2	-6.06	110.74	116.20
85	AA	1398	U	O4'-C1'-N1	6.06	113.05	108.20
85	AA	1558	U	C4'-C3'-C2'	6.06	108.66	102.60
85	AA	2039	G	C5'-C4'-C3'	-6.06	106.30	116.00
34	BA	216	C	C2-N1-C1'	-6.06	112.13	118.80
34	BA	1108	U	C3'-C2'-C1'	-6.06	96.65	101.50
35	BB	730	G	P-O3'-C3'	-6.06	112.43	119.70
36	BC	69	U	C2-N3-C4	-6.06	123.36	127.00
38	BE	112	G	C3'-C2'-C1'	-6.06	96.65	101.50
85	AA	1983	C	OP1-P-OP2	-6.06	110.51	119.60
85	AA	2083	G	C1'-O4'-C4'	6.06	114.75	109.90
34	BA	28	C	N3-C2-O2	-6.06	117.66	121.90
34	BA	299	C	C2-N3-C4	-6.06	116.87	119.90
34	BA	586	G	C5-C6-O6	-6.06	124.96	128.60
34	BA	769	U	C2'-C3'-O3'	6.06	123.39	113.70
34	BA	815	C	O4'-C4'-C3'	-6.06	97.94	104.00
34	BA	1191	C	N1-C1'-C2'	-6.06	105.33	112.00
35	BB	392	G	N3-C2-N2	6.06	124.14	119.90
35	BB	395	U	P-O3'-C3'	-6.06	112.43	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	783	U	O4'-C1'-N1	6.06	113.05	108.20
35	BB	1213	U	C6-N1-C2	-6.06	117.36	121.00
37	BD	61	C	O4'-C1'-N1	6.06	113.05	108.20
38	BE	195	G	C8-N9-C4	-6.06	103.98	106.40
82	Bw	172	ASN	N-CA-CB	6.06	121.51	110.60
85	AA	77	C	C4'-C3'-C2'	-6.06	96.54	102.60
85	AA	189	G	C5'-C4'-C3'	-6.06	106.30	116.00
85	AA	268	A	O4'-C4'-C3'	-6.06	97.94	104.00
85	AA	569	A	N9-C4-C5	6.06	108.22	105.80
85	AA	572	G	C5'-C4'-C3'	-6.06	106.31	116.00
85	AA	1825	A	O4'-C1'-N9	6.06	113.05	108.20
33	AZ	101	ARG	NE-CZ-NH1	6.06	123.33	120.30
34	BA	1220	C	N3-C4-C5	6.06	124.32	121.90
34	BA	1404	A	C5'-C4'-C3'	-6.06	106.31	116.00
35	BB	112	G	C2-N3-C4	6.06	114.93	111.90
35	BB	375	G	C8-N9-C4	6.06	108.82	106.40
35	BB	542	A	C5-C6-N6	-6.06	118.85	123.70
35	BB	577	U	C5-C6-N1	-6.06	119.67	122.70
35	BB	696	G	C3'-C2'-C1'	-6.06	96.65	101.50
35	BB	904	C	C5'-C4'-C3'	6.06	125.69	116.00
65	Bf	288	ARG	NE-CZ-NH1	6.06	123.33	120.30
85	AA	200	U	P-O3'-C3'	-6.06	112.43	119.70
85	AA	535	G	P-O3'-C3'	-6.06	112.43	119.70
85	AA	574	U	C6-N1-C2	-6.06	117.37	121.00
85	AA	1125	G	N7-C8-N9	-6.06	110.07	113.10
85	AA	1899	A	C5-C6-N6	-6.06	118.86	123.70
85	AA	2001	C	N1-C1'-C2'	6.06	121.88	114.00
34	BA	108	A	N9-C1'-C2'	-6.06	105.34	112.00
35	BB	855	G	C4-N9-C1'	-6.06	118.63	126.50
35	BB	1473	U	C2-N3-C4	-6.06	123.37	127.00
80	Bu	251	ARG	NE-CZ-NH1	6.06	123.33	120.30
85	AA	201	U	C5'-C4'-C3'	-6.06	106.31	116.00
85	AA	766	G	O4'-C1'-N9	6.06	113.05	108.20
85	AA	829	C	P-O3'-C3'	6.06	126.97	119.70
85	AA	1943	U	P-O3'-C3'	6.06	126.97	119.70
34	BA	813	C	N1-C2-N3	6.05	123.44	119.20
34	BA	933	U	C6-N1-C1'	6.05	129.68	121.20
34	BA	1101	A	C5'-C4'-C3'	-6.05	106.31	116.00
34	BA	1300	G	C6-N1-C2	-6.05	121.47	125.10
35	BB	1098	G	C4-N9-C1'	-6.05	118.63	126.50
37	BD	35	C	O5'-C5'-C4'	-6.05	100.19	111.70
85	AA	474	C	C6-N1-C2	-6.05	117.88	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	655	U	C5'-C4'-C3'	-6.05	106.31	116.00
85	AA	787	U	OP2-P-O3'	6.05	118.52	105.20
85	AA	1094	G	C4-N9-C1'	-6.05	118.63	126.50
85	AA	1156	A	O4'-C1'-N9	6.05	113.04	108.20
85	AA	1311	U	P-O3'-C3'	-6.05	112.44	119.70
85	AA	1967	A	C4'-C3'-C2'	6.05	108.66	102.60
34	BA	445	C	O4'-C1'-N1	6.05	113.04	108.20
34	BA	1353	U	C2-N1-C1'	6.05	124.96	117.70
34	BA	1571	C	C2-N3-C4	-6.05	116.87	119.90
35	BB	835	C	C5'-C4'-C3'	-6.05	106.32	116.00
35	BB	1123	A	N1-C6-N6	-6.05	114.97	118.60
35	BB	1482	A	C5'-C4'-O4'	6.05	116.36	109.10
85	AA	69	C	C1'-O4'-C4'	-6.05	105.06	109.90
34	BA	1	C	N3-C4-C5	-6.05	119.48	121.90
34	BA	458	G	C1'-O4'-C4'	-6.05	105.06	109.90
34	BA	818	G	C1'-O4'-C4'	-6.05	105.06	109.90
34	BA	1566	G	C4-N9-C1'	-6.05	118.63	126.50
34	BA	1696	G	N3-C2-N2	6.05	124.14	119.90
34	BA	1747	C	O4'-C1'-N1	6.05	113.04	108.20
35	BB	1000	U	C3'-C2'-C1'	-6.05	96.66	101.50
35	BB	1517	G	C2-N3-C4	-6.05	108.87	111.90
37	BD	91	U	C6-N1-C1'	6.05	129.67	121.20
41	BH	98	U	O4'-C1'-N1	6.05	113.04	108.20
68	Bi	46	ARG	NE-CZ-NH1	6.05	123.33	120.30
82	Bw	42	LYS	N-CA-C	-6.05	94.66	111.00
85	AA	76	G	C4-N9-C1'	-6.05	118.63	126.50
85	AA	1094	G	C4'-C3'-C2'	-6.05	96.55	102.60
85	AA	1277	C	C1'-O4'-C4'	-6.05	105.06	109.90
85	AA	2093	U	P-O3'-C3'	-6.05	112.44	119.70
85	AA	2229	G	C8-N9-C4	-6.05	103.98	106.40
34	BA	1472	G	C4'-C3'-C2'	6.05	108.65	102.60
34	BA	1516	G	C5'-C4'-O4'	6.05	116.36	109.10
34	BA	1727	A	N1-C6-N6	-6.05	114.97	118.60
35	BB	610	U	N1-C2-N3	6.05	118.53	114.90
35	BB	1400	C	C4'-C3'-C2'	6.05	108.65	102.60
36	BC	151	G	C8-N9-C1'	6.05	134.87	127.00
37	BD	18	G	C5-C6-O6	-6.05	124.97	128.60
40	BG	26	G	C4-N9-C1'	-6.05	118.64	126.50
41	BH	86	G	O4'-C1'-N9	6.05	113.04	108.20
59	BZ	37	ARG	NE-CZ-NH2	-6.05	117.28	120.30
83	Bx	47	PHE	N-CA-CB	-6.05	99.71	110.60
85	AA	257	U	P-O5'-C5'	-6.05	111.22	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	355	G	P-O5'-C5'	-6.05	111.22	120.90
85	AA	2030	U	C5'-C4'-C3'	-6.05	106.32	116.00
7	A6	33	TYR	CA-CB-CG	-6.05	101.91	113.40
34	BA	180	G	C4-N9-C1'	6.05	134.36	126.50
34	BA	188	C	C4'-C3'-C2'	-6.05	96.55	102.60
34	BA	541	C	N3-C2-O2	-6.05	117.67	121.90
35	BB	139	G	C8-N9-C1'	6.05	134.86	127.00
35	BB	428	G	C6-N1-C2	-6.05	121.47	125.10
35	BB	508	U	C6-N1-C2	-6.05	117.37	121.00
35	BB	626	C	O4'-C1'-N1	6.05	113.04	108.20
85	AA	1579	A	O4'-C1'-N9	6.05	113.04	108.20
85	AA	2150	G	P-O5'-C5'	6.05	130.58	120.90
3	A2	72	LYS	N-CA-CB	-6.05	99.72	110.60
34	BA	721	A	C6-N1-C2	-6.05	114.97	118.60
34	BA	1330	G	C8-N9-C1'	6.05	134.86	127.00
35	BB	164	U	O4'-C1'-N1	6.05	113.04	108.20
37	BD	110	G	C3'-C2'-C1'	-6.05	96.66	101.50
40	BG	43	U	C3'-C2'-C1'	-6.05	96.66	101.50
85	AA	314	C	C5-C6-N1	6.05	124.02	121.00
85	AA	702	G	C4-N9-C1'	-6.05	118.64	126.50
85	AA	739	C	C3'-C2'-C1'	-6.05	96.66	101.50
85	AA	767	A	O3'-P-O5'	-6.05	92.51	104.00
85	AA	1302	A	C5-C6-N6	-6.05	118.86	123.70
34	BA	254	U	N1-C2-N3	-6.04	111.27	114.90
34	BA	539	C	P-O3'-C3'	-6.04	112.45	119.70
34	BA	1396	A	C4'-C3'-C2'	-6.04	96.56	102.60
34	BA	1478	G	P-O5'-C5'	6.04	130.57	120.90
34	BA	1532	G	N1-C6-O6	-6.04	116.27	119.90
34	BA	1697	U	C6-N1-C2	-6.04	117.37	121.00
35	BB	445	G	O4'-C1'-N9	6.04	113.04	108.20
35	BB	1529	G	O4'-C1'-N9	6.04	113.04	108.20
40	BG	176	G	O5'-C5'-C4'	-6.04	100.21	111.70
85	AA	410	A	N1-C6-N6	-6.04	114.97	118.60
85	AA	633	C	N1-C2-O2	6.04	122.53	118.90
85	AA	1018	G	P-O3'-C3'	-6.04	112.45	119.70
85	AA	1635	C	O4'-C1'-N1	6.04	113.04	108.20
35	BB	718	G	O4'-C1'-N9	6.04	113.03	108.20
35	BB	1064	U	C2-N1-C1'	6.04	124.95	117.70
35	BB	1071	G	C4-N9-C1'	-6.04	118.64	126.50
38	BE	150	G	C5'-C4'-C3'	-6.04	106.33	116.00
64	Be	156	LYS	N-CA-C	-6.04	94.68	111.00
85	AA	586	G	O4'-C1'-N9	6.04	113.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	730	G	P-O3'-C3'	-6.04	112.45	119.70
85	AA	1129	A	P-O3'-C3'	6.04	126.95	119.70
85	AA	1375	U	P-O5'-C5'	-6.04	111.23	120.90
85	AA	1444	U	C2-N1-C1'	-6.04	110.45	117.70
85	AA	1934	A	N1-C6-N6	6.04	122.23	118.60
86	AB	48	C	N3-C2-O2	-6.04	117.67	121.90
7	A6	176	ARG	CB-CA-C	-6.04	98.32	110.40
34	BA	589	A	O3'-P-O5'	-6.04	92.52	104.00
34	BA	1215	U	C5'-C4'-C3'	-6.04	106.33	116.00
34	BA	1579	G	N3-C4-C5	-6.04	125.58	128.60
35	BB	371	C	P-O3'-C3'	6.04	126.95	119.70
35	BB	573	C	O4'-C1'-N1	6.04	113.03	108.20
35	BB	722	U	P-O5'-C5'	6.04	130.57	120.90
35	BB	1148	U	O5'-C5'-C4'	-6.04	100.22	111.70
35	BB	1179	C	O4'-C1'-N1	6.04	113.03	108.20
85	AA	159	G	C4'-C3'-C2'	6.04	108.64	102.60
85	AA	244	G	C4-N9-C1'	-6.04	118.65	126.50
85	AA	366	A	C5'-C4'-C3'	-6.04	106.33	116.00
85	AA	719	C	N3-C2-O2	-6.04	117.67	121.90
85	AA	1917	G	P-O5'-C5'	-6.04	111.23	120.90
34	BA	909	G	C4-N9-C1'	-6.04	118.65	126.50
34	BA	1333	G	C1'-O4'-C4'	-6.04	105.07	109.90
36	BC	145	G	C5'-C4'-O4'	6.04	116.35	109.10
38	BE	17	U	P-O3'-C3'	6.04	126.95	119.70
49	BP	8	ARG	CD-NE-CZ	-6.04	115.14	123.60
57	BX	156	ASP	CB-CG-OD2	6.04	123.74	118.30
85	AA	318	A	N1-C6-N6	-6.04	114.98	118.60
85	AA	367	A	N9-C4-C5	6.04	108.22	105.80
85	AA	1483	A	N7-C8-N9	-6.04	110.78	113.80
5	A4	127	PHE	CB-CG-CD2	-6.04	116.57	120.80
34	BA	791	A	C3'-C2'-C1'	-6.04	96.67	101.50
34	BA	934	G	N3-C2-N2	-6.04	115.67	119.90
34	BA	1609	U	N1-C2-N3	6.04	118.52	114.90
34	BA	1675	C	C3'-C2'-C1'	-6.04	96.67	101.50
35	BB	264	U	O4'-C1'-N1	6.04	113.03	108.20
35	BB	824	C	P-O5'-C5'	-6.04	111.24	120.90
35	BB	1484	A	P-O5'-C5'	6.04	130.56	120.90
37	BD	69	U	C5-C4-O4	-6.04	122.28	125.90
40	BG	106	G	O4'-C1'-C2'	-6.04	99.76	105.80
41	BH	111	U	C4'-C3'-C2'	-6.04	96.56	102.60
41	BH	118	U	C2'-C3'-O3'	6.04	123.36	113.70
41	BH	135	U	N1-C2-N3	6.04	118.52	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1154	A	C3'-C2'-C1'	6.04	106.33	101.50
85	AA	2002	A	C8-N9-C1'	-6.04	116.83	127.70
85	AA	2168	C	C1'-O4'-C4'	-6.04	105.07	109.90
12	AD	81	ASN	CA-CB-CG	-6.04	100.12	113.40
34	BA	928	C	O4'-C1'-N1	6.04	113.03	108.20
38	BE	105	A	O5'-P-OP2	-6.04	100.27	105.70
40	BG	75	C	C5-C4-N4	-6.04	115.97	120.20
85	AA	250	C	C5'-C4'-C3'	6.04	125.66	116.00
85	AA	396	U	N3-C2-O2	-6.04	117.97	122.20
85	AA	1027	U	O4'-C1'-N1	6.04	113.03	108.20
85	AA	2042	G	C4-N9-C1'	-6.04	118.65	126.50
34	BA	183	G	N3-C2-N2	6.04	124.12	119.90
34	BA	1101	A	N1-C6-N6	-6.04	114.98	118.60
34	BA	1732	A	P-O3'-C3'	-6.04	112.46	119.70
35	BB	33	A	C8-N9-C4	6.04	108.21	105.80
35	BB	109	U	C2-N1-C1'	-6.04	110.46	117.70
35	BB	540	G	C2-N3-C4	-6.04	108.88	111.90
35	BB	1029	U	C4'-C3'-C2'	6.04	108.64	102.60
37	BD	29	C	P-O3'-C3'	-6.04	112.46	119.70
40	BG	152	G	C5-C6-O6	6.04	132.22	128.60
85	AA	17	C	C4'-C3'-C2'	-6.04	96.56	102.60
85	AA	478	U	C5'-C4'-O4'	6.04	116.34	109.10
85	AA	620	U	C3'-C2'-C1'	-6.04	96.67	101.50
85	AA	1684	U	O4'-C4'-C3'	-6.04	97.96	104.00
34	BA	10	G	C3'-C2'-C1'	-6.03	96.67	101.50
34	BA	89	G	OP2-P-O3'	6.03	118.47	105.20
34	BA	118	C	C5-C4-N4	6.03	124.42	120.20
34	BA	248	G	C3'-C2'-C1'	-6.03	96.67	101.50
34	BA	759	A	C5-N7-C8	-6.03	100.88	103.90
35	BB	154	A	N1-C6-N6	6.03	122.22	118.60
35	BB	473	U	C5'-C4'-C3'	-6.03	106.34	116.00
35	BB	514	G	C4-N9-C1'	-6.03	118.66	126.50
35	BB	1202	G	N3-C4-C5	-6.03	125.58	128.60
54	BU	77	ASN	CA-CB-CG	-6.03	100.13	113.40
85	AA	963	U	C4-C5-C6	-6.03	116.08	119.70
85	AA	1858	G	C4-N9-C1'	-6.03	118.66	126.50
85	AA	1923	A	OP1-P-OP2	-6.03	110.55	119.60
85	AA	2075	C	O4'-C1'-C2'	6.03	113.03	107.60
34	BA	294	C	C4'-C3'-C2'	6.03	108.63	102.60
34	BA	407	A	C8-N9-C4	-6.03	103.39	105.80
34	BA	1470	G	C4-N9-C1'	-6.03	118.66	126.50
34	BA	1611	A	O4'-C1'-N9	6.03	113.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1826	C	N3-C4-C5	6.03	124.31	121.90
35	BB	134	G	N1-C2-N2	-6.03	110.77	116.20
35	BB	587	A	C5'-C4'-C3'	6.03	125.65	116.00
38	BE	13	A	P-O3'-C3'	6.03	126.94	119.70
38	BE	127	G	C4-C5-C6	-6.03	115.18	118.80
40	BG	149	U	O4'-C1'-N1	6.03	113.03	108.20
70	Bk	77	LYS	N-CA-C	-6.03	94.71	111.00
85	AA	527	A	C1'-O4'-C4'	-6.03	105.07	109.90
34	BA	56	G	C3'-C2'-C1'	-6.03	96.67	101.50
34	BA	301	U	N3-C2-O2	-6.03	117.98	122.20
34	BA	581	U	C2'-C3'-O3'	6.03	123.35	113.70
34	BA	739	A	C5'-C4'-C3'	6.03	125.65	116.00
34	BA	950	C	O4'-C1'-N1	6.03	113.02	108.20
34	BA	1469	G	N1-C6-O6	6.03	123.52	119.90
34	BA	1712	U	C5-C4-O4	-6.03	122.28	125.90
34	BA	1765	G	O4'-C1'-N9	6.03	113.03	108.20
35	BB	64	U	P-O3'-C3'	-6.03	112.46	119.70
35	BB	320	G	O4'-C1'-N9	6.03	113.02	108.20
35	BB	822	G	C3'-C2'-C1'	-6.03	96.68	101.50
35	BB	1491	G	N9-C1'-C2'	-6.03	105.37	112.00
38	BE	87	U	C4'-C3'-C2'	-6.03	96.57	102.60
40	BG	38	A	O4'-C1'-C2'	6.03	113.03	107.60
57	BX	87	TYR	CB-CG-CD2	6.03	124.62	121.00
58	BY	70	ARG	NE-CZ-NH2	-6.03	117.28	120.30
85	AA	15	U	N1-C2-N3	6.03	118.52	114.90
85	AA	441	C	C1'-O4'-C4'	-6.03	105.08	109.90
85	AA	472	A	C4-N9-C1'	-6.03	115.45	126.30
85	AA	986	U	C2-N3-C4	-6.03	123.38	127.00
34	BA	1232	C	C1'-O4'-C4'	-6.03	105.08	109.90
34	BA	1451	A	O4'-C1'-N9	6.03	113.02	108.20
35	BB	1493	A	C8-N9-C1'	6.03	138.55	127.70
38	BE	94	U	N3-C4-C5	6.03	118.22	114.60
41	BH	10	U	N3-C4-O4	-6.03	115.18	119.40
85	AA	613	G	C4'-C3'-C2'	-6.03	96.57	102.60
85	AA	1592	C	C5-C6-N1	6.03	124.01	121.00
34	BA	640	U	C6-N1-C1'	-6.03	112.76	121.20
34	BA	756	A	C5'-C4'-O4'	-6.03	101.87	109.10
35	BB	337	U	P-O5'-C5'	6.03	130.54	120.90
35	BB	1292	G	C6-N1-C2	-6.03	121.48	125.10
35	BB	1440	A	P-O3'-C3'	-6.03	112.47	119.70
35	BB	1463	A	C4-N9-C1'	6.03	137.15	126.30
38	BE	14	C	O3'-P-O5'	-6.03	92.55	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BN	33	GLN	CA-C-N	6.03	133.98	117.10
85	AA	71	G	P-O3'-C3'	6.03	126.93	119.70
85	AA	209	C	P-O5'-C5'	-6.03	111.25	120.90
85	AA	583	U	P-O3'-C3'	-6.03	112.47	119.70
85	AA	1113	G	O4'-C1'-N9	6.03	113.02	108.20
85	AA	1293	U	O4'-C4'-C3'	-6.03	97.97	104.00
85	AA	2115	G	C5-C6-O6	-6.03	124.98	128.60
34	BA	307	C	N1-C1'-C2'	-6.03	105.37	112.00
34	BA	649	A	C5'-C4'-C3'	-6.03	106.36	116.00
34	BA	683	C	C4-C5-C6	6.03	120.41	117.40
34	BA	1631	U	O5'-C5'-C4'	6.03	123.15	111.70
35	BB	751	A	C5-C6-N6	6.03	128.52	123.70
35	BB	1363	A	C4-N9-C1'	-6.03	115.45	126.30
35	BB	1537	C	P-O3'-C3'	-6.03	112.47	119.70
37	BD	19	C	C4'-C3'-C2'	-6.03	96.57	102.60
37	BD	59	G	C4-N9-C1'	-6.03	118.67	126.50
40	BG	30	C	C6-N1-C1'	6.03	128.03	120.80
41	BH	58	C	N3-C2-O2	-6.03	117.68	121.90
85	AA	357	C	N3-C4-N4	6.03	122.22	118.00
85	AA	837	C	O4'-C1'-N1	6.03	113.02	108.20
85	AA	1082	U	C2-N1-C1'	6.03	124.93	117.70
85	AA	1874	G	C5'-C4'-O4'	6.03	116.33	109.10
34	BA	1165	A	C8-N9-C1'	6.02	138.54	127.70
85	AA	36	U	C2-N1-C1'	-6.02	110.47	117.70
85	AA	75	U	P-O5'-C5'	6.02	130.54	120.90
85	AA	605	A	N9-C1'-C2'	-6.02	105.37	112.00
85	AA	1929	G	C4-N9-C1'	-6.02	118.67	126.50
85	AA	2162	G	C8-N9-C1'	6.02	134.83	127.00
13	AE	145	ARG	NE-CZ-NH1	6.02	123.31	120.30
34	BA	155	U	C2-N3-C4	-6.02	123.39	127.00
34	BA	318	U	P-O3'-C3'	-6.02	112.47	119.70
34	BA	1258	G	O4'-C1'-N9	6.02	113.02	108.20
34	BA	1413	G	C5-C6-N1	6.02	114.51	111.50
35	BB	430	A	C8-N9-C4	6.02	108.21	105.80
35	BB	839	G	N9-C4-C5	6.02	107.81	105.40
35	BB	913	C	O4'-C1'-N1	6.02	113.02	108.20
35	BB	1434	G	N9-C4-C5	-6.02	102.99	105.40
36	BC	139	A	P-O5'-C5'	-6.02	111.27	120.90
38	BE	180	G	N3-C2-N2	-6.02	115.68	119.90
40	BG	172	C	P-O3'-C3'	-6.02	112.47	119.70
41	BH	48	G	OP1-P-O3'	6.02	118.45	105.20
85	AA	335	G	C1'-O4'-C4'	-6.02	105.08	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1996	A	C2-N3-C4	-6.02	107.59	110.60
86	AB	1	G	N1-C6-O6	6.02	123.51	119.90
34	BA	891	C	C2-N1-C1'	-6.02	112.18	118.80
34	BA	1038	U	C1'-O4'-C4'	-6.02	105.08	109.90
41	BH	89	C	OP1-P-OP2	-6.02	110.57	119.60
85	AA	83	U	N1-C1'-C2'	-6.02	105.38	112.00
85	AA	530	A	P-O3'-C3'	-6.02	112.47	119.70
85	AA	657	C	C3'-C2'-C1'	-6.02	96.68	101.50
85	AA	820	G	P-O3'-C3'	6.02	126.92	119.70
85	AA	1449	C	C2'-C3'-O3'	6.02	123.33	113.70
85	AA	2045	U	N3-C2-O2	-6.02	117.98	122.20
85	AA	2180	C	O4'-C1'-N1	6.02	113.02	108.20
34	BA	143	A	P-O3'-C3'	-6.02	112.48	119.70
34	BA	749	G	C1'-O4'-C4'	-6.02	105.08	109.90
34	BA	801	U	O4'-C1'-N1	6.02	113.02	108.20
34	BA	1165	A	C4-N9-C1'	-6.02	115.47	126.30
34	BA	1707	C	C5'-C4'-C3'	6.02	125.63	116.00
34	BA	1800	G	N1-C6-O6	6.02	123.51	119.90
35	BB	1413	U	OP1-P-O3'	6.02	118.44	105.20
38	BE	199	A	O4'-C4'-C3'	-6.02	97.98	104.00
40	BG	141	A	C8-N9-C4	6.02	108.21	105.80
52	BS	82	TYR	CB-CG-CD1	6.02	124.61	121.00
85	AA	671	G	P-O3'-C3'	-6.02	112.48	119.70
85	AA	887	A	C5'-C4'-O4'	6.02	116.32	109.10
34	BA	228	A	C5-C6-N6	-6.02	118.89	123.70
34	BA	304	G	C4-N9-C1'	-6.02	118.68	126.50
34	BA	1048	C	C6-N1-C1'	6.02	128.02	120.80
34	BA	1571	C	C5'-C4'-C3'	6.02	125.63	116.00
35	BB	18	A	C5'-C4'-C3'	6.02	125.63	116.00
35	BB	321	C	O4'-C1'-N1	6.02	113.01	108.20
35	BB	442	U	C3'-C2'-C1'	-6.02	96.69	101.50
35	BB	497	C	N1-C1'-C2'	-6.02	105.38	112.00
35	BB	518	G	C1'-O4'-C4'	-6.02	105.08	109.90
35	BB	1166	A	C4'-C3'-C2'	-6.02	96.58	102.60
35	BB	1196	A	C3'-C2'-C1'	-6.02	96.69	101.50
38	BE	19	G	OP1-P-OP2	-6.02	110.57	119.60
38	BE	101	C	P-O3'-C3'	-6.02	112.48	119.70
85	AA	575	G	N1-C6-O6	6.02	123.51	119.90
85	AA	1613	A	C5'-C4'-C3'	-6.02	106.37	116.00
85	AA	2154	C	C4'-C3'-C2'	-6.02	96.58	102.60
34	BA	1633	C	P-O5'-C5'	6.02	130.53	120.90
34	BA	1816	G	C6-N1-C2	-6.02	121.49	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	126	C	O4'-C1'-N1	6.02	113.01	108.20
35	BB	694	C	N3-C4-N4	-6.02	113.79	118.00
35	BB	1131	C	P-O5'-C5'	-6.02	111.28	120.90
36	BC	51	A	C5-N7-C8	-6.02	100.89	103.90
39	BF	39	C	C5-C6-N1	6.02	124.01	121.00
40	BG	84	U	O4'-C1'-C2'	-6.02	99.78	105.80
2	A1	215	PHE	CB-CG-CD1	6.01	125.01	120.80
34	BA	1268	C	C5'-C4'-C3'	-6.01	106.38	116.00
35	BB	351	G	C5-C6-O6	-6.01	124.99	128.60
35	BB	820	C	O4'-C1'-N1	6.01	113.01	108.20
38	BE	6	A	C5-C6-N1	6.01	120.71	117.70
38	BE	116	U	N1-C2-O2	6.01	127.01	122.80
41	BH	135	U	C5-C4-O4	6.01	129.51	125.90
72	Bm	27	ARG	NE-CZ-NH1	6.01	123.31	120.30
85	AA	203	C	C4'-C3'-C2'	-6.01	96.59	102.60
85	AA	309	G	C4'-C3'-C2'	6.01	108.61	102.60
85	AA	375	C	C5'-C4'-C3'	6.01	125.62	116.00
85	AA	535	G	P-O5'-C5'	6.01	130.52	120.90
85	AA	711	C	C3'-C2'-C1'	6.01	106.31	101.50
85	AA	1290	G	C4'-C3'-C2'	-6.01	96.58	102.60
7	A6	4	TYR	N-CA-C	6.01	127.23	111.00
7	A6	145	PHE	CB-CG-CD1	6.01	125.01	120.80
34	BA	304	G	C8-N9-C1'	6.01	134.82	127.00
34	BA	1734	U	C6-N1-C1'	6.01	129.62	121.20
35	BB	58	G	O4'-C1'-N9	6.01	113.01	108.20
35	BB	1174	C	C6-N1-C1'	-6.01	113.58	120.80
49	BP	160	ALA	N-CA-C	6.01	127.24	111.00
85	AA	2029	G	P-O3'-C3'	-6.01	112.48	119.70
34	BA	216	C	C5'-C4'-C3'	-6.01	106.38	116.00
34	BA	244	A	C1'-O4'-C4'	-6.01	105.09	109.90
34	BA	295	G	N3-C4-C5	-6.01	125.59	128.60
34	BA	304	G	C5-C6-O6	-6.01	124.99	128.60
34	BA	859	G	O4'-C1'-N9	6.01	113.01	108.20
34	BA	1043	C	C6-N1-C2	-6.01	117.89	120.30
34	BA	1236	U	C2-N3-C4	-6.01	123.39	127.00
35	BB	1250	A	O4'-C1'-C2'	6.01	113.01	107.60
36	BC	134	G	N1-C2-N2	-6.01	110.79	116.20
38	BE	19	G	O3'-P-O5'	6.01	115.42	104.00
67	Bh	23	ARG	NE-CZ-NH1	6.01	123.31	120.30
85	AA	334	A	C3'-C2'-C1'	-6.01	96.69	101.50
85	AA	448	G	N1-C6-O6	-6.01	116.29	119.90
85	AA	753	U	C5'-C4'-C3'	6.01	125.62	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1197	U	P-O3'-C3'	-6.01	112.48	119.70
85	AA	2120	C	P-O3'-C3'	-6.01	112.49	119.70
31	AX	172	ARG	NE-CZ-NH2	-6.01	117.30	120.30
34	BA	604	G	C3'-C2'-C1'	-6.01	96.69	101.50
34	BA	1153	C	C5-C4-N4	-6.01	115.99	120.20
35	BB	650	A	O4'-C1'-N9	6.01	113.01	108.20
35	BB	1045	G	N9-C1'-C2'	-6.01	105.39	112.00
35	BB	1140	C	P-O5'-C5'	6.01	130.51	120.90
38	BE	130	G	N1-C2-N2	-6.01	110.79	116.20
40	BG	104	A	C1'-O4'-C4'	-6.01	105.09	109.90
41	BH	41	A	N9-C4-C5	-6.01	103.40	105.80
68	Bi	128	ARG	NE-CZ-NH1	6.01	123.31	120.30
71	Bl	95	TRP	N-CA-C	-6.01	94.77	111.00
85	AA	353	G	C8-N9-C1'	6.01	134.81	127.00
85	AA	616	A	C5'-C4'-O4'	6.01	116.31	109.10
85	AA	1840	C	C2-N3-C4	-6.01	116.89	119.90
85	AA	2118	U	C6-N1-C2	-6.01	117.39	121.00
34	BA	777	C	C2-N3-C4	-6.01	116.90	119.90
34	BA	1342	C	C5-C4-N4	-6.01	115.99	120.20
34	BA	1642	A	C4-N9-C1'	-6.01	115.48	126.30
35	BB	512	C	C4'-C3'-C2'	-6.01	96.59	102.60
35	BB	832	C	P-O3'-C3'	-6.01	112.49	119.70
35	BB	1036	G	P-O3'-C3'	-6.01	112.49	119.70
35	BB	1096	G	C5-C6-N1	6.01	114.50	111.50
85	AA	862	U	C6-N1-C1'	6.01	129.61	121.20
85	AA	2096	G	C6-N1-C2	-6.01	121.50	125.10
34	BA	478	G	C3'-C2'-C1'	-6.01	96.69	101.50
34	BA	1573	C	N3-C2-O2	-6.01	117.69	121.90
34	BA	1804	A	O4'-C1'-C2'	-6.01	99.79	105.80
35	BB	1054	G	C5'-C4'-C3'	-6.01	106.39	116.00
39	BF	53	G	O3'-P-O5'	-6.01	92.59	104.00
41	BH	2	U	P-O5'-C5'	6.01	130.51	120.90
81	Bv	175	LEU	N-CA-CB	-6.01	98.39	110.40
85	AA	146	U	O5'-C5'-C4'	6.01	123.11	111.70
85	AA	1648	G	P-O5'-C5'	-6.01	111.29	120.90
34	BA	253	U	N3-C2-O2	-6.00	118.00	122.20
34	BA	733	G	C4'-C3'-C2'	6.00	108.61	102.60
35	BB	895	U	N1-C2-N3	6.00	118.50	114.90
72	Bm	23	TYR	CB-CG-CD2	-6.00	117.40	121.00
85	AA	171	U	O4'-C4'-C3'	6.00	110.90	106.10
34	BA	110	C	C4'-C3'-C2'	-6.00	96.60	102.60
34	BA	313	C	O4'-C1'-N1	6.00	113.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	440	A	C5'-C4'-C3'	-6.00	106.39	116.00
34	BA	630	U	O3'-P-O5'	-6.00	92.59	104.00
34	BA	1008	A	P-O3'-C3'	-6.00	112.50	119.70
34	BA	1154	U	P-O3'-C3'	-6.00	112.50	119.70
34	BA	1274	A	O3'-P-O5'	-6.00	92.59	104.00
34	BA	1322	A	N1-C6-N6	6.00	122.20	118.60
34	BA	1421	A	C8-N9-C4	6.00	108.20	105.80
34	BA	1529	G	P-O3'-C3'	-6.00	112.50	119.70
34	BA	1545	C	N1-C2-N3	6.00	123.40	119.20
34	BA	1742	G	N1-C6-O6	6.00	123.50	119.90
35	BB	338	C	O4'-C1'-N1	6.00	113.00	108.20
35	BB	423	G	C8-N9-C1'	6.00	134.81	127.00
35	BB	474	G	N9-C4-C5	-6.00	103.00	105.40
35	BB	1544	A	O4'-C1'-N9	6.00	113.00	108.20
36	BC	169	G	N3-C4-N9	-6.00	122.40	126.00
40	BG	84	U	C5'-C4'-O4'	6.00	116.30	109.10
40	BG	122	G	C8-N9-C4	6.00	108.80	106.40
47	BN	13	GLN	N-CA-CB	6.00	121.41	110.60
52	BS	71	LEU	N-CA-C	6.00	127.21	111.00
85	AA	351	C	N3-C2-O2	-6.00	117.70	121.90
85	AA	959	C	P-O3'-C3'	-6.00	112.50	119.70
85	AA	1670	U	C4'-C3'-C2'	-6.00	96.60	102.60
85	AA	2054	G	C4-N9-C1'	-6.00	118.70	126.50
85	AA	2187	G	O4'-C1'-N9	6.00	113.00	108.20
34	BA	758	G	C5-C6-O6	-6.00	125.00	128.60
34	BA	1125	G	O3'-P-O5'	-6.00	92.60	104.00
34	BA	1499	A	C8-N9-C4	-6.00	103.40	105.80
35	BB	995	C	C2'-C3'-O3'	6.00	123.30	113.70
35	BB	1236	A	O4'-C1'-N9	6.00	113.00	108.20
36	BC	17	U	O4'-C1'-N1	6.00	113.00	108.20
40	BG	133	C	O3'-P-O5'	-6.00	92.60	104.00
40	BG	133	C	P-O3'-C3'	6.00	126.90	119.70
52	BS	109	TYR	CB-CG-CD1	6.00	124.60	121.00
85	AA	38	C	C4'-C3'-C2'	-6.00	96.60	102.60
85	AA	370	A	C4'-C3'-C2'	6.00	108.60	102.60
85	AA	492	C	C5-C4-N4	6.00	124.40	120.20
85	AA	587	G	N9-C1'-C2'	-6.00	105.40	112.00
85	AA	964	C	C6-N1-C2	-6.00	117.90	120.30
34	BA	611	A	C6-C5-N7	-6.00	128.10	132.30
34	BA	1295	U	P-O3'-C3'	6.00	126.90	119.70
35	BB	568	A	O4'-C1'-N9	6.00	113.00	108.20
35	BB	1446	C	N3-C4-C5	6.00	124.30	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A0	49	ASN	CB-CA-C	-6.00	98.40	110.40
34	BA	192	G	O3'-P-O5'	6.00	115.40	104.00
34	BA	454	G	P-O5'-C5'	-6.00	111.30	120.90
34	BA	1487	U	P-O5'-C5'	6.00	130.50	120.90
34	BA	1535	G	C5'-C4'-O4'	6.00	116.30	109.10
35	BB	1390	U	C5-C6-N1	-6.00	119.70	122.70
48	BO	154	PHE	N-CA-CB	6.00	121.40	110.60
84	By	53	PHE	CB-CG-CD1	6.00	125.00	120.80
85	AA	128	U	C5'-C4'-C3'	-6.00	106.40	116.00
85	AA	186	U	C6-N1-C1'	6.00	129.60	121.20
85	AA	282	C	O4'-C4'-C3'	6.00	110.90	106.10
85	AA	459	C	C1'-O4'-C4'	-6.00	105.10	109.90
85	AA	487	G	C4-N9-C1'	-6.00	118.70	126.50
85	AA	703	U	O4'-C1'-N1	6.00	113.00	108.20
85	AA	1088	C	C6-N1-C2	-6.00	117.90	120.30
85	AA	1153	G	C4'-C3'-C2'	-6.00	96.60	102.60
85	AA	1577	G	O4'-C1'-N9	6.00	113.00	108.20
34	BA	1407	C	C2-N1-C1'	-6.00	112.20	118.80
35	BB	93	A	N1-C6-N6	6.00	122.20	118.60
35	BB	144	G	C8-N9-C1'	6.00	134.80	127.00
35	BB	642	G	N3-C4-C5	-6.00	125.60	128.60
35	BB	1133	C	C5-C4-N4	6.00	124.40	120.20
78	Bs	51	LEU	CB-CG-CD2	6.00	121.19	111.00
85	AA	862	U	C2-N3-C4	-6.00	123.40	127.00
34	BA	1324	G	O5'-C5'-C4'	-6.00	100.31	111.70
34	BA	1484	A	C1'-O4'-C4'	-6.00	105.10	109.90
35	BB	1279	C	N1-C1'-C2'	-6.00	105.41	112.00
41	BH	119	U	O5'-C5'-C4'	-6.00	100.31	111.70
80	Bu	20	TYR	CA-CB-CG	-6.00	102.01	113.40
85	AA	628	C	C2-N3-C4	-6.00	116.90	119.90
2	A1	46	ARG	N-CA-CB	-5.99	99.81	110.60
34	BA	313	C	O4'-C1'-C2'	5.99	112.99	107.60
34	BA	387	A	C8-N9-C4	-5.99	103.40	105.80
34	BA	535	G	N3-C2-N2	5.99	124.10	119.90
34	BA	565	U	C2-N1-C1'	-5.99	110.51	117.70
34	BA	671	C	C2-N3-C4	-5.99	116.90	119.90
34	BA	748	C	P-O5'-C5'	5.99	130.49	120.90
35	BB	1479	C	N3-C2-O2	-5.99	117.70	121.90
36	BC	10	C	O5'-C5'-C4'	5.99	123.09	111.70
42	BI	69	VAL	CG1-CB-CG2	-5.99	101.31	110.90
82	Bw	252	PHE	N-CA-CB	-5.99	99.81	110.60
85	AA	470	C	N3-C2-O2	-5.99	117.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	716	G	P-O5'-C5'	-5.99	111.31	120.90
85	AA	771	A	N3-C4-C5	-5.99	122.60	126.80
85	AA	944	C	P-O5'-C5'	5.99	130.49	120.90
85	AA	1674	G	N1-C6-O6	5.99	123.50	119.90
85	AA	1711	C	C1'-O4'-C4'	-5.99	105.11	109.90
35	BB	1068	G	C2-N3-C4	-5.99	108.90	111.90
35	BB	1176	G	C3'-C2'-C1'	-5.99	96.71	101.50
38	BE	72	C	O5'-C5'-C4'	5.99	123.08	111.70
38	BE	94	U	N3-C2-O2	-5.99	118.01	122.20
38	BE	153	C	P-O5'-C5'	-5.99	111.31	120.90
44	BK	115	MET	CG-SD-CE	-5.99	90.61	100.20
85	AA	162	A	C5-N7-C8	-5.99	100.90	103.90
85	AA	425	G	N7-C8-N9	-5.99	110.10	113.10
85	AA	1370	G	C4-N9-C1'	-5.99	118.71	126.50
85	AA	2066	C	P-O5'-C5'	-5.99	111.31	120.90
34	BA	14	G	P-O5'-C5'	-5.99	111.32	120.90
34	BA	183	G	C5-C6-O6	-5.99	125.01	128.60
34	BA	478	G	N9-C1'-C2'	-5.99	105.41	112.00
34	BA	486	G	N9-C1'-C2'	5.99	121.79	114.00
34	BA	523	A	O4'-C1'-N9	-5.99	103.41	108.20
34	BA	551	U	C5-C4-O4	5.99	129.49	125.90
34	BA	574	U	C1'-O4'-C4'	5.99	114.69	109.90
34	BA	681	G	C5-N7-C8	-5.99	101.31	104.30
34	BA	857	C	C6-N1-C1'	5.99	127.99	120.80
34	BA	951	C	N1-C1'-C2'	-5.99	105.41	112.00
34	BA	1243	A	C4'-C3'-C2'	-5.99	96.61	102.60
34	BA	1457	C	O4'-C1'-C2'	5.99	112.99	107.60
35	BB	93	A	O5'-C5'-C4'	-5.99	100.32	111.70
35	BB	1256	C	N3-C2-O2	-5.99	117.71	121.90
37	BD	100	A	C5'-C4'-O4'	-5.99	101.91	109.10
38	BE	194	A	C5-N7-C8	-5.99	100.91	103.90
40	BG	20	U	N1-C2-N3	5.99	118.49	114.90
41	BH	76	G	OP1-P-O3'	5.99	118.38	105.20
25	AR	54	THR	N-CA-C	-5.99	94.83	111.00
34	BA	1071	G	C6-N1-C2	-5.99	121.51	125.10
34	BA	1094	U	C5-C6-N1	-5.99	119.71	122.70
34	BA	1344	G	N7-C8-N9	5.99	116.09	113.10
34	BA	1438	C	N3-C2-O2	-5.99	117.71	121.90
34	BA	1632	G	C5-C6-O6	-5.99	125.01	128.60
34	BA	1685	C	C2-N3-C4	-5.99	116.91	119.90
34	BA	1747	C	C2'-C3'-O3'	5.99	123.28	113.70
35	BB	55	C	P-O5'-C5'	-5.99	111.32	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	147	C	C2-N1-C1'	5.99	125.39	118.80
35	BB	490	G	N1-C6-O6	5.99	123.49	119.90
35	BB	828	G	N9-C1'-C2'	-5.99	105.41	112.00
35	BB	1072	C	C1'-O4'-C4'	-5.99	105.11	109.90
40	BG	168	A	P-O5'-C5'	-5.99	111.32	120.90
60	Ba	101	ALA	N-CA-CB	5.99	118.48	110.10
85	AA	99	U	C5'-C4'-C3'	-5.99	106.42	116.00
85	AA	385	A	P-O5'-C5'	-5.99	111.32	120.90
34	BA	780	U	O5'-C5'-C4'	5.99	123.08	111.70
34	BA	955	G	O4'-C1'-N9	5.99	112.99	108.20
34	BA	1703	A	N1-C6-N6	5.99	122.19	118.60
35	BB	428	G	O4'-C1'-N9	5.99	112.99	108.20
40	BG	152	G	C4-N9-C1'	-5.99	118.72	126.50
83	Bx	40	PHE	CB-CA-C	-5.99	98.43	110.40
85	AA	488	G	C8-N9-C1'	5.99	134.78	127.00
85	AA	1526	G	C2'-C3'-O3'	5.99	123.28	113.70
85	AA	1721	A	C4-N9-C1'	-5.99	115.52	126.30
85	AA	1854	U	C2-N1-C1'	-5.99	110.52	117.70
34	BA	1403	G	N9-C1'-C2'	-5.99	105.42	112.00
34	BA	1499	A	O5'-C5'-C4'	-5.99	100.33	111.70
35	BB	412	A	P-O5'-C5'	-5.99	111.32	120.90
35	BB	969	C	N3-C2-O2	-5.99	117.71	121.90
35	BB	1234	G	N3-C2-N2	5.99	124.09	119.90
35	BB	1354	C	C5'-C4'-O4'	-5.99	101.92	109.10
35	BB	1466	A	C5-N7-C8	-5.99	100.91	103.90
40	BG	130	G	C4-N9-C1'	-5.99	118.72	126.50
51	BR	81	GLY	N-CA-C	-5.99	98.14	113.10
85	AA	910	G	C8-N9-C1'	5.99	134.78	127.00
85	AA	934	A	P-O3'-C3'	-5.99	112.52	119.70
85	AA	2113	U	C2-N1-C1'	-5.99	110.52	117.70
34	BA	1569	C	C5'-C4'-O4'	5.98	116.28	109.10
35	BB	540	G	N1-C6-O6	5.98	123.49	119.90
38	BE	134	A	N1-C2-N3	-5.98	126.31	129.30
38	BE	141	A	O4'-C1'-N9	5.98	112.99	108.20
41	BH	24	U	P-O3'-C3'	-5.98	112.52	119.70
34	BA	339	G	N1-C6-O6	-5.98	116.31	119.90
34	BA	595	U	C3'-C2'-C1'	5.98	106.29	101.50
34	BA	1220	C	C2'-C3'-O3'	5.98	123.27	113.70
35	BB	2	C	O4'-C4'-C3'	-5.98	98.02	104.00
35	BB	545	C	C3'-C2'-C1'	5.98	106.29	101.50
35	BB	1162	A	C8-N9-C1'	-5.98	116.93	127.70
35	BB	1540	U	O4'-C1'-N1	5.98	112.99	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	70	A	O4'-C1'-N9	5.98	112.98	108.20
40	BG	181	C	C1'-O4'-C4'	-5.98	105.11	109.90
82	Bw	220	PHE	CB-CG-CD1	5.98	124.99	120.80
85	AA	715	G	N9-C1'-C2'	-5.98	105.42	112.00
85	AA	1981	A	P-O5'-C5'	-5.98	111.33	120.90
5	A4	162	ARG	N-CA-CB	5.98	121.36	110.60
34	BA	276	C	N3-C2-O2	-5.98	117.71	121.90
34	BA	403	A	C4'-C3'-C2'	-5.98	96.62	102.60
34	BA	420	A	C1'-O4'-C4'	-5.98	105.12	109.90
34	BA	1223	C	C6-N1-C1'	-5.98	113.62	120.80
34	BA	1653	G	N1-C6-O6	-5.98	116.31	119.90
34	BA	1737	A	O3'-P-O5'	-5.98	92.64	104.00
40	BG	141	A	C3'-C2'-C1'	5.98	106.28	101.50
73	Bn	66	TYR	CB-CA-C	5.98	122.36	110.40
85	AA	132	G	O4'-C1'-N9	5.98	112.98	108.20
85	AA	1342	C	O4'-C1'-N1	5.98	112.98	108.20
85	AA	1900	C	C6-N1-C1'	5.98	127.98	120.80
85	AA	2125	A	C4-C5-C6	-5.98	114.01	117.00
85	AA	2139	G	C5-N7-C8	-5.98	101.31	104.30
85	AA	2192	A	C5-C6-N1	5.98	120.69	117.70
34	BA	743	A	N7-C8-N9	-5.98	110.81	113.80
34	BA	1030	C	C3'-C2'-C1'	-5.98	96.72	101.50
34	BA	1289	C	C6-N1-C2	-5.98	117.91	120.30
35	BB	41	A	O4'-C4'-C3'	5.98	110.88	106.10
35	BB	458	U	C2-N3-C4	-5.98	123.41	127.00
35	BB	1306	G	C4-N9-C1'	-5.98	118.73	126.50
37	BD	65	G	C8-N9-C4	5.98	108.79	106.40
38	BE	14	C	C4'-C3'-C2'	5.98	108.58	102.60
41	BH	56	C	O4'-C1'-N1	5.98	112.98	108.20
85	AA	96	C	N1-C2-O2	5.98	122.49	118.90
85	AA	1212	C	C2-N3-C4	-5.98	116.91	119.90
85	AA	1826	U	C6-N1-C1'	-5.98	112.83	121.20
34	BA	612	U	C5'-C4'-C3'	-5.98	106.44	116.00
34	BA	884	G	C2-N3-C4	-5.98	108.91	111.90
34	BA	1286	C	O4'-C1'-N1	5.98	112.98	108.20
34	BA	1762	U	O4'-C1'-N1	5.98	112.98	108.20
35	BB	8	U	C2'-C3'-O3'	5.98	123.27	113.70
35	BB	382	U	N1-C2-N3	5.98	118.49	114.90
35	BB	620	G	C3'-C2'-C1'	-5.98	96.72	101.50
35	BB	1206	G	C1'-O4'-C4'	-5.98	105.12	109.90
36	BC	155	C	P-O5'-C5'	-5.98	111.34	120.90
38	BE	163	A	C3'-C2'-C1'	-5.98	96.72	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
65	Bf	144	ARG	NE-CZ-NH1	5.98	123.29	120.30
84	By	44	PHE	CB-CG-CD2	-5.98	116.61	120.80
85	AA	707	U	C4'-C3'-C2'	-5.98	96.62	102.60
85	AA	901	C	C2-N3-C4	-5.98	116.91	119.90
85	AA	1505	G	C8-N9-C1'	5.98	134.77	127.00
35	BB	1337	C	C5'-C4'-O4'	5.98	116.27	109.10
35	BB	1386	C	C5'-C4'-C3'	-5.98	106.44	116.00
35	BB	1452	U	C2'-C3'-O3'	5.98	123.26	113.70
35	BB	1528	U	C3'-C2'-C1'	-5.98	96.72	101.50
36	BC	88	A	O3'-P-O5'	-5.98	92.64	104.00
80	Bu	264	ARG	NE-CZ-NH2	-5.98	117.31	120.30
85	AA	264	A	O4'-C1'-N9	5.98	112.98	108.20
85	AA	656	U	P-O5'-C5'	-5.98	111.34	120.90
85	AA	1223	A	N1-C2-N3	-5.98	126.31	129.30
34	BA	373	G	C5-C6-O6	-5.97	125.02	128.60
34	BA	750	C	P-O3'-C3'	-5.97	112.53	119.70
34	BA	897	U	C2'-C3'-O3'	5.97	123.26	113.70
34	BA	1129	U	O4'-C1'-N1	5.97	112.98	108.20
34	BA	1680	G	C5'-C4'-C3'	5.97	125.56	116.00
34	BA	1822	U	C5'-C4'-C3'	5.97	125.56	116.00
36	BC	146	U	C2'-C3'-O3'	5.97	123.26	113.70
67	Bh	35	ASP	CA-CB-CG	5.97	126.54	113.40
85	AA	338	G	N3-C2-N2	5.97	124.08	119.90
85	AA	875	C	C1'-O4'-C4'	-5.97	105.12	109.90
85	AA	1055	U	C2-N1-C1'	5.97	124.87	117.70
85	AA	1301	C	P-O5'-C5'	-5.97	111.34	120.90
85	AA	1812	C	O5'-C5'-C4'	-5.97	100.35	111.70
85	AA	2045	U	C6-N1-C1'	5.97	129.56	121.20
85	AA	2119	C	O4'-C1'-N1	5.97	112.98	108.20
85	AA	2241	C	C6-N1-C1'	5.97	127.97	120.80
86	AB	3	C	C6-N1-C2	-5.97	117.91	120.30
34	BA	275	C	P-O3'-C3'	-5.97	112.53	119.70
34	BA	684	G	N3-C4-N9	5.97	129.58	126.00
35	BB	1147	G	N1-C6-O6	5.97	123.48	119.90
74	Bo	13	ARG	NH1-CZ-NH2	-5.97	112.83	119.40
77	Br	250	TRP	CB-CA-C	-5.97	98.45	110.40
85	AA	31	C	O4'-C1'-N1	5.97	112.98	108.20
85	AA	115	U	C4-C5-C6	-5.97	116.12	119.70
85	AA	168	A	O5'-C5'-C4'	-5.97	100.35	111.70
85	AA	652	U	C2-N3-C4	-5.97	123.42	127.00
85	AA	847	G	C5-C6-N1	5.97	114.49	111.50
85	AA	1709	U	P-O3'-C3'	5.97	126.87	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2096	G	P-O5'-C5'	5.97	130.46	120.90
85	AA	2204	A	C5'-C4'-O4'	5.97	116.27	109.10
29	AV	53	ARG	NE-CZ-NH2	-5.97	117.31	120.30
34	BA	656	U	P-O5'-C5'	5.97	130.45	120.90
34	BA	1295	U	C5'-C4'-O4'	-5.97	101.94	109.10
38	BE	184	G	N1-C6-O6	-5.97	116.32	119.90
85	AA	916	A	O4'-C1'-N9	5.97	112.98	108.20
34	BA	83	G	C6-C5-N7	-5.97	126.82	130.40
34	BA	103	G	N7-C8-N9	-5.97	110.11	113.10
34	BA	307	C	O4'-C1'-N1	5.97	112.97	108.20
34	BA	700	G	C3'-C2'-C1'	-5.97	96.72	101.50
34	BA	736	G	O4'-C1'-N9	5.97	112.98	108.20
34	BA	806	U	C5'-C4'-C3'	5.97	125.55	116.00
34	BA	1430	C	P-O3'-C3'	5.97	126.86	119.70
34	BA	1637	G	C8-N9-C1'	5.97	134.76	127.00
34	BA	1733	G	C4-N9-C1'	-5.97	118.74	126.50
35	BB	1106	G	N1-C6-O6	-5.97	116.32	119.90
37	BD	23	A	N9-C1'-C2'	-5.97	105.43	112.00
38	BE	168	C	N1-C2-N3	5.97	123.38	119.20
40	BG	12	A	O4'-C1'-C2'	-5.97	99.83	105.80
85	AA	646	C	N3-C2-O2	-5.97	117.72	121.90
85	AA	1176	C	C2-N1-C1'	-5.97	112.23	118.80
85	AA	1482	C	C5-C6-N1	5.97	123.98	121.00
34	BA	713	C	P-O5'-C5'	-5.97	111.35	120.90
37	BD	62	A	C4-N9-C1'	-5.97	115.56	126.30
38	BE	23	G	C5-C6-N1	5.97	114.48	111.50
38	BE	181	U	O5'-P-OP2	-5.97	100.33	105.70
40	BG	140	G	O4'-C1'-C2'	5.97	112.97	107.60
41	BH	22	A	C5-C6-N6	-5.97	118.92	123.70
69	Bj	11	ARG	NE-CZ-NH1	5.97	123.28	120.30
85	AA	365	G	O4'-C1'-N9	5.97	112.97	108.20
85	AA	386	G	N1-C2-N2	-5.97	110.83	116.20
85	AA	453	G	N3-C4-N9	5.97	129.58	126.00
85	AA	760	U	O4'-C4'-C3'	-5.97	98.03	104.00
34	BA	75	U	N1-C1'-C2'	-5.97	105.44	112.00
34	BA	260	A	C5-C6-N6	5.97	128.47	123.70
34	BA	399	G	N3-C4-C5	5.97	131.58	128.60
34	BA	541	C	C6-N1-C1'	5.97	127.96	120.80
34	BA	1222	C	P-O3'-C3'	-5.97	112.54	119.70
34	BA	1280	A	C5-C6-N1	5.97	120.68	117.70
35	BB	364	U	C6-N1-C2	-5.97	117.42	121.00
35	BB	798	A	C8-N9-C4	-5.97	103.41	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	812	G	C1'-O4'-C4'	-5.97	105.13	109.90
35	BB	1485	G	C5'-C4'-C3'	-5.97	106.45	116.00
85	AA	355	G	C4-N9-C1'	-5.97	118.74	126.50
85	AA	769	C	N3-C2-O2	-5.97	117.72	121.90
85	AA	906	U	C5'-C4'-O4'	5.97	116.26	109.10
85	AA	1275	A	C5-C6-N6	5.97	128.47	123.70
34	BA	665	C	C3'-C2'-C1'	-5.96	96.73	101.50
34	BA	783	U	N3-C2-O2	-5.96	118.03	122.20
34	BA	1061	A	C8-N9-C4	5.96	108.19	105.80
34	BA	1476	G	C5'-C4'-C3'	-5.96	106.46	116.00
34	BA	1559	C	O4'-C1'-N1	5.96	112.97	108.20
34	BA	1774	G	O4'-C1'-N9	5.96	112.97	108.20
35	BB	260	A	C5'-C4'-C3'	-5.96	106.46	116.00
38	BE	18	U	O5'-C5'-C4'	-5.96	100.37	111.70
40	BG	18	U	C5'-C4'-C3'	-5.96	106.46	116.00
40	BG	85	C	C5'-C4'-C3'	5.96	125.54	116.00
42	BI	172	HIS	CA-CB-CG	5.96	123.74	113.60
80	Bu	208	ARG	NE-CZ-NH1	5.96	123.28	120.30
85	AA	276	C	C5'-C4'-O4'	-5.96	101.94	109.10
85	AA	803	C	C5-C4-N4	-5.96	116.02	120.20
85	AA	1304	C	P-O5'-C5'	-5.96	111.36	120.90
85	AA	1557	U	O3'-P-O5'	5.96	115.33	104.00
85	AA	1917	G	C8-N9-C1'	5.96	134.75	127.00
35	BB	397	C	N3-C2-O2	-5.96	117.73	121.90
38	BE	199	A	C8-N9-C4	5.96	108.19	105.80
82	Bw	62	ARG	NE-CZ-NH2	-5.96	117.32	120.30
85	AA	2227	A	N7-C8-N9	-5.96	110.82	113.80
34	BA	411	C	C6-N1-C1'	-5.96	113.65	120.80
34	BA	526	C	P-O5'-C5'	-5.96	111.36	120.90
34	BA	535	G	N3-C4-N9	5.96	129.58	126.00
34	BA	621	G	N1-C6-O6	5.96	123.48	119.90
34	BA	747	G	N3-C4-C5	-5.96	125.62	128.60
34	BA	751	A	C2-N3-C4	5.96	113.58	110.60
34	BA	1581	G	N3-C4-C5	-5.96	125.62	128.60
34	BA	1611	A	C4'-C3'-C2'	-5.96	96.64	102.60
34	BA	1711	G	N1-C2-N3	-5.96	120.32	123.90
35	BB	516	G	C4'-C3'-C2'	-5.96	96.64	102.60
35	BB	1462	G	N3-C4-C5	-5.96	125.62	128.60
37	BD	87	G	N7-C8-N9	-5.96	110.12	113.10
85	AA	338	G	N9-C1'-C2'	-5.96	105.44	112.00
85	AA	1116	G	N9-C1'-C2'	-5.96	105.44	112.00
34	BA	46	C	P-O3'-C3'	-5.96	112.55	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	986	G	C4-N9-C1'	-5.96	118.75	126.50
34	BA	1060	C	O4'-C1'-C2'	-5.96	99.84	105.80
34	BA	1491	U	OP1-P-O3'	5.96	118.31	105.20
34	BA	1640	G	C5'-C4'-C3'	5.96	125.54	116.00
35	BB	1259	A	O4'-C1'-N9	5.96	112.97	108.20
35	BB	1379	U	C5-C6-N1	-5.96	119.72	122.70
40	BG	9	G	O4'-C1'-C2'	5.96	112.96	107.60
85	AA	1137	C	O4'-C1'-N1	5.96	112.97	108.20
85	AA	1668	G	C5-C6-O6	5.96	132.18	128.60
34	BA	596	G	N3-C2-N2	5.96	124.07	119.90
34	BA	662	U	P-O5'-C5'	5.96	130.43	120.90
34	BA	1846	G	P-O3'-C3'	-5.96	112.55	119.70
35	BB	835	C	P-O3'-C3'	5.96	126.85	119.70
35	BB	981	A	N9-C1'-C2'	5.96	121.75	114.00
35	BB	993	A	N3-C4-C5	5.96	130.97	126.80
35	BB	1283	C	O4'-C1'-N1	5.96	112.97	108.20
41	BH	9	C	O5'-P-OP2	5.96	117.85	110.70
85	AA	408	C	C5-C4-N4	5.96	124.37	120.20
85	AA	976	G	O4'-C1'-N9	5.96	112.97	108.20
85	AA	1195	U	C2-N3-C4	-5.96	123.42	127.00
85	AA	1476	C	C2-N3-C4	-5.96	116.92	119.90
34	BA	57	A	C3'-C2'-C1'	-5.96	96.73	101.50
34	BA	87	G	P-O5'-C5'	-5.96	111.37	120.90
34	BA	955	G	C5-C6-N1	5.96	114.48	111.50
34	BA	1100	A	C5'-C4'-C3'	-5.96	106.47	116.00
34	BA	1219	G	C4'-C3'-C2'	-5.96	96.64	102.60
34	BA	1220	C	N1-C1'-C2'	-5.96	105.45	112.00
34	BA	1521	C	P-O3'-C3'	-5.96	112.55	119.70
34	BA	1845	G	N9-C4-C5	5.96	107.78	105.40
35	BB	300	U	O4'-C1'-N1	5.96	112.96	108.20
35	BB	968	C	O4'-C4'-C3'	-5.96	98.04	104.00
35	BB	1165	A	OP1-P-O3'	5.96	118.31	105.20
35	BB	1536	G	C8-N9-C4	-5.96	104.02	106.40
37	BD	49	A	C3'-C2'-C1'	-5.96	96.73	101.50
37	BD	60	C	C6-N1-C2	-5.96	117.92	120.30
37	BD	108	G	C8-N9-C4	-5.96	104.02	106.40
41	BH	36	C	O4'-C1'-N1	5.96	112.97	108.20
42	BI	74	ARG	NE-CZ-NH1	5.96	123.28	120.30
85	AA	107	A	C5-N7-C8	-5.96	100.92	103.90
85	AA	535	G	C5'-C4'-C3'	-5.96	106.47	116.00
85	AA	1263	G	C5'-C4'-O4'	5.96	116.25	109.10
85	AA	1519	A	N1-C6-N6	-5.96	115.03	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
86	AB	24	G	C8-N9-C1'	5.96	134.74	127.00
39	BF	42	G	P-O3'-C3'	-5.96	112.55	119.70
40	BG	92	U	O4'-C1'-C2'	5.96	112.96	107.60
40	BG	111	C	P-O5'-C5'	5.96	130.43	120.90
85	AA	1839	G	C4-N9-C1'	-5.96	118.76	126.50
85	AA	2139	G	N1-C6-O6	5.96	123.47	119.90
34	BA	568	G	O3'-P-O5'	5.95	115.31	104.00
34	BA	613	A	C1'-O4'-C4'	-5.95	105.14	109.90
34	BA	635	G	C2-N3-C4	5.95	114.88	111.90
34	BA	1415	C	N3-C2-O2	-5.95	117.73	121.90
35	BB	645	C	P-O5'-C5'	5.95	130.43	120.90
35	BB	852	G	N3-C2-N2	5.95	124.07	119.90
36	BC	147	G	N1-C6-O6	5.95	123.47	119.90
36	BC	148	C	O5'-C5'-C4'	-5.95	100.39	111.70
39	BF	5	U	N1-C2-O2	5.95	126.97	122.80
41	BH	116	A	C5'-C4'-C3'	5.95	125.53	116.00
65	Bf	282	PHE	CB-CG-CD2	-5.95	116.63	120.80
85	AA	1975	G	O4'-C1'-N9	5.95	112.96	108.20
85	AA	2169	C	C6-N1-C1'	5.95	127.94	120.80
34	BA	447	U	O5'-C5'-C4'	-5.95	100.39	111.70
34	BA	1735	G	N9-C1'-C2'	-5.95	105.45	112.00
37	BD	9	C	N3-C2-O2	-5.95	117.73	121.90
40	BG	54	G	N1-C2-N2	5.95	121.56	116.20
85	AA	485	A	N1-C6-N6	5.95	122.17	118.60
85	AA	1494	C	O4'-C1'-N1	5.95	112.96	108.20
85	AA	2007	G	C8-N9-C1'	5.95	134.74	127.00
34	BA	1314	A	O4'-C1'-N9	5.95	112.96	108.20
34	BA	1432	C	N3-C4-C5	5.95	124.28	121.90
34	BA	1719	G	O4'-C1'-N9	5.95	112.96	108.20
34	BA	1793	G	C5-C6-O6	-5.95	125.03	128.60
35	BB	472	C	P-O5'-C5'	5.95	130.42	120.90
35	BB	855	G	P-O3'-C3'	-5.95	112.56	119.70
35	BB	1153	G	C5-C6-O6	-5.95	125.03	128.60
35	BB	1291	G	C8-N9-C1'	5.95	134.74	127.00
36	BC	116	C	C2-N1-C1'	-5.95	112.25	118.80
37	BD	105	G	P-O3'-C3'	-5.95	112.56	119.70
38	BE	134	A	C5'-C4'-C3'	5.95	125.52	116.00
74	Bo	45	PHE	CB-CG-CD2	-5.95	116.63	120.80
85	AA	1074	U	C5'-C4'-O4'	5.95	116.24	109.10
6	A5	75	ARG	NE-CZ-NH2	5.95	123.27	120.30
34	BA	1130	U	O4'-C1'-N1	5.95	112.96	108.20
34	BA	1211	G	N1-C2-N3	5.95	127.47	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1270	G	C8-N9-C4	5.95	108.78	106.40
34	BA	1673	G	C5-C6-O6	5.95	132.17	128.60
35	BB	1035	C	O4'-C1'-N1	5.95	112.96	108.20
35	BB	1097	U	O4'-C1'-N1	5.95	112.96	108.20
36	BC	88	A	C3'-C2'-C1'	-5.95	96.74	101.50
72	Bm	76	ARG	CA-C-N	-5.95	104.11	117.20
85	AA	526	G	C5-C6-N1	5.95	114.47	111.50
85	AA	1272	G	C5'-C4'-C3'	-5.95	106.48	116.00
85	AA	1547	G	O4'-C1'-N9	5.95	112.96	108.20
34	BA	113	G	P-O5'-C5'	-5.95	111.39	120.90
34	BA	575	U	O4'-C1'-N1	5.95	112.96	108.20
34	BA	645	U	N3-C4-O4	5.95	123.56	119.40
34	BA	728	A	O4'-C4'-C3'	-5.95	98.05	104.00
34	BA	772	G	C4-N9-C1'	5.95	134.23	126.50
35	BB	1029	U	N1-C1'-C2'	-5.95	105.46	112.00
35	BB	1242	C	O4'-C1'-N1	5.95	112.96	108.20
35	BB	1311	G	C3'-C2'-C1'	-5.95	96.74	101.50
35	BB	1489	A	P-O5'-C5'	5.95	130.41	120.90
40	BG	95	U	O5'-P-OP2	-5.95	100.35	105.70
85	AA	53	G	C1'-O4'-C4'	-5.95	105.14	109.90
85	AA	261	U	C2-N3-C4	-5.95	123.43	127.00
85	AA	413	G	C1'-O4'-C4'	-5.95	105.14	109.90
85	AA	982	G	P-O5'-C5'	-5.95	111.38	120.90
85	AA	1451	U	N3-C4-C5	5.95	118.17	114.60
85	AA	1712	A	N1-C6-N6	-5.95	115.03	118.60
3	A2	145	ARG	NE-CZ-NH1	5.95	123.27	120.30
34	BA	36	A	C5'-C4'-C3'	-5.95	106.49	116.00
34	BA	421	G	C1'-O4'-C4'	-5.95	105.14	109.90
34	BA	790	G	C2-N3-C4	-5.95	108.93	111.90
34	BA	888	G	P-O3'-C3'	-5.95	112.57	119.70
34	BA	1070	G	C5-C6-O6	-5.95	125.03	128.60
34	BA	1078	U	C2-N3-C4	-5.95	123.43	127.00
34	BA	1625	C	C4'-C3'-C2'	-5.95	96.66	102.60
34	BA	1660	A	O4'-C1'-N9	5.95	112.96	108.20
35	BB	591	A	C6-N1-C2	-5.95	115.03	118.60
35	BB	1251	G	C8-N9-C1'	5.95	134.73	127.00
36	BC	6	G	P-O5'-C5'	-5.95	111.39	120.90
38	BE	96	G	P-O3'-C3'	-5.95	112.56	119.70
38	BE	100	U	P-O3'-C3'	5.95	126.83	119.70
38	BE	123	A	C5-C6-N6	-5.95	118.94	123.70
38	BE	135	A	O3'-P-O5'	5.95	115.30	104.00
77	Br	200	TYR	CB-CG-CD2	-5.95	117.43	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	737	G	P-O5'-C5'	5.95	130.41	120.90
85	AA	758	C	C6-N1-C1'	5.95	127.93	120.80
85	AA	1113	G	P-O3'-C3'	-5.95	112.56	119.70
85	AA	1375	U	C6-N1-C2	-5.95	117.43	121.00
34	BA	181	G	C1'-O4'-C4'	-5.94	105.14	109.90
34	BA	1251	A	C5-C6-N1	5.94	120.67	117.70
35	BB	1165	A	O4'-C1'-C2'	5.94	112.95	107.60
37	BD	48	G	C4'-C3'-O3'	5.94	124.89	113.00
82	Bw	82	ARG	N-CA-CB	-5.94	99.90	110.60
85	AA	594	C	C6-N1-C2	5.94	122.68	120.30
11	AC	222	ARG	NE-CZ-NH1	5.94	123.27	120.30
34	BA	31	A	N1-C6-N6	-5.94	115.03	118.60
34	BA	1564	A	C4-N9-C1'	-5.94	115.60	126.30
34	BA	1732	A	C4-N9-C1'	5.94	137.00	126.30
35	BB	43	G	O4'-C1'-N9	5.94	112.95	108.20
35	BB	70	A	O3'-P-O5'	5.94	115.29	104.00
35	BB	103	C	N3-C2-O2	-5.94	117.74	121.90
35	BB	647	U	C2-N3-C4	-5.94	123.43	127.00
38	BE	174	U	N1-C2-N3	5.94	118.47	114.90
41	BH	61	C	C3'-C2'-C1'	-5.94	96.75	101.50
79	Bt	28	TYR	CB-CG-CD1	-5.94	117.44	121.00
85	AA	342	C	C5'-C4'-O4'	5.94	116.23	109.10
85	AA	470	C	C1'-O4'-C4'	-5.94	105.15	109.90
85	AA	710	A	C5'-C4'-O4'	-5.94	101.97	109.10
85	AA	1842	C	C4'-C3'-C2'	5.94	108.54	102.60
85	AA	2166	G	C4'-C3'-C2'	-5.94	96.66	102.60
85	AA	2217	A	N9-C1'-C2'	-5.94	105.46	112.00
34	BA	207	A	C8-N9-C4	5.94	108.18	105.80
34	BA	224	G	O3'-P-O5'	-5.94	92.71	104.00
34	BA	721	A	P-O3'-C3'	-5.94	112.57	119.70
34	BA	1483	U	O4'-C1'-C2'	5.94	112.95	107.60
34	BA	1594	G	O4'-C1'-N9	5.94	112.95	108.20
35	BB	166	C	O4'-C1'-N1	5.94	112.95	108.20
35	BB	520	G	N1-C6-O6	5.94	123.46	119.90
35	BB	562	A	O4'-C1'-N9	5.94	112.95	108.20
35	BB	631	G	C5-N7-C8	-5.94	101.33	104.30
36	BC	36	G	C3'-C2'-C1'	-5.94	96.75	101.50
36	BC	132	U	O3'-P-O5'	5.94	115.29	104.00
41	BH	39	G	O5'-P-OP1	5.94	117.83	110.70
85	AA	198	U	C6-N1-C2	-5.94	117.44	121.00
85	AA	514	U	N3-C4-C5	5.94	118.17	114.60
85	AA	1172	A	C5-C6-N6	-5.94	118.95	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1773	U	O4'-C1'-N1	5.94	112.95	108.20
31	AX	44	ARG	NE-CZ-NH1	5.94	123.27	120.30
34	BA	1418	G	C4-N9-C1'	-5.94	118.78	126.50
34	BA	1499	A	C6-N1-C2	-5.94	115.04	118.60
34	BA	1507	C	C5'-C4'-C3'	5.94	125.50	116.00
35	BB	1011	C	C6-N1-C2	-5.94	117.92	120.30
35	BB	1026	G	C4-N9-C1'	-5.94	118.78	126.50
40	BG	65	C	C6-N1-C2	-5.94	117.92	120.30
40	BG	176	G	P-O3'-C3'	-5.94	112.57	119.70
41	BH	6	U	O4'-C1'-N1	5.94	112.95	108.20
85	AA	1640	G	N1-C6-O6	5.94	123.46	119.90
85	AA	1671	G	C5'-C4'-C3'	-5.94	106.50	116.00
34	BA	99	G	N1-C2-N3	5.94	127.46	123.90
34	BA	826	C	C6-N1-C2	-5.94	117.92	120.30
34	BA	1205	A	C4'-C3'-C2'	-5.94	96.66	102.60
34	BA	1587	C	C5'-C4'-C3'	-5.94	106.50	116.00
34	BA	1776	G	C5'-C4'-C3'	5.94	125.50	116.00
35	BB	698	C	C6-N1-C2	-5.94	117.92	120.30
35	BB	775	U	O4'-C1'-C2'	5.94	112.94	107.60
35	BB	1335	G	C4-N9-C1'	-5.94	118.78	126.50
35	BB	1389	C	C5'-C4'-C3'	-5.94	106.50	116.00
35	BB	1536	G	C3'-C2'-C1'	-5.94	96.75	101.50
85	AA	749	C	N3-C4-N4	-5.94	113.84	118.00
85	AA	1487	G	N7-C8-N9	-5.94	110.13	113.10
85	AA	1932	C	C5'-C4'-C3'	5.94	125.50	116.00
85	AA	2158	U	O4'-C1'-N1	5.94	112.95	108.20
1	A0	138	ARG	NE-CZ-NH2	-5.94	117.33	120.30
8	A7	34	THR	CA-CB-CG2	-5.94	104.09	112.40
34	BA	144	C	C5'-C4'-C3'	-5.94	106.50	116.00
35	BB	1202	G	N1-C6-O6	5.94	123.46	119.90
36	BC	95	A	P-O5'-C5'	5.94	130.40	120.90
36	BC	118	U	N3-C2-O2	-5.94	118.05	122.20
38	BE	23	G	O4'-C4'-C3'	-5.94	98.06	104.00
41	BH	41	A	C8-N9-C1'	5.94	138.38	127.70
85	AA	1029	G	O4'-C1'-N9	5.94	112.95	108.20
85	AA	1644	G	N1-C2-N2	-5.94	110.86	116.20
34	BA	734	G	C4'-C3'-C2'	-5.93	96.67	102.60
35	BB	380	G	N9-C4-C5	5.93	107.77	105.40
35	BB	880	G	P-O5'-C5'	5.93	130.39	120.90
35	BB	1371	G	C4-N9-C1'	-5.93	118.78	126.50
35	BB	1452	U	O5'-P-OP2	-5.93	100.36	105.70
35	BB	1505	U	P-O3'-C3'	-5.93	112.58	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	39	G	P-O3'-C3'	-5.93	112.58	119.70
38	BE	136	G	O4'-C1'-C2'	5.93	112.94	107.60
85	AA	71	G	N1-C6-O6	-5.93	116.34	119.90
85	AA	708	G	C8-N9-C1'	5.93	134.72	127.00
85	AA	1478	G	C5'-C4'-C3'	-5.93	106.51	116.00
85	AA	2113	U	C4'-C3'-C2'	-5.93	96.67	102.60
30	AW	5	ASP	N-CA-CB	-5.93	99.92	110.60
34	BA	15	G	N9-C4-C5	-5.93	103.03	105.40
34	BA	499	C	C5'-C4'-C3'	5.93	125.49	116.00
34	BA	665	C	N1-C2-N3	5.93	123.35	119.20
34	BA	1646	U	C6-N1-C2	-5.93	117.44	121.00
35	BB	983	C	C6-N1-C1'	-5.93	113.68	120.80
35	BB	1202	G	N9-C4-C5	-5.93	103.03	105.40
40	BG	5	G	N3-C2-N2	5.93	124.05	119.90
40	BG	59	G	P-O3'-C3'	-5.93	112.58	119.70
40	BG	75	C	P-O3'-C3'	5.93	126.82	119.70
40	BG	116	G	C4-N9-C1'	-5.93	118.79	126.50
85	AA	585	G	C5-C6-N1	5.93	114.47	111.50
85	AA	784	C	C5-C6-N1	5.93	123.97	121.00
85	AA	1214	C	P-O5'-C5'	5.93	130.39	120.90
85	AA	1415	G	C4'-C3'-C2'	5.93	108.53	102.60
85	AA	1484	G	C5-C6-N1	5.93	114.47	111.50
85	AA	1921	G	N3-C4-C5	-5.93	125.63	128.60
86	AB	45	U	O4'-C1'-N1	5.93	112.95	108.20
34	BA	768	G	N9-C4-C5	-5.93	103.03	105.40
34	BA	1600	G	C4-N9-C1'	-5.93	118.79	126.50
35	BB	625	A	C1'-O4'-C4'	-5.93	105.16	109.90
35	BB	1022	C	N1-C1'-C2'	-5.93	105.48	112.00
35	BB	1145	G	C5-N7-C8	-5.93	101.33	104.30
35	BB	1369	A	C6-N1-C2	-5.93	115.04	118.60
36	BC	17	U	C6-N1-C1'	-5.93	112.90	121.20
53	BT	52	ARG	NE-CZ-NH2	-5.93	117.33	120.30
85	AA	1855	U	C5'-C4'-C3'	-5.93	106.51	116.00
3	A2	80	ARG	NE-CZ-NH1	5.93	123.27	120.30
34	BA	832	C	C5'-C4'-C3'	-5.93	106.51	116.00
34	BA	1232	C	C6-N1-C2	-5.93	117.93	120.30
35	BB	558	U	C5'-C4'-C3'	-5.93	106.51	116.00
35	BB	1316	U	O4'-C1'-N1	5.93	112.94	108.20
35	BB	1334	C	N1-C1'-C2'	-5.93	105.48	112.00
36	BC	74	U	C2-N3-C4	-5.93	123.44	127.00
38	BE	180	G	OP2-P-O3'	5.93	118.25	105.20
38	BE	185	G	O4'-C1'-N9	5.93	112.94	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BN	54	ARG	NE-CZ-NH1	5.93	123.27	120.30
81	Bv	6	LYS	C-N-CA	5.93	136.52	121.70
85	AA	20	G	N3-C2-N2	-5.93	115.75	119.90
85	AA	32	U	C4-C5-C6	-5.93	116.14	119.70
85	AA	552	C	C5-C4-N4	-5.93	116.05	120.20
85	AA	920	A	C5'-C4'-C3'	5.93	125.49	116.00
34	BA	12	G	N3-C2-N2	-5.93	115.75	119.90
34	BA	133	A	C5'-C4'-C3'	5.93	125.49	116.00
34	BA	1525	G	O4'-C4'-C3'	-5.93	98.07	104.00
34	BA	1808	A	C5'-C4'-O4'	5.93	116.21	109.10
35	BB	438	G	C3'-C2'-C1'	-5.93	96.76	101.50
35	BB	778	A	O5'-C5'-C4'	-5.93	100.44	111.70
35	BB	1202	G	C8-N9-C1'	-5.93	119.29	127.00
35	BB	1444	U	O4'-C1'-N1	5.93	112.94	108.20
41	BH	9	C	N3-C2-O2	-5.93	117.75	121.90
41	BH	124	C	C3'-C2'-C1'	-5.93	96.76	101.50
85	AA	273	C	C2-N1-C1'	-5.93	112.28	118.80
85	AA	1313	C	O4'-C1'-N1	5.93	112.94	108.20
86	AB	62	C	C2-N1-C1'	-5.93	112.28	118.80
34	BA	47	U	N3-C2-O2	-5.93	118.05	122.20
34	BA	1495	A	O4'-C4'-C3'	-5.93	98.07	104.00
35	BB	590	G	N1-C2-N2	-5.93	110.87	116.20
35	BB	728	A	N9-C4-C5	5.93	108.17	105.80
35	BB	1099	U	O3'-P-O5'	-5.93	92.74	104.00
35	BB	1196	A	C2-N3-C4	-5.93	107.64	110.60
37	BD	11	A	N1-C6-N6	-5.93	115.05	118.60
38	BE	74	U	C5'-C4'-C3'	-5.93	106.52	116.00
65	Bf	459	ARG	NE-CZ-NH1	5.93	123.26	120.30
85	AA	493	A	C3'-C2'-C1'	-5.93	96.76	101.50
85	AA	735	G	C6-N1-C2	-5.93	121.54	125.10
85	AA	1246	G	C6-N1-C2	-5.93	121.54	125.10
85	AA	1987	G	N1-C6-O6	5.93	123.46	119.90
34	BA	101	G	N1-C2-N2	-5.92	110.87	116.20
34	BA	209	A	C4-N9-C1'	-5.92	115.63	126.30
34	BA	903	C	C6-N1-C2	-5.92	117.93	120.30
34	BA	1061	A	C1'-O4'-C4'	-5.92	105.16	109.90
34	BA	1454	G	N3-C2-N2	-5.92	115.75	119.90
34	BA	1739	G	O4'-C1'-N9	5.92	112.94	108.20
34	BA	1782	C	N1-C2-O2	5.92	122.45	118.90
35	BB	1026	G	N9-C4-C5	-5.92	103.03	105.40
35	BB	1078	U	P-O5'-C5'	-5.92	111.42	120.90
35	BB	1152	U	C5-C6-N1	-5.92	119.74	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	24	G	C5-C6-O6	-5.92	125.05	128.60
38	BE	28	C	C1'-O4'-C4'	-5.92	105.16	109.90
40	BG	138	C	C6-N1-C2	-5.92	117.93	120.30
41	BH	111	U	P-O5'-C5'	5.92	130.38	120.90
85	AA	14	C	N3-C2-O2	-5.92	117.75	121.90
85	AA	561	C	C6-N1-C2	-5.92	117.93	120.30
85	AA	687	G	N3-C4-N9	5.92	129.55	126.00
85	AA	836	A	C1'-O4'-C4'	-5.92	105.16	109.90
85	AA	841	U	O4'-C1'-N1	5.92	112.94	108.20
85	AA	917	A	O4'-C1'-N9	5.92	112.94	108.20
85	AA	1185	G	N9-C1'-C2'	-5.92	105.48	112.00
85	AA	1211	C	N1-C2-N3	5.92	123.35	119.20
85	AA	1289	U	N3-C2-O2	-5.92	118.05	122.20
85	AA	1298	G	C8-N9-C1'	5.92	134.70	127.00
85	AA	1665	G	P-O3'-C3'	-5.92	112.59	119.70
85	AA	1729	C	C1'-O4'-C4'	-5.92	105.16	109.90
85	AA	1998	A	C5-C6-N6	-5.92	118.96	123.70
85	AA	2054	G	C8-N9-C1'	5.92	134.70	127.00
85	AA	2137	A	N1-C6-N6	5.92	122.16	118.60
86	AB	15	G	O3'-P-O5'	5.92	115.25	104.00
34	BA	49	A	N9-C1'-C2'	-5.92	105.48	112.00
35	BB	17	U	O5'-C5'-C4'	-5.92	100.45	111.70
35	BB	1432	U	N3-C2-O2	-5.92	118.05	122.20
80	Bu	194	ASP	N-CA-CB	-5.92	99.94	110.60
85	AA	714	U	O4'-C1'-N1	5.92	112.94	108.20
85	AA	1145	U	O4'-C1'-N1	5.92	112.94	108.20
85	AA	1751	G	C2'-C3'-O3'	5.92	123.18	113.70
6	A5	121	LEU	CB-CA-C	-5.92	98.95	110.20
11	AC	77	ARG	NE-CZ-NH1	5.92	123.26	120.30
34	BA	14	G	C4-C5-C6	-5.92	115.25	118.80
34	BA	210	G	C5'-C4'-O4'	-5.92	102.00	109.10
34	BA	322	U	C1'-O4'-C4'	-5.92	105.16	109.90
34	BA	671	C	N3-C2-O2	-5.92	117.75	121.90
34	BA	888	G	O4'-C1'-C2'	5.92	112.93	107.60
34	BA	938	C	C2-N3-C4	-5.92	116.94	119.90
35	BB	513	G	C8-N9-C1'	5.92	134.70	127.00
35	BB	529	A	C5'-C4'-C3'	5.92	125.47	116.00
35	BB	546	A	C2-N3-C4	5.92	113.56	110.60
35	BB	599	U	N1-C1'-C2'	-5.92	105.49	112.00
35	BB	626	C	C5'-C4'-C3'	-5.92	106.52	116.00
36	BC	12	A	C5-C6-N6	-5.92	118.96	123.70
36	BC	87	C	P-O3'-C3'	-5.92	112.59	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	20	C	C6-N1-C2	5.92	122.67	120.30
38	BE	206	G	C4-N9-C1'	-5.92	118.80	126.50
40	BG	90	G	C5-C6-N1	5.92	114.46	111.50
65	Bf	405	SER	N-CA-C	5.92	126.99	111.00
77	Br	303	LYS	C-N-CA	5.92	136.50	121.70
85	AA	28	A	C8-N9-C4	5.92	108.17	105.80
85	AA	682	C	C5'-C4'-O4'	5.92	116.21	109.10
85	AA	748	C	C1'-O4'-C4'	-5.92	105.16	109.90
85	AA	982	G	N7-C8-N9	-5.92	110.14	113.10
85	AA	1466	U	C5-C6-N1	-5.92	119.74	122.70
34	BA	779	U	C6-N1-C2	-5.92	117.45	121.00
34	BA	1091	U	C2-N1-C1'	-5.92	110.59	117.70
35	BB	104	G	C1'-O4'-C4'	-5.92	105.16	109.90
35	BB	1315	C	N3-C4-C5	5.92	124.27	121.90
38	BE	168	C	N3-C2-O2	-5.92	117.76	121.90
85	AA	97	A	N7-C8-N9	-5.92	110.84	113.80
34	BA	647	U	OP1-P-O3'	5.92	118.22	105.20
34	BA	888	G	O4'-C1'-N9	5.92	112.94	108.20
34	BA	1057	C	P-O3'-C3'	5.92	126.80	119.70
34	BA	1398	C	O4'-C1'-N1	5.92	112.93	108.20
34	BA	1846	G	O4'-C1'-N9	5.92	112.94	108.20
35	BB	35	G	C5-C6-N1	5.92	114.46	111.50
35	BB	963	G	O4'-C1'-N9	5.92	112.94	108.20
38	BE	23	G	P-O3'-C3'	-5.92	112.60	119.70
38	BE	34	C	P-O3'-C3'	-5.92	112.60	119.70
40	BG	154	C	P-O3'-C3'	-5.92	112.60	119.70
62	Bc	97	ASP	CB-CA-C	5.92	122.24	110.40
85	AA	90	A	C5'-C4'-C3'	-5.92	106.53	116.00
85	AA	1023	U	C6-N1-C2	-5.92	117.45	121.00
85	AA	1728	G	C5-C6-O6	-5.92	125.05	128.60
34	BA	1488	C	C2'-C3'-O3'	5.92	123.17	113.70
35	BB	1523	U	C2-N1-C1'	-5.92	110.60	117.70
38	BE	37	C	C5-C6-N1	5.92	123.96	121.00
40	BG	106	G	C2-N3-C4	-5.92	108.94	111.90
65	Bf	113	ARG	NE-CZ-NH1	5.92	123.26	120.30
70	Bk	59	MET	CA-CB-CG	5.92	123.36	113.30
85	AA	1970	A	C8-N9-C1'	5.92	138.35	127.70
34	BA	115	U	O5'-C5'-C4'	-5.92	100.46	111.70
34	BA	306	G	C4-N9-C1'	-5.92	118.81	126.50
34	BA	1226	G	P-O5'-C5'	-5.92	111.44	120.90
34	BA	1680	G	C4'-C3'-C2'	5.92	108.52	102.60
35	BB	706	G	C3'-C2'-C1'	-5.92	96.77	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	767	A	P-O5'-C5'	-5.92	111.44	120.90
37	BD	75	G	N1-C2-N2	5.92	121.52	116.20
37	BD	83	A	N9-C1'-C2'	5.92	121.69	114.00
59	BZ	7	ARG	NE-CZ-NH1	5.92	123.26	120.30
85	AA	283	A	P-O5'-C5'	5.92	130.36	120.90
85	AA	475	A	N1-C6-N6	-5.92	115.05	118.60
85	AA	1551	G	C4-N9-C1'	5.92	134.19	126.50
85	AA	1583	U	P-O3'-C3'	5.92	126.80	119.70
85	AA	2169	C	C2-N1-C1'	-5.92	112.29	118.80
34	BA	237	A	C4-N9-C1'	-5.91	115.66	126.30
34	BA	271	C	C2-N1-C1'	5.91	125.30	118.80
34	BA	840	U	C3'-C2'-C1'	-5.91	96.77	101.50
34	BA	1147	C	C2'-C3'-O3'	5.91	123.16	113.70
34	BA	1378	A	P-O5'-C5'	-5.91	111.44	120.90
35	BB	428	G	O4'-C4'-C3'	-5.91	98.09	104.00
35	BB	796	C	C5'-C4'-O4'	5.91	116.20	109.10
35	BB	897	C	C5'-C4'-O4'	5.91	116.20	109.10
35	BB	1018	U	O4'-C1'-N1	5.91	112.93	108.20
36	BC	37	U	C6-N1-C1'	-5.91	112.92	121.20
36	BC	141	C	C1'-O4'-C4'	-5.91	105.17	109.90
40	BG	47	G	O4'-C1'-N9	5.91	112.93	108.20
40	BG	139	U	C1'-O4'-C4'	-5.91	105.17	109.90
40	BG	180	C	P-O5'-C5'	-5.91	111.44	120.90
41	BH	60	A	P-O3'-C3'	5.91	126.80	119.70
77	Br	113	LYS	CB-CA-C	-5.91	98.57	110.40
83	Bx	61	ARG	NE-CZ-NH1	5.91	123.26	120.30
85	AA	426	C	N1-C2-O2	5.91	122.45	118.90
85	AA	1272	G	P-O3'-C3'	-5.91	112.60	119.70
85	AA	2208	G	C8-N9-C1'	5.91	134.69	127.00
17	AI	122	TYR	CB-CG-CD1	-5.91	117.45	121.00
34	BA	426	A	OP1-P-OP2	-5.91	110.73	119.60
34	BA	738	C	C6-N1-C2	-5.91	117.94	120.30
38	BE	169	C	P-O3'-C3'	5.91	126.80	119.70
40	BG	112	C	C6-N1-C1'	5.91	127.89	120.80
42	BI	39	ARG	NE-CZ-NH1	5.91	123.26	120.30
70	Bk	59	MET	CG-SD-CE	-5.91	90.74	100.20
4	A3	95	ARG	N-CA-C	-5.91	95.04	111.00
34	BA	180	G	O4'-C1'-N9	5.91	112.93	108.20
34	BA	619	U	O4'-C1'-N1	5.91	112.93	108.20
34	BA	871	G	P-O5'-C5'	-5.91	111.44	120.90
34	BA	1060	C	C1'-O4'-C4'	-5.91	105.17	109.90
34	BA	1262	A	O5'-C5'-C4'	-5.91	100.47	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	139	G	C8-N9-C4	5.91	108.76	106.40
35	BB	273	G	O4'-C1'-N9	5.91	112.93	108.20
35	BB	1459	U	P-O3'-C3'	-5.91	112.61	119.70
38	BE	140	G	N1-C6-O6	-5.91	116.35	119.90
39	BF	71	G	P-O3'-C3'	-5.91	112.61	119.70
49	BP	167	ALA	N-CA-CB	5.91	118.38	110.10
85	AA	130	G	C5'-C4'-C3'	-5.91	106.54	116.00
85	AA	996	A	P-O5'-C5'	-5.91	111.44	120.90
85	AA	1277	C	N3-C4-N4	5.91	122.14	118.00
85	AA	1560	A	C2'-C3'-O3'	5.91	123.16	113.70
85	AA	1794	U	N3-C2-O2	-5.91	118.06	122.20
34	BA	296	G	C4-C5-C6	-5.91	115.25	118.80
34	BA	530	A	C4'-C3'-C2'	5.91	108.51	102.60
34	BA	628	U	N3-C2-O2	-5.91	118.06	122.20
34	BA	669	U	O4'-C4'-C3'	-5.91	98.09	104.00
34	BA	921	G	C5'-C4'-C3'	-5.91	106.55	116.00
34	BA	1112	U	C2-N1-C1'	-5.91	110.61	117.70
34	BA	1404	A	C4-N9-C1'	-5.91	115.66	126.30
34	BA	1839	G	C5'-C4'-C3'	-5.91	106.55	116.00
35	BB	742	G	C8-N9-C4	-5.91	104.04	106.40
35	BB	1187	G	N3-C4-C5	-5.91	125.65	128.60
85	AA	362	G	C8-N9-C4	5.91	108.76	106.40
85	AA	398	U	C5'-C4'-C3'	5.91	125.45	116.00
85	AA	744	C	O4'-C1'-N1	5.91	112.93	108.20
85	AA	982	G	N3-C4-C5	5.91	131.55	128.60
85	AA	1524	A	N1-C6-N6	5.91	122.14	118.60
85	AA	1658	G	C6-N1-C2	-5.91	121.55	125.10
85	AA	2017	U	C5'-C4'-C3'	-5.91	106.55	116.00
85	AA	2239	A	C4'-C3'-C2'	-5.91	96.69	102.60
34	BA	160	G	C4'-C3'-C2'	-5.91	96.69	102.60
34	BA	633	G	C1'-O4'-C4'	-5.91	105.17	109.90
34	BA	1383	U	P-O5'-C5'	-5.91	111.45	120.90
35	BB	1254	G	C1'-O4'-C4'	5.91	114.63	109.90
41	BH	101	A	C5-C6-N1	5.91	120.65	117.70
85	AA	250	C	C2-N1-C1'	-5.91	112.30	118.80
85	AA	2085	C	N1-C1'-C2'	-5.91	105.50	112.00
34	BA	904	G	O4'-C1'-C2'	5.91	112.92	107.60
34	BA	1244	G	P-O3'-C3'	-5.91	112.61	119.70
34	BA	1613	G	C4-C5-N7	5.91	113.16	110.80
34	BA	1667	G	P-O5'-C5'	-5.91	111.45	120.90
35	BB	638	G	O5'-C5'-C4'	-5.91	100.48	111.70
35	BB	1183	U	C2-N3-C4	-5.91	123.46	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	116	C	C5'-C4'-C3'	-5.91	106.55	116.00
38	BE	58	U	O3'-P-O5'	-5.91	92.78	104.00
38	BE	114	G	O4'-C1'-N9	5.91	112.92	108.20
38	BE	177	U	C2-N3-C4	5.91	130.54	127.00
40	BG	86	U	O4'-C1'-N1	5.91	112.92	108.20
14	AF	59	ARG	NE-CZ-NH1	5.90	123.25	120.30
34	BA	184	C	C4'-C3'-C2'	-5.90	96.70	102.60
34	BA	608	G	P-O5'-C5'	-5.90	111.45	120.90
34	BA	1562	G	N1-C6-O6	-5.90	116.36	119.90
35	BB	1024	G	C5-C6-O6	-5.90	125.06	128.60
35	BB	1168	G	C3'-C2'-C1'	-5.90	96.78	101.50
40	BG	76	C	C6-N1-C1'	-5.90	113.72	120.80
40	BG	162	A	C2'-C3'-O3'	5.90	123.15	113.70
85	AA	1677	A	O4'-C1'-N9	5.90	112.92	108.20
34	BA	492	G	C4'-C3'-C2'	5.90	108.50	102.60
34	BA	1043	C	N3-C2-O2	-5.90	117.77	121.90
34	BA	1172	C	N1-C2-O2	5.90	122.44	118.90
34	BA	1309	U	C2-N1-C1'	5.90	124.78	117.70
34	BA	1462	U	P-O5'-C5'	-5.90	111.46	120.90
35	BB	681	G	C3'-C2'-C1'	-5.90	96.78	101.50
37	BD	17	G	C1'-O4'-C4'	-5.90	105.18	109.90
40	BG	10	U	N1-C1'-C2'	-5.90	105.51	112.00
40	BG	41	U	C5'-C4'-C3'	-5.90	106.56	116.00
41	BH	108	U	C5-C4-O4	-5.90	122.36	125.90
85	AA	216	U	C2-N1-C1'	5.90	124.78	117.70
85	AA	388	G	N1-C6-O6	5.90	123.44	119.90
85	AA	449	G	O4'-C1'-N9	5.90	112.92	108.20
85	AA	981	A	C4'-C3'-C2'	-5.90	96.70	102.60
85	AA	1432	C	C6-N1-C1'	-5.90	113.72	120.80
85	AA	1488	G	N9-C1'-C2'	-5.90	105.51	112.00
85	AA	1566	A	P-O3'-C3'	-5.90	112.62	119.70
34	BA	247	U	P-O5'-C5'	5.90	130.34	120.90
34	BA	688	G	C5-C6-N1	5.90	114.45	111.50
34	BA	1211	G	N3-C4-N9	-5.90	122.46	126.00
34	BA	1266	A	P-O5'-C5'	5.90	130.34	120.90
35	BB	368	C	P-O3'-C3'	-5.90	112.62	119.70
35	BB	1524	G	N9-C1'-C2'	-5.90	105.51	112.00
36	BC	169	G	N3-C2-N2	-5.90	115.77	119.90
39	BF	34	C	N1-C1'-C2'	-5.90	105.51	112.00
40	BG	24	A	N3-C4-N9	-5.90	122.68	127.40
75	Bp	28	ASN	N-CA-C	-5.90	95.07	111.00
85	AA	122	A	O4'-C4'-C3'	-5.90	98.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	306	C	N3-C4-N4	5.90	122.13	118.00
85	AA	338	G	O4'-C1'-N9	5.90	112.92	108.20
85	AA	2037	A	C5'-C4'-C3'	-5.90	106.56	116.00
85	AA	2116	U	C2-N3-C4	-5.90	123.46	127.00
85	AA	2241	C	N3-C2-O2	-5.90	117.77	121.90
86	AB	52	G	C3'-C2'-C1'	-5.90	96.78	101.50
34	BA	202	A	C8-N9-C4	5.90	108.16	105.80
34	BA	586	G	C4'-C3'-C2'	-5.90	96.70	102.60
34	BA	668	G	C6-N1-C2	-5.90	121.56	125.10
34	BA	1070	G	O5'-P-OP2	-5.90	100.39	105.70
34	BA	1094	U	N3-C2-O2	-5.90	118.07	122.20
34	BA	1451	A	C6-N1-C2	-5.90	115.06	118.60
34	BA	1554	C	P-O5'-C5'	-5.90	111.46	120.90
34	BA	1778	U	C6-N1-C2	-5.90	117.46	121.00
34	BA	1818	A	N1-C6-N6	-5.90	115.06	118.60
35	BB	553	U	C2-N3-C4	-5.90	123.46	127.00
35	BB	1540	U	C5'-C4'-C3'	5.90	125.44	116.00
37	BD	100	A	C5-N7-C8	-5.90	100.95	103.90
41	BH	127	A	OP1-P-O3'	5.90	118.18	105.20
85	AA	1355	U	C6-N1-C1'	5.90	129.46	121.20
85	AA	1586	C	C1'-O4'-C4'	-5.90	105.18	109.90
8	A7	34	THR	N-CA-CB	5.90	121.51	110.30
17	AI	133	VAL	CA-CB-CG1	5.90	119.75	110.90
34	BA	590	U	C6-N1-C1'	5.90	129.46	121.20
34	BA	701	G	C3'-C2'-C1'	-5.90	96.78	101.50
34	BA	760	G	O3'-P-O5'	-5.90	92.80	104.00
34	BA	1673	G	N1-C2-N2	-5.90	110.89	116.20
35	BB	153	G	C5-C6-O6	-5.90	125.06	128.60
35	BB	610	U	N3-C2-O2	-5.90	118.07	122.20
35	BB	1222	A	C2-N3-C4	-5.90	107.65	110.60
35	BB	1246	C	C5'-C4'-C3'	-5.90	106.56	116.00
35	BB	1290	C	O4'-C1'-N1	5.90	112.92	108.20
35	BB	1546	C	C1'-O4'-C4'	-5.90	105.18	109.90
36	BC	140	U	C4'-C3'-C2'	5.90	108.50	102.60
85	AA	734	C	C6-N1-C2	-5.90	117.94	120.30
85	AA	767	A	O4'-C4'-C3'	-5.90	98.10	104.00
85	AA	1657	C	C2-N1-C1'	-5.90	112.31	118.80
85	AA	2100	A	C5-C6-N1	5.90	120.65	117.70
11	AC	211	TYR	N-CA-CB	-5.90	99.99	110.60
34	BA	1486	U	N3-C4-C5	5.90	118.14	114.60
35	BB	545	C	C6-N1-C1'	-5.90	113.72	120.80
38	BE	95	G	C8-N9-C1'	5.90	134.66	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	569	A	C8-N9-C4	-5.90	103.44	105.80
85	AA	1028	C	O4'-C1'-N1	5.90	112.92	108.20
85	AA	2110	U	N1-C1'-C2'	-5.90	105.51	112.00
34	BA	162	G	C8-N9-C4	5.89	108.76	106.40
34	BA	838	U	O5'-C5'-C4'	-5.89	100.50	111.70
34	BA	1134	A	P-O3'-C3'	-5.89	112.63	119.70
34	BA	1153	C	O4'-C1'-N1	5.89	112.92	108.20
34	BA	1166	A	C8-N9-C1'	5.89	138.31	127.70
38	BE	73	A	C5-C6-N6	-5.89	118.98	123.70
38	BE	182	U	C5'-C4'-O4'	5.89	116.17	109.10
39	BF	9	C	C2-N3-C4	-5.89	116.95	119.90
52	BS	69	ARG	NE-CZ-NH2	-5.89	117.35	120.30
61	Bb	61	TYR	CB-CG-CD2	-5.89	117.46	121.00
67	Bh	38	TRP	CA-CB-CG	5.89	124.90	113.70
85	AA	95	U	C1'-O4'-C4'	-5.89	105.18	109.90
85	AA	113	U	O4'-C1'-N1	5.89	112.92	108.20
85	AA	120	C	N1-C1'-C2'	-5.89	105.52	112.00
85	AA	148	G	N3-C2-N2	5.89	124.03	119.90
85	AA	442	G	C2-N3-C4	5.89	114.85	111.90
85	AA	517	A	C5-N7-C8	-5.89	100.95	103.90
85	AA	749	C	P-O5'-C5'	5.89	130.33	120.90
85	AA	1354	A	C4'-C3'-C2'	-5.89	96.71	102.60
85	AA	1822	G	N3-C2-N2	5.89	124.03	119.90
85	AA	2148	C	O4'-C1'-N1	5.89	112.92	108.20
25	AR	7	TYR	N-CA-C	-5.89	95.09	111.00
34	BA	77	C	N3-C2-O2	-5.89	117.78	121.90
34	BA	851	C	C6-N1-C2	-5.89	117.94	120.30
34	BA	1411	C	N3-C2-O2	-5.89	117.78	121.90
34	BA	1667	G	C4-N9-C1'	-5.89	118.84	126.50
35	BB	458	U	N3-C2-O2	-5.89	118.08	122.20
35	BB	522	A	O4'-C1'-N9	-5.89	103.49	108.20
35	BB	589	U	P-O3'-C3'	-5.89	112.63	119.70
35	BB	799	A	C5-C6-N1	5.89	120.65	117.70
35	BB	1021	C	P-O3'-C3'	-5.89	112.63	119.70
35	BB	1467	A	N9-C1'-C2'	-5.89	105.52	112.00
40	BG	164	U	C5'-C4'-O4'	5.89	116.17	109.10
85	AA	15	U	C6-N1-C2	-5.89	117.46	121.00
85	AA	23	G	C1'-O4'-C4'	-5.89	105.19	109.90
85	AA	542	G	O4'-C1'-N9	5.89	112.91	108.20
85	AA	869	A	N1-C6-N6	5.89	122.14	118.60
34	BA	36	A	C8-N9-C1'	5.89	138.30	127.70
34	BA	203	U	P-O3'-C3'	-5.89	112.63	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	211	C	N1-C2-N3	5.89	123.32	119.20
34	BA	480	G	N3-C4-C5	5.89	131.54	128.60
34	BA	863	G	OP1-P-OP2	-5.89	110.76	119.60
34	BA	1246	G	P-O5'-C5'	-5.89	111.47	120.90
34	BA	1729	G	C4'-C3'-C2'	-5.89	96.71	102.60
35	BB	778	A	N1-C2-N3	-5.89	126.36	129.30
38	BE	107	U	N3-C2-O2	5.89	126.32	122.20
41	BH	31	A	O4'-C1'-C2'	5.89	112.90	107.60
85	AA	1797	U	N3-C4-C5	5.89	118.14	114.60
86	AB	53	G	C1'-O4'-C4'	-5.89	105.19	109.90
34	BA	23	A	C6-N1-C2	-5.89	115.07	118.60
34	BA	165	C	C4-C5-C6	5.89	120.34	117.40
34	BA	277	A	C1'-O4'-C4'	-5.89	105.19	109.90
34	BA	290	G	O5'-C5'-C4'	-5.89	100.51	111.70
34	BA	1314	A	N1-C6-N6	5.89	122.13	118.60
35	BB	1290	C	O3'-P-O5'	5.89	115.19	104.00
35	BB	1515	C	N1-C2-N3	5.89	123.32	119.20
36	BC	81	U	O5'-C5'-C4'	-5.89	100.51	111.70
37	BD	18	G	C3'-C2'-C1'	-5.89	96.79	101.50
37	BD	113	G	C5-C6-O6	-5.89	125.07	128.60
38	BE	79	G	P-O3'-C3'	-5.89	112.63	119.70
38	BE	143	A	N1-C6-N6	-5.89	115.07	118.60
41	BH	54	U	P-O3'-C3'	-5.89	112.63	119.70
42	BI	20	TYR	CB-CG-CD1	-5.89	117.47	121.00
85	AA	65	A	C5'-C4'-O4'	-5.89	102.03	109.10
85	AA	283	A	C5-N7-C8	-5.89	100.95	103.90
85	AA	921	C	N1-C2-O2	5.89	122.43	118.90
85	AA	1447	U	N3-C2-O2	-5.89	118.08	122.20
85	AA	1533	C	O4'-C1'-N1	5.89	112.91	108.20
85	AA	1606	G	O4'-C1'-N9	5.89	112.91	108.20
86	AB	69	G	C4-N9-C1'	-5.89	118.84	126.50
2	A1	64	GLN	C-N-CA	5.89	134.66	122.30
35	BB	854	G	O4'-C1'-N9	5.89	112.91	108.20
35	BB	1433	U	O5'-C5'-C4'	-5.89	100.51	111.70
35	BB	1456	G	O4'-C1'-N9	5.89	112.91	108.20
36	BC	7	U	C5'-C4'-C3'	-5.89	106.58	116.00
36	BC	56	G	N3-C2-N2	5.89	124.02	119.90
36	BC	155	C	C5'-C4'-O4'	5.89	116.17	109.10
41	BH	6	U	C6-N1-C1'	5.89	129.44	121.20
48	BO	36	ARG	CG-CD-NE	-5.89	99.43	111.80
85	AA	389	A	C5-C6-N1	5.89	120.64	117.70
85	AA	913	U	C5-C4-O4	-5.89	122.37	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	959	C	C6-N1-C2	-5.89	117.94	120.30
32	AY	40	TYR	CB-CG-CD2	-5.89	117.47	121.00
34	BA	405	C	N3-C2-O2	-5.89	117.78	121.90
34	BA	583	G	N1-C6-O6	-5.89	116.37	119.90
34	BA	586	G	O4'-C1'-N9	5.89	112.91	108.20
34	BA	1812	C	P-O3'-C3'	-5.89	112.64	119.70
35	BB	89	C	P-O5'-C5'	-5.89	111.48	120.90
35	BB	419	G	O4'-C1'-C2'	5.89	112.90	107.60
35	BB	573	C	C6-N1-C1'	-5.89	113.74	120.80
35	BB	1492	C	C2'-C3'-O3'	5.89	123.12	113.70
40	BG	136	G	N9-C1'-C2'	-5.89	105.53	112.00
52	BS	120	TYR	CB-CG-CD1	5.89	124.53	121.00
82	Bw	245	ARG	NE-CZ-NH1	5.89	123.24	120.30
85	AA	201	U	O4'-C1'-N1	5.89	112.91	108.20
85	AA	250	C	C5-C6-N1	5.89	123.94	121.00
85	AA	464	A	C8-N9-C4	-5.89	103.44	105.80
85	AA	743	C	C3'-C2'-C1'	-5.89	96.79	101.50
85	AA	884	A	C4-C5-C6	-5.89	114.06	117.00
85	AA	1241	A	N1-C6-N6	5.89	122.13	118.60
34	BA	298	G	OP1-P-O3'	5.88	118.14	105.20
34	BA	1088	G	C4-N9-C1'	-5.88	118.85	126.50
35	BB	498	G	C3'-C2'-C1'	-5.88	96.79	101.50
36	BC	4	G	C5'-C4'-C3'	5.88	125.41	116.00
38	BE	31	A	O3'-P-O5'	-5.88	92.82	104.00
38	BE	196	C	C6-N1-C2	-5.88	117.95	120.30
85	AA	92	G	O3'-P-O5'	-5.88	92.82	104.00
85	AA	440	U	O4'-C1'-N1	5.88	112.91	108.20
85	AA	1114	A	P-O5'-C5'	-5.88	111.48	120.90
85	AA	1483	A	C8-N9-C4	5.88	108.15	105.80
20	AL	5	ARG	CD-NE-CZ	5.88	131.84	123.60
34	BA	1314	A	N9-C1'-C2'	-5.88	105.53	112.00
34	BA	1538	G	N3-C4-C5	-5.88	125.66	128.60
35	BB	996	G	N1-C2-N3	-5.88	120.37	123.90
35	BB	999	G	C3'-C2'-C1'	-5.88	96.79	101.50
36	BC	29	C	N1-C2-O2	-5.88	115.37	118.90
36	BC	152	C	C2'-C3'-O3'	5.88	123.11	113.70
38	BE	15	A	C4'-C3'-C2'	-5.88	96.72	102.60
48	BO	219	PHE	CB-CG-CD2	-5.88	116.68	120.80
55	BV	50	TYR	CB-CG-CD2	-5.88	117.47	121.00
77	Br	217	ARG	NE-CZ-NH2	-5.88	117.36	120.30
85	AA	83	U	C2-N1-C1'	-5.88	110.64	117.70
85	AA	1931	C	C5'-C4'-O4'	-5.88	102.04	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2034	G	C5-C6-O6	-5.88	125.07	128.60
34	BA	947	A	C5'-C4'-C3'	-5.88	106.59	116.00
35	BB	487	A	C5-C6-N6	-5.88	119.00	123.70
35	BB	1495	U	C5'-C4'-C3'	-5.88	106.59	116.00
36	BC	21	U	P-O3'-C3'	-5.88	112.64	119.70
36	BC	95	A	O4'-C4'-C3'	-5.88	98.12	104.00
36	BC	118	U	O4'-C1'-N1	5.88	112.91	108.20
37	BD	27	A	C3'-C2'-C1'	-5.88	96.80	101.50
40	BG	49	A	C3'-C2'-C1'	-5.88	96.80	101.50
85	AA	854	A	OP1-P-OP2	-5.88	110.78	119.60
85	AA	881	C	C3'-C2'-C1'	-5.88	96.80	101.50
85	AA	1092	G	N7-C8-N9	5.88	116.04	113.10
85	AA	1174	G	C8-N9-C1'	5.88	134.65	127.00
85	AA	1368	G	C5'-C4'-O4'	5.88	116.16	109.10
85	AA	1591	U	O4'-C1'-N1	5.88	112.91	108.20
85	AA	2077	G	O3'-P-O5'	5.88	115.18	104.00
85	AA	2107	C	P-O3'-C3'	5.88	126.76	119.70
85	AA	2151	U	C2-N1-C1'	-5.88	110.64	117.70
34	BA	12	G	O5'-P-OP2	-5.88	100.41	105.70
34	BA	1104	C	C2-N3-C4	-5.88	116.96	119.90
34	BA	1450	G	OP1-P-OP2	-5.88	110.78	119.60
35	BB	74	U	C2-N3-C4	-5.88	123.47	127.00
37	BD	105	G	N9-C1'-C2'	-5.88	105.53	112.00
85	AA	1242	A	C1'-O4'-C4'	-5.88	105.20	109.90
15	AG	26	LEU	CB-CA-C	-5.88	99.03	110.20
34	BA	184	C	N3-C2-O2	-5.88	117.78	121.90
34	BA	250	G	C8-N9-C4	-5.88	104.05	106.40
34	BA	300	C	N1-C1'-C2'	-5.88	105.53	112.00
34	BA	311	C	O4'-C1'-N1	5.88	112.90	108.20
34	BA	404	C	C4'-C3'-C2'	5.88	108.48	102.60
34	BA	466	G	O5'-C5'-C4'	5.88	122.87	111.70
34	BA	752	A	P-O3'-C3'	5.88	126.75	119.70
34	BA	807	U	O4'-C1'-N1	5.88	112.90	108.20
34	BA	903	C	O4'-C1'-C2'	5.88	112.89	107.60
34	BA	970	U	O4'-C1'-N1	5.88	112.90	108.20
34	BA	1644	A	C5'-C4'-O4'	5.88	116.15	109.10
35	BB	661	G	N9-C4-C5	5.88	107.75	105.40
35	BB	768	A	C3'-C2'-C1'	-5.88	96.80	101.50
35	BB	792	G	C5-N7-C8	-5.88	101.36	104.30
37	BD	28	C	O4'-C1'-N1	5.88	112.90	108.20
40	BG	144	G	P-O3'-C3'	-5.88	112.65	119.70
85	AA	1129	A	P-O5'-C5'	-5.88	111.50	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1538	C	C5'-C4'-C3'	-5.88	106.59	116.00
85	AA	1733	G	C5'-C4'-C3'	5.88	125.41	116.00
34	BA	19	G	C5-C6-O6	5.88	132.13	128.60
34	BA	731	A	C3'-C2'-C1'	-5.88	96.80	101.50
34	BA	748	C	N3-C2-O2	-5.88	117.79	121.90
34	BA	843	G	N1-C2-N2	-5.88	110.91	116.20
34	BA	1108	U	C2-N1-C1'	-5.88	110.65	117.70
35	BB	156	G	N1-C6-O6	5.88	123.43	119.90
35	BB	1534	U	C2'-C3'-O3'	5.88	123.10	113.70
41	BH	32	U	C4'-C3'-C2'	-5.88	96.72	102.60
85	AA	1000	U	O4'-C1'-N1	-5.88	103.50	108.20
85	AA	1366	A	C5'-C4'-C3'	-5.88	106.60	116.00
85	AA	1905	A	C5-C6-N1	5.88	120.64	117.70
34	BA	170	U	P-O3'-C3'	-5.88	112.65	119.70
34	BA	713	C	O4'-C1'-N1	5.88	112.90	108.20
34	BA	1470	G	O4'-C1'-N9	5.88	112.90	108.20
34	BA	1503	U	C2-N3-C4	-5.88	123.47	127.00
35	BB	1044	U	O4'-C1'-N1	5.88	112.90	108.20
38	BE	51	C	C5-C4-N4	-5.88	116.09	120.20
38	BE	141	A	O5'-C5'-C4'	-5.88	100.54	111.70
41	BH	63	G	N3-C4-C5	-5.88	125.66	128.60
65	Bf	146	THR	CA-CB-CG2	-5.88	104.17	112.40
69	Bj	94	ARG	NE-CZ-NH1	5.88	123.24	120.30
77	Br	105	LYS	N-CA-C	5.88	126.86	111.00
77	Br	231	ASN	CA-CB-CG	-5.88	100.48	113.40
85	AA	669	G	O4'-C1'-N9	5.88	112.90	108.20
85	AA	997	U	C5'-C4'-C3'	-5.88	106.60	116.00
85	AA	2056	C	P-O3'-C3'	-5.88	112.65	119.70
85	AA	2112	G	P-O5'-C5'	5.88	130.30	120.90
34	BA	15	G	C4-C5-N7	5.87	113.15	110.80
34	BA	204	U	C1'-O4'-C4'	-5.87	105.20	109.90
34	BA	255	G	P-O5'-C5'	5.87	130.30	120.90
34	BA	921	G	C1'-O4'-C4'	-5.87	105.20	109.90
34	BA	1087	A	P-O3'-C3'	-5.87	112.65	119.70
34	BA	1289	C	P-O5'-C5'	-5.87	111.50	120.90
35	BB	421	U	C5'-C4'-C3'	5.87	125.40	116.00
35	BB	429	C	C4'-C3'-C2'	-5.87	96.73	102.60
35	BB	796	C	C1'-O4'-C4'	-5.87	105.20	109.90
35	BB	1196	A	O4'-C1'-C2'	5.87	112.89	107.60
35	BB	1283	C	C2-N3-C4	-5.87	116.96	119.90
36	BC	92	C	O4'-C1'-N1	5.87	112.90	108.20
36	BC	141	C	O3'-P-O5'	-5.87	92.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	10	C	N3-C4-N4	5.87	122.11	118.00
39	BF	64	U	O4'-C1'-N1	5.87	112.90	108.20
40	BG	25	G	C1'-O4'-C4'	-5.87	105.20	109.90
41	BH	29	G	C5-C6-N1	5.87	114.44	111.50
41	BH	39	G	O4'-C1'-N9	5.87	112.90	108.20
50	BQ	202	ARG	NE-CZ-NH1	5.87	123.24	120.30
63	Bd	21	ILE	N-CA-CB	5.87	124.31	110.80
85	AA	319	U	C5'-C4'-C3'	5.87	125.40	116.00
85	AA	1016	G	C4-N9-C1'	-5.87	118.86	126.50
85	AA	1247	A	C4-C5-C6	-5.87	114.06	117.00
85	AA	2172	A	N7-C8-N9	5.87	116.74	113.80
34	BA	1119	A	C1'-O4'-C4'	-5.87	105.20	109.90
34	BA	1503	U	C3'-C2'-C1'	-5.87	96.80	101.50
34	BA	1620	U	C2-N3-C4	-5.87	123.48	127.00
35	BB	380	G	N3-C2-N2	-5.87	115.79	119.90
35	BB	572	G	O4'-C1'-N9	5.87	112.90	108.20
35	BB	1066	G	C1'-O4'-C4'	-5.87	105.20	109.90
36	BC	136	G	C4-N9-C1'	-5.87	118.87	126.50
37	BD	2	G	C5'-C4'-C3'	5.87	125.39	116.00
37	BD	116	C	C3'-C2'-C1'	-5.87	96.80	101.50
44	BK	83	GLU	CB-CA-C	-5.87	98.66	110.40
50	BQ	174	LYS	C-N-CA	5.87	136.38	121.70
85	AA	138	C	C5'-C4'-C3'	5.87	125.39	116.00
85	AA	156	G	C8-N9-C1'	5.87	134.63	127.00
85	AA	168	A	N7-C8-N9	5.87	116.74	113.80
85	AA	185	A	C5-C6-N6	-5.87	119.00	123.70
85	AA	317	A	C5'-C4'-C3'	5.87	125.39	116.00
85	AA	400	G	P-O5'-C5'	-5.87	111.50	120.90
85	AA	530	A	C8-N9-C4	-5.87	103.45	105.80
85	AA	584	G	C6-C5-N7	-5.87	126.88	130.40
85	AA	758	C	C2-N1-C1'	-5.87	112.34	118.80
85	AA	1357	U	O4'-C1'-N1	5.87	112.90	108.20
85	AA	1672	G	C8-N9-C4	5.87	108.75	106.40
34	BA	1066	A	O4'-C1'-N9	5.87	112.90	108.20
35	BB	634	A	C3'-C2'-C1'	-5.87	96.80	101.50
36	BC	84	U	C6-N1-C1'	-5.87	112.98	121.20
48	BO	144	ARG	NE-CZ-NH1	5.87	123.23	120.30
85	AA	496	C	C3'-C2'-C1'	-5.87	96.80	101.50
85	AA	631	G	P-O3'-C3'	5.87	126.74	119.70
85	AA	1122	U	C1'-O4'-C4'	-5.87	105.20	109.90
34	BA	704	G	C8-N9-C1'	5.87	134.63	127.00
34	BA	915	A	C5'-C4'-C3'	5.87	125.39	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	953	G	C5-C6-N1	5.87	114.44	111.50
34	BA	1043	C	O5'-C5'-C4'	5.87	122.85	111.70
34	BA	1097	G	C1'-O4'-C4'	5.87	114.59	109.90
34	BA	1448	G	C1'-O4'-C4'	-5.87	105.21	109.90
35	BB	597	C	N3-C2-O2	-5.87	117.79	121.90
35	BB	1251	G	O4'-C1'-N9	5.87	112.89	108.20
37	BD	76	U	C5-C4-O4	-5.87	122.38	125.90
39	BF	14	C	N3-C4-N4	5.87	122.11	118.00
40	BG	123	C	C1'-O4'-C4'	-5.87	105.21	109.90
85	AA	386	G	N3-C4-N9	5.87	129.52	126.00
85	AA	454	G	C2'-C3'-O3'	5.87	123.09	113.70
85	AA	493	A	P-O3'-C3'	-5.87	112.66	119.70
85	AA	902	A	P-O3'-C3'	-5.87	112.66	119.70
85	AA	938	A	C5-C6-N6	-5.87	119.01	123.70
85	AA	1145	U	O4'-C4'-C3'	-5.87	98.13	104.00
85	AA	1256	C	C5-C4-N4	-5.87	116.09	120.20
85	AA	1678	U	C1'-O4'-C4'	-5.87	105.20	109.90
85	AA	1951	U	O4'-C1'-N1	5.87	112.89	108.20
85	AA	2213	A	C5'-C4'-O4'	-5.87	102.06	109.10
34	BA	519	G	C5-C6-O6	-5.87	125.08	128.60
34	BA	687	G	C2'-C3'-O3'	5.87	123.09	113.70
34	BA	1006	G	N1-C6-O6	-5.87	116.38	119.90
35	BB	501	G	N1-C2-N2	-5.87	110.92	116.20
35	BB	584	A	C6-N1-C2	-5.87	115.08	118.60
35	BB	1351	G	O4'-C1'-C2'	5.87	112.88	107.60
35	BB	1356	G	N3-C2-N2	5.87	124.01	119.90
38	BE	16	C	OP1-P-OP2	-5.87	110.80	119.60
39	BF	34	C	C2-N3-C4	-5.87	116.97	119.90
39	BF	56	C	C2'-C3'-O3'	5.87	123.09	113.70
62	Bc	40	LYS	C-N-CA	5.87	136.37	121.70
85	AA	501	A	C4-N9-C1'	-5.87	115.74	126.30
85	AA	1001	G	P-O3'-C3'	-5.87	112.66	119.70
85	AA	1113	G	C4-N9-C1'	5.87	134.13	126.50
34	BA	278	U	P-O3'-C3'	-5.87	112.66	119.70
34	BA	705	C	C6-N1-C2	-5.87	117.95	120.30
34	BA	827	A	C4'-C3'-C2'	-5.87	96.73	102.60
34	BA	1841	A	O3'-P-O5'	5.87	115.14	104.00
35	BB	162	U	O4'-C1'-N1	5.87	112.89	108.20
35	BB	837	A	N1-C6-N6	-5.87	115.08	118.60
41	BH	82	U	O4'-C1'-N1	5.87	112.89	108.20
85	AA	21	U	P-O3'-C3'	-5.87	112.66	119.70
85	AA	991	G	P-O3'-C3'	-5.87	112.66	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1001	G	O4'-C1'-N9	5.87	112.89	108.20
85	AA	1267	A	N9-C1'-C2'	-5.87	105.55	112.00
85	AA	1357	U	C5'-C4'-C3'	-5.87	106.61	116.00
85	AA	1555	G	C5'-C4'-C3'	-5.87	106.61	116.00
85	AA	1851	A	O4'-C1'-C2'	5.87	112.88	107.60
21	AM	33	MET	C-N-CA	5.86	136.36	121.70
21	AM	40	ARG	NE-CZ-NH2	-5.86	117.37	120.30
34	BA	146	G	N1-C6-O6	-5.86	116.38	119.90
34	BA	179	U	C6-N1-C2	-5.86	117.48	121.00
34	BA	749	G	C4-N9-C1'	-5.86	118.88	126.50
34	BA	1220	C	C2-N3-C4	-5.86	116.97	119.90
34	BA	1294	C	C6-N1-C2	-5.86	117.95	120.30
35	BB	582	G	O4'-C1'-N9	5.86	112.89	108.20
35	BB	796	C	C3'-C2'-C1'	-5.86	96.81	101.50
36	BC	9	G	P-O3'-C3'	5.86	126.74	119.70
38	BE	21	C	C2-N3-C4	-5.86	116.97	119.90
41	BH	33	G	N9-C4-C5	-5.86	103.06	105.40
41	BH	84	A	O4'-C1'-N9	5.86	112.89	108.20
80	Bu	278	TYR	CB-CG-CD2	-5.86	117.48	121.00
85	AA	95	U	C6-N1-C2	-5.86	117.48	121.00
85	AA	794	A	C3'-C2'-C1'	-5.86	96.81	101.50
85	AA	812	C	P-O3'-C3'	-5.86	112.67	119.70
34	BA	405	C	C2-N3-C4	-5.86	116.97	119.90
34	BA	856	G	N3-C2-N2	5.86	124.00	119.90
34	BA	1301	G	C5-C6-N1	5.86	114.43	111.50
34	BA	1397	C	C4'-C3'-C2'	-5.86	96.74	102.60
35	BB	84	G	P-O5'-C5'	-5.86	111.52	120.90
36	BC	98	C	O3'-P-O5'	-5.86	92.86	104.00
38	BE	77	C	C5'-C4'-C3'	5.86	125.38	116.00
65	Bf	463	ARG	NE-CZ-NH1	5.86	123.23	120.30
85	AA	1961	U	C1'-O4'-C4'	-5.86	105.21	109.90
15	AG	45	LEU	CB-CA-C	-5.86	99.06	110.20
34	BA	12	G	N9-C4-C5	-5.86	103.06	105.40
34	BA	187	G	P-O5'-C5'	-5.86	111.52	120.90
34	BA	321	G	C4-N9-C1'	-5.86	118.88	126.50
34	BA	756	A	O5'-P-OP2	-5.86	100.43	105.70
34	BA	1427	U	C5'-C4'-O4'	5.86	116.13	109.10
35	BB	258	C	O4'-C1'-N1	5.86	112.89	108.20
35	BB	1118	G	C5-C6-N1	5.86	114.43	111.50
35	BB	1498	G	O4'-C1'-N9	5.86	112.89	108.20
36	BC	54	G	C5'-C4'-C3'	5.86	125.38	116.00
38	BE	107	U	P-O3'-C3'	-5.86	112.67	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	44	G	O3'-P-O5'	5.86	115.13	104.00
85	AA	957	A	C1'-O4'-C4'	-5.86	105.21	109.90
85	AA	991	G	C4-C5-C6	-5.86	115.28	118.80
85	AA	2125	A	C8-N9-C4	5.86	108.14	105.80
34	BA	629	G	C4-C5-N7	-5.86	108.46	110.80
34	BA	1532	G	C5-C6-N1	5.86	114.43	111.50
34	BA	1680	G	C4-N9-C1'	5.86	134.12	126.50
35	BB	316	U	O4'-C1'-N1	5.86	112.89	108.20
35	BB	795	A	C5'-C4'-C3'	5.86	125.37	116.00
40	BG	115	C	P-O3'-C3'	-5.86	112.67	119.70
85	AA	806	G	C8-N9-C4	-5.86	104.06	106.40
85	AA	2157	G	N9-C4-C5	5.86	107.74	105.40
1	A0	213	ARG	NE-CZ-NH1	5.86	123.23	120.30
34	BA	383	G	C3'-C2'-C1'	-5.86	96.81	101.50
34	BA	613	A	C5'-C4'-C3'	-5.86	106.63	116.00
34	BA	937	G	C3'-C2'-C1'	-5.86	96.81	101.50
34	BA	1177	C	N3-C4-C5	-5.86	119.56	121.90
34	BA	1569	C	N3-C2-O2	-5.86	117.80	121.90
34	BA	1590	G	N9-C1'-C2'	-5.86	105.56	112.00
41	BH	77	G	C2-N3-C4	5.86	114.83	111.90
67	Bh	75	LYS	N-CA-C	5.86	126.81	111.00
85	AA	313	A	C5-C6-N1	5.86	120.63	117.70
85	AA	1222	A	C5'-C4'-C3'	-5.86	106.63	116.00
85	AA	1424	G	P-O3'-C3'	-5.86	112.67	119.70
85	AA	1611	A	P-O3'-C3'	5.86	126.73	119.70
34	BA	195	G	C5-C6-N1	5.86	114.43	111.50
34	BA	297	A	O4'-C4'-C3'	5.86	110.78	106.10
34	BA	780	U	C5'-C4'-O4'	5.86	116.13	109.10
34	BA	1156	U	N1-C1'-C2'	-5.86	105.56	112.00
34	BA	1798	G	N1-C6-O6	5.86	123.41	119.90
35	BB	391	G	C3'-C2'-C1'	-5.86	96.82	101.50
35	BB	558	U	C1'-O4'-C4'	-5.86	105.22	109.90
35	BB	657	A	C2-N3-C4	5.86	113.53	110.60
35	BB	852	G	C8-N9-C4	-5.86	104.06	106.40
35	BB	906	G	C5-C6-O6	-5.86	125.09	128.60
35	BB	1012	G	P-O3'-C3'	-5.86	112.67	119.70
41	BH	59	G	N7-C8-N9	5.86	116.03	113.10
47	BN	46	LEU	N-CA-CB	-5.86	98.69	110.40
57	BX	125	TYR	CB-CG-CD1	-5.86	117.49	121.00
85	AA	117	C	C2-N3-C4	-5.86	116.97	119.90
85	AA	277	G	N3-C2-N2	5.86	124.00	119.90
85	AA	492	C	O4'-C1'-N1	5.86	112.89	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	533	C	C1'-O4'-C4'	-5.86	105.22	109.90
85	AA	901	C	C6-N1-C1'	-5.86	113.77	120.80
85	AA	1094	G	C5'-C4'-C3'	-5.86	106.63	116.00
34	BA	931	G	OP1-P-O3'	5.85	118.08	105.20
34	BA	932	G	C5-C6-O6	-5.85	125.09	128.60
34	BA	1372	C	C6-N1-C2	-5.85	117.96	120.30
35	BB	374	A	N7-C8-N9	-5.85	110.87	113.80
35	BB	946	G	O4'-C1'-N9	5.85	112.88	108.20
35	BB	1313	C	P-O3'-C3'	-5.85	112.67	119.70
85	AA	740	A	P-O3'-C3'	-5.85	112.67	119.70
85	AA	867	G	N7-C8-N9	5.85	116.03	113.10
85	AA	1043	U	O4'-C1'-N1	5.85	112.88	108.20
34	BA	247	U	N1-C1'-C2'	5.85	121.61	114.00
34	BA	355	U	C2-N1-C1'	-5.85	110.68	117.70
34	BA	761	U	N1-C2-O2	5.85	126.90	122.80
34	BA	888	G	O5'-C5'-C4'	-5.85	100.58	111.70
34	BA	895	U	P-O5'-C5'	-5.85	111.54	120.90
34	BA	964	U	C5'-C4'-O4'	5.85	116.12	109.10
34	BA	1220	C	C5-C6-N1	-5.85	118.07	121.00
34	BA	1559	C	C5'-C4'-O4'	5.85	116.12	109.10
35	BB	89	C	O5'-P-OP2	-5.85	100.43	105.70
35	BB	102	G	C5-C6-O6	-5.85	125.09	128.60
35	BB	505	G	N3-C4-N9	5.85	129.51	126.00
35	BB	887	G	C5-C6-O6	-5.85	125.09	128.60
35	BB	1262	A	C5-C6-N1	5.85	120.63	117.70
36	BC	41	A	P-O3'-C3'	5.85	126.72	119.70
38	BE	136	G	O5'-P-OP2	-5.85	100.43	105.70
38	BE	139	U	C5'-C4'-C3'	-5.85	106.64	116.00
38	BE	143	A	P-O3'-C3'	5.85	126.72	119.70
65	Bf	342	GLY	N-CA-C	5.85	127.73	113.10
85	AA	6	G	P-O5'-C5'	5.85	130.26	120.90
85	AA	187	C	P-O5'-C5'	5.85	130.26	120.90
85	AA	575	G	C1'-O4'-C4'	-5.85	105.22	109.90
85	AA	736	U	C4'-C3'-O3'	5.85	124.71	113.00
85	AA	786	G	N1-C6-O6	5.85	123.41	119.90
85	AA	894	A	O5'-C5'-C4'	5.85	122.82	111.70
85	AA	998	U	O4'-C1'-N1	5.85	112.88	108.20
85	AA	1723	U	C5'-C4'-C3'	-5.85	106.64	116.00
85	AA	1736	U	C5'-C4'-C3'	-5.85	106.64	116.00
34	BA	688	G	P-O3'-C3'	-5.85	112.68	119.70
34	BA	783	U	N1-C2-O2	5.85	126.90	122.80
34	BA	1375	C	O4'-C1'-N1	5.85	112.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1830	A	C2'-C3'-O3'	5.85	123.06	113.70
35	BB	480	C	P-O5'-C5'	-5.85	111.54	120.90
35	BB	995	C	O3'-P-O5'	5.85	115.12	104.00
69	Bj	91	ARG	NE-CZ-NH1	5.85	123.23	120.30
77	Br	92	GLY	CA-C-N	-5.85	104.33	117.20
85	AA	1451	U	C5-C4-O4	-5.85	122.39	125.90
85	AA	1752	C	O5'-C5'-C4'	-5.85	100.58	111.70
34	BA	6	C	O5'-C5'-C4'	-5.85	100.58	111.70
34	BA	810	A	P-O5'-C5'	5.85	130.26	120.90
34	BA	1041	U	C4-C5-C6	-5.85	116.19	119.70
35	BB	70	A	O4'-C1'-N9	5.85	112.88	108.20
35	BB	770	G	O4'-C1'-N9	5.85	112.88	108.20
35	BB	790	A	N9-C4-C5	-5.85	103.46	105.80
35	BB	1203	C	P-O3'-C3'	-5.85	112.68	119.70
35	BB	1548	C	C2-N1-C1'	-5.85	112.37	118.80
37	BD	44	U	C6-N1-C2	-5.85	117.49	121.00
40	BG	60	A	O4'-C4'-C3'	-5.85	98.15	104.00
40	BG	95	U	N3-C4-O4	-5.85	115.31	119.40
85	AA	564	A	C5'-C4'-C3'	5.85	125.36	116.00
85	AA	681	G	C5-N7-C8	-5.85	101.38	104.30
85	AA	730	G	N9-C4-C5	5.85	107.74	105.40
85	AA	846	U	C5'-C4'-C3'	5.85	125.36	116.00
85	AA	1273	C	C4'-C3'-C2'	-5.85	96.75	102.60
34	BA	887	U	C2-N1-C1'	-5.85	110.68	117.70
34	BA	990	G	C5'-C4'-O4'	5.85	116.12	109.10
34	BA	1456	C	O3'-P-O5'	5.85	115.11	104.00
34	BA	1525	G	C5-C6-N1	5.85	114.42	111.50
34	BA	1642	A	C8-N9-C1'	5.85	138.23	127.70
35	BB	111	C	C4'-C3'-C2'	-5.85	96.75	102.60
35	BB	1429	A	N1-C6-N6	-5.85	115.09	118.60
41	BH	67	G	C8-N9-C4	-5.85	104.06	106.40
56	BW	58	ASP	CB-CA-C	5.85	122.09	110.40
74	Bo	13	ARG	NE-CZ-NH2	5.85	123.22	120.30
85	AA	241	U	N1-C2-N3	5.85	118.41	114.90
85	AA	411	U	C5-C6-N1	-5.85	119.78	122.70
85	AA	941	C	C6-N1-C2	-5.85	117.96	120.30
85	AA	2199	G	N9-C1'-C2'	-5.85	105.57	112.00
34	BA	1416	C	O4'-C1'-C2'	5.85	112.86	107.60
35	BB	77	A	C8-N9-C1'	5.85	138.22	127.70
35	BB	1053	G	N3-C2-N2	5.85	123.99	119.90
35	BB	1415	G	C5-C6-O6	5.85	132.11	128.60
38	BE	70	C	N3-C4-N4	-5.85	113.91	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	59	C	P-O3'-C3'	5.85	126.72	119.70
85	AA	519	A	O4'-C4'-C3'	-5.85	98.15	104.00
34	BA	18	G	P-O5'-C5'	-5.84	111.55	120.90
34	BA	418	G	OP2-P-O3'	5.84	118.06	105.20
34	BA	568	G	C3'-C2'-C1'	-5.84	96.83	101.50
34	BA	852	C	C2'-C3'-O3'	5.84	123.05	113.70
34	BA	914	G	C5-C6-O6	-5.84	125.09	128.60
35	BB	815	G	C8-N9-C4	5.84	108.74	106.40
35	BB	1146	C	C2-N1-C1'	5.84	125.23	118.80
35	BB	1312	U	C5-C6-N1	-5.84	119.78	122.70
35	BB	1496	C	C3'-C2'-C1'	-5.84	96.82	101.50
36	BC	159	U	O4'-C1'-N1	5.84	112.88	108.20
38	BE	117	A	N3-C4-C5	-5.84	122.71	126.80
38	BE	132	U	P-O5'-C5'	5.84	130.25	120.90
41	BH	92	A	C5-C6-N6	-5.84	119.02	123.70
62	Bc	127	ARG	CB-CA-C	-5.84	98.71	110.40
85	AA	582	A	C3'-C2'-C1'	-5.84	96.82	101.50
85	AA	688	C	C6-N1-C2	-5.84	117.96	120.30
85	AA	934	A	O4'-C1'-N9	5.84	112.88	108.20
85	AA	976	G	C3'-C2'-C1'	-5.84	96.83	101.50
85	AA	1280	U	N3-C4-C5	-5.84	111.09	114.60
85	AA	1503	G	C8-N9-C1'	5.84	134.60	127.00
2	A1	10	TYR	N-CA-CB	5.84	121.12	110.60
34	BA	412	G	C5-C6-O6	-5.84	125.09	128.60
34	BA	530	A	N1-C2-N3	-5.84	126.38	129.30
34	BA	1454	G	C4-C5-N7	5.84	113.14	110.80
35	BB	1544	A	N1-C6-N6	-5.84	115.09	118.60
85	AA	108	C	O4'-C4'-C3'	-5.84	98.16	104.00
85	AA	122	A	O4'-C1'-N9	5.84	112.87	108.20
24	AQ	101	PHE	CB-CG-CD2	-5.84	116.71	120.80
34	BA	500	C	C1'-O4'-C4'	-5.84	105.23	109.90
34	BA	908	G	C5-C6-O6	-5.84	125.09	128.60
34	BA	1097	G	C8-N9-C4	-5.84	104.06	106.40
34	BA	1703	A	C5-C6-N6	-5.84	119.03	123.70
35	BB	478	G	C1'-O4'-C4'	-5.84	105.23	109.90
35	BB	1129	C	C4'-C3'-C2'	-5.84	96.76	102.60
35	BB	1135	U	P-O3'-C3'	-5.84	112.69	119.70
38	BE	143	A	P-O5'-C5'	-5.84	111.55	120.90
40	BG	37	G	C5'-C4'-C3'	-5.84	106.65	116.00
40	BG	73	U	C2'-C3'-O3'	5.84	123.05	113.70
40	BG	169	A	C8-N9-C1'	-5.84	117.19	127.70
65	Bf	354	THR	CA-CB-CG2	-5.84	104.22	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	Bl	111	ARG	N-CA-CB	-5.84	100.09	110.60
85	AA	443	A	O4'-C1'-N9	-5.84	103.53	108.20
85	AA	885	A	O4'-C1'-N9	5.84	112.87	108.20
85	AA	1226	A	P-O3'-C3'	-5.84	112.69	119.70
85	AA	1483	A	C2-N3-C4	5.84	113.52	110.60
34	BA	217	C	N3-C4-N4	5.84	122.09	118.00
35	BB	17	U	C4'-C3'-C2'	-5.84	96.76	102.60
35	BB	499	A	O4'-C1'-N9	5.84	112.87	108.20
35	BB	970	C	C5'-C4'-C3'	-5.84	106.66	116.00
35	BB	1063	C	N1-C2-O2	5.84	122.40	118.90
35	BB	1139	A	C6-N1-C2	-5.84	115.10	118.60
40	BG	22	G	N1-C6-O6	5.84	123.40	119.90
41	BH	76	G	OP2-P-O3'	5.84	118.05	105.20
85	AA	178	U	P-O5'-C5'	-5.84	111.56	120.90
85	AA	190	A	C4-N9-C1'	-5.84	115.79	126.30
85	AA	534	A	C5-C6-N6	5.84	128.37	123.70
85	AA	629	A	N7-C8-N9	-5.84	110.88	113.80
85	AA	833	U	C2-N1-C1'	5.84	124.71	117.70
85	AA	1368	G	C6-C5-N7	-5.84	126.90	130.40
85	AA	1412	G	O4'-C1'-N9	5.84	112.87	108.20
85	AA	2215	C	C6-N1-C2	-5.84	117.96	120.30
34	BA	382	G	C8-N9-C1'	5.84	134.59	127.00
34	BA	570	G	OP2-P-O3'	5.84	118.04	105.20
35	BB	11	A	C5'-C4'-C3'	5.84	125.34	116.00
35	BB	1020	U	O4'-C1'-N1	5.84	112.87	108.20
35	BB	1230	A	C6-N1-C2	-5.84	115.10	118.60
85	AA	169	G	O4'-C1'-N9	5.84	112.87	108.20
85	AA	545	A	N9-C1'-C2'	-5.84	105.58	112.00
85	AA	778	C	N3-C2-O2	-5.84	117.81	121.90
85	AA	1008	C	C5'-C4'-C3'	5.84	125.34	116.00
34	BA	49	A	C8-N9-C1'	5.84	138.21	127.70
34	BA	88	C	C5-C4-N4	5.84	124.28	120.20
34	BA	425	G	O4'-C1'-N9	5.84	112.87	108.20
34	BA	430	A	O3'-P-O5'	-5.84	92.91	104.00
34	BA	453	A	P-O5'-C5'	-5.84	111.56	120.90
34	BA	675	C	OP2-P-O3'	5.84	118.04	105.20
34	BA	807	U	N3-C2-O2	5.84	126.29	122.20
34	BA	1311	G	N1-C6-O6	-5.84	116.40	119.90
34	BA	1513	G	C8-N9-C4	-5.84	104.06	106.40
35	BB	533	U	C5'-C4'-O4'	5.84	116.11	109.10
35	BB	898	U	O4'-C1'-N1	5.84	112.87	108.20
35	BB	1538	G	C5-C6-O6	-5.84	125.10	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	152	U	P-O3'-C3'	5.84	126.70	119.70
81	Bv	75	ARG	CD-NE-CZ	5.84	131.77	123.60
85	AA	210	G	O5'-P-OP1	5.84	117.70	110.70
85	AA	362	G	N1-C6-O6	5.84	123.40	119.90
85	AA	519	A	O4'-C1'-N9	5.84	112.87	108.20
85	AA	852	C	P-O3'-C3'	5.84	126.70	119.70
85	AA	992	G	N9-C1'-C2'	-5.84	105.58	112.00
85	AA	1203	G	C5-C6-O6	-5.84	125.10	128.60
85	AA	1246	G	N1-C6-O6	5.84	123.40	119.90
85	AA	1266	C	P-O3'-C3'	-5.84	112.70	119.70
85	AA	1732	G	P-O3'-C3'	-5.84	112.70	119.70
85	AA	1856	G	C8-N9-C1'	5.84	134.59	127.00
85	AA	1975	G	C4-N9-C1'	-5.84	118.91	126.50
85	AA	2002	A	C3'-C2'-C1'	-5.84	96.83	101.50
34	BA	476	U	C1'-O4'-C4'	-5.83	105.23	109.90
35	BB	506	G	P-O5'-C5'	-5.83	111.56	120.90
35	BB	1086	G	C5-C6-N1	5.83	114.42	111.50
85	AA	692	U	C3'-C2'-C1'	-5.83	96.83	101.50
30	AW	13	VAL	N-CA-CB	-5.83	98.67	111.50
34	BA	64	A	C2'-C3'-O3'	5.83	123.03	113.70
34	BA	1254	C	C3'-C2'-C1'	-5.83	96.83	101.50
34	BA	1292	A	P-O5'-C5'	-5.83	111.57	120.90
35	BB	254	A	P-O5'-C5'	5.83	130.23	120.90
35	BB	596	C	O4'-C1'-N1	5.83	112.87	108.20
35	BB	1309	A	O4'-C1'-N9	5.83	112.87	108.20
35	BB	1513	U	O4'-C1'-N1	5.83	112.87	108.20
37	BD	68	C	P-O3'-C3'	-5.83	112.70	119.70
65	Bf	343	ARG	NE-CZ-NH2	-5.83	117.38	120.30
85	AA	306	C	O3'-P-O5'	5.83	115.08	104.00
85	AA	381	A	N9-C1'-C2'	-5.83	105.58	112.00
85	AA	1695	G	C5-C6-O6	-5.83	125.10	128.60
5	A4	118	GLN	CB-CA-C	-5.83	98.74	110.40
34	BA	921	G	C4'-C3'-C2'	-5.83	96.77	102.60
34	BA	988	U	P-O3'-C3'	-5.83	112.70	119.70
34	BA	1041	U	O4'-C1'-C2'	5.83	112.85	107.60
34	BA	1559	C	C4'-C3'-C2'	5.83	108.43	102.60
34	BA	1738	G	P-O3'-C3'	-5.83	112.70	119.70
35	BB	498	G	O4'-C1'-N9	5.83	112.87	108.20
35	BB	676	G	O3'-P-O5'	5.83	115.08	104.00
36	BC	11	G	O4'-C1'-N9	5.83	112.86	108.20
40	BG	108	G	N3-C2-N2	5.83	123.98	119.90
84	By	3	ILE	N-CA-C	5.83	126.75	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1008	C	C6-N1-C2	-5.83	117.97	120.30
85	AA	1167	G	C5-C6-O6	5.83	132.10	128.60
34	BA	36	A	C4-N9-C1'	-5.83	115.81	126.30
34	BA	217	C	O5'-C5'-C4'	-5.83	100.62	111.70
34	BA	348	U	C2-N3-C4	-5.83	123.50	127.00
34	BA	685	C	O5'-C5'-C4'	5.83	122.78	111.70
36	BC	97	U	C4'-C3'-C2'	5.83	108.43	102.60
37	BD	36	C	C1'-O4'-C4'	-5.83	105.24	109.90
40	BG	32	U	C5'-C4'-O4'	5.83	116.10	109.10
40	BG	44	G	C5'-C4'-O4'	5.83	116.10	109.10
85	AA	372	U	N3-C2-O2	-5.83	118.12	122.20
85	AA	423	G	C5-C6-N1	5.83	114.42	111.50
34	BA	78	U	C5'-C4'-C3'	-5.83	106.67	116.00
34	BA	399	G	C2-N3-C4	-5.83	108.98	111.90
34	BA	960	C	O5'-P-OP1	5.83	117.69	110.70
34	BA	1200	U	O4'-C1'-C2'	-5.83	99.97	105.80
34	BA	1809	G	C6-C5-N7	-5.83	126.90	130.40
35	BB	128	C	N1-C2-O2	5.83	122.40	118.90
35	BB	577	U	N3-C2-O2	-5.83	118.12	122.20
35	BB	610	U	C2'-C3'-O3'	5.83	123.03	113.70
38	BE	151	C	C5'-C4'-O4'	5.83	116.09	109.10
41	BH	127	A	C8-N9-C4	5.83	108.13	105.80
56	BW	84	ARG	NE-CZ-NH2	-5.83	117.39	120.30
84	By	173	PHE	CB-CA-C	-5.83	98.74	110.40
85	AA	307	G	C4'-C3'-C2'	-5.83	96.77	102.60
85	AA	595	A	C8-N9-C4	5.83	108.13	105.80
85	AA	711	C	O4'-C1'-N1	5.83	112.86	108.20
85	AA	1218	C	C2-N3-C4	-5.83	116.99	119.90
85	AA	1594	G	C5'-C4'-O4'	5.83	116.09	109.10
85	AA	2244	G	C4'-C3'-C2'	5.83	108.43	102.60
86	AB	19	G	P-O3'-C3'	-5.83	112.71	119.70
34	BA	446	U	C3'-C2'-C1'	-5.83	96.84	101.50
34	BA	552	C	N3-C4-C5	5.83	124.23	121.90
35	BB	126	C	C5-C6-N1	5.83	123.91	121.00
35	BB	383	U	C4'-C3'-C2'	-5.83	96.77	102.60
35	BB	1146	C	P-O5'-C5'	-5.83	111.58	120.90
35	BB	1166	A	N9-C4-C5	-5.83	103.47	105.80
40	BG	174	G	C4-N9-C1'	-5.83	118.92	126.50
85	AA	331	G	C4-N9-C1'	5.83	134.07	126.50
85	AA	611	G	N3-C4-C5	-5.83	125.69	128.60
85	AA	661	C	C6-N1-C1'	5.83	127.79	120.80
85	AA	1494	C	P-O5'-C5'	-5.83	111.58	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1829	C	O4'-C1'-N1	5.83	112.86	108.20
26	AS	15	ARG	NE-CZ-NH1	5.83	123.21	120.30
34	BA	172	A	P-O5'-C5'	-5.83	111.58	120.90
34	BA	603	U	N3-C4-O4	5.83	123.48	119.40
34	BA	662	U	N3-C2-O2	-5.83	118.12	122.20
34	BA	800	G	C5'-C4'-C3'	5.83	125.32	116.00
34	BA	884	G	P-O3'-C3'	-5.83	112.71	119.70
35	BB	565	U	C5'-C4'-C3'	-5.83	106.68	116.00
35	BB	664	A	P-O5'-C5'	-5.83	111.58	120.90
35	BB	679	G	C5'-C4'-O4'	5.83	116.09	109.10
35	BB	1234	G	C5'-C4'-C3'	-5.83	106.68	116.00
38	BE	113	C	P-O3'-C3'	-5.83	112.71	119.70
41	BH	78	C	OP1-P-OP2	-5.83	110.86	119.60
64	Be	150	LEU	CB-CG-CD2	5.83	120.90	111.00
85	AA	207	G	C6-C5-N7	-5.83	126.91	130.40
85	AA	286	C	C3'-C2'-C1'	-5.83	96.84	101.50
85	AA	316	C	P-O5'-C5'	5.83	130.22	120.90
85	AA	507	C	C3'-C2'-C1'	-5.83	96.84	101.50
85	AA	507	C	C4'-C3'-C2'	5.83	108.42	102.60
85	AA	652	U	P-O5'-C5'	-5.83	111.58	120.90
85	AA	658	C	C5'-C4'-O4'	5.83	116.09	109.10
85	AA	1923	A	O5'-P-OP2	-5.83	100.46	105.70
86	AB	15	G	N1-C2-N2	-5.83	110.96	116.20
34	BA	489	A	P-O3'-C3'	-5.82	112.71	119.70
35	BB	504	C	C5-C6-N1	5.82	123.91	121.00
35	BB	1031	G	C5'-C4'-C3'	5.82	125.32	116.00
35	BB	1224	C	N1-C1'-C2'	-5.82	105.59	112.00
38	BE	165	U	C6-N1-C2	-5.82	117.51	121.00
40	BG	38	A	C3'-C2'-C1'	-5.82	96.84	101.50
85	AA	108	C	P-O5'-C5'	-5.82	111.58	120.90
85	AA	327	G	P-O3'-C3'	-5.82	112.71	119.70
85	AA	547	A	C3'-C2'-C1'	-5.82	96.84	101.50
85	AA	1467	U	P-O3'-C3'	-5.82	112.71	119.70
85	AA	1662	U	P-O5'-C5'	5.82	130.22	120.90
85	AA	1933	G	C5'-C4'-C3'	5.82	125.32	116.00
85	AA	2055	G	C5'-C4'-C3'	5.82	125.32	116.00
85	AA	2063	C	O5'-C5'-C4'	-5.82	100.64	111.70
34	BA	501	U	C1'-O4'-C4'	-5.82	105.24	109.90
35	BB	365	U	C2-N1-C1'	-5.82	110.71	117.70
35	BB	1102	U	C4'-C3'-C2'	-5.82	96.78	102.60
35	BB	1200	A	O3'-P-O5'	5.82	115.06	104.00
39	BF	1	C	C4-C5-C6	5.82	120.31	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	100	A	N1-C6-N6	-5.82	115.11	118.60
85	AA	1483	A	O4'-C1'-C2'	5.82	112.84	107.60
4	A3	71	PRO	C-N-CA	5.82	136.25	121.70
34	BA	552	C	O5'-P-OP2	5.82	117.69	110.70
34	BA	729	C	P-O5'-C5'	-5.82	111.59	120.90
34	BA	1557	G	C1'-O4'-C4'	-5.82	105.24	109.90
35	BB	315	C	P-O5'-C5'	5.82	130.21	120.90
35	BB	841	U	O4'-C1'-C2'	5.82	112.84	107.60
41	BH	23	G	N1-C6-O6	5.82	123.39	119.90
49	BP	23	ARG	CG-CD-NE	-5.82	99.58	111.80
73	Bn	39	TYR	N-CA-C	-5.82	95.28	111.00
85	AA	602	U	C5'-C4'-C3'	-5.82	106.69	116.00
85	AA	809	A	C5-C6-N6	-5.82	119.04	123.70
85	AA	842	G	C4'-C3'-C2'	-5.82	96.78	102.60
85	AA	1484	G	N1-C2-N2	-5.82	110.96	116.20
85	AA	1497	U	O4'-C4'-C3'	-5.82	98.18	104.00
85	AA	1599	G	O4'-C1'-N9	5.82	112.86	108.20
34	BA	725	C	C1'-O4'-C4'	-5.82	105.25	109.90
35	BB	738	G	C8-N9-C1'	5.82	134.56	127.00
39	BF	2	G	N1-C6-O6	5.82	123.39	119.90
41	BH	128	G	C5-C6-N1	5.82	114.41	111.50
85	AA	412	G	C1'-O4'-C4'	-5.82	105.25	109.90
85	AA	692	U	C6-N1-C2	-5.82	117.51	121.00
85	AA	1204	A	C3'-C2'-C1'	-5.82	96.84	101.50
85	AA	2110	U	C1'-O4'-C4'	-5.82	105.25	109.90
5	A4	191	MET	N-CA-C	5.82	126.71	111.00
34	BA	269	G	N9-C4-C5	5.82	107.73	105.40
34	BA	818	G	C5-C6-N1	5.82	114.41	111.50
34	BA	926	A	N9-C1'-C2'	-5.82	105.60	112.00
34	BA	1500	G	N1-C2-N2	-5.82	110.97	116.20
35	BB	16	G	O4'-C1'-N9	-5.82	103.55	108.20
35	BB	498	G	C5'-C4'-C3'	-5.82	106.69	116.00
36	BC	160	C	C6-N1-C2	-5.82	117.97	120.30
39	BF	27	G	C8-N9-C4	5.82	108.73	106.40
62	Bc	109	ARG	CD-NE-CZ	-5.82	115.46	123.60
85	AA	417	U	P-O3'-C3'	-5.82	112.72	119.70
85	AA	501	A	C8-N9-C1'	5.82	138.17	127.70
85	AA	643	C	N3-C2-O2	-5.82	117.83	121.90
85	AA	2209	U	N1-C2-N3	5.82	118.39	114.90
35	BB	37	C	O3'-P-O5'	5.82	115.05	104.00
35	BB	434	A	N7-C8-N9	-5.82	110.89	113.80
35	BB	1470	G	C6-C5-N7	-5.82	126.91	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1492	C	O4'-C1'-N1	5.82	112.85	108.20
38	BE	89	G	N3-C4-C5	-5.82	125.69	128.60
40	BG	80	G	C4-N9-C1'	-5.82	118.94	126.50
40	BG	176	G	N9-C1'-C2'	-5.82	105.60	112.00
85	AA	179	G	C4-N9-C1'	5.82	134.06	126.50
85	AA	443	A	C3'-C2'-C1'	-5.82	96.85	101.50
85	AA	1666	U	O4'-C4'-C3'	-5.82	98.18	104.00
34	BA	544	U	C5'-C4'-O4'	5.81	116.08	109.10
34	BA	1473	A	N1-C6-N6	-5.81	115.11	118.60
34	BA	1845	G	N1-C6-O6	5.81	123.39	119.90
35	BB	5	A	OP1-P-OP2	-5.81	110.88	119.60
35	BB	100	A	O4'-C1'-N9	5.81	112.85	108.20
35	BB	491	A	O4'-C1'-N9	5.81	112.85	108.20
35	BB	696	G	O4'-C1'-N9	5.81	112.85	108.20
36	BC	110	A	O4'-C1'-N9	5.81	112.85	108.20
38	BE	91	G	O5'-C5'-C4'	-5.81	100.65	111.70
40	BG	22	G	C5'-C4'-O4'	5.81	116.08	109.10
41	BH	117	U	C6-N1-C2	-5.81	117.51	121.00
83	Bx	73	ARG	NE-CZ-NH2	-5.81	117.39	120.30
85	AA	554	A	O4'-C1'-N9	5.81	112.85	108.20
85	AA	847	G	N9-C1'-C2'	-5.81	105.60	112.00
85	AA	1574	C	O5'-P-OP1	-5.81	100.47	105.70
4	A3	88	PHE	N-CA-CB	5.81	121.06	110.60
34	BA	230	A	C5-C6-N6	-5.81	119.05	123.70
34	BA	523	A	P-O3'-C3'	-5.81	112.73	119.70
34	BA	1039	G	N9-C1'-C2'	-5.81	105.61	112.00
34	BA	1156	U	C5'-C4'-C3'	5.81	125.30	116.00
35	BB	11	A	C1'-O4'-C4'	-5.81	105.25	109.90
35	BB	414	C	P-O3'-C3'	5.81	126.67	119.70
35	BB	912	C	C4'-C3'-C2'	-5.81	96.79	102.60
35	BB	961	G	P-O3'-C3'	-5.81	112.72	119.70
35	BB	977	G	N7-C8-N9	5.81	116.01	113.10
37	BD	75	G	N3-C4-N9	-5.81	122.51	126.00
40	BG	118	U	N1-C2-N3	5.81	118.39	114.90
42	BI	110	LEU	CB-CA-C	-5.81	99.16	110.20
44	BK	85	PHE	CB-CG-CD2	-5.81	116.73	120.80
50	BQ	179	ARG	CG-CD-NE	-5.81	99.59	111.80
77	Br	312	ARG	NE-CZ-NH2	-5.81	117.39	120.30
85	AA	246	C	C6-N1-C1'	5.81	127.77	120.80
85	AA	730	G	C2-N3-C4	5.81	114.81	111.90
85	AA	1003	G	O4'-C1'-N9	5.81	112.85	108.20
85	AA	1006	C	N1-C2-N3	5.81	123.27	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1679	U	C5'-C4'-C3'	-5.81	106.70	116.00
34	BA	56	G	N3-C2-N2	5.81	123.97	119.90
34	BA	579	U	OP2-P-O3'	5.81	117.98	105.20
34	BA	1208	U	O4'-C1'-C2'	5.81	112.83	107.60
34	BA	1519	G	C5'-C4'-O4'	5.81	116.07	109.10
34	BA	1731	A	O4'-C1'-N9	5.81	112.85	108.20
35	BB	59	U	O5'-P-OP1	-5.81	100.47	105.70
35	BB	103	C	N1-C2-O2	5.81	122.39	118.90
37	BD	2	G	O4'-C1'-N9	5.81	112.85	108.20
37	BD	31	U	C6-N1-C1'	5.81	129.34	121.20
39	BF	7	G	C5-C6-O6	-5.81	125.11	128.60
40	BG	175	G	O3'-P-O5'	5.81	115.04	104.00
53	BT	95	TRP	CB-CG-CD2	-5.81	119.05	126.60
85	AA	765	U	P-O3'-C3'	-5.81	112.73	119.70
34	BA	768	G	C1'-O4'-C4'	-5.81	105.25	109.90
34	BA	877	U	O4'-C4'-C3'	-5.81	98.19	104.00
34	BA	1269	C	C3'-C2'-C1'	-5.81	96.85	101.50
34	BA	1426	A	O5'-P-OP2	5.81	117.67	110.70
34	BA	1545	C	C6-N1-C1'	5.81	127.77	120.80
34	BA	1592	U	C5-C6-N1	-5.81	119.80	122.70
35	BB	566	A	C5'-C4'-C3'	-5.81	106.71	116.00
35	BB	1077	C	C6-N1-C2	-5.81	117.98	120.30
35	BB	1389	C	P-O3'-C3'	-5.81	112.73	119.70
35	BB	1531	G	C4-N9-C1'	-5.81	118.95	126.50
72	Bm	77	ALA	N-CA-CB	5.81	118.23	110.10
80	Bu	141	ASP	CB-CG-OD1	5.81	123.53	118.30
85	AA	78	A	C4'-C3'-C2'	-5.81	96.79	102.60
85	AA	586	G	C8-N9-C1'	5.81	134.55	127.00
34	BA	453	A	C1'-O4'-C4'	-5.81	105.25	109.90
34	BA	678	C	N3-C4-N4	5.81	122.07	118.00
34	BA	1211	G	OP1-P-OP2	-5.81	110.89	119.60
34	BA	1490	U	C5'-C4'-O4'	-5.81	102.13	109.10
35	BB	446	U	C1'-O4'-C4'	5.81	114.55	109.90
35	BB	449	C	N1-C2-N3	5.81	123.27	119.20
35	BB	698	C	C2-N3-C4	-5.81	117.00	119.90
35	BB	1336	G	O3'-P-O5'	-5.81	92.97	104.00
35	BB	1540	U	O4'-C4'-C3'	-5.81	98.19	104.00
38	BE	139	U	O4'-C1'-N1	5.81	112.84	108.20
40	BG	28	A	C8-N9-C4	5.81	108.12	105.80
85	AA	965	G	C4-N9-C1'	-5.81	118.95	126.50
85	AA	995	G	P-O5'-C5'	-5.81	111.61	120.90
85	AA	1235	G	C2-N3-C4	-5.81	109.00	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1717	G	C5-C6-O6	-5.81	125.12	128.60
85	AA	1938	G	O4'-C1'-N9	5.81	112.85	108.20
85	AA	2193	A	C5'-C4'-C3'	-5.81	106.71	116.00
86	AB	22	G	C8-N9-C1'	-5.81	119.45	127.00
34	BA	79	C	O4'-C1'-N1	5.81	112.84	108.20
34	BA	346	A	C1'-O4'-C4'	-5.81	105.25	109.90
34	BA	1491	U	C5'-C4'-O4'	5.81	116.07	109.10
35	BB	1032	U	P-O3'-C3'	5.81	126.67	119.70
35	BB	1098	G	O4'-C1'-C2'	5.81	112.83	107.60
35	BB	1388	A	C4-N9-C1'	-5.81	115.85	126.30
38	BE	11	A	C5-C6-N6	5.81	128.34	123.70
85	AA	278	C	P-O5'-C5'	-5.81	111.61	120.90
85	AA	870	U	O5'-C5'-C4'	-5.81	100.67	111.70
85	AA	1355	U	C5'-C4'-O4'	-5.81	102.13	109.10
85	AA	1922	A	C2'-C3'-O3'	5.81	122.99	113.70
85	AA	2138	G	C6-N1-C2	-5.81	121.62	125.10
34	BA	429	G	N9-C1'-C2'	-5.80	105.61	112.00
34	BA	1404	A	N9-C4-C5	5.80	108.12	105.80
34	BA	1540	C	N3-C4-N4	5.80	122.06	118.00
34	BA	1667	G	N3-C2-N2	5.80	123.96	119.90
35	BB	1056	A	C5'-C4'-C3'	-5.80	106.71	116.00
35	BB	1144	A	N1-C6-N6	-5.80	115.12	118.60
38	BE	10	G	N9-C4-C5	5.80	107.72	105.40
41	BH	34	G	O5'-P-OP2	-5.80	100.48	105.70
41	BH	46	C	O4'-C1'-N1	5.80	112.84	108.20
85	AA	118	C	C1'-O4'-C4'	-5.80	105.26	109.90
85	AA	260	A	P-O3'-C3'	5.80	126.67	119.70
85	AA	595	A	C5'-C4'-C3'	-5.80	106.71	116.00
85	AA	635	G	C1'-O4'-C4'	-5.80	105.26	109.90
85	AA	1361	A	OP2-P-O3'	5.80	117.97	105.20
85	AA	1729	C	C3'-C2'-C1'	-5.80	96.86	101.50
85	AA	1894	G	N3-C2-N2	5.80	123.96	119.90
85	AA	2225	G	P-O5'-C5'	-5.80	111.61	120.90
34	BA	215	C	P-O5'-C5'	5.80	130.19	120.90
34	BA	1278	A	C8-N9-C1'	5.80	138.15	127.70
35	BB	847	U	C4'-C3'-C2'	5.80	108.40	102.60
36	BC	99	U	O4'-C1'-N1	5.80	112.84	108.20
38	BE	31	A	C2'-C3'-O3'	5.80	122.98	113.70
69	Bj	71	HIS	CB-CA-C	5.80	122.01	110.40
85	AA	799	G	P-O5'-C5'	-5.80	111.62	120.90
85	AA	1242	A	N1-C6-N6	-5.80	115.12	118.60
85	AA	1589	G	P-O5'-C5'	-5.80	111.61	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	AT	25	ARG	CD-NE-CZ	-5.80	115.48	123.60
34	BA	221	G	C1'-O4'-C4'	-5.80	105.26	109.90
34	BA	679	U	C2-N3-C4	-5.80	123.52	127.00
34	BA	746	C	N3-C2-O2	-5.80	117.84	121.90
34	BA	1735	G	N3-C2-N2	5.80	123.96	119.90
35	BB	43	G	N9-C4-C5	-5.80	103.08	105.40
35	BB	1133	C	N3-C4-N4	-5.80	113.94	118.00
35	BB	1228	A	C4'-C3'-C2'	5.80	108.40	102.60
35	BB	1511	U	O4'-C1'-N1	5.80	112.84	108.20
38	BE	96	G	C6-C5-N7	-5.80	126.92	130.40
40	BG	172	C	C4'-C3'-C2'	-5.80	96.80	102.60
47	BN	102	VAL	N-CA-CB	-5.80	98.74	111.50
85	AA	14	C	N3-C4-N4	-5.80	113.94	118.00
85	AA	501	A	N1-C6-N6	-5.80	115.12	118.60
85	AA	593	U	O4'-C1'-N1	5.80	112.84	108.20
85	AA	1238	U	N1-C2-N3	5.80	118.38	114.90
85	AA	1495	G	C8-N9-C1'	5.80	134.54	127.00
85	AA	1628	U	O4'-C1'-N1	5.80	112.84	108.20
33	AZ	62	ARG	NE-CZ-NH1	5.80	123.20	120.30
34	BA	291	C	C1'-O4'-C4'	-5.80	105.26	109.90
34	BA	684	G	O4'-C1'-C2'	-5.80	100.00	105.80
34	BA	1184	A	C8-N9-C4	-5.80	103.48	105.80
34	BA	1316	G	C8-N9-C1'	-5.80	119.46	127.00
34	BA	1509	U	N1-C2-O2	5.80	126.86	122.80
34	BA	1642	A	C5-C6-N1	5.80	120.60	117.70
35	BB	1030	U	C5'-C4'-O4'	5.80	116.06	109.10
35	BB	1038	G	C4'-C3'-C2'	5.80	108.40	102.60
35	BB	1098	G	C1'-O4'-C4'	-5.80	105.26	109.90
35	BB	1358	A	P-O3'-C3'	-5.80	112.74	119.70
38	BE	208	G	C4'-C3'-C2'	-5.80	96.80	102.60
41	BH	109	G	C4-C5-C6	-5.80	115.32	118.80
42	BI	49	HIS	CB-CA-C	5.80	122.00	110.40
42	BI	94	LEU	CA-C-N	-5.80	104.44	117.20
85	AA	469	G	C2-N3-C4	-5.80	109.00	111.90
85	AA	484	G	O4'-C4'-C3'	-5.80	98.20	104.00
85	AA	571	G	C8-N9-C1'	5.80	134.54	127.00
85	AA	1047	G	C8-N9-C1'	5.80	134.54	127.00
85	AA	1535	C	O4'-C1'-C2'	-5.80	100.00	105.80
85	AA	1574	C	P-O3'-C3'	-5.80	112.74	119.70
85	AA	1692	U	C6-N1-C1'	5.80	129.32	121.20
85	AA	2216	A	N1-C6-N6	-5.80	115.12	118.60
6	A5	191	ARG	NE-CZ-NH1	5.80	123.20	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	527	C	C4'-C3'-C2'	-5.80	96.80	102.60
34	BA	1745	G	P-O5'-C5'	5.80	130.18	120.90
35	BB	1130	U	N1-C2-O2	5.80	126.86	122.80
35	BB	1226	G	N9-C1'-C2'	-5.80	105.62	112.00
37	BD	32	A	P-O3'-C3'	-5.80	112.74	119.70
84	By	10	THR	CA-CB-CG2	5.80	120.52	112.40
85	AA	976	G	O4'-C1'-C2'	5.80	112.82	107.60
85	AA	1061	C	C5'-C4'-C3'	5.80	125.28	116.00
85	AA	1270	C	C2-N3-C4	-5.80	117.00	119.90
85	AA	1884	A	C4'-C3'-C2'	-5.80	96.80	102.60
85	AA	2157	G	N3-C2-N2	-5.80	115.84	119.90
6	A5	60	LEU	CB-CA-C	-5.80	99.19	110.20
12	AD	39	GLY	N-CA-C	-5.80	98.61	113.10
34	BA	216	C	C6-N1-C1'	5.80	127.75	120.80
34	BA	430	A	O4'-C4'-C3'	-5.80	98.20	104.00
34	BA	962	U	O4'-C1'-N1	5.80	112.84	108.20
34	BA	1170	A	C5'-C4'-C3'	5.80	125.28	116.00
34	BA	1189	A	C8-N9-C1'	-5.80	117.27	127.70
34	BA	1540	C	C6-N1-C1'	-5.80	113.84	120.80
34	BA	1811	A	C2-N3-C4	-5.80	107.70	110.60
35	BB	643	G	C5-C6-O6	5.80	132.08	128.60
35	BB	842	G	O4'-C1'-N9	5.80	112.84	108.20
40	BG	182	G	C4-N9-C1'	5.80	134.04	126.50
85	AA	756	G	C5'-C4'-C3'	-5.80	106.73	116.00
85	AA	1096	G	N3-C4-C5	-5.80	125.70	128.60
85	AA	1097	G	O4'-C1'-N9	5.80	112.84	108.20
85	AA	1497	U	C4'-C3'-C2'	5.80	108.40	102.60
85	AA	1618	G	C5'-C4'-C3'	-5.80	106.72	116.00
85	AA	1902	C	C2-N3-C4	-5.80	117.00	119.90
34	BA	196	A	C5'-C4'-O4'	5.79	116.05	109.10
35	BB	26	C	N3-C4-C5	5.79	124.22	121.90
41	BH	85	C	OP1-P-O3'	5.79	117.95	105.20
47	BN	80	PHE	CB-CG-CD1	-5.79	116.74	120.80
85	AA	82	A	N9-C1'-C2'	-5.79	105.63	112.00
85	AA	1075	U	O4'-C1'-N1	5.79	112.84	108.20
85	AA	1765	G	N1-C6-O6	5.79	123.38	119.90
34	BA	75	U	C5-C6-N1	-5.79	119.80	122.70
34	BA	300	C	C2-N3-C4	-5.79	117.00	119.90
34	BA	661	C	C6-N1-C2	-5.79	117.98	120.30
34	BA	798	G	C5-N7-C8	-5.79	101.40	104.30
34	BA	1270	G	C1'-O4'-C4'	-5.79	105.27	109.90
38	BE	39	U	N3-C2-O2	-5.79	118.14	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	53	C	C5'-C4'-C3'	-5.79	106.73	116.00
40	BG	131	U	C5-C6-N1	-5.79	119.80	122.70
85	AA	388	G	O4'-C1'-N9	5.79	112.83	108.20
85	AA	859	G	C5'-C4'-C3'	-5.79	106.73	116.00
85	AA	1224	C	C2-N1-C1'	-5.79	112.43	118.80
85	AA	1490	A	N1-C6-N6	5.79	122.08	118.60
85	AA	2086	C	C4'-C3'-C2'	5.79	108.39	102.60
34	BA	134	U	O4'-C1'-N1	5.79	112.83	108.20
34	BA	329	G	C5'-C4'-C3'	5.79	125.27	116.00
34	BA	574	U	N1-C2-O2	5.79	126.85	122.80
34	BA	694	G	N1-C2-N2	-5.79	110.99	116.20
34	BA	953	G	O5'-P-OP1	-5.79	100.49	105.70
34	BA	1148	U	O5'-C5'-C4'	-5.79	100.69	111.70
35	BB	948	G	N1-C6-O6	5.79	123.38	119.90
35	BB	1005	A	C4-N9-C1'	-5.79	115.87	126.30
35	BB	1231	U	O5'-P-OP1	-5.79	100.49	105.70
35	BB	1289	G	C5-C6-N1	5.79	114.39	111.50
35	BB	1431	G	O5'-C5'-C4'	-5.79	100.70	111.70
36	BC	58	G	C5-C6-O6	-5.79	125.12	128.60
40	BG	41	U	O4'-C1'-N1	5.79	112.83	108.20
77	Br	297	ARG	NE-CZ-NH1	5.79	123.20	120.30
85	AA	557	G	C4-C5-N7	-5.79	108.48	110.80
85	AA	661	C	C5'-C4'-O4'	5.79	116.05	109.10
85	AA	816	A	P-O5'-C5'	5.79	130.17	120.90
85	AA	1413	G	C5-C6-O6	-5.79	125.12	128.60
85	AA	1522	U	P-O3'-C3'	-5.79	112.75	119.70
34	BA	500	C	O4'-C1'-C2'	5.79	112.81	107.60
34	BA	652	C	C1'-O4'-C4'	-5.79	105.27	109.90
34	BA	712	C	C5'-C4'-C3'	-5.79	106.73	116.00
34	BA	871	G	OP1-P-O3'	-5.79	92.46	105.20
34	BA	1620	U	C4'-C3'-O3'	-5.79	97.24	109.40
34	BA	1688	G	C4-N9-C1'	-5.79	118.97	126.50
35	BB	421	U	C1'-O4'-C4'	-5.79	105.27	109.90
35	BB	871	C	C5'-C4'-C3'	-5.79	106.74	116.00
35	BB	1358	A	C6-N1-C2	-5.79	115.13	118.60
41	BH	21	G	N1-C2-N2	-5.79	110.99	116.20
41	BH	122	U	P-O3'-C3'	-5.79	112.75	119.70
61	Bb	135	ARG	NE-CZ-NH1	5.79	123.19	120.30
65	Bf	352	ALA	N-CA-CB	5.79	118.21	110.10
85	AA	311	U	C5'-C4'-C3'	5.79	125.26	116.00
85	AA	2132	A	C2'-C3'-O3'	5.79	122.96	113.70
34	BA	477	C	N3-C4-N4	-5.79	113.95	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	771	A	C5'-C4'-O4'	5.79	116.05	109.10
34	BA	814	C	C4'-C3'-C2'	-5.79	96.81	102.60
34	BA	1522	G	C5-C6-O6	-5.79	125.13	128.60
34	BA	1809	G	N1-C6-O6	5.79	123.37	119.90
35	BB	588	A	N9-C1'-C2'	-5.79	105.63	112.00
35	BB	794	G	C8-N9-C1'	5.79	134.53	127.00
35	BB	879	G	O5'-C5'-C4'	5.79	122.70	111.70
35	BB	1187	G	C8-N9-C1'	5.79	134.52	127.00
38	BE	36	U	C6-N1-C1'	5.79	129.30	121.20
40	BG	105	A	P-O3'-C3'	5.79	126.65	119.70
85	AA	1185	G	O5'-P-OP2	5.79	117.65	110.70
85	AA	2196	G	C4-C5-N7	-5.79	108.48	110.80
85	AA	2236	U	P-O3'-C3'	-5.79	112.75	119.70
86	AB	68	C	O4'-C1'-N1	5.79	112.83	108.20
34	BA	706	C	C2-N3-C4	-5.79	117.01	119.90
34	BA	1034	U	N3-C4-O4	-5.79	115.35	119.40
34	BA	1376	U	C2-N1-C1'	-5.79	110.76	117.70
34	BA	1426	A	P-O3'-C3'	-5.79	112.75	119.70
35	BB	156	G	O4'-C1'-N9	5.79	112.83	108.20
35	BB	897	C	P-O3'-C3'	5.79	126.64	119.70
39	BF	52	A	N7-C8-N9	5.79	116.69	113.80
41	BH	20	A	C1'-O4'-C4'	-5.79	105.27	109.90
72	Bm	85	LEU	CB-CG-CD1	5.79	120.84	111.00
85	AA	369	A	C4-N9-C1'	-5.79	115.88	126.30
85	AA	1310	G	C2'-C3'-O3'	5.79	122.96	113.70
34	BA	146	G	N3-C2-N2	-5.79	115.85	119.90
34	BA	621	G	C5-C6-O6	-5.79	125.13	128.60
34	BA	1019	C	C3'-C2'-C1'	-5.79	96.87	101.50
34	BA	1471	U	N3-C2-O2	-5.79	118.15	122.20
34	BA	1794	A	O5'-C5'-C4'	5.79	122.69	111.70
35	BB	810	G	N9-C1'-C2'	-5.79	105.64	112.00
35	BB	971	A	C5-N7-C8	-5.79	101.01	103.90
35	BB	1351	G	C4-N9-C1'	-5.79	118.98	126.50
35	BB	1495	U	C3'-C2'-C1'	-5.79	96.87	101.50
36	BC	61	A	C4'-C3'-C2'	-5.79	96.81	102.60
38	BE	14	C	C5'-C4'-C3'	-5.79	106.74	116.00
39	BF	39	C	N3-C2-O2	-5.79	117.85	121.90
85	AA	361	U	P-O3'-C3'	-5.79	112.76	119.70
85	AA	474	C	C3'-C2'-C1'	-5.79	96.87	101.50
85	AA	893	G	N1-C2-N3	-5.79	120.43	123.90
85	AA	971	U	C6-N1-C2	-5.79	117.53	121.00
85	AA	1703	A	C4-N9-C1'	-5.79	115.89	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1866	A	C5'-C4'-C3'	-5.79	106.74	116.00
86	AB	63	G	N1-C6-O6	5.79	123.37	119.90
86	AB	71	G	C5'-C4'-O4'	5.79	116.04	109.10
33	AZ	60	ARG	NE-CZ-NH1	5.78	123.19	120.30
34	BA	711	C	N1-C2-O2	5.78	122.37	118.90
34	BA	1711	G	C8-N9-C4	5.78	108.71	106.40
35	BB	137	A	C5-C6-N1	5.78	120.59	117.70
35	BB	139	G	C1'-O4'-C4'	-5.78	105.27	109.90
35	BB	788	U	C5'-C4'-O4'	-5.78	102.16	109.10
35	BB	1250	A	C4-N9-C1'	-5.78	115.89	126.30
36	BC	6	G	C5-N7-C8	-5.78	101.41	104.30
36	BC	97	U	C5'-C4'-C3'	5.78	125.25	116.00
40	BG	117	C	C4'-C3'-C2'	-5.78	96.82	102.60
85	AA	85	U	O5'-C5'-C4'	-5.78	100.71	111.70
85	AA	727	U	C4'-C3'-C2'	-5.78	96.82	102.60
85	AA	1105	G	N1-C6-O6	-5.78	116.43	119.90
85	AA	1511	C	C1'-O4'-C4'	-5.78	105.27	109.90
85	AA	1616	U	C2-N1-C1'	-5.78	110.76	117.70
85	AA	1854	U	C5-C4-O4	-5.78	122.43	125.90
85	AA	2119	C	P-O3'-C3'	5.78	126.64	119.70
26	AS	119	ARG	CB-CA-C	5.78	121.96	110.40
34	BA	245	U	N1-C2-N3	5.78	118.37	114.90
34	BA	1252	G	C4-N9-C1'	-5.78	118.98	126.50
35	BB	69	A	C5'-C4'-C3'	-5.78	106.75	116.00
85	AA	253	C	C5'-C4'-O4'	5.78	116.04	109.10
85	AA	596	A	P-O3'-C3'	-5.78	112.76	119.70
85	AA	2029	G	C4'-C3'-C2'	-5.78	96.82	102.60
34	BA	213	A	C4-N9-C1'	-5.78	115.90	126.30
34	BA	1408	C	N3-C2-O2	-5.78	117.85	121.90
34	BA	1837	U	N3-C4-O4	-5.78	115.35	119.40
35	BB	1112	U	P-O3'-C3'	5.78	126.64	119.70
35	BB	1244	U	P-O3'-C3'	-5.78	112.76	119.70
39	BF	56	C	C6-N1-C1'	5.78	127.74	120.80
40	BG	3	G	C3'-C2'-C1'	-5.78	96.88	101.50
41	BH	20	A	C4'-C3'-C2'	-5.78	96.82	102.60
41	BH	76	G	P-O3'-C3'	5.78	126.64	119.70
62	Bc	108	ARG	NE-CZ-NH1	5.78	123.19	120.30
85	AA	1209	U	C2-N3-C4	-5.78	123.53	127.00
85	AA	1292	A	C5'-C4'-C3'	-5.78	106.75	116.00
85	AA	1585	A	C1'-O4'-C4'	-5.78	105.28	109.90
85	AA	1845	G	O4'-C1'-N9	5.78	112.82	108.20
85	AA	1970	A	C4-N9-C1'	-5.78	115.90	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A4	158	PHE	CA-CB-CG	-5.78	100.03	113.90
34	BA	47	U	C5'-C4'-C3'	5.78	125.25	116.00
34	BA	717	U	C2-N3-C4	-5.78	123.53	127.00
34	BA	744	G	O4'-C1'-N9	5.78	112.82	108.20
34	BA	770	G	C8-N9-C4	-5.78	104.09	106.40
35	BB	794	G	C4-N9-C1'	-5.78	118.99	126.50
35	BB	1080	U	C2-N1-C1'	-5.78	110.77	117.70
35	BB	1380	G	OP2-P-O3'	5.78	117.91	105.20
36	BC	139	A	C3'-C2'-C1'	-5.78	96.88	101.50
41	BH	130	G	C3'-C2'-C1'	-5.78	96.88	101.50
85	AA	1034	U	C1'-O4'-C4'	-5.78	105.28	109.90
85	AA	1058	G	C5'-C4'-O4'	5.78	116.03	109.10
85	AA	1573	A	C5-C6-N1	-5.78	114.81	117.70
14	AF	41	ARG	NE-CZ-NH2	-5.78	117.41	120.30
34	BA	376	U	C5'-C4'-O4'	5.78	116.03	109.10
34	BA	662	U	C5-C6-N1	-5.78	119.81	122.70
34	BA	805	A	O4'-C4'-C3'	-5.78	98.22	104.00
35	BB	112	G	N1-C6-O6	5.78	123.37	119.90
35	BB	131	A	C1'-O4'-C4'	-5.78	105.28	109.90
35	BB	662	G	C4-N9-C1'	-5.78	118.99	126.50
35	BB	1164	U	P-O3'-C3'	-5.78	112.77	119.70
35	BB	1374	U	O4'-C1'-N1	5.78	112.82	108.20
37	BD	39	C	P-O5'-C5'	-5.78	111.66	120.90
38	BE	174	U	C1'-O4'-C4'	-5.78	105.28	109.90
82	Bw	238	GLU	CA-CB-CG	5.78	126.11	113.40
85	AA	56	U	C5'-C4'-C3'	5.78	125.24	116.00
85	AA	157	G	N9-C1'-C2'	-5.78	105.64	112.00
85	AA	486	G	O4'-C1'-C2'	5.78	112.80	107.60
85	AA	570	U	C4'-C3'-C2'	-5.78	96.82	102.60
85	AA	716	G	N9-C1'-C2'	-5.78	105.64	112.00
85	AA	1103	A	C2'-C3'-O3'	5.78	122.94	113.70
85	AA	1213	U	N3-C2-O2	-5.78	118.16	122.20
85	AA	1342	C	C4'-C3'-C2'	-5.78	96.82	102.60
85	AA	1441	G	P-O5'-C5'	-5.78	111.66	120.90
85	AA	1837	U	P-O3'-C3'	-5.78	112.77	119.70
85	AA	2120	C	N1-C1'-C2'	-5.78	105.64	112.00
11	AC	124	PHE	CB-CA-C	-5.78	98.85	110.40
18	AJ	78	ARG	NE-CZ-NH1	5.78	123.19	120.30
34	BA	395	G	C5'-C4'-O4'	5.78	116.03	109.10
34	BA	487	A	C5-C6-N1	5.78	120.59	117.70
34	BA	522	C	C4'-C3'-C2'	-5.78	96.83	102.60
35	BB	448	G	C3'-C2'-C1'	-5.78	96.88	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	836	U	N1-C2-N3	5.78	118.36	114.90
35	BB	1119	G	C4-N9-C1'	-5.78	118.99	126.50
35	BB	1366	C	O4'-C1'-N1	5.78	112.82	108.20
37	BD	3	G	C5'-C4'-C3'	-5.78	106.76	116.00
38	BE	206	G	O4'-C4'-C3'	-5.78	98.22	104.00
40	BG	139	U	C3'-C2'-C1'	-5.78	96.88	101.50
65	Bf	393	VAL	CB-CA-C	-5.78	100.43	111.40
85	AA	69	C	O4'-C1'-C2'	5.78	112.80	107.60
85	AA	378	A	O4'-C1'-N9	5.78	112.82	108.20
85	AA	718	C	P-O3'-C3'	-5.78	112.77	119.70
85	AA	824	C	N1-C1'-C2'	-5.78	105.65	112.00
85	AA	1066	U	O4'-C1'-N1	5.78	112.82	108.20
85	AA	1305	A	C3'-C2'-C1'	-5.78	96.88	101.50
85	AA	1713	A	C5'-C4'-C3'	-5.78	106.76	116.00
4	A3	231	HIS	CA-CB-CG	-5.77	103.78	113.60
24	AQ	75	ASP	N-CA-C	5.77	126.59	111.00
34	BA	1829	A	C5'-C4'-C3'	-5.77	106.76	116.00
35	BB	517	G	N1-C6-O6	-5.77	116.44	119.90
35	BB	566	A	C5-C6-N1	5.77	120.59	117.70
35	BB	1467	A	O4'-C4'-C3'	-5.77	98.23	104.00
36	BC	76	C	C1'-O4'-C4'	-5.77	105.28	109.90
77	Br	270	THR	CA-CB-OG1	5.77	121.12	109.00
85	AA	14	C	C3'-C2'-C1'	-5.77	96.88	101.50
85	AA	860	C	N1-C2-N3	5.77	123.24	119.20
85	AA	873	U	O3'-P-O5'	5.77	114.97	104.00
85	AA	1571	A	C4'-C3'-C2'	-5.77	96.83	102.60
85	AA	1732	G	C5-C6-N1	5.77	114.39	111.50
21	AM	119	ARG	N-CA-C	5.77	126.58	111.00
34	BA	554	A	N7-C8-N9	-5.77	110.91	113.80
34	BA	1616	A	N9-C4-C5	5.77	108.11	105.80
35	BB	849	A	O4'-C1'-N9	5.77	112.82	108.20
35	BB	1379	U	C4'-C3'-C2'	-5.77	96.83	102.60
35	BB	1487	G	N3-C4-C5	-5.77	125.71	128.60
36	BC	43	A	C3'-C2'-C1'	-5.77	96.88	101.50
36	BC	82	C	C5'-C4'-O4'	5.77	116.03	109.10
38	BE	119	U	C6-N1-C1'	5.77	129.28	121.20
47	BN	9	PRO	CA-N-CD	-5.77	103.42	111.50
85	AA	928	U	N3-C4-C5	5.77	118.06	114.60
86	AB	2	C	C6-N1-C2	-5.77	117.99	120.30
34	BA	85	C	O4'-C1'-N1	5.77	112.82	108.20
35	BB	444	U	C5-C6-N1	-5.77	119.81	122.70
37	BD	115	A	C1'-O4'-C4'	-5.77	105.28	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	135	U	C2-N1-C1'	-5.77	110.78	117.70
45	BL	170	PHE	CB-CG-CD2	-5.77	116.76	120.80
64	Be	71	ARG	NE-CZ-NH2	-5.77	117.41	120.30
68	Bi	47	TYR	CB-CG-CD1	-5.77	117.54	121.00
85	AA	957	A	P-O3'-C3'	-5.77	112.77	119.70
85	AA	1198	U	C2-N1-C1'	-5.77	110.78	117.70
16	AH	131	ASP	N-CA-C	5.77	126.58	111.00
34	BA	63	A	C3'-C2'-C1'	-5.77	96.88	101.50
34	BA	523	A	C8-N9-C1'	5.77	138.09	127.70
34	BA	868	C	N1-C2-O2	5.77	122.36	118.90
34	BA	1397	C	C5-C6-N1	5.77	123.89	121.00
34	BA	1504	A	C8-N9-C4	-5.77	103.49	105.80
34	BA	1682	A	C8-N9-C4	-5.77	103.49	105.80
35	BB	560	C	C6-N1-C1'	5.77	127.72	120.80
35	BB	775	U	C1'-O4'-C4'	-5.77	105.28	109.90
35	BB	991	C	C4'-C3'-C2'	-5.77	96.83	102.60
35	BB	1014	U	C3'-C2'-C1'	-5.77	96.88	101.50
38	BE	69	C	O4'-C1'-N1	5.77	112.81	108.20
62	Bc	13	ARG	NE-CZ-NH1	5.77	123.19	120.30
85	AA	570	U	C6-N1-C2	-5.77	117.54	121.00
85	AA	752	C	O4'-C1'-N1	5.77	112.81	108.20
85	AA	1168	C	C5'-C4'-C3'	5.77	125.23	116.00
85	AA	1645	G	N1-C6-O6	5.77	123.36	119.90
85	AA	1730	C	O4'-C1'-N1	5.77	112.81	108.20
85	AA	1815	U	O4'-C1'-N1	5.77	112.82	108.20
85	AA	1916	A	C5-N7-C8	-5.77	101.02	103.90
4	A3	209	ARG	NE-CZ-NH1	5.77	123.18	120.30
11	AC	75	HIS	N-CA-CB	5.77	120.98	110.60
34	BA	186	G	O4'-C1'-N9	5.77	112.81	108.20
34	BA	407	A	O5'-P-OP2	-5.77	100.51	105.70
34	BA	544	U	C1'-O4'-C4'	-5.77	105.29	109.90
34	BA	567	U	O4'-C1'-N1	5.77	112.81	108.20
34	BA	922	C	C2-N3-C4	-5.77	117.02	119.90
34	BA	1421	A	C4'-C3'-C2'	5.77	108.37	102.60
35	BB	135	C	C1'-O4'-C4'	-5.77	105.28	109.90
35	BB	143	G	C4-N9-C1'	-5.77	119.00	126.50
35	BB	389	G	C5'-C4'-C3'	-5.77	106.77	116.00
35	BB	637	G	N7-C8-N9	5.77	115.98	113.10
35	BB	812	G	C3'-C2'-C1'	-5.77	96.89	101.50
35	BB	1178	A	C1'-O4'-C4'	-5.77	105.29	109.90
36	BC	15	G	C1'-O4'-C4'	-5.77	105.29	109.90
36	BC	21	U	O4'-C1'-C2'	5.77	112.79	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	23	G	C3'-C2'-C1'	-5.77	96.89	101.50
40	BG	30	C	C2'-C3'-O3'	5.77	122.93	113.70
48	BO	28	ASP	CB-CG-OD1	5.77	123.49	118.30
59	BZ	111	ARG	NE-CZ-NH1	5.77	123.18	120.30
65	Bf	406	ARG	CD-NE-CZ	5.77	131.67	123.60
85	AA	324	U	O4'-C1'-N1	5.77	112.81	108.20
85	AA	534	A	C5'-C4'-C3'	5.77	125.23	116.00
85	AA	538	A	P-O5'-C5'	5.77	130.13	120.90
85	AA	764	U	C5'-C4'-C3'	-5.77	106.77	116.00
85	AA	922	A	C8-N9-C4	5.77	108.11	105.80
85	AA	1540	A	O3'-P-O5'	-5.77	93.04	104.00
85	AA	1708	A	C4-N9-C1'	-5.77	115.92	126.30
85	AA	1734	A	C6-N1-C2	-5.77	115.14	118.60
85	AA	1811	C	N3-C4-N4	5.77	122.04	118.00
16	AH	91	ARG	NE-CZ-NH1	5.77	123.18	120.30
34	BA	398	G	C4-N9-C1'	-5.77	119.00	126.50
34	BA	749	G	P-O5'-C5'	-5.77	111.67	120.90
34	BA	1001	G	P-O3'-C3'	-5.77	112.78	119.70
34	BA	1565	U	O4'-C1'-N1	5.77	112.81	108.20
34	BA	1591	G	O5'-C5'-C4'	-5.77	100.75	111.70
34	BA	1647	G	O5'-C5'-C4'	-5.77	100.75	111.70
34	BA	1727	A	C5-C6-N6	5.77	128.31	123.70
35	BB	436	G	C2-N3-C4	-5.77	109.02	111.90
35	BB	588	A	C4'-C3'-C2'	-5.77	96.83	102.60
35	BB	755	A	O4'-C1'-N9	5.77	112.81	108.20
35	BB	787	A	O4'-C1'-C2'	5.77	112.79	107.60
40	BG	108	G	P-O3'-C3'	-5.77	112.78	119.70
85	AA	1004	G	P-O5'-C5'	5.77	130.12	120.90
85	AA	2057	G	C5'-C4'-O4'	5.77	116.02	109.10
34	BA	11	U	C5-C6-N1	-5.76	119.82	122.70
34	BA	120	A	OP1-P-OP2	-5.76	110.95	119.60
35	BB	1053	G	N9-C4-C5	-5.76	103.09	105.40
35	BB	1306	G	N9-C1'-C2'	-5.76	105.66	112.00
36	BC	162	C	C4'-C3'-C2'	-5.76	96.83	102.60
37	BD	115	A	C5-C6-N6	-5.76	119.09	123.70
38	BE	36	U	C5'-C4'-O4'	-5.76	102.18	109.10
38	BE	56	U	C5'-C4'-C3'	5.76	125.22	116.00
39	BF	32	G	C8-N9-C1'	-5.76	119.51	127.00
39	BF	37	C	C5-C6-N1	5.76	123.88	121.00
40	BG	4	A	C5-C6-N6	5.76	128.31	123.70
41	BH	2	U	C2-N3-C4	-5.76	123.54	127.00
85	AA	169	G	C4-N9-C1'	-5.76	119.01	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	463	G	C8-N9-C4	5.76	108.71	106.40
85	AA	538	A	C8-N9-C1'	-5.76	117.33	127.70
85	AA	648	G	C1'-O4'-C4'	-5.76	105.29	109.90
85	AA	1272	G	O4'-C1'-N9	5.76	112.81	108.20
85	AA	1846	G	C4-N9-C1'	5.76	134.00	126.50
85	AA	1915	C	O4'-C1'-N1	5.76	112.81	108.20
85	AA	2019	G	C5-C6-O6	-5.76	125.14	128.60
85	AA	2089	G	O3'-P-O5'	5.76	114.95	104.00
34	BA	62	A	C8-N9-C4	5.76	108.11	105.80
34	BA	1105	A	O3'-P-O5'	-5.76	93.05	104.00
38	BE	58	U	N1-C2-N3	-5.76	111.44	114.90
39	BF	51	C	O4'-C4'-C3'	5.76	110.71	106.10
80	Bu	15	ARG	NE-CZ-NH2	-5.76	117.42	120.30
85	AA	596	A	O4'-C1'-N9	5.76	112.81	108.20
85	AA	767	A	O4'-C1'-C2'	5.76	112.79	107.60
85	AA	1480	C	C1'-O4'-C4'	-5.76	105.29	109.90
85	AA	1984	A	N9-C1'-C2'	-5.76	105.66	112.00
2	A1	206	ARG	NE-CZ-NH2	-5.76	117.42	120.30
34	BA	3	G	C5'-C4'-O4'	-5.76	102.19	109.10
34	BA	429	G	N1-C6-O6	5.76	123.36	119.90
34	BA	668	G	C4-N9-C1'	5.76	133.99	126.50
34	BA	903	C	C4'-C3'-C2'	5.76	108.36	102.60
34	BA	913	U	O4'-C1'-N1	5.76	112.81	108.20
34	BA	1241	U	C5'-C4'-C3'	5.76	125.22	116.00
34	BA	1559	C	P-O3'-C3'	-5.76	112.78	119.70
34	BA	1734	U	C6-N1-C2	-5.76	117.54	121.00
35	BB	566	A	C5'-C4'-O4'	5.76	116.02	109.10
35	BB	1066	G	P-O3'-C3'	-5.76	112.79	119.70
41	BH	63	G	N3-C4-N9	5.76	129.46	126.00
80	Bu	164	ARG	NE-CZ-NH1	5.76	123.18	120.30
85	AA	1	G	O4'-C4'-C3'	-5.76	98.24	104.00
85	AA	608	A	C2-N3-C4	5.76	113.48	110.60
85	AA	754	C	P-O3'-C3'	5.76	126.61	119.70
85	AA	755	G	C5-C6-O6	-5.76	125.14	128.60
85	AA	1631	C	O4'-C1'-N1	5.76	112.81	108.20
85	AA	1815	U	P-O3'-C3'	-5.76	112.79	119.70
85	AA	2208	G	N7-C8-N9	5.76	115.98	113.10
34	BA	114	U	C2-N3-C4	-5.76	123.54	127.00
34	BA	240	C	C3'-C2'-C1'	-5.76	96.89	101.50
34	BA	352	G	C5-C6-N1	5.76	114.38	111.50
34	BA	576	C	O5'-P-OP1	5.76	117.61	110.70
34	BA	633	G	OP1-P-O3'	5.76	117.87	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	680	C	C5'-C4'-O4'	5.76	116.01	109.10
34	BA	688	G	C6-N1-C2	-5.76	121.64	125.10
34	BA	1559	C	N1-C2-O2	5.76	122.36	118.90
35	BB	42	A	P-O5'-C5'	5.76	130.11	120.90
35	BB	88	U	O3'-P-O5'	5.76	114.94	104.00
35	BB	498	G	C1'-O4'-C4'	-5.76	105.29	109.90
35	BB	565	U	C2-N1-C1'	5.76	124.61	117.70
35	BB	687	C	O5'-C5'-C4'	-5.76	100.75	111.70
35	BB	711	C	O4'-C1'-N1	5.76	112.81	108.20
35	BB	799	A	C6-N1-C2	-5.76	115.14	118.60
35	BB	807	U	P-O5'-C5'	5.76	130.12	120.90
35	BB	854	G	C8-N9-C4	-5.76	104.10	106.40
36	BC	49	G	N3-C2-N2	5.76	123.93	119.90
39	BF	19	A	C5'-C4'-O4'	5.76	116.01	109.10
41	BH	133	U	O5'-C5'-C4'	-5.76	100.76	111.70
47	BN	44	ARG	CA-CB-CG	5.76	126.07	113.40
85	AA	119	G	N3-C2-N2	-5.76	115.87	119.90
85	AA	365	G	O4'-C4'-C3'	-5.76	98.24	104.00
85	AA	651	G	N1-C6-O6	5.76	123.36	119.90
85	AA	1858	G	O4'-C1'-N9	5.76	112.81	108.20
18	AJ	43	LYS	CB-CA-C	-5.76	98.89	110.40
34	BA	710	A	O4'-C1'-N9	5.76	112.81	108.20
34	BA	1366	C	C2-N1-C1'	5.76	125.13	118.80
34	BA	1489	U	C1'-O4'-C4'	-5.76	105.29	109.90
40	BG	168	A	C2'-C3'-O3'	5.76	122.91	113.70
85	AA	1570	A	O4'-C1'-N9	5.76	112.81	108.20
85	AA	2114	U	C2-N1-C1'	-5.76	110.79	117.70
85	AA	2163	G	O4'-C1'-N9	5.76	112.81	108.20
8	A7	81	PHE	CB-CG-CD2	-5.76	116.77	120.80
34	BA	39	C	P-O3'-C3'	-5.76	112.79	119.70
34	BA	233	U	C6-N1-C1'	5.76	129.26	121.20
34	BA	758	G	C5'-C4'-O4'	5.76	116.01	109.10
34	BA	878	G	C4-N9-C1'	-5.76	119.02	126.50
34	BA	908	G	C4-N9-C1'	-5.76	119.02	126.50
34	BA	955	G	P-O3'-C3'	-5.76	112.79	119.70
34	BA	1826	C	P-O5'-C5'	5.76	130.11	120.90
35	BB	824	C	C3'-C2'-C1'	-5.76	96.89	101.50
35	BB	1174	C	O4'-C1'-N1	5.76	112.81	108.20
41	BH	57	A	C8-N9-C1'	5.76	138.06	127.70
85	AA	10	G	P-O5'-C5'	-5.76	111.69	120.90
85	AA	453	G	C2'-C3'-O3'	5.76	122.91	113.70
85	AA	1026	U	C5'-C4'-O4'	5.76	116.01	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1392	C	O4'-C1'-N1	5.76	112.81	108.20
36	BC	126	G	C3'-C2'-C1'	-5.75	96.90	101.50
38	BE	116	U	C3'-C2'-C1'	-5.75	96.90	101.50
40	BG	13	A	C4'-C3'-C2'	-5.75	96.84	102.60
85	AA	1191	G	C8-N9-C4	5.75	108.70	106.40
85	AA	1248	U	N3-C2-O2	-5.75	118.17	122.20
34	BA	572	G	C5'-C4'-O4'	-5.75	102.19	109.10
34	BA	877	U	N1-C2-O2	5.75	126.83	122.80
34	BA	983	A	C4'-C3'-C2'	5.75	108.35	102.60
34	BA	1381	A	O4'-C1'-N9	5.75	112.80	108.20
34	BA	1450	G	C1'-O4'-C4'	-5.75	105.30	109.90
35	BB	535	U	C3'-C2'-C1'	-5.75	96.90	101.50
35	BB	1046	C	N3-C2-O2	-5.75	117.87	121.90
35	BB	1084	A	C5'-C4'-C3'	-5.75	106.80	116.00
35	BB	1462	G	C8-N9-C4	-5.75	104.10	106.40
53	BT	110	ARG	NE-CZ-NH2	-5.75	117.42	120.30
54	BU	34	PHE	CB-CG-CD1	-5.75	116.77	120.80
54	BU	74	VAL	CB-CA-C	-5.75	100.47	111.40
83	Bx	46	ASP	N-CA-C	5.75	126.53	111.00
85	AA	24	U	O4'-C1'-C2'	5.75	112.78	107.60
85	AA	343	U	O4'-C1'-N1	5.75	112.80	108.20
85	AA	486	G	C2-N3-C4	5.75	114.78	111.90
85	AA	522	A	O4'-C1'-N9	5.75	112.80	108.20
85	AA	716	G	C3'-C2'-C1'	-5.75	96.90	101.50
85	AA	766	G	N1-C6-O6	-5.75	116.45	119.90
85	AA	1204	A	P-O5'-C5'	-5.75	111.70	120.90
85	AA	1499	G	C8-N9-C4	5.75	108.70	106.40
85	AA	1681	G	P-O5'-C5'	-5.75	111.69	120.90
85	AA	2251	U	C6-N1-C2	-5.75	117.55	121.00
86	AB	24	G	C8-N9-C4	-5.75	104.10	106.40
34	BA	295	G	C5-C6-N1	5.75	114.38	111.50
34	BA	616	G	O3'-P-O5'	5.75	114.93	104.00
34	BA	1752	A	C4-N9-C1'	-5.75	115.95	126.30
35	BB	392	G	N1-C2-N2	-5.75	111.02	116.20
35	BB	450	A	N1-C2-N3	-5.75	126.42	129.30
35	BB	621	C	C6-N1-C1'	5.75	127.70	120.80
35	BB	870	C	C2-N3-C4	-5.75	117.03	119.90
35	BB	976	U	O5'-P-OP2	-5.75	100.52	105.70
36	BC	81	U	C2'-C3'-O3'	5.75	122.90	113.70
37	BD	50	A	O4'-C1'-C2'	5.75	112.78	107.60
40	BG	73	U	C5-C6-N1	-5.75	119.82	122.70
85	AA	164	G	P-O3'-C3'	-5.75	112.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	186	U	C2-N1-C1'	-5.75	110.80	117.70
85	AA	444	U	O5'-P-OP2	5.75	117.60	110.70
85	AA	585	G	N7-C8-N9	-5.75	110.22	113.10
85	AA	674	U	N3-C2-O2	-5.75	118.17	122.20
85	AA	888	A	O4'-C1'-N9	5.75	112.80	108.20
85	AA	1060	U	P-O3'-C3'	5.75	126.60	119.70
34	BA	374	U	C5'-C4'-C3'	-5.75	106.80	116.00
39	BF	63	U	C3'-C2'-C1'	5.75	106.10	101.50
42	BI	113	SER	N-CA-CB	5.75	119.12	110.50
8	A7	136	TRP	CB-CG-CD2	-5.75	119.13	126.60
34	BA	268	U	N1-C1'-C2'	-5.75	105.68	112.00
34	BA	483	A	P-O3'-C3'	5.75	126.60	119.70
34	BA	528	C	O4'-C1'-N1	5.75	112.80	108.20
34	BA	610	A	O3'-P-O5'	-5.75	93.08	104.00
34	BA	1279	U	C2-N3-C4	-5.75	123.55	127.00
34	BA	1538	G	N9-C4-C5	5.75	107.70	105.40
35	BB	36	U	O5'-C5'-C4'	-5.75	100.78	111.70
35	BB	518	G	C3'-C2'-C1'	-5.75	96.90	101.50
35	BB	809	U	O4'-C1'-N1	5.75	112.80	108.20
35	BB	994	A	C4-C5-C6	-5.75	114.12	117.00
35	BB	1240	A	N1-C6-N6	-5.75	115.15	118.60
35	BB	1390	U	P-O3'-C3'	5.75	126.60	119.70
35	BB	1488	G	C5'-C4'-C3'	-5.75	106.80	116.00
41	BH	117	U	O3'-P-O5'	5.75	114.92	104.00
41	BH	134	U	C3'-C2'-C1'	-5.75	96.90	101.50
69	Bj	8	TYR	CA-CB-CG	-5.75	102.48	113.40
85	AA	267	U	O4'-C1'-C2'	-5.75	100.05	105.80
85	AA	570	U	C2-N1-C1'	-5.75	110.80	117.70
85	AA	646	C	N1-C2-O2	5.75	122.35	118.90
85	AA	1416	U	O4'-C1'-N1	5.75	112.80	108.20
85	AA	1506	U	C6-N1-C2	-5.75	117.55	121.00
85	AA	1681	G	C4-N9-C1'	-5.75	119.03	126.50
85	AA	2020	C	C6-N1-C2	-5.75	118.00	120.30
34	BA	298	G	P-O5'-C5'	-5.75	111.71	120.90
34	BA	700	G	C5-C6-N1	5.75	114.37	111.50
34	BA	701	G	O4'-C1'-C2'	5.75	112.77	107.60
34	BA	851	C	C2-N3-C4	-5.75	117.03	119.90
34	BA	1249	G	N1-C2-N2	-5.75	111.03	116.20
34	BA	1269	C	C1'-O4'-C4'	-5.75	105.30	109.90
34	BA	1444	G	O4'-C1'-N9	5.75	112.80	108.20
34	BA	1523	U	N3-C2-O2	-5.75	118.18	122.20
35	BB	22	A	N9-C1'-C2'	-5.75	105.68	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	253	G	O4'-C1'-N9	5.75	112.80	108.20
35	BB	778	A	C8-N9-C4	5.75	108.10	105.80
35	BB	1068	G	C5-C6-O6	-5.75	125.15	128.60
35	BB	1097	U	P-O3'-C3'	-5.75	112.80	119.70
35	BB	1523	U	C6-N1-C1'	5.75	129.25	121.20
36	BC	23	G	N3-C4-C5	-5.75	125.73	128.60
38	BE	106	C	C5-C4-N4	-5.75	116.18	120.20
40	BG	109	C	N3-C2-O2	-5.75	117.88	121.90
80	Bu	107	ARG	NE-CZ-NH1	5.75	123.17	120.30
85	AA	654	A	C4-C5-C6	-5.75	114.13	117.00
85	AA	693	A	C8-N9-C4	-5.75	103.50	105.80
85	AA	697	G	P-O3'-C3'	5.75	126.59	119.70
85	AA	1280	U	C5'-C4'-C3'	5.75	125.19	116.00
85	AA	1991	C	C2'-C3'-O3'	5.75	122.90	113.70
85	AA	2121	G	O3'-P-O5'	5.75	114.92	104.00
5	A4	188	PHE	CA-CB-CG	-5.75	100.11	113.90
34	BA	554	A	C5-C6-N6	-5.75	119.10	123.70
34	BA	649	A	N1-C6-N6	5.75	122.05	118.60
34	BA	1352	G	C4-N9-C1'	-5.75	119.03	126.50
41	BH	63	G	C4-C5-C6	5.75	122.25	118.80
85	AA	1354	A	P-O3'-C3'	5.75	126.59	119.70
85	AA	1449	C	C6-N1-C1'	5.75	127.69	120.80
85	AA	1753	A	O4'-C1'-N9	5.75	112.80	108.20
1	A0	111	ARG	CG-CD-NE	-5.74	99.74	111.80
27	AT	69	THR	CA-CB-CG2	-5.74	104.36	112.40
31	AX	55	ARG	NE-CZ-NH1	5.74	123.17	120.30
34	BA	289	A	N1-C2-N3	-5.74	126.43	129.30
34	BA	741	A	N9-C1'-C2'	-5.74	105.68	112.00
34	BA	1193	A	P-O5'-C5'	5.74	130.09	120.90
34	BA	1376	U	O4'-C1'-N1	5.74	112.80	108.20
34	BA	1550	G	N9-C1'-C2'	-5.74	105.68	112.00
35	BB	153	G	N1-C6-O6	5.74	123.35	119.90
35	BB	746	A	C5'-C4'-C3'	-5.74	106.81	116.00
35	BB	773	G	P-O5'-C5'	-5.74	111.71	120.90
35	BB	878	G	C8-N9-C1'	5.74	134.47	127.00
36	BC	37	U	P-O3'-C3'	-5.74	112.81	119.70
37	BD	59	G	C8-N9-C1'	5.74	134.47	127.00
38	BE	177	U	C1'-O4'-C4'	-5.74	105.31	109.90
40	BG	111	C	N1-C2-O2	5.74	122.35	118.90
50	BQ	175	HIS	N-CA-CB	5.74	120.94	110.60
73	Bn	28	HIS	CB-CA-C	-5.74	98.91	110.40
85	AA	310	U	C6-N1-C1'	5.74	129.24	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	714	U	N1-C2-O2	5.74	126.82	122.80
85	AA	962	U	C3'-C2'-C1'	-5.74	96.91	101.50
85	AA	2042	G	P-O5'-C5'	-5.74	111.71	120.90
86	AB	57	G	C8-N9-C4	5.74	108.70	106.40
34	BA	30	A	O5'-C5'-C4'	-5.74	100.79	111.70
34	BA	689	C	C2-N3-C4	-5.74	117.03	119.90
34	BA	709	C	N3-C2-O2	-5.74	117.88	121.90
34	BA	955	G	C5'-C4'-C3'	-5.74	106.81	116.00
34	BA	1249	G	N3-C4-C5	-5.74	125.73	128.60
34	BA	1482	A	O4'-C1'-C2'	5.74	112.77	107.60
34	BA	1739	G	C5-N7-C8	-5.74	101.43	104.30
34	BA	1820	G	C5'-C4'-C3'	5.74	125.19	116.00
37	BD	19	C	C6-N1-C2	-5.74	118.00	120.30
40	BG	8	U	P-O5'-C5'	5.74	130.09	120.90
73	Bn	28	HIS	CA-CB-CG	-5.74	103.84	113.60
85	AA	1372	C	C5'-C4'-C3'	-5.74	106.81	116.00
11	AC	73	TYR	CB-CA-C	5.74	121.88	110.40
34	BA	262	A	C4-C5-C6	-5.74	114.13	117.00
34	BA	373	G	N9-C1'-C2'	-5.74	105.69	112.00
34	BA	762	A	C2'-C3'-O3'	5.74	122.88	113.70
34	BA	825	G	C3'-C2'-C1'	-5.74	96.91	101.50
34	BA	1823	A	P-O5'-C5'	5.74	130.09	120.90
35	BB	80	C	N3-C4-N4	-5.74	113.98	118.00
35	BB	397	C	N3-C4-N4	-5.74	113.98	118.00
35	BB	416	U	P-O3'-C3'	-5.74	112.81	119.70
35	BB	679	G	O4'-C1'-N9	5.74	112.79	108.20
35	BB	900	C	P-O5'-C5'	5.74	130.08	120.90
37	BD	18	G	C1'-O4'-C4'	-5.74	105.31	109.90
37	BD	45	U	C6-N1-C2	-5.74	117.56	121.00
47	BN	103	ASP	CB-CG-OD1	-5.74	113.13	118.30
62	Bc	75	LEU	N-CA-C	-5.74	95.50	111.00
81	Bv	47	ARG	NE-CZ-NH1	5.74	123.17	120.30
85	AA	1047	G	C4-N9-C1'	-5.74	119.04	126.50
85	AA	1295	G	O3'-P-O5'	5.74	114.91	104.00
85	AA	1299	A	C4-N9-C1'	-5.74	115.97	126.30
85	AA	2145	G	C5-C6-O6	-5.74	125.16	128.60
85	AA	2202	G	N1-C2-N2	-5.74	111.03	116.20
26	AS	105	PHE	CB-CA-C	-5.74	98.92	110.40
34	BA	6	C	O4'-C1'-C2'	5.74	112.77	107.60
34	BA	425	G	C4'-C3'-C2'	-5.74	96.86	102.60
34	BA	570	G	C6-C5-N7	-5.74	126.96	130.40
34	BA	854	A	C5-C6-N6	-5.74	119.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1481	U	O4'-C1'-N1	5.74	112.79	108.20
34	BA	1714	A	N1-C6-N6	-5.74	115.16	118.60
35	BB	399	A	C5-C6-N6	-5.74	119.11	123.70
35	BB	466	A	C5-C6-N6	5.74	128.29	123.70
35	BB	643	G	C5'-C4'-C3'	-5.74	106.82	116.00
35	BB	717	A	C6-N1-C2	-5.74	115.16	118.60
35	BB	880	G	N1-C6-O6	5.74	123.34	119.90
54	BU	56	TYR	CB-CG-CD2	-5.74	117.56	121.00
85	AA	486	G	C5-C6-N1	5.74	114.37	111.50
85	AA	508	C	O3'-P-O5'	-5.74	93.10	104.00
85	AA	766	G	C5'-C4'-O4'	5.74	115.99	109.10
85	AA	813	G	C3'-C2'-C1'	-5.74	96.91	101.50
85	AA	836	A	C5'-C4'-O4'	5.74	115.99	109.10
85	AA	1084	A	C5-C6-N6	5.74	128.29	123.70
85	AA	1620	G	O4'-C1'-N9	5.74	112.79	108.20
85	AA	1703	A	O5'-C5'-C4'	-5.74	100.80	111.70
85	AA	1883	C	C6-N1-C2	-5.74	118.00	120.30
85	AA	1886	U	O4'-C1'-N1	5.74	112.79	108.20
86	AB	17	C	C5'-C4'-O4'	5.74	115.99	109.10
86	AB	38	A	C5'-C4'-C3'	-5.74	106.82	116.00
34	BA	561	U	C5-C4-O4	-5.74	122.46	125.90
34	BA	628	U	C2-N3-C4	-5.74	123.56	127.00
35	BB	431	U	C4'-C3'-C2'	5.74	108.34	102.60
38	BE	89	G	C3'-C2'-C1'	-5.74	96.91	101.50
38	BE	206	G	N1-C6-O6	5.74	123.34	119.90
85	AA	123	A	C5-C6-N6	-5.74	119.11	123.70
85	AA	743	C	C5'-C4'-O4'	-5.74	102.22	109.10
85	AA	838	G	C5-C6-N1	5.74	114.37	111.50
85	AA	1378	U	O4'-C1'-N1	5.74	112.79	108.20
34	BA	102	G	C5-C6-O6	5.74	132.04	128.60
34	BA	591	G	OP2-P-O3'	5.74	117.82	105.20
34	BA	769	U	OP1-P-O3'	5.74	117.82	105.20
34	BA	791	A	O4'-C1'-N9	5.74	112.79	108.20
34	BA	1496	G	C6-C5-N7	-5.74	126.96	130.40
34	BA	1656	A	N7-C8-N9	-5.74	110.93	113.80
35	BB	463	C	N3-C2-O2	-5.74	117.89	121.90
35	BB	910	C	O4'-C1'-N1	5.74	112.79	108.20
35	BB	1002	G	O4'-C1'-N9	5.74	112.79	108.20
35	BB	1057	G	O5'-C5'-C4'	-5.74	100.80	111.70
35	BB	1207	C	N3-C4-C5	-5.74	119.61	121.90
35	BB	1217	C	C5'-C4'-C3'	-5.74	106.82	116.00
36	BC	42	G	C8-N9-C1'	5.74	134.46	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	139	U	N3-C2-O2	-5.74	118.19	122.20
83	Bx	198	ARG	NE-CZ-NH1	5.74	123.17	120.30
85	AA	496	C	C1'-O4'-C4'	-5.74	105.31	109.90
85	AA	1762	G	C4'-C3'-C2'	-5.74	96.86	102.60
85	AA	2195	A	C8-N9-C1'	5.74	138.03	127.70
34	BA	88	C	C6-N1-C1'	5.73	127.68	120.80
34	BA	940	C	C6-N1-C1'	5.73	127.68	120.80
34	BA	1470	G	P-O3'-C3'	5.73	126.58	119.70
34	BA	1742	G	N3-C2-N2	5.73	123.91	119.90
35	BB	834	U	C5-C6-N1	5.73	125.57	122.70
38	BE	112	G	C8-N9-C1'	5.73	134.45	127.00
39	BF	56	C	C5'-C4'-C3'	5.73	125.17	116.00
40	BG	22	G	C3'-C2'-C1'	-5.73	96.91	101.50
40	BG	43	U	O3'-P-O5'	5.73	114.89	104.00
47	BN	156	SER	N-CA-CB	5.73	119.10	110.50
85	AA	120	C	C6-N1-C2	-5.73	118.01	120.30
85	AA	1156	A	C5-C6-N6	-5.73	119.11	123.70
85	AA	1696	U	C4'-C3'-C2'	-5.73	96.87	102.60
85	AA	2216	A	O3'-P-O5'	5.73	114.89	104.00
23	AP	60	SER	N-CA-CB	5.73	119.10	110.50
25	AR	53	THR	N-CA-C	-5.73	95.52	111.00
34	BA	1	C	O4'-C1'-N1	5.73	112.79	108.20
34	BA	467	A	P-O3'-C3'	-5.73	112.82	119.70
34	BA	995	A	P-O3'-C3'	-5.73	112.82	119.70
34	BA	1573	C	P-O5'-C5'	5.73	130.07	120.90
34	BA	1606	A	C1'-O4'-C4'	-5.73	105.31	109.90
35	BB	53	C	C5'-C4'-C3'	5.73	125.17	116.00
35	BB	440	U	C3'-C2'-C1'	-5.73	96.91	101.50
35	BB	483	C	P-O5'-C5'	5.73	130.07	120.90
35	BB	1282	G	C6-N1-C2	-5.73	121.66	125.10
35	BB	1430	G	P-O3'-C3'	-5.73	112.82	119.70
38	BE	53	U	P-O3'-C3'	-5.73	112.82	119.70
40	BG	128	U	C2-N1-C1'	-5.73	110.82	117.70
59	BZ	24	ARG	NE-CZ-NH2	-5.73	117.43	120.30
84	By	4	LYS	C-N-CA	5.73	136.03	121.70
85	AA	274	A	C3'-C2'-C1'	-5.73	96.91	101.50
85	AA	381	A	C4-N9-C1'	-5.73	115.98	126.30
85	AA	451	G	C4-N9-C1'	-5.73	119.05	126.50
85	AA	543	A	C8-N9-C4	5.73	108.09	105.80
85	AA	764	U	C6-N1-C2	5.73	124.44	121.00
85	AA	936	C	C6-N1-C1'	5.73	127.68	120.80
85	AA	1163	G	C3'-C2'-C1'	-5.73	96.91	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2010	C	P-O3'-C3'	-5.73	112.82	119.70
85	AA	2046	G	C5'-C4'-C3'	-5.73	106.83	116.00
86	AB	63	G	C3'-C2'-C1'	-5.73	96.91	101.50
34	BA	863	G	C5-C6-O6	5.73	132.04	128.60
34	BA	1098	G	C8-N9-C4	5.73	108.69	106.40
34	BA	1211	G	C2'-C3'-O3'	5.73	122.87	113.70
34	BA	1738	G	C4-N9-C1'	-5.73	119.05	126.50
35	BB	512	C	O5'-P-OP2	-5.73	100.54	105.70
35	BB	1124	G	P-O3'-C3'	-5.73	112.82	119.70
35	BB	1220	A	N1-C6-N6	5.73	122.04	118.60
37	BD	21	G	N3-C2-N2	5.73	123.91	119.90
39	BF	48	G	C3'-C2'-C1'	-5.73	96.92	101.50
41	BH	111	U	N3-C4-O4	-5.73	115.39	119.40
41	BH	114	G	C4'-C3'-C2'	5.73	108.33	102.60
47	BN	9	PRO	N-CA-C	5.73	127.00	112.10
53	BT	88	ARG	CG-CD-NE	-5.73	99.77	111.80
85	AA	1496	U	C2-N1-C1'	-5.73	110.82	117.70
34	BA	837	U	C5-C4-O4	-5.73	122.46	125.90
34	BA	1198	U	O4'-C1'-N1	5.73	112.78	108.20
34	BA	1212	A	C6-N1-C2	-5.73	115.16	118.60
34	BA	1488	C	O4'-C1'-C2'	5.73	112.76	107.60
34	BA	1577	U	O5'-C5'-C4'	-5.73	100.81	111.70
35	BB	1268	C	C3'-C2'-C1'	-5.73	96.92	101.50
38	BE	40	C	N1-C1'-C2'	-5.73	105.70	112.00
48	BO	131	VAL	CG1-CB-CG2	5.73	120.07	110.90
85	AA	1334	C	O4'-C1'-N1	5.73	112.78	108.20
85	AA	1799	C	C5'-C4'-O4'	5.73	115.97	109.10
31	AX	98	MET	CB-CA-C	-5.73	98.94	110.40
34	BA	168	U	C3'-C2'-C1'	-5.73	96.92	101.50
34	BA	277	A	C8-N9-C4	5.73	108.09	105.80
34	BA	531	C	C1'-O4'-C4'	-5.73	105.32	109.90
34	BA	1099	U	P-O5'-C5'	-5.73	111.73	120.90
34	BA	1330	G	C5-C6-O6	-5.73	125.16	128.60
34	BA	1409	A	C4-N9-C1'	-5.73	115.99	126.30
34	BA	1728	G	N1-C2-N2	-5.73	111.05	116.20
35	BB	499	A	C8-N9-C4	5.73	108.09	105.80
35	BB	552	C	O5'-C5'-C4'	-5.73	100.82	111.70
35	BB	650	A	P-O5'-C5'	5.73	130.06	120.90
36	BC	134	G	N3-C4-C5	-5.73	125.74	128.60
41	BH	104	U	C2-N1-C1'	-5.73	110.83	117.70
85	AA	1328	U	C2-N1-C1'	5.73	124.57	117.70
34	BA	398	G	O4'-C1'-N9	5.73	112.78	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	872	U	O5'-P-OP2	5.73	117.57	110.70
34	BA	1710	C	OP1-P-O3'	5.73	117.80	105.20
35	BB	105	U	O4'-C1'-N1	5.73	112.78	108.20
35	BB	1038	G	O3'-P-O5'	-5.73	93.12	104.00
77	Br	206	PRO	N-CA-C	5.73	126.99	112.10
85	AA	496	C	C2-N3-C4	5.73	122.76	119.90
34	BA	265	A	P-O3'-C3'	5.72	126.57	119.70
34	BA	471	U	C2'-C3'-O3'	5.72	122.86	113.70
34	BA	799	A	C5'-C4'-C3'	5.72	125.16	116.00
34	BA	941	G	C5-C6-N1	5.72	114.36	111.50
34	BA	1033	G	C3'-C2'-C1'	-5.72	96.92	101.50
34	BA	1458	A	O5'-C5'-C4'	5.72	122.58	111.70
35	BB	416	U	N1-C1'-C2'	-5.72	105.70	112.00
35	BB	811	C	C3'-C2'-C1'	-5.72	96.92	101.50
36	BC	119	G	C4-N9-C1'	-5.72	119.06	126.50
76	Bq	30	ARG	CG-CD-NE	-5.72	99.78	111.80
85	AA	286	C	C1'-O4'-C4'	-5.72	105.32	109.90
85	AA	994	A	C5'-C4'-O4'	5.72	115.97	109.10
85	AA	1255	C	C5'-C4'-C3'	-5.72	106.84	116.00
34	BA	77	C	N1-C2-O2	5.72	122.33	118.90
34	BA	252	A	P-O3'-C3'	-5.72	112.83	119.70
34	BA	617	G	C8-N9-C1'	5.72	134.44	127.00
34	BA	1146	U	O4'-C1'-N1	5.72	112.78	108.20
34	BA	1381	A	C4-N9-C1'	5.72	136.60	126.30
34	BA	1803	A	C4'-C3'-C2'	5.72	108.32	102.60
35	BB	310	U	O4'-C1'-N1	5.72	112.78	108.20
35	BB	606	C	O4'-C1'-C2'	5.72	112.75	107.60
35	BB	697	G	C5'-C4'-C3'	-5.72	106.84	116.00
41	BH	134	U	C4'-C3'-C2'	-5.72	96.88	102.60
85	AA	158	C	O4'-C1'-N1	5.72	112.78	108.20
85	AA	560	C	O3'-P-O5'	-5.72	93.13	104.00
85	AA	893	G	C6-C5-N7	-5.72	126.97	130.40
85	AA	1236	G	C4-C5-C6	-5.72	115.37	118.80
34	BA	248	G	C4'-C3'-O3'	5.72	124.44	113.00
34	BA	1605	G	N3-C2-N2	5.72	123.91	119.90
34	BA	1724	G	P-O5'-C5'	5.72	130.05	120.90
35	BB	534	C	C5'-C4'-C3'	-5.72	106.85	116.00
85	AA	57	G	P-O3'-C3'	-5.72	112.83	119.70
85	AA	190	A	C5-C6-N1	5.72	120.56	117.70
85	AA	943	U	N3-C4-O4	5.72	123.40	119.40
86	AB	53	G	O4'-C1'-N9	5.72	112.78	108.20
34	BA	366	G	C5'-C4'-C3'	-5.72	106.85	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	955	G	C4-N9-C1'	-5.72	119.06	126.50
34	BA	1436	A	C4-N9-C1'	-5.72	116.00	126.30
34	BA	1558	C	C2-N3-C4	-5.72	117.04	119.90
34	BA	1656	A	C4-N9-C1'	-5.72	116.00	126.30
35	BB	108	G	C6-N1-C2	-5.72	121.67	125.10
35	BB	676	G	C5-C6-N1	5.72	114.36	111.50
35	BB	1269	A	P-O3'-C3'	-5.72	112.84	119.70
35	BB	1469	A	P-O3'-C3'	-5.72	112.84	119.70
36	BC	16	A	N7-C8-N9	-5.72	110.94	113.80
36	BC	159	U	O4'-C1'-C2'	-5.72	100.08	105.80
37	BD	79	G	O4'-C1'-C2'	5.72	112.75	107.60
38	BE	30	C	O3'-P-O5'	-5.72	93.13	104.00
38	BE	107	U	C5'-C4'-O4'	5.72	115.96	109.10
39	BF	58	U	C2-N3-C4	-5.72	123.57	127.00
65	Bf	265	PHE	CB-CG-CD1	-5.72	116.80	120.80
72	Bm	95	ARG	NE-CZ-NH2	-5.72	117.44	120.30
85	AA	241	U	C5'-C4'-O4'	5.72	115.96	109.10
85	AA	768	C	C6-N1-C2	-5.72	118.01	120.30
85	AA	803	C	N3-C4-N4	5.72	122.00	118.00
85	AA	993	G	O4'-C1'-N9	5.72	112.78	108.20
85	AA	1019	U	O4'-C1'-N1	5.72	112.78	108.20
85	AA	1286	C	N1-C2-O2	5.72	122.33	118.90
85	AA	1972	A	P-O5'-C5'	-5.72	111.75	120.90
85	AA	2013	A	N1-C6-N6	5.72	122.03	118.60
85	AA	2069	A	C5'-C4'-C3'	-5.72	106.85	116.00
34	BA	779	U	C2-N3-C4	-5.72	123.57	127.00
34	BA	1451	A	C1'-O4'-C4'	-5.72	105.33	109.90
34	BA	1566	G	C4'-C3'-C2'	-5.72	96.88	102.60
37	BD	92	G	C4-N9-C1'	-5.72	119.07	126.50
40	BG	60	A	C5-C6-N6	-5.72	119.12	123.70
40	BG	131	U	C2-N1-C1'	-5.72	110.84	117.70
52	BS	10	CYS	N-CA-CB	5.72	120.89	110.60
85	AA	312	G	P-O5'-C5'	-5.72	111.75	120.90
85	AA	430	G	N1-C6-O6	5.72	123.33	119.90
85	AA	674	U	C1'-O4'-C4'	-5.72	105.33	109.90
85	AA	1175	A	C5'-C4'-O4'	5.72	115.96	109.10
85	AA	1353	U	O4'-C1'-N1	5.72	112.77	108.20
4	A3	32	ARG	NE-CZ-NH2	5.72	123.16	120.30
34	BA	254	U	O3'-P-O5'	-5.72	93.14	104.00
34	BA	312	U	C2-N1-C1'	-5.72	110.84	117.70
34	BA	1022	C	C3'-C2'-C1'	-5.72	96.93	101.50
34	BA	1313	U	C5'-C4'-O4'	5.72	115.96	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1435	A	C3'-C2'-C1'	-5.72	96.93	101.50
35	BB	124	G	OP1-P-OP2	-5.72	111.03	119.60
35	BB	816	U	C6-N1-C2	-5.72	117.57	121.00
35	BB	854	G	P-O3'-C3'	-5.72	112.84	119.70
35	BB	975	G	P-O3'-C3'	-5.72	112.84	119.70
35	BB	1435	G	N1-C6-O6	5.72	123.33	119.90
38	BE	11	A	C2-N3-C4	-5.72	107.74	110.60
38	BE	122	G	N9-C1'-C2'	-5.72	105.71	112.00
38	BE	201	A	N7-C8-N9	-5.72	110.94	113.80
40	BG	147	U	C6-N1-C2	-5.72	117.57	121.00
47	BN	214	GLU	CB-CG-CD	-5.72	98.77	114.20
81	Bv	79	ARG	CD-NE-CZ	-5.72	115.60	123.60
85	AA	683	U	C3'-C2'-C1'	-5.72	96.93	101.50
85	AA	790	A	N9-C1'-C2'	-5.72	105.71	112.00
85	AA	881	C	C5-C4-N4	5.72	124.20	120.20
85	AA	983	A	C8-N9-C4	-5.72	103.51	105.80
85	AA	1359	U	C6-N1-C2	-5.72	117.57	121.00
85	AA	1464	G	N3-C2-N2	5.72	123.90	119.90
85	AA	1501	A	N9-C1'-C2'	-5.72	105.71	112.00
85	AA	2239	A	P-O5'-C5'	-5.72	111.75	120.90
86	AB	73	A	C1'-O4'-C4'	-5.72	105.33	109.90
34	BA	132	U	C2-N1-C1'	-5.71	110.84	117.70
34	BA	468	A	C4'-C3'-C2'	-5.71	96.89	102.60
34	BA	547	C	N1-C1'-C2'	-5.71	105.72	112.00
34	BA	696	A	C5-C6-N1	5.71	120.56	117.70
34	BA	821	G	P-O3'-C3'	-5.71	112.84	119.70
34	BA	1054	U	N1-C2-N3	5.71	118.33	114.90
34	BA	1537	G	C8-N9-C4	-5.71	104.11	106.40
34	BA	1561	C	O5'-C5'-C4'	-5.71	100.84	111.70
35	BB	420	U	C1'-O4'-C4'	-5.71	105.33	109.90
35	BB	522	A	O4'-C4'-C3'	-5.71	98.29	104.00
35	BB	670	G	N9-C1'-C2'	-5.71	105.71	112.00
35	BB	1317	U	C2-N1-C1'	5.71	124.56	117.70
35	BB	1458	U	C5-C4-O4	5.71	129.33	125.90
39	BF	42	G	N9-C1'-C2'	-5.71	105.71	112.00
40	BG	8	U	N1-C1'-C2'	-5.71	105.71	112.00
85	AA	108	C	C6-N1-C1'	-5.71	113.94	120.80
85	AA	395	G	P-O5'-C5'	-5.71	111.76	120.90
85	AA	425	G	P-O3'-C3'	-5.71	112.84	119.70
85	AA	1035	C	C5'-C4'-O4'	5.71	115.96	109.10
85	AA	1275	A	P-O3'-C3'	5.71	126.56	119.70
85	AA	2031	C	C2'-C3'-O3'	5.71	122.84	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	331	G	C3'-C2'-C1'	-5.71	96.93	101.50
34	BA	1146	U	O5'-C5'-C4'	-5.71	100.84	111.70
34	BA	1523	U	C2-N1-C1'	-5.71	110.84	117.70
34	BA	1803	A	N9-C4-C5	-5.71	103.52	105.80
35	BB	644	A	C8-N9-C4	-5.71	103.52	105.80
41	BH	118	U	P-O5'-C5'	5.71	130.04	120.90
84	By	16	THR	CA-CB-CG2	-5.71	104.40	112.40
85	AA	22	A	P-O3'-C3'	-5.71	112.84	119.70
85	AA	815	G	N1-C2-N2	-5.71	111.06	116.20
85	AA	845	A	P-O3'-C3'	5.71	126.56	119.70
85	AA	1682	U	O4'-C1'-N1	5.71	112.77	108.20
85	AA	1702	G	C5-C6-O6	-5.71	125.17	128.60
5	A4	4	GLN	N-CA-C	-5.71	95.58	111.00
19	AK	131	GLU	N-CA-C	5.71	126.42	111.00
34	BA	27	G	P-O5'-C5'	5.71	130.04	120.90
34	BA	496	G	N9-C1'-C2'	-5.71	105.72	112.00
34	BA	918	U	O4'-C1'-N1	5.71	112.77	108.20
34	BA	996	U	C2-N1-C1'	-5.71	110.84	117.70
34	BA	1223	C	O5'-C5'-C4'	-5.71	100.85	111.70
34	BA	1321	A	O5'-C5'-C4'	-5.71	100.85	111.70
34	BA	1563	G	N3-C4-C5	-5.71	125.75	128.60
34	BA	1587	C	O3'-P-O5'	-5.71	93.15	104.00
35	BB	525	U	C2-N1-C1'	-5.71	110.85	117.70
35	BB	1160	U	P-O3'-C3'	5.71	126.55	119.70
37	BD	34	C	O4'-C1'-N1	5.71	112.77	108.20
38	BE	85	G	N9-C1'-C2'	-5.71	105.72	112.00
39	BF	12	U	C4'-C3'-C2'	-5.71	96.89	102.60
40	BG	131	U	N1-C1'-C2'	-5.71	105.72	112.00
40	BG	177	U	P-O5'-C5'	-5.71	111.76	120.90
41	BH	53	C	P-O3'-C3'	-5.71	112.85	119.70
41	BH	87	U	O5'-P-OP1	5.71	117.55	110.70
41	BH	95	C	N3-C4-C5	-5.71	119.61	121.90
42	BI	78	LEU	N-CA-CB	5.71	121.83	110.40
52	BS	175	ARG	NE-CZ-NH1	5.71	123.16	120.30
80	Bu	23	ARG	CD-NE-CZ	-5.71	115.60	123.60
82	Bw	143	ARG	NE-CZ-NH1	5.71	123.16	120.30
85	AA	349	C	N1-C1'-C2'	-5.71	105.72	112.00
85	AA	1079	C	O4'-C1'-N1	5.71	112.77	108.20
85	AA	1362	A	O5'-C5'-C4'	5.71	122.55	111.70
85	AA	1377	C	O4'-C1'-N1	5.71	112.77	108.20
85	AA	1610	G	C4-N9-C1'	-5.71	119.08	126.50
85	AA	1839	G	O4'-C1'-N9	5.71	112.77	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1987	G	C5-C6-O6	-5.71	125.17	128.60
85	AA	2022	A	P-O3'-C3'	5.71	126.55	119.70
85	AA	2168	C	P-O5'-C5'	-5.71	111.76	120.90
34	BA	502	U	C5-C6-N1	-5.71	119.84	122.70
34	BA	768	G	C8-N9-C4	5.71	108.68	106.40
35	BB	768	A	C1'-O4'-C4'	-5.71	105.33	109.90
35	BB	981	A	P-O5'-C5'	-5.71	111.77	120.90
40	BG	85	C	C6-N1-C1'	-5.71	113.95	120.80
40	BG	95	U	C1'-O4'-C4'	-5.71	105.33	109.90
82	Bw	225	PRO	N-CA-CB	-5.71	96.32	102.60
85	AA	492	C	C1'-O4'-C4'	-5.71	105.33	109.90
85	AA	1720	C	C2-N3-C4	-5.71	117.05	119.90
85	AA	2215	C	P-O3'-C3'	5.71	126.55	119.70
2	A1	51	TYR	CA-CB-CG	5.71	124.24	113.40
16	AH	61	GLU	N-CA-C	5.71	126.41	111.00
34	BA	171	U	N1-C1'-C2'	-5.71	105.72	112.00
34	BA	234	A	C4-N9-C1'	-5.71	116.02	126.30
34	BA	259	C	N3-C2-O2	-5.71	117.90	121.90
34	BA	659	U	C2'-C3'-O3'	5.71	122.83	113.70
34	BA	1054	U	C2-N1-C1'	-5.71	110.85	117.70
34	BA	1261	G	P-O5'-C5'	-5.71	111.77	120.90
34	BA	1475	G	C4-N9-C1'	-5.71	119.08	126.50
35	BB	143	G	C8-N9-C1'	5.71	134.42	127.00
35	BB	1203	C	P-O5'-C5'	-5.71	111.77	120.90
35	BB	1282	G	N1-C6-O6	-5.71	116.47	119.90
35	BB	1416	A	O4'-C1'-N9	5.71	112.77	108.20
35	BB	1467	A	C3'-C2'-C1'	-5.71	96.93	101.50
36	BC	55	U	C5-C4-O4	5.71	129.33	125.90
37	BD	105	G	C5-C6-O6	-5.71	125.17	128.60
84	By	18	SER	CB-CA-C	-5.71	99.25	110.10
85	AA	805	A	C8-N9-C4	-5.71	103.52	105.80
85	AA	881	C	C5'-C4'-C3'	-5.71	106.87	116.00
85	AA	963	U	C5'-C4'-C3'	-5.71	106.87	116.00
85	AA	1267	A	C5'-C4'-C3'	-5.71	106.86	116.00
85	AA	1717	G	N1-C6-O6	5.71	123.33	119.90
85	AA	2080	U	C2'-C3'-O3'	5.71	122.83	113.70
25	AR	71	HIS	CA-CB-CG	-5.71	103.90	113.60
31	AX	89	ARG	NE-CZ-NH1	5.71	123.15	120.30
34	BA	42	A	O5'-P-OP2	-5.71	100.56	105.70
34	BA	401	A	C5'-C4'-C3'	-5.71	106.87	116.00
34	BA	554	A	C6-N1-C2	-5.71	115.18	118.60
34	BA	881	C	N3-C4-N4	-5.71	114.00	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1187	U	C5'-C4'-O4'	5.71	115.95	109.10
34	BA	1425	G	N1-C6-O6	5.71	123.32	119.90
34	BA	1438	C	O5'-C5'-C4'	-5.71	100.86	111.70
34	BA	1451	A	C5-C6-N1	5.71	120.55	117.70
34	BA	1535	G	N1-C6-O6	5.71	123.32	119.90
34	BA	1618	A	C8-N9-C4	-5.71	103.52	105.80
35	BB	837	A	C2'-C3'-O3'	5.71	122.83	113.70
35	BB	863	U	C5'-C4'-O4'	5.71	115.95	109.10
35	BB	1072	C	C3'-C2'-C1'	-5.71	96.93	101.50
35	BB	1193	G	C8-N9-C4	5.71	108.68	106.40
36	BC	21	U	C2-N1-C1'	-5.71	110.85	117.70
41	BH	26	C	N1-C2-O2	-5.71	115.48	118.90
43	BJ	212	ARG	NE-CZ-NH2	-5.71	117.45	120.30
85	AA	154	U	C3'-C2'-C1'	-5.71	96.94	101.50
85	AA	284	C	C1'-O4'-C4'	-5.71	105.33	109.90
85	AA	681	G	C5-C6-O6	-5.71	125.18	128.60
85	AA	684	G	N3-C4-C5	-5.71	125.75	128.60
85	AA	822	U	N3-C2-O2	-5.71	118.21	122.20
85	AA	1164	A	C1'-O4'-C4'	-5.71	105.33	109.90
85	AA	1187	G	C5-C6-O6	-5.71	125.18	128.60
85	AA	1705	G	C5-C6-O6	-5.71	125.18	128.60
85	AA	2151	U	C6-N1-C1'	5.71	129.19	121.20
85	AA	2183	U	N3-C2-O2	-5.71	118.20	122.20
85	AA	2228	G	O4'-C1'-N9	5.71	112.77	108.20
34	BA	1268	C	O4'-C1'-N1	5.71	112.76	108.20
34	BA	1579	G	N1-C2-N2	-5.71	111.06	116.20
85	AA	16	G	C5-C6-O6	-5.71	125.18	128.60
85	AA	156	G	P-O3'-C3'	-5.71	112.85	119.70
85	AA	649	C	C1'-O4'-C4'	-5.71	105.34	109.90
85	AA	2070	C	O4'-C1'-N1	5.71	112.76	108.20
21	AM	1	MET	CG-SD-CE	-5.70	91.08	100.20
34	BA	539	C	C6-N1-C1'	5.70	127.64	120.80
34	BA	733	G	C8-N9-C4	5.70	108.68	106.40
34	BA	1827	C	O4'-C1'-N1	5.70	112.76	108.20
35	BB	757	C	C1'-O4'-C4'	-5.70	105.34	109.90
35	BB	765	G	N1-C6-O6	5.70	123.32	119.90
35	BB	948	G	C5-C6-O6	-5.70	125.18	128.60
35	BB	1342	C	P-O3'-C3'	-5.70	112.86	119.70
56	BW	74	LYS	N-CA-CB	5.70	120.86	110.60
85	AA	80	G	O4'-C1'-N9	5.70	112.76	108.20
85	AA	392	G	N9-C1'-C2'	-5.70	105.73	112.00
85	AA	1116	G	C1'-O4'-C4'	-5.70	105.34	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1465	C	O4'-C1'-N1	5.70	112.76	108.20
85	AA	1652	A	N1-C6-N6	-5.70	115.18	118.60
85	AA	1916	A	N3-C4-N9	-5.70	122.84	127.40
34	BA	1067	G	N9-C1'-C2'	-5.70	105.73	112.00
34	BA	1613	G	N3-C2-N2	5.70	123.89	119.90
34	BA	1617	U	N1-C2-O2	5.70	126.79	122.80
35	BB	574	G	C5'-C4'-O4'	-5.70	102.26	109.10
35	BB	635	A	C8-N9-C4	-5.70	103.52	105.80
38	BE	67	A	C3'-C2'-C1'	-5.70	96.94	101.50
39	BF	38	C	C6-N1-C1'	5.70	127.64	120.80
85	AA	122	A	C5-C6-N1	5.70	120.55	117.70
85	AA	183	C	C1'-O4'-C4'	-5.70	105.34	109.90
85	AA	449	G	P-O3'-C3'	-5.70	112.86	119.70
85	AA	1154	A	C2'-C3'-O3'	5.70	122.82	113.70
85	AA	1346	C	C5'-C4'-C3'	-5.70	106.88	116.00
1	A0	228	GLN	N-CA-CB	-5.70	100.34	110.60
34	BA	512	U	P-O5'-C5'	5.70	130.02	120.90
34	BA	784	C	N3-C2-O2	-5.70	117.91	121.90
34	BA	847	U	C1'-O4'-C4'	-5.70	105.34	109.90
34	BA	1595	G	C4-N9-C1'	-5.70	119.09	126.50
35	BB	614	U	N3-C2-O2	-5.70	118.21	122.20
35	BB	876	G	N1-C6-O6	5.70	123.32	119.90
35	BB	1142	C	N1-C1'-C2'	-5.70	105.73	112.00
36	BC	59	A	C5-C6-N6	5.70	128.26	123.70
41	BH	63	G	OP2-P-O3'	5.70	117.74	105.20
41	BH	125	U	C5'-C4'-C3'	5.70	125.12	116.00
47	BN	96	ARG	NE-CZ-NH2	-5.70	117.45	120.30
52	BS	74	ARG	NE-CZ-NH1	5.70	123.15	120.30
67	Bh	90	ILE	C-N-CA	5.70	135.95	121.70
85	AA	70	U	N3-C2-O2	-5.70	118.21	122.20
85	AA	453	G	N3-C4-C5	-5.70	125.75	128.60
85	AA	715	G	C5'-C4'-C3'	5.70	125.12	116.00
85	AA	1110	A	C5-C6-N6	5.70	128.26	123.70
85	AA	1734	A	C1'-O4'-C4'	-5.70	105.34	109.90
8	A7	243	ILE	N-CA-CB	-5.70	97.69	110.80
23	AP	90	MET	CG-SD-CE	-5.70	91.08	100.20
34	BA	86	A	O4'-C1'-N9	5.70	112.76	108.20
34	BA	557	U	N3-C4-C5	-5.70	111.18	114.60
34	BA	560	U	C5-C4-O4	-5.70	122.48	125.90
34	BA	1070	G	C4-C5-N7	5.70	113.08	110.80
34	BA	1074	C	O4'-C1'-N1	5.70	112.76	108.20
34	BA	1197	U	O5'-C5'-C4'	-5.70	100.87	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1394	U	C6-N1-C2	-5.70	117.58	121.00
35	BB	314	A	N1-C6-N6	5.70	122.02	118.60
35	BB	503	G	C5'-C4'-O4'	5.70	115.94	109.10
35	BB	567	G	C6-N1-C2	-5.70	121.68	125.10
35	BB	1068	G	P-O3'-C3'	-5.70	112.86	119.70
35	BB	1437	U	P-O5'-C5'	-5.70	111.78	120.90
37	BD	54	A	N9-C1'-C2'	-5.70	105.73	112.00
42	BI	108	CYS	N-CA-CB	-5.70	100.34	110.60
44	BK	119	TYR	CB-CG-CD1	-5.70	117.58	121.00
85	AA	105	A	P-O3'-C3'	5.70	126.54	119.70
85	AA	832	U	P-O3'-C3'	5.70	126.54	119.70
85	AA	929	G	C8-N9-C4	-5.70	104.12	106.40
85	AA	1858	G	C5'-C4'-C3'	-5.70	106.88	116.00
85	AA	1908	A	C6-N1-C2	-5.70	115.18	118.60
85	AA	2144	C	O4'-C1'-N1	5.70	112.76	108.20
85	AA	2180	C	C2-N3-C4	-5.70	117.05	119.90
34	BA	627	U	P-O5'-C5'	5.70	130.02	120.90
34	BA	1189	A	O3'-P-O5'	-5.70	93.18	104.00
34	BA	1773	U	O4'-C1'-N1	5.70	112.76	108.20
35	BB	157	G	N1-C6-O6	5.70	123.32	119.90
35	BB	575	C	C2-N3-C4	-5.70	117.05	119.90
40	BG	44	G	P-O3'-C3'	-5.70	112.86	119.70
85	AA	1068	A	N1-C6-N6	-5.70	115.18	118.60
34	BA	1	C	N1-C1'-C2'	-5.70	105.73	112.00
34	BA	167	U	O5'-P-OP2	-5.70	100.57	105.70
34	BA	403	A	C8-N9-C1'	-5.70	117.45	127.70
34	BA	976	C	P-O3'-C3'	5.70	126.53	119.70
34	BA	1093	G	P-O5'-C5'	5.70	130.01	120.90
34	BA	1135	U	C3'-C2'-C1'	-5.70	96.94	101.50
34	BA	1145	U	C6-N1-C1'	5.70	129.18	121.20
34	BA	1282	G	N3-C2-N2	-5.70	115.91	119.90
35	BB	1268	C	P-O3'-C3'	-5.70	112.87	119.70
35	BB	1291	G	N1-C2-N2	-5.70	111.07	116.20
35	BB	1500	U	P-O3'-C3'	-5.70	112.86	119.70
36	BC	155	C	C6-N1-C1'	-5.70	113.97	120.80
38	BE	40	C	C4'-C3'-O3'	-5.70	97.44	109.40
38	BE	178	G	C8-N9-C1'	5.70	134.41	127.00
41	BH	50	A	C5'-C4'-C3'	5.70	125.11	116.00
85	AA	93	G	O4'-C1'-N9	5.70	112.76	108.20
85	AA	504	U	C4'-C3'-C2'	5.70	108.30	102.60
85	AA	507	C	N3-C4-N4	5.70	121.99	118.00
85	AA	791	C	C3'-C2'-C1'	-5.70	96.94	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	902	A	N9-C4-C5	5.70	108.08	105.80
85	AA	1185	G	O5'-C5'-C4'	5.70	122.52	111.70
85	AA	1415	G	C2'-C3'-O3'	5.70	122.81	113.70
85	AA	2033	C	C5'-C4'-O4'	5.70	115.94	109.10
85	AA	2165	C	N3-C4-N4	5.70	121.99	118.00
35	BB	339	C	O4'-C1'-N1	5.69	112.75	108.20
36	BC	137	C	O4'-C4'-C3'	-5.69	98.31	104.00
38	BE	146	U	N1-C1'-C2'	-5.69	105.74	112.00
40	BG	47	G	N1-C6-O6	5.69	123.32	119.90
41	BH	98	U	N3-C2-O2	-5.69	118.21	122.20
85	AA	452	A	C5'-C4'-C3'	-5.69	106.89	116.00
85	AA	1100	U	N3-C2-O2	-5.69	118.21	122.20
34	BA	304	G	O5'-P-OP2	-5.69	100.58	105.70
34	BA	454	G	C5'-C4'-C3'	-5.69	106.89	116.00
34	BA	821	G	C6-N1-C2	-5.69	121.68	125.10
34	BA	841	G	C3'-C2'-C1'	-5.69	96.95	101.50
34	BA	892	C	C4'-C3'-C2'	5.69	108.29	102.60
34	BA	1406	U	C6-N1-C1'	5.69	129.17	121.20
35	BB	25	A	C5'-C4'-O4'	-5.69	102.27	109.10
35	BB	1084	A	N1-C6-N6	5.69	122.02	118.60
37	BD	98	G	C8-N9-C1'	5.69	134.40	127.00
38	BE	113	C	O4'-C1'-N1	5.69	112.75	108.20
38	BE	132	U	N1-C2-N3	5.69	118.32	114.90
67	Bh	86	MET	CG-SD-CE	-5.69	91.09	100.20
85	AA	1137	C	C2-N3-C4	-5.69	117.05	119.90
85	AA	1621	U	O4'-C4'-C3'	-5.69	98.31	104.00
85	AA	1725	G	O4'-C1'-N9	5.69	112.75	108.20
85	AA	1955	U	O4'-C1'-N1	5.69	112.75	108.20
85	AA	2194	U	C6-N1-C1'	5.69	129.17	121.20
34	BA	366	G	N9-C1'-C2'	-5.69	105.74	112.00
34	BA	488	C	N3-C4-N4	5.69	121.98	118.00
34	BA	543	A	P-O5'-C5'	-5.69	111.80	120.90
34	BA	651	U	O3'-P-O5'	-5.69	93.19	104.00
34	BA	741	A	C8-N9-C4	5.69	108.08	105.80
34	BA	802	G	O5'-C5'-C4'	-5.69	100.89	111.70
34	BA	843	G	C5-C6-N1	5.69	114.34	111.50
34	BA	919	A	C5-C6-N6	5.69	128.25	123.70
34	BA	951	C	C2-N3-C4	-5.69	117.06	119.90
34	BA	1025	A	C5'-C4'-C3'	-5.69	106.90	116.00
34	BA	1355	G	P-O3'-C3'	-5.69	112.87	119.70
34	BA	1560	U	C3'-C2'-C1'	5.69	106.05	101.50
35	BB	130	G	C4'-C3'-C2'	5.69	108.29	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1093	C	C1'-O4'-C4'	-5.69	105.35	109.90
35	BB	1306	G	O4'-C1'-N9	5.69	112.75	108.20
35	BB	1307	C	P-O5'-C5'	5.69	130.00	120.90
35	BB	1405	G	C4'-C3'-C2'	5.69	108.29	102.60
37	BD	16	U	N1-C2-O2	5.69	126.78	122.80
37	BD	60	C	O4'-C1'-N1	5.69	112.75	108.20
41	BH	5	G	O4'-C1'-N9	5.69	112.75	108.20
44	BK	142	ASP	N-CA-CB	-5.69	100.36	110.60
54	BU	149	ARG	NE-CZ-NH2	-5.69	117.45	120.30
82	Bw	136	LYS	CA-C-N	5.69	133.03	117.10
85	AA	9	U	C2-N1-C1'	-5.69	110.87	117.70
85	AA	1285	C	O4'-C1'-N1	5.69	112.75	108.20
85	AA	1597	C	C5'-C4'-O4'	-5.69	102.27	109.10
85	AA	1684	U	C1'-O4'-C4'	-5.69	105.35	109.90
34	BA	1283	U	C1'-O4'-C4'	-5.69	105.35	109.90
34	BA	1505	G	C1'-O4'-C4'	-5.69	105.35	109.90
35	BB	1259	A	C3'-C2'-C1'	-5.69	96.95	101.50
38	BE	108	U	N1-C2-N3	5.69	118.31	114.90
85	AA	1891	U	O4'-C1'-N1	5.69	112.75	108.20
3	A2	34	TYR	CB-CG-CD1	-5.69	117.59	121.00
3	A2	38	SER	CB-CA-C	-5.69	99.29	110.10
34	BA	540	G	N1-C6-O6	5.69	123.31	119.90
34	BA	587	U	N3-C4-O4	5.69	123.38	119.40
34	BA	610	A	C5-C6-N1	5.69	120.54	117.70
34	BA	1351	G	C5-C6-O6	-5.69	125.19	128.60
34	BA	1597	G	C5-C6-N1	5.69	114.34	111.50
34	BA	1679	C	O4'-C1'-N1	5.69	112.75	108.20
35	BB	363	A	C8-N9-C4	-5.69	103.53	105.80
35	BB	405	U	C6-N1-C1'	-5.69	113.24	121.20
35	BB	432	C	O3'-P-O5'	5.69	114.81	104.00
35	BB	1221	G	C5-C6-O6	5.69	132.01	128.60
35	BB	1453	G	C5-C6-O6	-5.69	125.19	128.60
36	BC	106	G	N1-C2-N2	-5.69	111.08	116.20
38	BE	112	G	C6-N1-C2	-5.69	121.69	125.10
40	BG	33	G	C5-N7-C8	-5.69	101.46	104.30
40	BG	51	U	O3'-P-O5'	-5.69	93.19	104.00
59	BZ	50	ASP	C-N-CA	5.69	135.92	121.70
65	Bf	62	HIS	CA-CB-CG	-5.69	103.93	113.60
85	AA	144	A	O4'-C1'-N9	5.69	112.75	108.20
85	AA	848	C	P-O5'-C5'	5.69	130.00	120.90
85	AA	895	C	P-O5'-C5'	-5.69	111.80	120.90
85	AA	1645	G	C1'-O4'-C4'	-5.69	105.35	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1757	C	C3'-C2'-C1'	-5.69	96.95	101.50
85	AA	1894	G	C5'-C4'-C3'	5.69	125.10	116.00
85	AA	1969	A	C8-N9-C1'	5.69	137.94	127.70
85	AA	2196	G	C4'-C3'-C2'	-5.69	96.91	102.60
34	BA	97	A	C5'-C4'-O4'	5.69	115.92	109.10
34	BA	1626	U	C3'-C2'-C1'	5.69	106.05	101.50
34	BA	1686	G	P-O3'-C3'	-5.69	112.88	119.70
35	BB	792	G	N1-C6-O6	5.69	123.31	119.90
35	BB	998	G	N1-C6-O6	-5.69	116.49	119.90
35	BB	1185	G	O5'-C5'-C4'	-5.69	100.90	111.70
36	BC	134	G	N9-C1'-C2'	-5.69	105.75	112.00
85	AA	570	U	C5'-C4'-C3'	-5.69	106.90	116.00
85	AA	592	C	C6-N1-C2	-5.69	118.03	120.30
85	AA	665	A	P-O3'-C3'	5.69	126.52	119.70
85	AA	1347	C	C6-N1-C2	-5.69	118.03	120.30
85	AA	1802	U	C6-N1-C2	-5.69	117.59	121.00
85	AA	1850	G	P-O5'-C5'	5.69	130.00	120.90
85	AA	1989	A	C5-C6-N6	-5.69	119.15	123.70
85	AA	2084	U	C2-N3-C4	-5.69	123.59	127.00
85	AA	2148	C	C5'-C4'-C3'	-5.69	106.90	116.00
13	AE	99	SER	N-CA-C	-5.68	95.66	111.00
34	BA	107	C	O4'-C4'-C3'	-5.68	98.32	104.00
34	BA	279	U	C4'-C3'-C2'	-5.68	96.92	102.60
34	BA	608	G	OP1-P-OP2	-5.68	111.07	119.60
34	BA	1190	A	N9-C1'-C2'	-5.68	105.75	112.00
34	BA	1441	C	N3-C2-O2	-5.68	117.92	121.90
34	BA	1475	G	C1'-O4'-C4'	-5.68	105.35	109.90
34	BA	1582	C	O5'-P-OP1	-5.68	100.58	105.70
35	BB	1014	U	C1'-O4'-C4'	-5.68	105.35	109.90
35	BB	1084	A	C5-C6-N6	-5.68	119.15	123.70
35	BB	1128	U	C3'-C2'-C1'	-5.68	96.95	101.50
36	BC	41	A	C5-C6-N6	-5.68	119.15	123.70
37	BD	47	U	C5-C6-N1	-5.68	119.86	122.70
37	BD	104	C	C6-N1-C1'	5.68	127.62	120.80
38	BE	59	U	N3-C2-O2	-5.68	118.22	122.20
40	BG	164	U	N3-C4-O4	5.68	123.38	119.40
85	AA	109	G	C6-N1-C2	-5.68	121.69	125.10
85	AA	183	C	C4'-C3'-C2'	-5.68	96.92	102.60
85	AA	639	C	N1-C1'-C2'	5.68	121.39	114.00
85	AA	674	U	C6-N1-C2	-5.68	117.59	121.00
85	AA	930	G	C4'-C3'-C2'	-5.68	96.92	102.60
85	AA	1040	U	O4'-C1'-N1	5.68	112.75	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1128	G	C2'-C3'-O3'	5.68	122.79	113.70
85	AA	1697	C	O4'-C1'-N1	5.68	112.75	108.20
85	AA	1814	U	C2-N1-C1'	-5.68	110.88	117.70
85	AA	1976	G	O5'-C5'-C4'	-5.68	100.90	111.70
85	AA	2236	U	O4'-C4'-C3'	-5.68	98.31	104.00
34	BA	146	G	C4-N9-C1'	-5.68	119.11	126.50
34	BA	262	A	C6-N1-C2	-5.68	115.19	118.60
34	BA	668	G	C5-C6-N1	5.68	114.34	111.50
34	BA	1012	A	O3'-P-O5'	-5.68	93.20	104.00
35	BB	268	G	O4'-C1'-N9	5.68	112.75	108.20
35	BB	661	G	C4-N9-C1'	-5.68	119.11	126.50
35	BB	966	C	C6-N1-C2	-5.68	118.03	120.30
35	BB	980	G	C5-C6-O6	-5.68	125.19	128.60
35	BB	1008	U	O4'-C1'-N1	5.68	112.75	108.20
35	BB	1064	U	C6-N1-C2	-5.68	117.59	121.00
35	BB	1311	G	O4'-C1'-C2'	5.68	112.71	107.60
36	BC	24	G	C5'-C4'-C3'	-5.68	106.91	116.00
36	BC	88	A	C4-N9-C1'	-5.68	116.07	126.30
37	BD	106	G	C1'-O4'-C4'	-5.68	105.35	109.90
39	BF	59	U	C2-N3-C4	-5.68	123.59	127.00
41	BH	113	G	N1-C2-N3	-5.68	120.49	123.90
56	BW	127	LEU	N-CA-CB	-5.68	99.04	110.40
67	Bh	99	ARG	NE-CZ-NH1	5.68	123.14	120.30
74	Bo	44	LYS	N-CA-C	-5.68	95.66	111.00
81	Bv	27	ARG	NE-CZ-NH1	5.68	123.14	120.30
85	AA	107	A	N1-C6-N6	5.68	122.01	118.60
85	AA	310	U	N1-C2-N3	5.68	118.31	114.90
85	AA	414	C	O4'-C1'-N1	5.68	112.75	108.20
85	AA	680	U	C5-C4-O4	5.68	129.31	125.90
85	AA	763	U	C3'-C2'-C1'	-5.68	96.95	101.50
86	AB	43	C	P-O5'-C5'	5.68	129.99	120.90
34	BA	193	C	P-O3'-C3'	5.68	126.52	119.70
34	BA	1079	C	N1-C1'-C2'	-5.68	105.75	112.00
34	BA	1645	C	O4'-C1'-N1	5.68	112.75	108.20
35	BB	630	A	C1'-O4'-C4'	-5.68	105.36	109.90
35	BB	704	G	N1-C2-N2	-5.68	111.09	116.20
36	BC	128	U	C4'-C3'-C2'	-5.68	96.92	102.60
49	BP	102	PHE	CB-CG-CD1	5.68	124.78	120.80
85	AA	307	G	C8-N9-C1'	5.68	134.38	127.00
85	AA	790	A	C5'-C4'-C3'	5.68	125.09	116.00
85	AA	970	U	C6-N1-C1'	-5.68	113.25	121.20
85	AA	2248	A	P-O5'-C5'	5.68	129.99	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A0	114	TYR	CB-CG-CD1	5.68	124.41	121.00
34	BA	362	G	C4-N9-C1'	-5.68	119.12	126.50
34	BA	543	A	C1'-O4'-C4'	-5.68	105.36	109.90
34	BA	958	G	C8-N9-C4	-5.68	104.13	106.40
34	BA	1208	U	C6-N1-C2	-5.68	117.59	121.00
34	BA	1258	G	C6-C5-N7	-5.68	126.99	130.40
35	BB	66	G	N3-C2-N2	5.68	123.88	119.90
35	BB	96	A	C4-N9-C1'	5.68	136.52	126.30
35	BB	1368	A	N7-C8-N9	-5.68	110.96	113.80
35	BB	1378	U	P-O5'-C5'	-5.68	111.81	120.90
36	BC	138	C	C6-N1-C1'	5.68	127.62	120.80
38	BE	30	C	N3-C2-O2	-5.68	117.92	121.90
38	BE	129	G	C5-C6-N1	5.68	114.34	111.50
39	BF	47	C	C1'-O4'-C4'	-5.68	105.36	109.90
39	BF	64	U	C2-N1-C1'	5.68	124.52	117.70
41	BH	64	U	C4'-C3'-C2'	-5.68	96.92	102.60
85	AA	683	U	O4'-C1'-N1	5.68	112.74	108.20
85	AA	1235	G	P-O5'-C5'	5.68	129.99	120.90
7	A6	25	ARG	NE-CZ-NH1	5.68	123.14	120.30
34	BA	582	U	C5-C4-O4	5.68	129.31	125.90
34	BA	1435	A	N9-C4-C5	-5.68	103.53	105.80
34	BA	1618	A	O3'-P-O5'	-5.68	93.21	104.00
35	BB	127	U	O5'-P-OP2	-5.68	100.59	105.70
40	BG	73	U	O4'-C1'-C2'	5.68	112.71	107.60
40	BG	171	A	C4'-C3'-C2'	-5.68	96.92	102.60
48	BO	216	LEU	CB-CG-CD1	5.68	120.65	111.00
54	BU	83	ARG	NE-CZ-NH1	5.68	123.14	120.30
85	AA	132	G	C8-N9-C1'	5.68	134.38	127.00
85	AA	838	G	N1-C6-O6	5.68	123.31	119.90
85	AA	1093	C	P-O5'-C5'	5.68	129.99	120.90
26	AS	97	ASN	CA-CB-CG	-5.68	100.91	113.40
34	BA	115	U	O4'-C1'-N1	5.68	112.74	108.20
34	BA	530	A	N3-C4-N9	-5.68	122.86	127.40
34	BA	1208	U	N3-C2-O2	-5.68	118.23	122.20
35	BB	127	U	C2-N1-C1'	-5.68	110.89	117.70
35	BB	354	C	O4'-C1'-N1	5.68	112.74	108.20
35	BB	509	A	P-O3'-C3'	-5.68	112.89	119.70
35	BB	1191	G	C8-N9-C4	5.68	108.67	106.40
40	BG	82	U	C2-N1-C1'	-5.68	110.89	117.70
41	BH	48	G	N1-C6-O6	-5.68	116.49	119.90
41	BH	135	U	N3-C2-O2	-5.68	118.23	122.20
85	AA	264	A	C5'-C4'-C3'	5.68	125.08	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	455	G	C1'-O4'-C4'	-5.68	105.36	109.90
85	AA	1413	G	N1-C6-O6	5.68	123.31	119.90
85	AA	2047	U	P-O5'-C5'	-5.68	111.82	120.90
34	BA	140	C	O5'-C5'-C4'	5.67	122.48	111.70
34	BA	213	A	C4-C5-C6	-5.67	114.16	117.00
34	BA	494	A	C4'-C3'-C2'	5.67	108.28	102.60
34	BA	660	C	O4'-C1'-N1	5.67	112.74	108.20
34	BA	1261	G	C3'-C2'-C1'	-5.67	96.96	101.50
34	BA	1758	C	P-O3'-C3'	5.67	126.51	119.70
35	BB	369	A	N1-C6-N6	-5.67	115.19	118.60
35	BB	1128	U	P-O5'-C5'	-5.67	111.82	120.90
35	BB	1157	G	C4-N9-C1'	-5.67	119.12	126.50
35	BB	1218	G	C3'-C2'-C1'	-5.67	96.96	101.50
35	BB	1444	U	N3-C2-O2	-5.67	118.23	122.20
35	BB	1546	C	N3-C2-O2	-5.67	117.93	121.90
36	BC	70	C	C3'-C2'-C1'	-5.67	96.96	101.50
37	BD	109	U	C2-N3-C4	-5.67	123.59	127.00
38	BE	75	C	C3'-C2'-C1'	-5.67	96.96	101.50
38	BE	201	A	C5'-C4'-C3'	-5.67	106.92	116.00
59	BZ	24	ARG	CG-CD-NE	-5.67	99.89	111.80
85	AA	7	G	O3'-P-O5'	5.67	114.78	104.00
85	AA	542	G	C6-N1-C2	-5.67	121.69	125.10
85	AA	926	C	C2-N1-C1'	-5.67	112.56	118.80
85	AA	1104	G	O5'-C5'-C4'	-5.67	100.92	111.70
85	AA	2100	A	O4'-C1'-N9	5.67	112.74	108.20
34	BA	508	C	P-O5'-C5'	5.67	129.98	120.90
34	BA	580	U	P-O3'-C3'	5.67	126.51	119.70
35	BB	522	A	C6-N1-C2	-5.67	115.20	118.60
35	BB	1050	A	N9-C1'-C2'	-5.67	105.76	112.00
41	BH	16	A	N7-C8-N9	5.67	116.64	113.80
41	BH	123	G	C5'-C4'-C3'	5.67	125.08	116.00
85	AA	547	A	P-O3'-C3'	5.67	126.51	119.70
85	AA	1527	G	N1-C6-O6	5.67	123.30	119.90
34	BA	13	U	C5-C6-N1	-5.67	119.86	122.70
34	BA	168	U	C6-N1-C2	-5.67	117.60	121.00
34	BA	354	G	O4'-C1'-N9	5.67	112.74	108.20
34	BA	430	A	O5'-P-OP2	-5.67	100.60	105.70
34	BA	1074	C	N3-C2-O2	-5.67	117.93	121.90
34	BA	1444	G	O5'-P-OP1	-5.67	100.60	105.70
34	BA	1515	U	C1'-O4'-C4'	-5.67	105.36	109.90
34	BA	1844	U	C6-N1-C1'	5.67	129.14	121.20
35	BB	886	G	N1-C6-O6	5.67	123.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1214	U	C6-N1-C1'	5.67	129.14	121.20
35	BB	1254	G	C5-C6-O6	5.67	132.00	128.60
37	BD	73	U	C6-N1-C2	-5.67	117.60	121.00
38	BE	23	G	N3-C4-C5	-5.67	125.76	128.60
38	BE	163	A	C5-N7-C8	-5.67	101.06	103.90
39	BF	65	U	C4-C5-C6	-5.67	116.30	119.70
49	BP	82	LYS	CA-CB-CG	-5.67	100.92	113.40
50	BQ	127	TYR	CB-CG-CD2	-5.67	117.60	121.00
60	Ba	113	ARG	NE-CZ-NH1	5.67	123.14	120.30
62	Bc	13	ARG	CD-NE-CZ	5.67	131.54	123.60
72	Bm	46	ARG	NE-CZ-NH2	5.67	123.14	120.30
84	By	56	VAL	C-N-CA	5.67	135.88	121.70
85	AA	169	G	C5'-C4'-C3'	-5.67	106.93	116.00
85	AA	251	A	C1'-O4'-C4'	-5.67	105.36	109.90
34	BA	490	A	O4'-C1'-N9	5.67	112.74	108.20
34	BA	675	C	C6-N1-C2	-5.67	118.03	120.30
34	BA	1147	C	P-O5'-C5'	-5.67	111.83	120.90
34	BA	1735	G	C5'-C4'-O4'	-5.67	102.30	109.10
35	BB	688	U	N3-C2-O2	-5.67	118.23	122.20
35	BB	696	G	C5-C6-O6	-5.67	125.20	128.60
35	BB	868	C	N1-C2-N3	5.67	123.17	119.20
35	BB	1465	U	O4'-C1'-N1	5.67	112.74	108.20
38	BE	124	G	C8-N9-C4	5.67	108.67	106.40
85	AA	843	U	C5-C4-O4	-5.67	122.50	125.90
85	AA	887	A	C5-C6-N6	-5.67	119.16	123.70
85	AA	1011	G	C5-C6-O6	-5.67	125.20	128.60
85	AA	1180	C	C2'-C3'-O3'	5.67	122.77	113.70
85	AA	1469	G	N3-C4-C5	-5.67	125.77	128.60
6	A5	77	ARG	NE-CZ-NH2	-5.67	117.47	120.30
11	AC	160	VAL	CA-CB-CG1	5.67	119.40	110.90
34	BA	239	C	C5-C4-N4	-5.67	116.23	120.20
34	BA	481	A	C4'-C3'-C2'	-5.67	96.93	102.60
34	BA	1563	G	O5'-C5'-C4'	-5.67	100.93	111.70
35	BB	826	G	N3-C2-N2	5.67	123.87	119.90
35	BB	1134	G	C5'-C4'-C3'	-5.67	106.93	116.00
35	BB	1325	C	P-O5'-C5'	5.67	129.97	120.90
35	BB	1521	G	C8-N9-C1'	5.67	134.37	127.00
44	BK	170	TYR	CB-CG-CD2	-5.67	117.60	121.00
45	BL	170	PHE	CB-CG-CD1	5.67	124.77	120.80
47	BN	40	ARG	NE-CZ-NH2	-5.67	117.47	120.30
57	BX	60	TYR	CA-CB-CG	-5.67	102.63	113.40
71	Bl	47	TYR	CA-CB-CG	-5.67	102.63	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
72	Bm	90	ALA	CB-CA-C	-5.67	101.60	110.10
85	AA	178	U	C4'-C3'-C2'	-5.67	96.93	102.60
85	AA	188	G	O5'-P-OP1	-5.67	100.60	105.70
85	AA	663	C	O4'-C1'-N1	5.67	112.73	108.20
85	AA	936	C	C2-N1-C1'	-5.67	112.56	118.80
85	AA	1552	U	O4'-C1'-N1	5.67	112.73	108.20
85	AA	1921	G	C6-C5-N7	5.67	133.80	130.40
34	BA	431	A	P-O3'-C3'	-5.67	112.90	119.70
34	BA	585	G	O4'-C1'-N9	5.67	112.73	108.20
34	BA	745	A	C8-N9-C4	-5.67	103.53	105.80
34	BA	1293	A	C2'-C3'-O3'	5.67	122.77	113.70
35	BB	457	U	C4'-C3'-C2'	-5.67	96.93	102.60
35	BB	677	U	C2'-C3'-O3'	5.67	122.77	113.70
35	BB	814	A	C5'-C4'-C3'	-5.67	106.93	116.00
35	BB	1170	U	C5-C6-N1	-5.67	119.87	122.70
36	BC	108	A	P-O3'-C3'	-5.67	112.90	119.70
41	BH	118	U	C1'-O4'-C4'	-5.67	105.37	109.90
44	BK	144	TYR	CA-CB-CG	-5.67	102.63	113.40
65	Bf	217	THR	CA-CB-CG2	-5.67	104.47	112.40
80	Bu	179	VAL	CB-CA-C	-5.67	100.63	111.40
85	AA	889	G	C4'-C3'-C2'	-5.67	96.93	102.60
85	AA	943	U	P-O3'-C3'	-5.67	112.90	119.70
85	AA	1263	G	N3-C2-N2	5.67	123.87	119.90
85	AA	1312	G	O4'-C1'-N9	5.67	112.73	108.20
85	AA	1863	A	C5-C6-N6	5.67	128.23	123.70
85	AA	2070	C	N3-C2-O2	-5.67	117.93	121.90
34	BA	88	C	N3-C2-O2	-5.67	117.93	121.90
34	BA	353	U	N1-C1'-C2'	-5.67	105.77	112.00
34	BA	586	G	C3'-C2'-C1'	-5.67	96.97	101.50
34	BA	755	G	C4-N9-C1'	-5.67	119.14	126.50
34	BA	1692	U	N1-C2-N3	5.67	118.30	114.90
34	BA	1700	C	C2-N3-C4	-5.67	117.07	119.90
34	BA	1808	A	C3'-C2'-C1'	-5.67	96.97	101.50
35	BB	63	A	N1-C6-N6	5.67	122.00	118.60
35	BB	717	A	C5'-C4'-O4'	5.67	115.90	109.10
35	BB	1313	C	O5'-C5'-C4'	5.67	122.46	111.70
40	BG	1	G	C6-N1-C2	-5.67	121.70	125.10
41	BH	89	C	O5'-P-OP1	5.67	117.50	110.70
47	BN	42	ARG	NE-CZ-NH1	5.67	123.13	120.30
85	AA	835	C	C1'-O4'-C4'	-5.67	105.37	109.90
85	AA	919	U	O4'-C1'-N1	5.67	112.73	108.20
85	AA	945	A	C4'-C3'-C2'	5.67	108.27	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	963	U	C5-C6-N1	-5.67	119.87	122.70
85	AA	1937	G	C4-N9-C1'	-5.67	119.14	126.50
34	BA	470	C	P-O5'-C5'	-5.66	111.84	120.90
34	BA	555	C	O5'-P-OP1	-5.66	100.60	105.70
34	BA	557	U	C1'-C2'-O2'	-5.66	93.61	110.60
34	BA	613	A	P-O3'-C3'	-5.66	112.90	119.70
34	BA	1213	A	O5'-C5'-C4'	-5.66	100.94	111.70
35	BB	814	A	C2-N3-C4	5.66	113.43	110.60
37	BD	27	A	O5'-P-OP2	-5.66	100.60	105.70
38	BE	128	G	OP1-P-O3'	5.66	117.66	105.20
40	BG	167	C	C5'-C4'-C3'	-5.66	106.94	116.00
85	AA	332	A	C4'-C3'-C2'	-5.66	96.94	102.60
85	AA	1093	C	C6-N1-C1'	5.66	127.60	120.80
85	AA	1753	A	N1-C6-N6	-5.66	115.20	118.60
85	AA	1870	C	C6-N1-C2	-5.66	118.03	120.30
85	AA	2081	A	C4'-C3'-C2'	-5.66	96.94	102.60
85	AA	2105	G	C5-C6-N1	5.66	114.33	111.50
34	BA	244	A	N9-C1'-C2'	-5.66	105.77	112.00
34	BA	433	G	C1'-O4'-C4'	5.66	114.43	109.90
34	BA	1406	U	C2-N1-C1'	-5.66	110.91	117.70
34	BA	1475	G	N7-C8-N9	-5.66	110.27	113.10
38	BE	2	G	C6-N1-C2	-5.66	121.70	125.10
41	BH	83	U	O4'-C1'-N1	5.66	112.73	108.20
85	AA	121	C	P-O5'-C5'	-5.66	111.84	120.90
85	AA	472	A	N9-C4-C5	5.66	108.06	105.80
34	BA	98	A	C6-N1-C2	-5.66	115.20	118.60
34	BA	340	U	C5-C6-N1	-5.66	119.87	122.70
34	BA	619	U	C6-N1-C2	-5.66	117.60	121.00
34	BA	912	G	C6-N1-C2	-5.66	121.70	125.10
34	BA	1486	U	N1-C1'-C2'	-5.66	105.77	112.00
35	BB	477	U	P-O3'-C3'	5.66	126.49	119.70
35	BB	1303	A	O3'-P-O5'	-5.66	93.24	104.00
35	BB	1449	G	N1-C6-O6	5.66	123.30	119.90
36	BC	117	A	C5'-C4'-O4'	5.66	115.89	109.10
38	BE	74	U	N1-C1'-C2'	-5.66	105.77	112.00
38	BE	95	G	C2-N3-C4	5.66	114.73	111.90
38	BE	126	G	C5-C6-N1	5.66	114.33	111.50
40	BG	23	C	O3'-P-O5'	-5.66	93.25	104.00
40	BG	38	A	C5-C6-N6	-5.66	119.17	123.70
40	BG	129	G	C1'-O4'-C4'	-5.66	105.37	109.90
41	BH	100	A	N3-C4-C5	-5.66	122.84	126.80
47	BN	101	ARG	NE-CZ-NH1	5.66	123.13	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	187	C	C5-C4-N4	-5.66	116.24	120.20
85	AA	604	C	C6-N1-C2	-5.66	118.04	120.30
85	AA	1122	U	C2'-C3'-O3'	5.66	122.76	113.70
85	AA	1383	C	C2-N1-C1'	5.66	125.03	118.80
85	AA	1644	G	N3-C2-N2	5.66	123.86	119.90
85	AA	1883	C	C2-N1-C1'	5.66	125.03	118.80
85	AA	2172	A	P-O5'-C5'	5.66	129.96	120.90
5	A4	107	ARG	NE-CZ-NH1	5.66	123.13	120.30
34	BA	86	A	C4-C5-C6	-5.66	114.17	117.00
34	BA	174	A	C5'-C4'-O4'	5.66	115.89	109.10
34	BA	318	U	O3'-P-O5'	-5.66	93.25	104.00
34	BA	518	C	C2'-C3'-O3'	5.66	122.75	113.70
34	BA	687	G	C5'-C4'-O4'	-5.66	102.31	109.10
34	BA	936	A	C3'-C2'-C1'	-5.66	96.97	101.50
34	BA	1222	C	C2-N1-C1'	5.66	125.03	118.80
34	BA	1685	C	O5'-C5'-C4'	-5.66	100.95	111.70
35	BB	648	G	C5'-C4'-C3'	-5.66	106.94	116.00
35	BB	1337	C	C5'-C4'-C3'	-5.66	106.95	116.00
35	BB	1405	G	N9-C1'-C2'	-5.66	105.78	112.00
35	BB	1487	G	N1-C2-N2	-5.66	111.11	116.20
35	BB	1520	C	N3-C4-N4	-5.66	114.04	118.00
36	BC	26	U	P-O3'-C3'	5.66	126.49	119.70
40	BG	23	C	OP2-P-O3'	5.66	117.65	105.20
40	BG	102	G	C1'-O4'-C4'	-5.66	105.37	109.90
41	BH	23	G	C6-N1-C2	-5.66	121.70	125.10
41	BH	47	G	C3'-C2'-C1'	-5.66	96.97	101.50
59	BZ	9	ARG	NE-CZ-NH1	5.66	123.13	120.30
85	AA	660	G	O4'-C1'-N9	5.66	112.73	108.20
85	AA	1057	G	C4'-C3'-C2'	-5.66	96.94	102.60
85	AA	1120	G	C5-C6-N1	5.66	114.33	111.50
85	AA	1674	G	C5-N7-C8	-5.66	101.47	104.30
34	BA	228	A	N3-C4-C5	-5.66	122.84	126.80
34	BA	1043	C	C4'-C3'-C2'	5.66	108.26	102.60
35	BB	1230	A	C4'-C3'-C2'	-5.66	96.94	102.60
36	BC	155	C	O3'-P-O5'	-5.66	93.25	104.00
37	BD	9	C	C5-C6-N1	-5.66	118.17	121.00
38	BE	206	G	C8-N9-C1'	5.66	134.35	127.00
57	BX	62	ARG	N-CA-C	-5.66	95.73	111.00
71	Bl	126	PHE	CA-CB-CG	-5.66	100.32	113.90
83	Bx	244	ARG	NE-CZ-NH1	5.66	123.13	120.30
85	AA	22	A	N1-C6-N6	-5.66	115.21	118.60
85	AA	290	G	N9-C1'-C2'	-5.66	105.78	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	999	A	P-O3'-C3'	5.66	126.49	119.70
34	BA	4	A	O4'-C1'-N9	-5.66	103.67	108.20
34	BA	1413	G	C1'-O4'-C4'	-5.66	105.38	109.90
34	BA	1414	C	C2-N3-C4	-5.66	117.07	119.90
34	BA	1415	C	P-O3'-C3'	-5.66	112.91	119.70
34	BA	1500	G	C8-N9-C1'	5.66	134.35	127.00
34	BA	1651	C	O3'-P-O5'	-5.66	93.25	104.00
35	BB	50	A	N9-C4-C5	-5.66	103.54	105.80
53	BT	81	ARG	NE-CZ-NH1	-5.66	117.47	120.30
56	BW	120	VAL	O-C-N	-5.66	113.65	122.70
77	Br	215	GLY	C-N-CA	5.66	135.84	121.70
80	Bu	121	GLY	N-CA-C	5.66	127.24	113.10
85	AA	146	U	C2-N3-C4	5.66	130.39	127.00
85	AA	260	A	C5'-C4'-C3'	5.66	125.05	116.00
85	AA	544	A	N7-C8-N9	-5.66	110.97	113.80
85	AA	861	G	C5-C6-O6	-5.66	125.21	128.60
85	AA	995	G	N7-C8-N9	-5.66	110.27	113.10
85	AA	1128	G	C6-N1-C2	-5.66	121.71	125.10
85	AA	1571	A	O4'-C1'-N9	5.66	112.72	108.20
34	BA	91	C	C5-C4-N4	5.65	124.16	120.20
34	BA	744	G	C6-C5-N7	-5.65	127.01	130.40
34	BA	821	G	C4'-C3'-C2'	-5.65	96.95	102.60
34	BA	1037	C	O4'-C1'-N1	5.65	112.72	108.20
34	BA	1613	G	N9-C4-C5	-5.65	103.14	105.40
35	BB	4	C	OP2-P-O3'	5.65	117.64	105.20
35	BB	49	A	N1-C6-N6	5.65	121.99	118.60
35	BB	431	U	C5'-C4'-C3'	-5.65	106.95	116.00
35	BB	1513	U	N3-C2-O2	-5.65	118.24	122.20
44	BK	69	ARG	NE-CZ-NH2	5.65	123.13	120.30
85	AA	1799	C	C6-N1-C2	-5.65	118.04	120.30
85	AA	1921	G	C2-N3-C4	5.65	114.73	111.90
2	A1	70	ASP	CB-CG-OD1	5.65	123.39	118.30
3	A2	122	ARG	NE-CZ-NH1	5.65	123.13	120.30
34	BA	21	C	N1-C1'-C2'	-5.65	105.78	112.00
34	BA	165	C	O3'-P-O5'	-5.65	93.26	104.00
34	BA	230	A	C3'-C2'-C1'	5.65	106.02	101.50
34	BA	517	A	C5-C6-N1	5.65	120.53	117.70
34	BA	726	G	N3-C2-N2	5.65	123.86	119.90
34	BA	745	A	C5-C6-N1	5.65	120.53	117.70
34	BA	897	U	C2-N3-C4	-5.65	123.61	127.00
34	BA	1110	A	C8-N9-C4	5.65	108.06	105.80
34	BA	1613	G	C8-N9-C1'	5.65	134.35	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	491	A	C3'-C2'-C1'	-5.65	96.98	101.50
35	BB	596	C	N3-C2-O2	-5.65	117.94	121.90
35	BB	1024	G	C2'-C3'-O3'	5.65	122.75	113.70
36	BC	156	A	C8-N9-C4	5.65	108.06	105.80
70	Bk	123	TYR	CB-CG-CD1	-5.65	117.61	121.00
85	AA	354	C	C4'-C3'-C2'	-5.65	96.95	102.60
85	AA	404	A	C4'-C3'-C2'	5.65	108.25	102.60
85	AA	525	C	O4'-C1'-N1	5.65	112.72	108.20
85	AA	1221	G	C4-N9-C1'	-5.65	119.15	126.50
85	AA	1756	C	C5-C6-N1	5.65	123.83	121.00
85	AA	1812	C	N3-C2-O2	-5.65	117.94	121.90
85	AA	1825	A	C4-N9-C1'	5.65	136.47	126.30
85	AA	2151	U	O3'-P-O5'	-5.65	93.26	104.00
1	A0	114	TYR	CB-CG-CD2	-5.65	117.61	121.00
2	A1	71	GLY	N-CA-C	-5.65	98.97	113.10
34	BA	825	G	C5-C6-O6	-5.65	125.21	128.60
34	BA	831	U	C5-C6-N1	5.65	125.53	122.70
34	BA	1359	U	C1'-O4'-C4'	-5.65	105.38	109.90
35	BB	75	A	C1'-O4'-C4'	-5.65	105.38	109.90
35	BB	418	G	O4'-C1'-C2'	5.65	112.69	107.60
35	BB	1107	C	N3-C2-O2	-5.65	117.94	121.90
35	BB	1250	A	C4'-C3'-C2'	5.65	108.25	102.60
35	BB	1351	G	C4'-C3'-C2'	5.65	108.25	102.60
35	BB	1361	A	C5'-C4'-O4'	5.65	115.88	109.10
39	BF	62	U	C5'-C4'-C3'	-5.65	106.96	116.00
41	BH	67	G	C1'-O4'-C4'	-5.65	105.38	109.90
45	BL	67	ARG	NE-CZ-NH1	5.65	123.12	120.30
85	AA	1096	G	C3'-C2'-C1'	-5.65	96.98	101.50
85	AA	1253	G	C1'-O4'-C4'	-5.65	105.38	109.90
85	AA	1662	U	O4'-C1'-N1	5.65	112.72	108.20
85	AA	2063	C	C2'-C3'-O3'	5.65	122.74	113.70
86	AB	15	G	P-O5'-C5'	5.65	129.94	120.90
18	AJ	20	ARG	NE-CZ-NH1	5.65	123.12	120.30
34	BA	183	G	C8-N9-C1'	5.65	134.34	127.00
34	BA	489	A	C5'-C4'-O4'	5.65	115.88	109.10
35	BB	763	U	C6-N1-C1'	5.65	129.11	121.20
35	BB	1195	A	C8-N9-C1'	5.65	137.87	127.70
36	BC	42	G	O5'-C5'-C4'	-5.65	100.97	111.70
37	BD	119	U	C6-N1-C1'	-5.65	113.29	121.20
70	Bk	88	ARG	N-CA-CB	-5.65	100.43	110.60
81	Bv	174	TYR	CB-CG-CD2	-5.65	117.61	121.00
85	AA	495	G	C5'-C4'-C3'	-5.65	106.96	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1228	A	C3'-C2'-C1'	-5.65	96.98	101.50
85	AA	1371	C	O4'-C1'-N1	5.65	112.72	108.20
85	AA	1833	C	C3'-C2'-C1'	-5.65	96.98	101.50
23	AP	55	ASP	CB-CG-OD2	-5.65	113.22	118.30
34	BA	932	G	P-O3'-C3'	-5.65	112.92	119.70
34	BA	1505	G	N3-C4-N9	-5.65	122.61	126.00
35	BB	790	A	P-O3'-C3'	5.65	126.48	119.70
35	BB	1162	A	C5'-C4'-C3'	-5.65	106.97	116.00
35	BB	1274	G	C6-N1-C2	-5.65	121.71	125.10
38	BE	124	G	C5'-C4'-O4'	5.65	115.88	109.10
38	BE	141	A	C5'-C4'-C3'	-5.65	106.96	116.00
40	BG	31	G	N9-C4-C5	-5.65	103.14	105.40
41	BH	5	G	C8-N9-C1'	5.65	134.34	127.00
85	AA	628	C	OP1-P-O3'	5.65	117.63	105.20
34	BA	331	G	P-O3'-C3'	-5.65	112.92	119.70
34	BA	516	U	N3-C2-O2	-5.65	118.25	122.20
34	BA	1653	G	N7-C8-N9	-5.65	110.28	113.10
38	BE	104	G	OP1-P-OP2	-5.65	111.13	119.60
85	AA	194	U	C5'-C4'-C3'	-5.65	106.97	116.00
85	AA	1117	G	O3'-P-O5'	-5.65	93.27	104.00
85	AA	1959	G	O4'-C1'-N9	5.65	112.72	108.20
86	AB	5	G	P-O3'-C3'	-5.65	112.92	119.70
34	BA	495	A	C8-N9-C1'	5.64	137.86	127.70
34	BA	931	G	C4-N9-C1'	-5.64	119.16	126.50
34	BA	1374	G	O4'-C1'-N9	5.64	112.72	108.20
34	BA	1684	A	N1-C6-N6	-5.64	115.21	118.60
35	BB	487	A	O4'-C1'-C2'	5.64	112.68	107.60
35	BB	534	C	C5'-C4'-O4'	5.64	115.87	109.10
35	BB	751	A	N1-C2-N3	-5.64	126.48	129.30
35	BB	1470	G	N9-C1'-C2'	-5.64	105.79	112.00
38	BE	31	A	P-O3'-C3'	-5.64	112.93	119.70
38	BE	34	C	C2-N3-C4	-5.64	117.08	119.90
53	BT	5	LYS	CA-C-N	5.64	129.62	117.20
66	Bg	97	ARG	NE-CZ-NH1	5.64	123.12	120.30
75	Bp	48	ALA	C-N-CA	5.64	135.81	121.70
84	By	87	ARG	NE-CZ-NH1	5.64	123.12	120.30
85	AA	49	C	O5'-P-OP2	-5.64	100.62	105.70
85	AA	301	U	C6-N1-C1'	-5.64	113.30	121.20
85	AA	489	C	O4'-C4'-C3'	-5.64	98.36	104.00
85	AA	615	A	O4'-C1'-N9	5.64	112.72	108.20
85	AA	1142	G	C5-C6-O6	-5.64	125.21	128.60
85	AA	1283	C	C2-N1-C1'	-5.64	112.59	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1538	C	N3-C2-O2	-5.64	117.95	121.90
85	AA	2007	G	C4'-C3'-C2'	5.64	108.25	102.60
15	AG	18	TYR	CB-CG-CD1	-5.64	117.61	121.00
23	AP	101	SER	N-CA-CB	-5.64	102.03	110.50
23	AP	113	VAL	CA-CB-CG2	-5.64	102.44	110.90
34	BA	175	G	C3'-C2'-C1'	-5.64	96.99	101.50
34	BA	826	C	C3'-C2'-C1'	-5.64	96.98	101.50
35	BB	366	G	C5-C6-O6	-5.64	125.21	128.60
35	BB	824	C	C2-N3-C4	-5.64	117.08	119.90
35	BB	1001	G	O4'-C1'-N9	5.64	112.71	108.20
35	BB	1163	U	O4'-C1'-N1	5.64	112.71	108.20
35	BB	1234	G	C5-C6-O6	-5.64	125.22	128.60
38	BE	5	A	C6-N1-C2	-5.64	115.22	118.60
40	BG	54	G	P-O5'-C5'	-5.64	111.87	120.90
40	BG	76	C	P-O5'-C5'	-5.64	111.87	120.90
40	BG	79	U	C5-C6-N1	-5.64	119.88	122.70
41	BH	129	G	C8-N9-C4	5.64	108.66	106.40
85	AA	261	U	N1-C1'-C2'	-5.64	105.79	112.00
85	AA	484	G	C4-N9-C1'	-5.64	119.17	126.50
85	AA	611	G	N3-C4-N9	5.64	129.38	126.00
85	AA	648	G	C3'-C2'-C1'	-5.64	96.99	101.50
85	AA	726	U	C6-N1-C1'	-5.64	113.30	121.20
85	AA	1570	A	C8-N9-C1'	-5.64	117.54	127.70
30	AW	10	TYR	CA-C-N	-5.64	101.31	117.10
34	BA	86	A	C5-N7-C8	-5.64	101.08	103.90
34	BA	504	A	O3'-P-O5'	5.64	114.72	104.00
34	BA	719	G	N1-C6-O6	-5.64	116.52	119.90
34	BA	1054	U	O3'-P-O5'	5.64	114.72	104.00
35	BB	828	G	C1'-O4'-C4'	-5.64	105.39	109.90
36	BC	159	U	P-O3'-C3'	5.64	126.47	119.70
37	BD	14	C	O4'-C1'-C2'	5.64	112.68	107.60
37	BD	73	U	O5'-C5'-C4'	-5.64	100.98	111.70
85	AA	387	U	P-O5'-C5'	5.64	129.93	120.90
85	AA	438	G	C5-C6-N1	5.64	114.32	111.50
85	AA	536	C	O4'-C1'-N1	5.64	112.71	108.20
85	AA	2106	C	P-O5'-C5'	5.64	129.93	120.90
85	AA	2153	G	N1-C2-N3	-5.64	120.52	123.90
4	A3	118	LYS	N-CA-CB	5.64	120.75	110.60
34	BA	494	A	C4-N9-C1'	-5.64	116.15	126.30
34	BA	828	A	C8-N9-C1'	5.64	137.85	127.70
35	BB	3	C	O4'-C4'-C3'	5.64	110.61	106.10
35	BB	565	U	P-O5'-C5'	-5.64	111.88	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	632	U	O4'-C4'-C3'	-5.64	98.36	104.00
35	BB	688	U	C2-N1-C1'	-5.64	110.93	117.70
35	BB	1042	U	C4'-C3'-C2'	5.64	108.24	102.60
35	BB	1242	C	N1-C2-O2	5.64	122.28	118.90
35	BB	1322	A	C1'-O4'-C4'	-5.64	105.39	109.90
35	BB	1522	G	C5'-C4'-C3'	5.64	125.02	116.00
38	BE	73	A	C8-N9-C4	-5.64	103.54	105.80
41	BH	27	A	C5-C6-N6	5.64	128.21	123.70
41	BH	28	U	O5'-P-OP2	-5.64	100.62	105.70
44	BK	136	LEU	N-CA-C	-5.64	95.77	111.00
53	BT	88	ARG	NE-CZ-NH1	5.64	123.12	120.30
85	AA	424	A	C5'-C4'-O4'	-5.64	102.33	109.10
85	AA	537	G	C5'-C4'-C3'	-5.64	106.98	116.00
85	AA	703	U	N1-C2-N3	5.64	118.28	114.90
85	AA	1229	G	O4'-C1'-N9	5.64	112.71	108.20
85	AA	1281	G	N1-C2-N3	-5.64	120.52	123.90
85	AA	1537	A	O4'-C1'-N9	5.64	112.71	108.20
86	AB	11	C	C5'-C4'-C3'	-5.64	106.98	116.00
34	BA	46	C	P-O5'-C5'	-5.64	111.88	120.90
34	BA	181	G	P-O3'-C3'	-5.64	112.93	119.70
34	BA	921	G	P-O5'-C5'	-5.64	111.88	120.90
44	BK	99	ILE	CB-CA-C	-5.64	100.32	111.60
85	AA	34	G	O3'-P-O5'	-5.64	93.29	104.00
85	AA	982	G	N1-C2-N2	5.64	121.27	116.20
85	AA	1538	C	C6-N1-C2	-5.64	118.05	120.30
21	AM	89	ARG	NE-CZ-NH2	-5.64	117.48	120.30
34	BA	174	A	C4'-C3'-C2'	-5.64	96.96	102.60
34	BA	231	U	N1-C2-N3	5.64	118.28	114.90
34	BA	526	C	O4'-C1'-N1	5.64	112.71	108.20
35	BB	25	A	O5'-C5'-C4'	-5.64	100.99	111.70
35	BB	106	A	O4'-C1'-N9	5.64	112.71	108.20
35	BB	385	C	C1'-O4'-C4'	-5.64	105.39	109.90
35	BB	1480	G	O4'-C1'-C2'	5.64	112.67	107.60
38	BE	48	G	C8-N9-C4	-5.64	104.14	106.40
38	BE	75	C	O4'-C1'-N1	5.64	112.71	108.20
41	BH	5	G	C4-C5-C6	-5.64	115.42	118.80
60	Ba	74	VAL	CB-CA-C	-5.64	100.69	111.40
85	AA	473	C	P-O3'-C3'	5.64	126.46	119.70
85	AA	520	A	OP1-P-OP2	-5.64	111.14	119.60
85	AA	1320	G	C8-N9-C4	-5.64	104.14	106.40
85	AA	2153	G	C4-N9-C1'	-5.64	119.17	126.50
85	AA	2174	G	C1'-O4'-C4'	-5.64	105.39	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	138	C	C1'-O4'-C4'	-5.63	105.39	109.90
34	BA	588	C	O4'-C1'-N1	-5.63	103.69	108.20
34	BA	1039	G	C8-N9-C1'	5.63	134.32	127.00
34	BA	1259	C	O3'-P-O5'	-5.63	93.29	104.00
35	BB	74	U	O5'-C5'-C4'	-5.63	100.99	111.70
35	BB	666	A	C8-N9-C4	5.63	108.05	105.80
35	BB	1377	A	O3'-P-O5'	-5.63	93.29	104.00
35	BB	1462	G	N3-C2-N2	5.63	123.84	119.90
39	BF	5	U	O4'-C4'-C3'	-5.63	98.37	104.00
40	BG	66	C	O4'-C1'-C2'	5.63	112.67	107.60
41	BH	30	C	C6-N1-C1'	-5.63	114.04	120.80
54	BU	92	ARG	NE-CZ-NH2	-5.63	117.48	120.30
58	BY	20	ARG	NE-CZ-NH1	5.63	123.12	120.30
63	Bd	14	ARG	NE-CZ-NH2	-5.63	117.48	120.30
85	AA	84	C	O4'-C1'-N1	5.63	112.71	108.20
85	AA	633	C	C6-N1-C1'	-5.63	114.04	120.80
85	AA	879	G	C5'-C4'-O4'	5.63	115.86	109.10
85	AA	992	G	C3'-C2'-C1'	-5.63	96.99	101.50
85	AA	1501	A	O4'-C1'-N9	5.63	112.71	108.20
85	AA	1518	A	C4-C5-C6	-5.63	114.18	117.00
85	AA	1964	A	C5'-C4'-O4'	5.63	115.86	109.10
86	AB	67	C	C4'-C3'-C2'	-5.63	96.97	102.60
23	AP	200	PHE	CB-CG-CD1	5.63	124.74	120.80
34	BA	727	G	O4'-C1'-N9	5.63	112.71	108.20
34	BA	1077	G	C5-C6-N1	5.63	114.32	111.50
34	BA	1302	C	O4'-C1'-N1	5.63	112.71	108.20
35	BB	4	C	N3-C4-N4	-5.63	114.06	118.00
35	BB	583	G	O4'-C1'-N9	5.63	112.71	108.20
35	BB	1514	G	C3'-C2'-C1'	-5.63	96.99	101.50
36	BC	113	G	C6-C5-N7	-5.63	127.02	130.40
84	By	6	HIS	O-C-N	-5.63	113.69	122.70
7	A6	177	ASN	CA-CB-CG	-5.63	101.01	113.40
11	AC	121	ARG	NE-CZ-NH1	5.63	123.12	120.30
34	BA	253	U	P-O5'-C5'	-5.63	111.89	120.90
34	BA	923	C	C1'-O4'-C4'	-5.63	105.39	109.90
34	BA	1040	G	C3'-C2'-C1'	-5.63	96.99	101.50
34	BA	1103	G	C8-N9-C1'	5.63	134.32	127.00
34	BA	1455	C	O4'-C1'-N1	5.63	112.70	108.20
34	BA	1745	G	P-O3'-C3'	-5.63	112.94	119.70
35	BB	25	A	C5'-C4'-C3'	-5.63	106.99	116.00
35	BB	412	A	C5'-C4'-C3'	-5.63	106.99	116.00
35	BB	650	A	N1-C6-N6	-5.63	115.22	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1178	A	C2-N3-C4	-5.63	107.78	110.60
35	BB	1178	A	O4'-C4'-C3'	-5.63	98.37	104.00
35	BB	1364	C	C2-N1-C1'	-5.63	112.61	118.80
35	BB	1448	U	N3-C2-O2	-5.63	118.26	122.20
35	BB	1493	A	C4-N9-C1'	-5.63	116.16	126.30
38	BE	24	G	O4'-C1'-N9	5.63	112.71	108.20
57	BX	63	PRO	N-CA-C	5.63	126.74	112.10
85	AA	487	G	N3-C2-N2	5.63	123.84	119.90
85	AA	1276	A	O3'-P-O5'	5.63	114.70	104.00
85	AA	1486	G	N9-C1'-C2'	-5.63	105.80	112.00
85	AA	1975	G	C2'-C3'-O3'	5.63	122.71	113.70
34	BA	889	U	N1-C2-N3	5.63	118.28	114.90
34	BA	1162	U	N3-C2-O2	-5.63	118.26	122.20
34	BA	1415	C	C1'-O4'-C4'	-5.63	105.40	109.90
35	BB	420	U	C2-N3-C4	-5.63	123.62	127.00
35	BB	465	C	N3-C4-N4	-5.63	114.06	118.00
35	BB	567	G	C5'-C4'-O4'	5.63	115.86	109.10
35	BB	1029	U	O4'-C1'-C2'	5.63	112.67	107.60
38	BE	200	A	C8-N9-C4	5.63	108.05	105.80
40	BG	135	C	C4'-C3'-C2'	-5.63	96.97	102.60
40	BG	156	G	C5-N7-C8	-5.63	101.48	104.30
85	AA	1349	A	C5'-C4'-C3'	-5.63	106.99	116.00
85	AA	1650	G	C2'-C3'-O3'	5.63	122.71	113.70
85	AA	1829	C	C1'-O4'-C4'	-5.63	105.40	109.90
34	BA	962	U	C1'-O4'-C4'	-5.63	105.40	109.90
34	BA	1806	A	O4'-C1'-N9	5.63	112.70	108.20
35	BB	22	A	C8-N9-C1'	5.63	137.83	127.70
35	BB	35	G	N1-C6-O6	-5.63	116.52	119.90
35	BB	70	A	N1-C6-N6	-5.63	115.22	118.60
35	BB	606	C	N3-C2-O2	-5.63	117.96	121.90
35	BB	630	A	P-O3'-C3'	-5.63	112.94	119.70
35	BB	823	G	O4'-C1'-N9	5.63	112.70	108.20
35	BB	1425	A	O5'-P-OP2	5.63	117.45	110.70
35	BB	1450	G	C5-C6-N1	5.63	114.31	111.50
38	BE	208	G	N1-C6-O6	5.63	123.28	119.90
40	BG	176	G	C4'-C3'-C2'	5.63	108.23	102.60
40	BG	180	C	P-O3'-C3'	-5.63	112.95	119.70
41	BH	102	C	N3-C4-N4	-5.63	114.06	118.00
71	Bl	116	HIS	N-CA-CB	5.63	120.73	110.60
85	AA	890	U	N1-C2-N3	5.63	118.28	114.90
85	AA	1566	A	C8-N9-C4	5.63	108.05	105.80
85	AA	1921	G	N3-C2-N2	-5.63	115.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AC	164	ARG	N-CA-CB	-5.63	100.47	110.60
34	BA	241	U	C3'-C2'-C1'	-5.63	97.00	101.50
34	BA	376	U	C2-N1-C1'	-5.63	110.95	117.70
34	BA	435	U	N3-C2-O2	-5.63	118.26	122.20
34	BA	1333	G	C4-N9-C1'	-5.63	119.19	126.50
34	BA	1460	U	C6-N1-C1'	-5.63	113.32	121.20
34	BA	1483	U	N1-C2-O2	5.63	126.74	122.80
35	BB	345	U	O4'-C1'-N1	5.63	112.70	108.20
35	BB	433	C	P-O5'-C5'	5.63	129.90	120.90
35	BB	585	U	O4'-C1'-N1	5.63	112.70	108.20
36	BC	32	U	C4'-C3'-C2'	-5.63	96.97	102.60
36	BC	69	U	C5-C4-O4	-5.63	122.52	125.90
36	BC	72	A	P-O3'-C3'	-5.63	112.95	119.70
38	BE	200	A	O4'-C1'-N9	5.63	112.70	108.20
41	BH	127	A	O4'-C1'-N9	5.63	112.70	108.20
79	Bt	15	GLU	N-CA-CB	5.63	120.73	110.60
85	AA	17	C	C5-C6-N1	5.63	123.81	121.00
85	AA	77	C	C6-N1-C1'	-5.63	114.05	120.80
85	AA	1229	G	N7-C8-N9	5.63	115.91	113.10
85	AA	1480	C	C4'-C3'-C2'	-5.63	96.97	102.60
18	AJ	119	ARG	CB-CA-C	-5.62	99.15	110.40
34	BA	461	A	P-O5'-C5'	-5.62	111.90	120.90
34	BA	1093	G	C4-N9-C1'	-5.62	119.19	126.50
34	BA	1561	C	N3-C2-O2	-5.62	117.96	121.90
36	BC	124	A	C4-C5-C6	5.62	119.81	117.00
37	BD	65	G	C5-C6-N1	5.62	114.31	111.50
38	BE	94	U	P-O5'-C5'	-5.62	111.90	120.90
49	BP	11	ARG	N-CA-CB	5.62	120.73	110.60
85	AA	578	U	O3'-P-O5'	-5.62	93.31	104.00
85	AA	920	A	P-O3'-C3'	-5.62	112.95	119.70
6	A5	7	ARG	NE-CZ-NH2	-5.62	117.49	120.30
34	BA	12	G	N3-C4-N9	-5.62	122.63	126.00
34	BA	56	G	N1-C6-O6	5.62	123.27	119.90
34	BA	157	U	P-O5'-C5'	5.62	129.90	120.90
34	BA	449	G	C3'-C2'-C1'	-5.62	97.00	101.50
34	BA	484	A	C2'-C3'-O3'	5.62	122.70	113.70
35	BB	498	G	C8-N9-C1'	5.62	134.31	127.00
35	BB	1038	G	C5-C6-N1	5.62	114.31	111.50
53	BT	174	ARG	NE-CZ-NH1	5.62	123.11	120.30
72	Bm	76	ARG	N-CA-CB	5.62	120.72	110.60
85	AA	614	U	C5'-C4'-C3'	5.62	125.00	116.00
85	AA	738	C	N1-C2-N3	5.62	123.14	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1295	G	C8-N9-C4	-5.62	104.15	106.40
85	AA	2106	C	C6-N1-C2	-5.62	118.05	120.30
27	AT	67	PHE	CB-CG-CD1	-5.62	116.86	120.80
34	BA	96	G	C5'-C4'-C3'	-5.62	107.00	116.00
34	BA	330	A	C3'-C2'-C1'	-5.62	97.00	101.50
34	BA	423	G	C5-N7-C8	-5.62	101.49	104.30
34	BA	964	U	O4'-C1'-N1	5.62	112.70	108.20
34	BA	1487	U	N3-C2-O2	-5.62	118.27	122.20
35	BB	458	U	O4'-C1'-N1	5.62	112.70	108.20
35	BB	489	A	C2-N3-C4	-5.62	107.79	110.60
35	BB	529	A	N7-C8-N9	5.62	116.61	113.80
35	BB	827	U	C6-N1-C1'	5.62	129.07	121.20
35	BB	845	C	C4'-C3'-O3'	5.62	124.24	113.00
35	BB	1116	U	O5'-P-OP2	-5.62	100.64	105.70
35	BB	1384	A	O4'-C4'-C3'	-5.62	98.38	104.00
38	BE	61	A	C8-N9-C1'	5.62	137.82	127.70
39	BF	5	U	C5'-C4'-C3'	5.62	125.00	116.00
85	AA	54	C	C2-N1-C1'	-5.62	112.62	118.80
85	AA	353	G	N3-C2-N2	5.62	123.84	119.90
85	AA	560	C	P-O3'-C3'	5.62	126.44	119.70
85	AA	667	A	P-O3'-C3'	-5.62	112.95	119.70
85	AA	1323	G	C5-C6-O6	-5.62	125.23	128.60
85	AA	1353	U	O5'-C5'-C4'	5.62	122.38	111.70
85	AA	1884	A	C2'-C3'-O3'	5.62	122.69	113.70
85	AA	1931	C	C6-N1-C2	-5.62	118.05	120.30
34	BA	266	G	P-O5'-C5'	-5.62	111.91	120.90
34	BA	451	A	N9-C1'-C2'	-5.62	105.82	112.00
35	BB	347	G	O4'-C1'-N9	5.62	112.70	108.20
36	BC	52	A	O5'-C5'-C4'	-5.62	101.02	111.70
60	Ba	94	GLY	N-CA-C	-5.62	99.05	113.10
85	AA	125	A	C1'-O4'-C4'	-5.62	105.40	109.90
85	AA	586	G	N9-C1'-C2'	-5.62	105.82	112.00
85	AA	859	G	N9-C1'-C2'	-5.62	105.82	112.00
85	AA	2173	A	C5'-C4'-C3'	-5.62	107.01	116.00
5	A4	158	PHE	CB-CG-CD2	-5.62	116.87	120.80
34	BA	363	G	C5'-C4'-C3'	5.62	124.99	116.00
34	BA	465	A	N9-C1'-C2'	-5.62	105.82	112.00
34	BA	764	G	N3-C4-N9	5.62	129.37	126.00
34	BA	1079	C	C2-N3-C4	-5.62	117.09	119.90
34	BA	1460	U	C6-N1-C2	-5.62	117.63	121.00
34	BA	1771	U	O4'-C1'-N1	5.62	112.69	108.20
35	BB	68	G	P-O5'-C5'	-5.62	111.91	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	394	A	N1-C2-N3	-5.62	126.49	129.30
35	BB	568	A	C5-C6-N6	-5.62	119.20	123.70
35	BB	629	C	C4-C5-C6	-5.62	114.59	117.40
35	BB	1495	U	C2'-C3'-O3'	5.62	122.69	113.70
35	BB	1509	G	O3'-P-O5'	-5.62	93.32	104.00
36	BC	113	G	C5'-C4'-C3'	-5.62	107.01	116.00
38	BE	25	U	C2'-C3'-O3'	5.62	122.69	113.70
41	BH	113	G	C3'-C2'-C1'	-5.62	97.00	101.50
65	Bf	352	ALA	CA-C-N	-5.62	104.84	117.20
67	Bh	30	ARG	N-CA-CB	-5.62	100.49	110.60
85	AA	54	C	C3'-C2'-C1'	-5.62	97.00	101.50
85	AA	245	A	C4'-C3'-C2'	-5.62	96.98	102.60
85	AA	345	U	C4'-C3'-C2'	-5.62	96.98	102.60
85	AA	1147	A	P-O3'-C3'	5.62	126.44	119.70
85	AA	1275	A	C8-N9-C4	5.62	108.05	105.80
34	BA	125	G	N1-C6-O6	-5.62	116.53	119.90
35	BB	5	A	O4'-C4'-C3'	-5.62	98.38	104.00
38	BE	49	A	O4'-C1'-N9	5.62	112.69	108.20
48	BO	82	SER	CB-CA-C	-5.62	99.43	110.10
81	Bv	89	ASP	CA-CB-CG	-5.62	101.04	113.40
85	AA	547	A	C1'-O4'-C4'	-5.62	105.41	109.90
85	AA	793	C	O5'-P-OP2	5.62	117.44	110.70
85	AA	2225	G	C6-N1-C2	-5.62	121.73	125.10
4	A3	85	PHE	C-N-CA	5.62	135.74	121.70
31	AX	93	ARG	NE-CZ-NH1	5.62	123.11	120.30
34	BA	344	G	O4'-C1'-N9	5.62	112.69	108.20
34	BA	383	G	N1-C2-N2	5.62	121.25	116.20
34	BA	666	C	C4'-C3'-C2'	-5.62	96.98	102.60
34	BA	742	C	P-O3'-C3'	-5.62	112.96	119.70
34	BA	778	U	C4'-C3'-C2'	-5.62	96.98	102.60
34	BA	803	U	C2'-C3'-O3'	5.62	122.68	113.70
34	BA	1346	U	C5'-C4'-O4'	5.62	115.84	109.10
34	BA	1572	G	C5-C6-O6	5.62	131.97	128.60
34	BA	1628	A	C3'-C2'-C1'	-5.62	97.01	101.50
35	BB	1110	G	C8-N9-C1'	5.62	134.30	127.00
35	BB	1512	C	C5'-C4'-O4'	-5.62	102.36	109.10
36	BC	107	C	N1-C1'-C2'	-5.62	105.82	112.00
37	BD	38	U	C2-N3-C4	-5.62	123.63	127.00
41	BH	11	C	O5'-C5'-C4'	5.62	122.37	111.70
85	AA	674	U	C5'-C4'-C3'	-5.62	107.02	116.00
85	AA	820	G	C5-C6-O6	5.62	131.97	128.60
85	AA	1637	C	O3'-P-O5'	-5.62	93.33	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1664	G	P-O5'-C5'	-5.62	111.92	120.90
23	AP	111	PHE	CB-CG-CD1	5.61	124.73	120.80
34	BA	504	A	C8-N9-C4	5.61	108.05	105.80
34	BA	750	C	P-O5'-C5'	-5.61	111.92	120.90
35	BB	384	A	C1'-O4'-C4'	-5.61	105.41	109.90
35	BB	1331	U	C1'-O4'-C4'	-5.61	105.41	109.90
38	BE	55	C	O4'-C1'-N1	5.61	112.69	108.20
38	BE	79	G	O4'-C1'-N9	5.61	112.69	108.20
40	BG	10	U	C6-N1-C1'	5.61	129.06	121.20
85	AA	192	G	N3-C4-C5	-5.61	125.79	128.60
85	AA	324	U	C4'-C3'-C2'	5.61	108.21	102.60
85	AA	464	A	O5'-C5'-C4'	-5.61	101.03	111.70
85	AA	993	G	P-O3'-C3'	-5.61	112.96	119.70
85	AA	1223	A	C4-C5-C6	-5.61	114.19	117.00
85	AA	1456	A	C1'-O4'-C4'	-5.61	105.41	109.90
85	AA	2008	G	N1-C2-N3	-5.61	120.53	123.90
85	AA	2102	A	C5-C6-N6	-5.61	119.21	123.70
85	AA	2186	U	C5'-C4'-O4'	5.61	115.84	109.10
34	BA	423	G	C1'-O4'-C4'	-5.61	105.41	109.90
35	BB	545	C	O4'-C1'-N1	5.61	112.69	108.20
35	BB	823	G	N3-C4-C5	-5.61	125.79	128.60
35	BB	824	C	C5'-C4'-C3'	-5.61	107.02	116.00
67	Bh	28	GLU	C-N-CA	5.61	135.73	121.70
84	By	171	ARG	NE-CZ-NH2	-5.61	117.49	120.30
85	AA	2035	C	O4'-C1'-N1	5.61	112.69	108.20
85	AA	2125	A	C5-N7-C8	-5.61	101.09	103.90
34	BA	260	A	P-O5'-C5'	-5.61	111.92	120.90
34	BA	372	U	O5'-P-OP2	-5.61	100.65	105.70
34	BA	667	U	O4'-C1'-N1	5.61	112.69	108.20
34	BA	705	C	C4'-C3'-C2'	5.61	108.21	102.60
34	BA	883	C	O4'-C1'-N1	5.61	112.69	108.20
34	BA	901	C	N3-C2-O2	-5.61	117.97	121.90
34	BA	992	A	O4'-C1'-C2'	5.61	112.65	107.60
34	BA	1340	G	C6-N1-C2	-5.61	121.73	125.10
34	BA	1693	U	C2-N3-C4	-5.61	123.63	127.00
35	BB	147	C	C6-N1-C1'	-5.61	114.07	120.80
35	BB	638	G	C2'-C3'-O3'	5.61	122.68	113.70
35	BB	1147	G	C5-C6-O6	-5.61	125.23	128.60
35	BB	1336	G	N1-C6-O6	5.61	123.27	119.90
35	BB	1353	G	C8-N9-C4	-5.61	104.16	106.40
37	BD	79	G	C2-N3-C4	5.61	114.70	111.90
85	AA	4	C	C5-C4-N4	-5.61	116.27	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	124	A	C3'-C2'-C1'	5.61	105.99	101.50
85	AA	782	G	C3'-C2'-C1'	-5.61	97.01	101.50
85	AA	815	G	N9-C1'-C2'	-5.61	105.83	112.00
85	AA	999	A	O4'-C1'-N9	5.61	112.69	108.20
85	AA	1295	G	N3-C4-C5	-5.61	125.79	128.60
85	AA	1299	A	C5'-C4'-C3'	5.61	124.98	116.00
85	AA	1470	A	C8-N9-C4	5.61	108.04	105.80
85	AA	2058	C	N1-C2-N3	5.61	123.13	119.20
86	AB	28	G	C5-C6-O6	-5.61	125.23	128.60
26	AS	105	PHE	CB-CG-CD2	-5.61	116.87	120.80
34	BA	27	G	O4'-C1'-N9	5.61	112.69	108.20
34	BA	1318	G	O4'-C4'-C3'	-5.61	98.39	104.00
34	BA	1658	G	C3'-C2'-C1'	-5.61	97.01	101.50
35	BB	403	U	C2-N3-C4	-5.61	123.64	127.00
35	BB	852	G	OP2-P-O3'	5.61	117.54	105.20
35	BB	1443	C	O4'-C1'-N1	5.61	112.69	108.20
46	BM	67	ARG	NE-CZ-NH1	5.61	123.11	120.30
85	AA	66	U	C5-C4-O4	5.61	129.26	125.90
85	AA	138	C	C6-N1-C2	-5.61	118.06	120.30
85	AA	776	C	P-O5'-C5'	-5.61	111.92	120.90
85	AA	1266	C	C6-N1-C2	5.61	122.54	120.30
85	AA	1892	G	C1'-O4'-C4'	-5.61	105.41	109.90
14	AF	116	ARG	NE-CZ-NH2	-5.61	117.50	120.30
34	BA	10	G	C4-C5-C6	-5.61	115.44	118.80
34	BA	39	C	N3-C4-N4	5.61	121.93	118.00
34	BA	332	U	O4'-C1'-N1	5.61	112.69	108.20
34	BA	389	U	C3'-C2'-C1'	-5.61	97.02	101.50
34	BA	605	G	O5'-C5'-C4'	5.61	122.36	111.70
34	BA	794	G	C5'-C4'-C3'	-5.61	107.03	116.00
34	BA	796	G	C8-N9-C4	-5.61	104.16	106.40
34	BA	1395	C	C2-N3-C4	-5.61	117.10	119.90
34	BA	1415	C	O5'-P-OP2	-5.61	100.65	105.70
35	BB	1031	G	O4'-C1'-C2'	-5.61	100.19	105.80
36	BC	111	C	C5-C4-N4	-5.61	116.28	120.20
37	BD	105	G	C3'-C2'-C1'	-5.61	97.02	101.50
40	BG	119	A	N1-C6-N6	5.61	121.97	118.60
40	BG	172	C	C3'-C2'-C1'	-5.61	97.02	101.50
51	BR	141	ARG	NE-CZ-NH2	5.61	123.10	120.30
83	Bx	50	GLY	C-N-CA	5.61	135.72	121.70
85	AA	3	U	C4'-C3'-C2'	-5.61	96.99	102.60
85	AA	4	C	C5'-C4'-C3'	-5.61	107.03	116.00
85	AA	780	U	O4'-C1'-N1	5.61	112.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	851	G	N9-C4-C5	-5.61	103.16	105.40
85	AA	925	G	O5'-P-OP2	-5.61	100.65	105.70
85	AA	926	C	C6-N1-C1'	5.61	127.53	120.80
85	AA	1832	G	C4'-C3'-C2'	-5.61	96.99	102.60
85	AA	1850	G	C5'-C4'-O4'	5.61	115.83	109.10
85	AA	2061	C	C4'-C3'-C2'	-5.61	96.99	102.60
21	AM	109	ARG	NE-CZ-NH1	5.61	123.10	120.30
31	AX	9	MET	CA-CB-CG	5.61	122.83	113.30
34	BA	537	C	P-O5'-C5'	5.61	129.87	120.90
34	BA	771	A	C5'-C4'-C3'	5.61	124.97	116.00
34	BA	1563	G	C1'-O4'-C4'	5.61	114.38	109.90
35	BB	621	C	C5'-C4'-C3'	-5.61	107.03	116.00
35	BB	926	C	O4'-C1'-N1	5.61	112.68	108.20
38	BE	201	A	O4'-C1'-N9	5.61	112.69	108.20
85	AA	30	G	C1'-O4'-C4'	-5.61	105.42	109.90
85	AA	442	G	C5'-C4'-C3'	-5.61	107.03	116.00
85	AA	742	U	C5-C4-O4	5.61	129.26	125.90
85	AA	756	G	O5'-P-OP1	5.61	117.43	110.70
85	AA	1106	A	C5-N7-C8	-5.61	101.10	103.90
85	AA	1844	A	P-O3'-C3'	-5.61	112.97	119.70
85	AA	1892	G	N1-C6-O6	5.61	123.26	119.90
85	AA	2217	A	C5-C6-N6	-5.61	119.22	123.70
34	BA	83	G	N9-C1'-C2'	-5.60	105.84	112.00
85	AA	1879	U	C2'-C3'-O3'	5.60	122.67	113.70
85	AA	1990	U	P-O3'-C3'	-5.60	112.98	119.70
85	AA	2167	A	C4-N9-C1'	-5.60	116.21	126.30
34	BA	173	U	O4'-C1'-N1	5.60	112.68	108.20
34	BA	246	G	N3-C2-N2	5.60	123.82	119.90
34	BA	289	A	C5-C6-N6	-5.60	119.22	123.70
34	BA	515	U	C5'-C4'-C3'	5.60	124.97	116.00
34	BA	568	G	N9-C1'-C2'	-5.60	105.84	112.00
34	BA	799	A	P-O3'-C3'	5.60	126.42	119.70
34	BA	834	C	OP1-P-OP2	-5.60	111.20	119.60
34	BA	924	U	C6-N1-C2	-5.60	117.64	121.00
34	BA	1055	U	C4'-C3'-C2'	5.60	108.20	102.60
34	BA	1645	C	C3'-C2'-C1'	-5.60	97.02	101.50
35	BB	71	A	C1'-O4'-C4'	-5.60	105.42	109.90
35	BB	271	C	O4'-C1'-N1	5.60	112.68	108.20
35	BB	795	A	O4'-C1'-N9	5.60	112.68	108.20
35	BB	906	G	N1-C6-O6	5.60	123.26	119.90
36	BC	20	C	C6-N1-C2	-5.60	118.06	120.30
38	BE	112	G	O5'-C5'-C4'	5.60	122.34	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	154	A	O4'-C1'-N9	5.60	112.68	108.20
39	BF	61	A	O5'-C5'-C4'	5.60	122.35	111.70
42	BI	19	THR	C-N-CA	5.60	135.71	121.70
53	BT	189	ARG	NE-CZ-NH1	5.60	123.10	120.30
85	AA	249	C	C6-N1-C2	-5.60	118.06	120.30
85	AA	1302	A	N1-C6-N6	5.60	121.96	118.60
85	AA	1814	U	C3'-C2'-C1'	-5.60	97.02	101.50
85	AA	2150	G	C5-C6-O6	-5.60	125.24	128.60
1	A0	117	ARG	N-CA-C	-5.60	95.88	111.00
34	BA	223	U	C5'-C4'-O4'	-5.60	102.38	109.10
34	BA	297	A	C8-N9-C4	-5.60	103.56	105.80
34	BA	442	G	O4'-C1'-C2'	-5.60	100.20	105.80
34	BA	585	G	C5'-C4'-C3'	-5.60	107.04	116.00
34	BA	1410	C	C1'-O4'-C4'	-5.60	105.42	109.90
34	BA	1607	U	C1'-O4'-C4'	-5.60	105.42	109.90
35	BB	1515	C	C2-N3-C4	-5.60	117.10	119.90
41	BH	118	U	C3'-C2'-C1'	-5.60	97.02	101.50
59	BZ	55	VAL	CB-CA-C	-5.60	100.76	111.40
85	AA	750	A	C5-C6-N6	-5.60	119.22	123.70
34	BA	812	A	C4-N9-C1'	-5.60	116.22	126.30
34	BA	1166	A	C4-C5-C6	-5.60	114.20	117.00
34	BA	1496	G	N9-C4-C5	-5.60	103.16	105.40
34	BA	1559	C	N3-C2-O2	-5.60	117.98	121.90
34	BA	1617	U	C3'-C2'-C1'	-5.60	97.02	101.50
34	BA	1686	G	C8-N9-C4	5.60	108.64	106.40
34	BA	1697	U	OP1-P-OP2	-5.60	111.20	119.60
34	BA	1720	U	N3-C2-O2	-5.60	118.28	122.20
34	BA	1790	U	O4'-C1'-C2'	5.60	112.64	107.60
34	BA	1804	A	C4'-C3'-C2'	-5.60	97.00	102.60
37	BD	55	A	C5-C6-N6	5.60	128.18	123.70
38	BE	79	G	C5-C6-O6	-5.60	125.24	128.60
38	BE	131	C	C4'-C3'-C2'	5.60	108.20	102.60
53	BT	117	ARG	N-CA-CB	-5.60	100.52	110.60
85	AA	303	A	C5-C6-N6	5.60	128.18	123.70
85	AA	304	G	C3'-C2'-C1'	5.60	105.98	101.50
85	AA	422	G	C6-N1-C2	-5.60	121.74	125.10
85	AA	721	C	C4'-C3'-C2'	-5.60	97.00	102.60
85	AA	972	G	O5'-C5'-C4'	5.60	122.34	111.70
85	AA	1106	A	C5'-C4'-O4'	5.60	115.82	109.10
25	AR	14	VAL	N-CA-C	-5.60	95.89	111.00
34	BA	108	A	C5-C6-N1	5.60	120.50	117.70
34	BA	159	U	C3'-C2'-C1'	-5.60	97.02	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	499	C	C4'-C3'-C2'	5.60	108.20	102.60
34	BA	575	U	O3'-P-O5'	-5.60	93.37	104.00
34	BA	940	C	C4'-C3'-C2'	5.60	108.20	102.60
34	BA	1053	U	N1-C2-N3	5.60	118.26	114.90
34	BA	1424	G	C5'-C4'-C3'	-5.60	107.04	116.00
34	BA	1543	A	O4'-C1'-C2'	5.60	112.64	107.60
35	BB	531	U	O4'-C1'-N1	5.60	112.68	108.20
35	BB	829	C	C6-N1-C1'	5.60	127.52	120.80
35	BB	1046	C	C2-N3-C4	-5.60	117.10	119.90
35	BB	1314	G	P-O5'-C5'	-5.60	111.95	120.90
40	BG	104	A	C5'-C4'-C3'	-5.60	107.04	116.00
33	AZ	97	ARG	NE-CZ-NH2	-5.60	117.50	120.30
34	BA	1194	G	N1-C6-O6	-5.60	116.54	119.90
34	BA	1225	A	C1'-O4'-C4'	-5.60	105.42	109.90
34	BA	1249	G	N9-C1'-C2'	-5.60	105.84	112.00
34	BA	1337	A	C3'-C2'-C1'	-5.60	97.02	101.50
34	BA	1501	U	C5-C6-N1	-5.60	119.90	122.70
35	BB	1181	A	N9-C1'-C2'	-5.60	105.84	112.00
36	BC	154	A	N9-C4-C5	-5.60	103.56	105.80
51	BR	139	TYR	CB-CA-C	5.60	121.59	110.40
74	Bo	19	GLY	N-CA-C	5.60	127.09	113.10
82	Bw	46	ALA	CB-CA-C	-5.60	101.70	110.10
85	AA	438	G	P-O3'-C3'	-5.60	112.98	119.70
85	AA	988	C	C2-N1-C1'	5.60	124.96	118.80
85	AA	2171	A	OP2-P-O3'	5.60	117.51	105.20
34	BA	710	A	C5'-C4'-C3'	-5.59	107.05	116.00
34	BA	934	G	C8-N9-C4	5.59	108.64	106.40
34	BA	1300	G	C8-N9-C1'	5.59	134.27	127.00
34	BA	1634	A	O5'-C5'-C4'	5.59	122.33	111.70
34	BA	1728	G	C2-N3-C4	-5.59	109.10	111.90
35	BB	1498	G	C4-C5-C6	-5.59	115.44	118.80
35	BB	1522	G	C8-N9-C1'	5.59	134.27	127.00
38	BE	206	G	O4'-C1'-N9	5.59	112.67	108.20
39	BF	18	U	C6-N1-C1'	-5.59	113.37	121.20
40	BG	30	C	C6-N1-C2	-5.59	118.06	120.30
40	BG	91	U	O3'-P-O5'	5.59	114.63	104.00
53	BT	81	ARG	CB-CG-CD	5.59	126.15	111.60
64	Be	133	TYR	N-CA-C	-5.59	95.90	111.00
84	By	6	HIS	CA-C-N	5.59	129.51	117.20
85	AA	47	A	N3-C4-C5	-5.59	122.88	126.80
85	AA	257	U	O4'-C1'-N1	5.59	112.68	108.20
85	AA	455	G	N1-C2-N3	-5.59	120.54	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	873	U	O4'-C1'-N1	5.59	112.68	108.20
85	AA	1249	U	P-O5'-C5'	5.59	129.85	120.90
85	AA	1301	C	C6-N1-C2	-5.59	118.06	120.30
86	AB	43	C	C4'-C3'-C2'	-5.59	97.00	102.60
34	BA	78	U	C3'-C2'-C1'	-5.59	97.03	101.50
34	BA	976	C	C5-C4-N4	5.59	124.11	120.20
34	BA	1094	U	C2-N3-C4	-5.59	123.64	127.00
34	BA	1119	A	O4'-C1'-N9	5.59	112.67	108.20
34	BA	1485	U	N1-C1'-C2'	-5.59	105.85	112.00
35	BB	8	U	C2-N1-C1'	-5.59	110.99	117.70
35	BB	1068	G	N1-C6-O6	5.59	123.26	119.90
41	BH	4	U	C6-N1-C2	-5.59	117.64	121.00
41	BH	28	U	N1-C2-O2	5.59	126.72	122.80
47	BN	18	ASN	CA-CB-CG	-5.59	101.09	113.40
85	AA	329	G	C5-C6-O6	-5.59	125.24	128.60
85	AA	1016	G	C1'-O4'-C4'	-5.59	105.43	109.90
85	AA	1149	A	P-O3'-C3'	5.59	126.41	119.70
85	AA	1517	G	N1-C6-O6	5.59	123.26	119.90
23	AP	105	ARG	NE-CZ-NH1	5.59	123.09	120.30
34	BA	422	C	C5'-C4'-C3'	-5.59	107.06	116.00
34	BA	469	C	C6-N1-C2	-5.59	118.06	120.30
34	BA	709	C	C5'-C4'-C3'	-5.59	107.05	116.00
34	BA	941	G	N1-C2-N2	-5.59	111.17	116.20
34	BA	1090	A	P-O3'-C3'	-5.59	112.99	119.70
34	BA	1348	G	P-O3'-C3'	-5.59	112.99	119.70
34	BA	1695	G	C1'-O4'-C4'	-5.59	105.43	109.90
34	BA	1829	A	P-O5'-C5'	5.59	129.85	120.90
35	BB	673	C	P-O3'-C3'	-5.59	112.99	119.70
35	BB	1017	U	C3'-C2'-C1'	-5.59	97.03	101.50
35	BB	1503	U	C4'-C3'-C2'	-5.59	97.01	102.60
36	BC	3	C	N1-C2-N3	5.59	123.11	119.20
44	BK	49	CYS	N-CA-CB	5.59	120.66	110.60
59	BZ	106	LEU	C-N-CA	5.59	135.68	121.70
85	AA	373	G	C4'-C3'-C2'	5.59	108.19	102.60
85	AA	558	U	C3'-C2'-C1'	-5.59	97.03	101.50
85	AA	578	U	C5'-C4'-O4'	-5.59	102.39	109.10
85	AA	818	C	N3-C4-N4	5.59	121.91	118.00
85	AA	1457	C	C5-C6-N1	5.59	123.80	121.00
85	AA	2250	U	C3'-C2'-C1'	5.59	105.97	101.50
34	BA	52	G	C6-N1-C2	-5.59	121.75	125.10
34	BA	101	G	P-O5'-C5'	-5.59	111.96	120.90
34	BA	1415	C	C4'-C3'-C2'	5.59	108.19	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1729	G	N3-C2-N2	5.59	123.81	119.90
35	BB	719	G	P-O5'-C5'	5.59	129.84	120.90
35	BB	1015	U	P-O3'-C3'	-5.59	112.99	119.70
36	BC	156	A	O4'-C4'-C3'	-5.59	98.41	104.00
52	BS	116	HIS	N-CA-CB	5.59	120.66	110.60
85	AA	165	C	C4'-C3'-C2'	-5.59	97.01	102.60
85	AA	1324	G	C5'-C4'-C3'	-5.59	107.06	116.00
85	AA	1826	U	C2-N1-C1'	5.59	124.41	117.70
34	BA	548	G	N7-C8-N9	5.59	115.89	113.10
34	BA	702	G	O4'-C1'-N9	5.59	112.67	108.20
34	BA	1451	A	C5-C6-N6	-5.59	119.23	123.70
35	BB	391	G	O4'-C1'-N9	5.59	112.67	108.20
35	BB	456	A	N1-C6-N6	5.59	121.95	118.60
35	BB	1509	G	N9-C1'-C2'	-5.59	105.85	112.00
38	BE	182	U	P-O3'-C3'	-5.59	112.99	119.70
42	BI	108	CYS	CB-CA-C	5.59	121.58	110.40
85	AA	1661	U	O4'-C1'-C2'	5.59	112.63	107.60
85	AA	1700	C	C6-N1-C2	-5.59	118.06	120.30
15	AG	91	LEU	N-CA-CB	-5.59	99.23	110.40
34	BA	137	C	C1'-O4'-C4'	-5.59	105.43	109.90
34	BA	1700	C	P-O5'-C5'	-5.59	111.96	120.90
35	BB	776	U	O4'-C1'-N1	5.59	112.67	108.20
35	BB	1062	G	C5-C6-N1	5.59	114.29	111.50
35	BB	1467	A	N1-C6-N6	5.59	121.95	118.60
38	BE	184	G	C3'-C2'-C1'	-5.59	97.03	101.50
84	By	38	ARG	NE-CZ-NH2	5.59	123.09	120.30
85	AA	301	U	C2-N1-C1'	5.59	124.40	117.70
85	AA	340	G	C3'-C2'-C1'	-5.59	97.03	101.50
85	AA	443	A	P-O3'-C3'	5.59	126.40	119.70
85	AA	994	A	N1-C2-N3	-5.59	126.51	129.30
85	AA	1489	G	C4'-C3'-C2'	5.59	108.19	102.60
85	AA	1983	C	P-O5'-C5'	-5.59	111.96	120.90
30	AW	80	PHE	CB-CG-CD2	-5.58	116.89	120.80
34	BA	1053	U	O4'-C1'-N1	5.58	112.67	108.20
34	BA	1472	G	P-O3'-C3'	-5.58	113.00	119.70
34	BA	1755	U	O4'-C1'-N1	5.58	112.67	108.20
37	BD	25	G	C8-N9-C4	-5.58	104.17	106.40
47	BN	194	HIS	CA-CB-CG	5.58	123.09	113.60
59	BZ	7	ARG	N-CA-C	-5.58	95.92	111.00
77	Br	234	ASN	CA-CB-CG	-5.58	101.11	113.40
80	Bu	145	ARG	N-CA-CB	5.58	120.65	110.60
85	AA	1793	A	C5'-C4'-O4'	-5.58	102.40	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1797	U	O4'-C4'-C3'	-5.58	98.42	104.00
86	AB	57	G	C6-N1-C2	5.58	128.45	125.10
34	BA	111	U	N1-C1'-C2'	-5.58	105.86	112.00
34	BA	235	C	C2'-C3'-O3'	5.58	122.63	113.70
34	BA	861	C	C2-N3-C4	-5.58	117.11	119.90
34	BA	1023	G	N1-C6-O6	5.58	123.25	119.90
34	BA	1564	A	N1-C6-N6	5.58	121.95	118.60
35	BB	129	U	O4'-C1'-C2'	5.58	112.62	107.60
35	BB	383	U	C5'-C4'-O4'	5.58	115.80	109.10
35	BB	1356	G	C5-N7-C8	5.58	107.09	104.30
36	BC	99	U	O3'-P-O5'	-5.58	93.39	104.00
38	BE	97	G	P-O3'-C3'	-5.58	113.00	119.70
41	BH	22	A	N1-C6-N6	5.58	121.95	118.60
41	BH	102	C	C5'-C4'-O4'	-5.58	102.40	109.10
77	Br	277	LEU	N-CA-CB	5.58	121.57	110.40
85	AA	270	A	N1-C6-N6	-5.58	115.25	118.60
85	AA	584	G	C8-N9-C4	-5.58	104.17	106.40
85	AA	864	C	C1'-O4'-C4'	-5.58	105.43	109.90
85	AA	1493	A	N3-C4-N9	-5.58	122.93	127.40
34	BA	175	G	O4'-C4'-C3'	-5.58	98.42	104.00
34	BA	650	C	C3'-C2'-C1'	-5.58	97.03	101.50
34	BA	860	G	N9-C1'-C2'	-5.58	105.86	112.00
34	BA	1053	U	C2-N3-C4	-5.58	123.65	127.00
34	BA	1252	G	N9-C1'-C2'	-5.58	105.86	112.00
34	BA	1442	A	C5'-C4'-C3'	5.58	124.93	116.00
34	BA	1642	A	C3'-C2'-C1'	-5.58	97.03	101.50
35	BB	103	C	N3-C4-N4	-5.58	114.09	118.00
35	BB	1026	G	C5'-C4'-C3'	5.58	124.93	116.00
35	BB	1143	A	O4'-C1'-N9	5.58	112.67	108.20
45	BL	135	TYR	CB-CG-CD2	5.58	124.35	121.00
49	BP	48	ARG	NE-CZ-NH2	-5.58	117.51	120.30
85	AA	118	C	C2-N1-C1'	-5.58	112.66	118.80
85	AA	715	G	N1-C6-O6	-5.58	116.55	119.90
85	AA	855	G	N9-C1'-C2'	5.58	121.26	114.00
85	AA	1155	A	C4-N9-C1'	-5.58	116.25	126.30
85	AA	1268	C	C2-N1-C1'	-5.58	112.66	118.80
85	AA	1853	U	O4'-C1'-N1	5.58	112.67	108.20
85	AA	1945	A	O4'-C1'-N9	5.58	112.67	108.20
85	AA	2136	C	C2'-C3'-O3'	5.58	122.63	113.70
31	AX	116	ARG	NE-CZ-NH2	-5.58	117.51	120.30
34	BA	660	C	C2-N3-C4	-5.58	117.11	119.90
34	BA	1563	G	O4'-C1'-N9	-5.58	103.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	397	C	C5-C4-N4	5.58	124.11	120.20
85	AA	309	G	O4'-C1'-C2'	5.58	112.62	107.60
85	AA	365	G	C5-C6-O6	5.58	131.95	128.60
85	AA	400	G	C4-C5-C6	-5.58	115.45	118.80
85	AA	540	A	O4'-C1'-C2'	5.58	112.62	107.60
85	AA	1305	A	C5'-C4'-C3'	5.58	124.93	116.00
34	BA	54	A	C1'-O4'-C4'	-5.58	105.44	109.90
34	BA	89	G	N1-C2-N2	5.58	121.22	116.20
34	BA	967	C	P-O5'-C5'	-5.58	111.97	120.90
35	BB	122	U	C5-C6-N1	-5.58	119.91	122.70
35	BB	961	G	O4'-C1'-N9	5.58	112.66	108.20
35	BB	980	G	N1-C6-O6	5.58	123.25	119.90
35	BB	1076	U	N1-C2-N3	5.58	118.25	114.90
35	BB	1113	C	P-O5'-C5'	-5.58	111.97	120.90
35	BB	1202	G	N9-C1'-C2'	-5.58	105.86	112.00
35	BB	1213	U	N3-C4-C5	-5.58	111.25	114.60
35	BB	1421	C	C1'-O4'-C4'	-5.58	105.44	109.90
36	BC	123	G	O4'-C1'-N9	5.58	112.66	108.20
38	BE	69	C	C2-N3-C4	-5.58	117.11	119.90
85	AA	20	G	C5-C6-N1	5.58	114.29	111.50
85	AA	76	G	C8-N9-C1'	5.58	134.25	127.00
85	AA	82	A	C5'-C4'-C3'	-5.58	107.08	116.00
85	AA	290	G	N3-C2-N2	5.58	123.81	119.90
85	AA	465	A	N1-C2-N3	-5.58	126.51	129.30
85	AA	661	C	C2-N1-C1'	-5.58	112.66	118.80
85	AA	1191	G	C5-C6-N1	5.58	114.29	111.50
85	AA	1825	A	C8-N9-C4	-5.58	103.57	105.80
34	BA	811	C	P-O3'-C3'	-5.58	113.01	119.70
35	BB	919	U	O4'-C1'-N1	5.58	112.66	108.20
35	BB	1062	G	N1-C6-O6	5.58	123.25	119.90
41	BH	34	G	O4'-C1'-N9	5.58	112.66	108.20
47	BN	106	ARG	NE-CZ-NH1	5.58	123.09	120.30
48	BO	134	GLY	C-N-CA	5.58	134.01	122.30
65	Bf	101	LYS	CA-CB-CG	5.58	125.67	113.40
85	AA	132	G	C4-N9-C1'	-5.58	119.25	126.50
85	AA	1539	A	C8-N9-C4	5.58	108.03	105.80
85	AA	1667	C	N1-C2-N3	5.58	123.10	119.20
5	A4	81	ARG	NE-CZ-NH2	-5.58	117.51	120.30
34	BA	161	U	N3-C2-O2	5.58	126.10	122.20
34	BA	398	G	P-O5'-C5'	5.58	129.82	120.90
34	BA	526	C	N3-C4-N4	5.58	121.90	118.00
34	BA	661	C	O4'-C1'-C2'	5.58	112.62	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	854	A	P-O5'-C5'	-5.58	111.98	120.90
34	BA	1133	A	N1-C6-N6	5.58	121.94	118.60
34	BA	1612	C	N3-C4-N4	-5.58	114.10	118.00
35	BB	85	A	C5'-C4'-C3'	5.58	124.92	116.00
35	BB	568	A	P-O3'-C3'	-5.58	113.01	119.70
35	BB	573	C	C2-N1-C1'	5.58	124.93	118.80
35	BB	1369	A	O4'-C1'-C2'	5.58	112.62	107.60
41	BH	45	G	C5'-C4'-C3'	-5.58	107.08	116.00
48	BO	96	ASP	CB-CG-OD1	5.58	123.32	118.30
85	AA	474	C	N1-C2-O2	5.58	122.25	118.90
85	AA	836	A	N1-C6-N6	-5.58	115.25	118.60
85	AA	849	A	O4'-C4'-C3'	-5.58	98.42	104.00
85	AA	988	C	C1'-O4'-C4'	-5.58	105.44	109.90
85	AA	1018	G	C5'-C4'-C3'	-5.58	107.08	116.00
85	AA	1454	U	C2-N3-C4	-5.58	123.65	127.00
85	AA	1560	A	C4'-C3'-C2'	-5.58	97.03	102.60
85	AA	1854	U	N3-C2-O2	-5.58	118.30	122.20
85	AA	1996	A	C5'-C4'-C3'	5.58	124.92	116.00
34	BA	579	U	O3'-P-O5'	-5.57	93.41	104.00
34	BA	684	G	N3-C4-C5	-5.57	125.81	128.60
35	BB	32	C	C6-N1-C2	-5.57	118.07	120.30
35	BB	62	C	C4'-C3'-C2'	-5.57	97.03	102.60
36	BC	15	G	C4-N9-C1'	-5.57	119.25	126.50
38	BE	14	C	P-O5'-C5'	5.57	129.82	120.90
39	BF	28	C	C5'-C4'-C3'	-5.57	107.08	116.00
41	BH	16	A	C1'-O4'-C4'	-5.57	105.44	109.90
41	BH	54	U	C6-N1-C1'	5.57	129.00	121.20
41	BH	73	A	N1-C6-N6	5.57	121.94	118.60
50	BQ	40	GLN	N-CA-CB	-5.57	100.57	110.60
7	A6	139	ILE	CA-C-N	-5.57	104.94	117.20
34	BA	917	C	C1'-O4'-C4'	-5.57	105.44	109.90
34	BA	1275	G	C1'-O4'-C4'	-5.57	105.44	109.90
34	BA	1531	G	C3'-C2'-C1'	-5.57	97.04	101.50
35	BB	1405	G	N3-C4-C5	-5.57	125.81	128.60
35	BB	1508	G	P-O5'-C5'	-5.57	111.98	120.90
39	BF	40	U	OP1-P-O3'	5.57	117.46	105.20
41	BH	100	A	C5-N7-C8	-5.57	101.11	103.90
85	AA	1127	G	C8-N9-C1'	5.57	134.24	127.00
85	AA	1912	U	C4'-C3'-C2'	-5.57	97.03	102.60
34	BA	372	U	C1'-O4'-C4'	-5.57	105.44	109.90
34	BA	934	G	O4'-C1'-N9	5.57	112.66	108.20
34	BA	1080	U	O4'-C1'-N1	5.57	112.66	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1810	A	P-O5'-C5'	-5.57	111.99	120.90
35	BB	652	G	N3-C2-N2	5.57	123.80	119.90
35	BB	1220	A	C5-N7-C8	-5.57	101.11	103.90
36	BC	101	U	O5'-C5'-C4'	-5.57	101.12	111.70
36	BC	168	C	C2-N1-C1'	-5.57	112.67	118.80
38	BE	49	A	C5-C6-N6	-5.57	119.24	123.70
41	BH	72	G	C5'-C4'-O4'	-5.57	102.42	109.10
85	AA	169	G	N3-C2-N2	5.57	123.80	119.90
85	AA	268	A	P-O5'-C5'	5.57	129.81	120.90
85	AA	397	G	P-O3'-C3'	-5.57	113.02	119.70
85	AA	470	C	C4'-C3'-C2'	-5.57	97.03	102.60
85	AA	926	C	O4'-C1'-N1	5.57	112.66	108.20
85	AA	1385	C	C6-N1-C2	-5.57	118.07	120.30
85	AA	2007	G	N3-C4-N9	-5.57	122.66	126.00
23	AP	55	ASP	CB-CG-OD1	5.57	123.31	118.30
34	BA	322	U	C3'-C2'-C1'	-5.57	97.05	101.50
34	BA	800	G	N1-C2-N3	5.57	127.24	123.90
34	BA	1067	G	O4'-C1'-C2'	5.57	112.61	107.60
35	BB	805	G	C3'-C2'-C1'	-5.57	97.04	101.50
35	BB	1094	A	C8-N9-C1'	5.57	137.72	127.70
85	AA	161	A	C3'-C2'-C1'	-5.57	97.05	101.50
85	AA	195	C	C5'-C4'-C3'	-5.57	107.09	116.00
85	AA	696	G	C2'-C3'-O3'	5.57	122.61	113.70
85	AA	1503	G	N3-C2-N2	5.57	123.80	119.90
85	AA	1669	G	C5'-C4'-C3'	-5.57	107.09	116.00
2	A1	133	ILE	N-CA-C	-5.57	95.97	111.00
34	BA	195	G	N3-C4-C5	-5.57	125.82	128.60
34	BA	594	G	O4'-C1'-C2'	-5.57	100.23	105.80
34	BA	739	A	N7-C8-N9	5.57	116.58	113.80
34	BA	1068	C	C5-C4-N4	5.57	124.10	120.20
34	BA	1268	C	C5-C4-N4	-5.57	116.30	120.20
34	BA	1320	A	C3'-C2'-C1'	-5.57	97.05	101.50
34	BA	1444	G	C4'-C3'-C2'	-5.57	97.03	102.60
35	BB	444	U	O5'-P-OP1	-5.57	100.69	105.70
35	BB	899	C	C4'-C3'-C2'	-5.57	97.03	102.60
35	BB	1181	A	O4'-C1'-C2'	5.57	112.61	107.60
35	BB	1390	U	C4'-C3'-C2'	-5.57	97.03	102.60
36	BC	86	U	N3-C2-O2	-5.57	118.30	122.20
75	Bp	70	THR	C-N-CA	5.57	135.62	121.70
85	AA	313	A	C4-N9-C1'	-5.57	116.28	126.30
85	AA	657	C	C1'-O4'-C4'	-5.57	105.45	109.90
85	AA	1490	A	P-O5'-C5'	5.57	129.81	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1522	U	N1-C1'-C2'	-5.57	105.88	112.00
85	AA	1881	C	C6-N1-C1'	5.57	127.48	120.80
3	A2	76	VAL	CB-CA-C	5.57	121.97	111.40
16	AH	30	PHE	CA-CB-CG	-5.57	100.54	113.90
34	BA	118	C	C4'-C3'-C2'	-5.57	97.03	102.60
34	BA	423	G	C3'-C2'-C1'	-5.57	97.05	101.50
34	BA	538	G	C3'-C2'-C1'	-5.57	97.05	101.50
34	BA	574	U	C4'-C3'-C2'	5.57	108.17	102.60
34	BA	689	C	O3'-P-O5'	5.57	114.57	104.00
34	BA	1078	U	C1'-O4'-C4'	-5.57	105.45	109.90
34	BA	1650	G	P-O3'-C3'	-5.57	113.02	119.70
35	BB	555	G	C1'-O4'-C4'	-5.57	105.45	109.90
35	BB	571	C	C1'-O4'-C4'	-5.57	105.45	109.90
35	BB	1119	G	C5'-C4'-O4'	5.57	115.78	109.10
35	BB	1227	G	O5'-P-OP2	5.57	117.38	110.70
38	BE	45	G	O5'-C5'-C4'	-5.57	101.13	111.70
40	BG	156	G	N3-C4-N9	-5.57	122.66	126.00
85	AA	153	C	P-O5'-C5'	-5.57	112.00	120.90
85	AA	195	C	C1'-O4'-C4'	-5.57	105.45	109.90
85	AA	485	A	C1'-O4'-C4'	-5.57	105.45	109.90
85	AA	695	A	O3'-P-O5'	-5.57	93.43	104.00
85	AA	1116	G	C6-N1-C2	-5.57	121.76	125.10
85	AA	1221	G	C3'-C2'-C1'	-5.57	97.05	101.50
85	AA	1634	U	N3-C2-O2	-5.57	118.31	122.20
85	AA	1898	C	P-O5'-C5'	-5.57	111.99	120.90
85	AA	1962	U	C6-N1-C2	-5.57	117.66	121.00
85	AA	2016	A	P-O3'-C3'	-5.57	113.02	119.70
85	AA	2044	A	N1-C6-N6	5.57	121.94	118.60
85	AA	2071	U	O5'-C5'-C4'	-5.57	101.12	111.70
34	BA	2	A	C8-N9-C1'	5.56	137.72	127.70
34	BA	621	G	C8-N9-C4	-5.56	104.17	106.40
34	BA	718	U	C1'-O4'-C4'	-5.56	105.45	109.90
34	BA	749	G	C8-N9-C4	5.56	108.62	106.40
34	BA	1101	A	C3'-C2'-C1'	-5.56	97.05	101.50
34	BA	1459	U	C4'-C3'-C2'	-5.56	97.04	102.60
35	BB	505	G	N3-C2-N2	5.56	123.80	119.90
35	BB	1264	U	C1'-O4'-C4'	-5.56	105.45	109.90
47	BN	209	ARG	NE-CZ-NH1	5.56	123.08	120.30
85	AA	634	U	C6-N1-C1'	5.56	128.99	121.20
85	AA	2000	C	O3'-P-O5'	-5.56	93.43	104.00
85	AA	2230	U	C6-N1-C2	-5.56	117.66	121.00
15	AG	121	ARG	CG-CD-NE	-5.56	100.12	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AM	90	ASP	C-N-CD	-5.56	108.36	120.60
24	AQ	77	TYR	CA-CB-CG	-5.56	102.83	113.40
34	BA	206	C	C5'-C4'-C3'	5.56	124.90	116.00
34	BA	719	G	P-O5'-C5'	-5.56	112.00	120.90
34	BA	1282	G	N1-C2-N2	5.56	121.21	116.20
34	BA	1291	A	C8-N9-C4	5.56	108.03	105.80
34	BA	1295	U	C2'-C3'-O3'	5.56	122.60	113.70
34	BA	1363	A	C8-N9-C4	5.56	108.03	105.80
34	BA	1573	C	O4'-C1'-C2'	5.56	112.61	107.60
35	BB	829	C	C2-N1-C1'	-5.56	112.68	118.80
35	BB	1288	G	C3'-C2'-C1'	-5.56	97.05	101.50
36	BC	169	G	C4'-C3'-C2'	-5.56	97.04	102.60
40	BG	99	A	C3'-C2'-C1'	-5.56	97.05	101.50
42	BI	71	MET	CB-CA-C	5.56	121.53	110.40
72	Bm	26	THR	C-N-CA	5.56	135.60	121.70
85	AA	138	C	O4'-C4'-C3'	-5.56	98.44	104.00
85	AA	164	G	C4'-C3'-C2'	-5.56	97.04	102.60
85	AA	174	U	C2'-C3'-O3'	5.56	122.60	113.70
85	AA	289	G	P-O3'-C3'	-5.56	113.03	119.70
85	AA	431	G	N1-C6-O6	5.56	123.24	119.90
85	AA	782	G	C4-N9-C1'	-5.56	119.27	126.50
85	AA	1467	U	C5'-C4'-C3'	-5.56	107.10	116.00
85	AA	1928	A	N7-C8-N9	-5.56	111.02	113.80
85	AA	2027	U	C6-N1-C2	-5.56	117.66	121.00
21	AM	109	ARG	NE-CZ-NH2	-5.56	117.52	120.30
34	BA	94	G	N9-C1'-C2'	-5.56	105.88	112.00
34	BA	1502	G	C1'-O4'-C4'	-5.56	105.45	109.90
35	BB	886	G	C8-N9-C4	-5.56	104.18	106.40
53	BT	121	ARG	NE-CZ-NH1	5.56	123.08	120.30
54	BU	52	MET	CG-SD-CE	-5.56	91.30	100.20
85	AA	161	A	N1-C6-N6	5.56	121.94	118.60
85	AA	830	A	O5'-C5'-C4'	5.56	122.27	111.70
85	AA	848	C	C5'-C4'-C3'	-5.56	107.10	116.00
85	AA	1224	C	C6-N1-C1'	5.56	127.47	120.80
85	AA	1283	C	C5-C4-N4	5.56	124.09	120.20
85	AA	1922	A	P-O5'-C5'	-5.56	112.00	120.90
85	AA	2147	A	C3'-C2'-C1'	-5.56	97.05	101.50
5	A4	68	TYR	CA-CB-CG	-5.56	102.83	113.40
22	AO	134	LYS	CB-CA-C	5.56	121.52	110.40
34	BA	167	U	C3'-C2'-C1'	-5.56	97.05	101.50
34	BA	619	U	O3'-P-O5'	-5.56	93.44	104.00
34	BA	801	U	C6-N1-C1'	5.56	128.98	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1194	G	N9-C1'-C2'	-5.56	105.88	112.00
35	BB	130	G	N3-C2-N2	5.56	123.79	119.90
35	BB	377	A	O5'-C5'-C4'	-5.56	101.14	111.70
35	BB	539	G	O4'-C1'-N9	5.56	112.65	108.20
35	BB	779	C	C5-C6-N1	-5.56	118.22	121.00
35	BB	1036	G	N9-C1'-C2'	-5.56	105.89	112.00
35	BB	1155	U	N1-C2-O2	5.56	126.69	122.80
35	BB	1169	A	P-O5'-C5'	5.56	129.80	120.90
35	BB	1178	A	C8-N9-C4	5.56	108.02	105.80
37	BD	58	G	C3'-C2'-C1'	-5.56	97.05	101.50
38	BE	88	G	O3'-P-O5'	5.56	114.56	104.00
40	BG	159	A	C5'-C4'-C3'	-5.56	107.10	116.00
60	Ba	51	LYS	N-CA-C	5.56	126.01	111.00
62	Bc	111	ARG	NE-CZ-NH2	5.56	123.08	120.30
64	Be	123	ARG	N-CA-CB	5.56	120.61	110.60
81	Bv	186	ALA	CB-CA-C	5.56	118.44	110.10
85	AA	198	U	N1-C2-N3	5.56	118.24	114.90
85	AA	269	G	C5'-C4'-C3'	-5.56	107.10	116.00
85	AA	332	A	N9-C4-C5	-5.56	103.58	105.80
85	AA	1459	C	O5'-C5'-C4'	-5.56	101.14	111.70
85	AA	1844	A	C5-C6-N1	5.56	120.48	117.70
85	AA	1938	G	N9-C1'-C2'	-5.56	105.89	112.00
86	AB	8	U	O4'-C4'-C3'	-5.56	98.44	104.00
1	A0	83	TYR	CA-CB-CG	5.56	123.96	113.40
15	AG	136	PRO	N-CA-C	-5.56	97.65	112.10
34	BA	458	G	C4'-C3'-C2'	-5.56	97.04	102.60
34	BA	970	U	P-O3'-C3'	-5.56	113.03	119.70
34	BA	1176	C	C2-N1-C1'	-5.56	112.69	118.80
35	BB	654	C	C4'-C3'-C2'	5.56	108.16	102.60
35	BB	791	A	O4'-C1'-C2'	-5.56	100.24	105.80
35	BB	1013	U	C3'-C2'-C1'	-5.56	97.06	101.50
35	BB	1306	G	N1-C2-N2	-5.56	111.20	116.20
35	BB	1451	C	C6-N1-C2	-5.56	118.08	120.30
35	BB	1462	G	C3'-C2'-C1'	5.56	105.95	101.50
36	BC	37	U	P-O5'-C5'	-5.56	112.01	120.90
37	BD	53	U	C1'-O4'-C4'	5.56	114.35	109.90
37	BD	73	U	O4'-C1'-C2'	5.56	112.60	107.60
85	AA	999	A	C5'-C4'-O4'	5.56	115.77	109.10
85	AA	1115	G	OP1-P-O3'	5.56	117.43	105.20
85	AA	1258	U	C2-N1-C1'	-5.56	111.03	117.70
35	BB	868	C	C2-N1-C1'	-5.56	112.69	118.80
35	BB	1048	A	O4'-C1'-N9	5.56	112.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1089	A	C4'-C3'-C2'	5.56	108.16	102.60
35	BB	1432	U	C5-C6-N1	-5.56	119.92	122.70
38	BE	148	C	C4'-C3'-C2'	-5.56	97.04	102.60
67	Bh	53	TYR	CB-CG-CD1	5.56	124.33	121.00
85	AA	101	C	P-O3'-C3'	5.56	126.37	119.70
85	AA	390	U	O3'-P-O5'	-5.56	93.44	104.00
85	AA	444	U	C1'-O4'-C4'	-5.56	105.45	109.90
85	AA	559	G	C5-C6-O6	-5.56	125.27	128.60
85	AA	638	G	C5'-C4'-C3'	-5.56	107.11	116.00
85	AA	744	C	C6-N1-C1'	-5.56	114.13	120.80
85	AA	917	A	P-O5'-C5'	-5.56	112.01	120.90
85	AA	1090	A	C4'-C3'-C2'	-5.56	97.04	102.60
5	A4	155	MET	CG-SD-CE	-5.55	91.31	100.20
23	AP	225	PHE	CB-CG-CD1	5.55	124.69	120.80
34	BA	2	A	N9-C1'-C2'	-5.55	105.89	112.00
34	BA	1082	U	C4'-C3'-C2'	-5.55	97.05	102.60
34	BA	1527	G	C8-N9-C4	5.55	108.62	106.40
34	BA	1831	A	C3'-C2'-C1'	5.55	105.94	101.50
35	BB	27	C	N1-C2-O2	5.55	122.23	118.90
35	BB	578	G	P-O3'-C3'	-5.55	113.03	119.70
35	BB	1438	U	O4'-C1'-N1	5.55	112.64	108.20
37	BD	11	A	O4'-C1'-N9	5.55	112.64	108.20
40	BG	152	G	C8-N9-C1'	5.55	134.22	127.00
41	BH	74	G	N7-C8-N9	5.55	115.88	113.10
85	AA	188	G	C1'-O4'-C4'	-5.55	105.46	109.90
85	AA	323	U	O5'-C5'-C4'	-5.55	101.14	111.70
85	AA	1549	G	C3'-C2'-C1'	-5.55	97.06	101.50
85	AA	1922	A	C4'-C3'-C2'	-5.55	97.05	102.60
34	BA	205	G	C5'-C4'-C3'	5.55	124.89	116.00
34	BA	217	C	O4'-C1'-N1	5.55	112.64	108.20
34	BA	285	C	C6-N1-C2	-5.55	118.08	120.30
34	BA	595	U	C2-N1-C1'	5.55	124.36	117.70
34	BA	759	A	C4-C5-C6	-5.55	114.22	117.00
34	BA	1006	G	C5-C6-O6	5.55	131.93	128.60
34	BA	1518	A	C6-C5-N7	-5.55	128.41	132.30
35	BB	524	C	O4'-C4'-C3'	-5.55	98.45	104.00
35	BB	1535	G	P-O3'-C3'	5.55	126.36	119.70
85	AA	293	A	C5-C6-N6	-5.55	119.26	123.70
85	AA	1432	C	C1'-O4'-C4'	5.55	114.34	109.90
85	AA	1521	U	C4'-C3'-O3'	-5.55	97.74	109.40
1	A0	49	ASN	CA-CB-CG	-5.55	101.19	113.40
34	BA	699	G	N1-C6-O6	5.55	123.23	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	856	G	N1-C6-O6	-5.55	116.57	119.90
34	BA	1063	G	N3-C2-N2	5.55	123.79	119.90
34	BA	1315	C	C1'-O4'-C4'	-5.55	105.46	109.90
34	BA	1592	U	C5'-C4'-O4'	5.55	115.76	109.10
35	BB	137	A	C4'-C3'-C2'	-5.55	97.05	102.60
35	BB	537	A	C5'-C4'-C3'	-5.55	107.12	116.00
35	BB	576	A	C5-C6-N1	5.55	120.48	117.70
35	BB	1005	A	O5'-C5'-C4'	-5.55	101.15	111.70
35	BB	1294	C	P-O5'-C5'	-5.55	112.02	120.90
38	BE	52	U	C1'-O4'-C4'	-5.55	105.46	109.90
53	BT	80	ARG	NE-CZ-NH2	-5.55	117.52	120.30
79	Bt	62	ALA	N-CA-C	5.55	125.99	111.00
85	AA	585	G	C8-N9-C4	5.55	108.62	106.40
85	AA	612	A	O4'-C1'-N9	5.55	112.64	108.20
85	AA	738	C	C2-N1-C1'	5.55	124.91	118.80
85	AA	889	G	O4'-C1'-N9	5.55	112.64	108.20
85	AA	1148	G	C5-C6-O6	-5.55	125.27	128.60
85	AA	1621	U	O4'-C1'-N1	5.55	112.64	108.20
85	AA	1865	C	C1'-O4'-C4'	-5.55	105.46	109.90
85	AA	1986	G	C5'-C4'-C3'	-5.55	107.12	116.00
85	AA	2064	A	C1'-O4'-C4'	-5.55	105.46	109.90
18	AJ	5	SER	N-CA-CB	5.55	118.82	110.50
34	BA	294	C	N3-C2-O2	-5.55	118.02	121.90
34	BA	366	G	N1-C6-O6	-5.55	116.57	119.90
34	BA	527	C	C5-C4-N4	-5.55	116.31	120.20
34	BA	693	G	C8-N9-C4	-5.55	104.18	106.40
34	BA	702	G	O4'-C1'-C2'	5.55	112.59	107.60
34	BA	815	C	OP1-P-OP2	-5.55	111.27	119.60
34	BA	1021	U	C2-N1-C1'	5.55	124.36	117.70
34	BA	1252	G	C5-C6-N1	5.55	114.27	111.50
34	BA	1337	A	O4'-C1'-N9	5.55	112.64	108.20
34	BA	1569	C	C2-N1-C1'	-5.55	112.70	118.80
34	BA	1604	A	C5-N7-C8	-5.55	101.12	103.90
34	BA	1718	C	C4'-C3'-C2'	5.55	108.15	102.60
35	BB	110	U	O5'-C5'-C4'	-5.55	101.16	111.70
35	BB	576	A	O3'-P-O5'	-5.55	93.45	104.00
35	BB	608	A	C8-N9-C4	5.55	108.02	105.80
35	BB	767	A	O3'-P-O5'	-5.55	93.46	104.00
35	BB	1033	U	O4'-C1'-N1	5.55	112.64	108.20
35	BB	1282	G	O5'-C5'-C4'	-5.55	101.16	111.70
35	BB	1546	C	C6-N1-C1'	5.55	127.46	120.80
36	BC	162	C	C1'-O4'-C4'	-5.55	105.46	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	83	U	OP1-P-OP2	-5.55	111.27	119.60
42	BI	17	HIS	CA-C-N	5.55	129.41	117.20
47	BN	70	TYR	CB-CG-CD2	5.55	124.33	121.00
85	AA	55	A	C1'-O4'-C4'	-5.55	105.46	109.90
85	AA	91	U	C5'-C4'-C3'	5.55	124.88	116.00
85	AA	655	U	P-O5'-C5'	5.55	129.78	120.90
85	AA	1222	A	C6-N1-C2	-5.55	115.27	118.60
85	AA	1591	U	C4'-C3'-C2'	-5.55	97.05	102.60
85	AA	1765	G	O3'-P-O5'	-5.55	93.45	104.00
85	AA	2090	C	C1'-O4'-C4'	-5.55	105.46	109.90
85	AA	2114	U	C1'-O4'-C4'	-5.55	105.46	109.90
34	BA	917	C	N3-C2-O2	-5.55	118.02	121.90
34	BA	968	G	C4-N9-C1'	-5.55	119.29	126.50
35	BB	83	G	N1-C6-O6	5.55	123.23	119.90
35	BB	145	G	C5'-C4'-C3'	5.55	124.88	116.00
35	BB	659	C	O5'-C5'-C4'	-5.55	101.16	111.70
44	BK	55	ARG	NE-CZ-NH1	5.55	123.07	120.30
85	AA	1235	G	C1'-O4'-C4'	-5.55	105.46	109.90
85	AA	1909	C	N3-C2-O2	-5.55	118.02	121.90
34	BA	182	U	O5'-C5'-C4'	-5.55	101.16	111.70
34	BA	483	A	C5'-C4'-O4'	5.55	115.75	109.10
34	BA	504	A	C4-N9-C1'	-5.55	116.31	126.30
34	BA	828	A	C4-N9-C1'	-5.55	116.32	126.30
35	BB	6	A	O4'-C1'-C2'	5.55	112.59	107.60
36	BC	122	A	C5'-C4'-C3'	-5.55	107.13	116.00
37	BD	69	U	C3'-C2'-C1'	-5.55	97.06	101.50
38	BE	121	G	P-O5'-C5'	-5.55	112.02	120.90
52	BS	134	HIS	CA-CB-CG	-5.55	104.17	113.60
56	BW	14	ARG	NE-CZ-NH1	5.55	123.07	120.30
85	AA	576	U	P-O3'-C3'	-5.55	113.04	119.70
85	AA	1855	U	C4'-C3'-O3'	-5.55	97.75	109.40
34	BA	306	G	N3-C4-C5	-5.54	125.83	128.60
34	BA	1419	A	C5'-C4'-O4'	-5.54	102.45	109.10
34	BA	1654	G	C8-N9-C1'	5.54	134.21	127.00
36	BC	149	A	C8-N9-C4	-5.54	103.58	105.80
38	BE	91	G	C3'-C2'-C1'	-5.54	97.06	101.50
40	BG	16	G	C5-N7-C8	5.54	107.07	104.30
65	Bf	233	HIS	C-N-CA	5.54	135.56	121.70
85	AA	329	G	C8-N9-C4	5.54	108.62	106.40
85	AA	849	A	N9-C1'-C2'	-5.54	105.90	112.00
85	AA	1624	U	O4'-C1'-C2'	5.54	112.59	107.60
34	BA	499	C	P-O5'-C5'	5.54	129.77	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1064	A	C5-C6-N1	5.54	120.47	117.70
34	BA	1708	A	C5-C6-N6	-5.54	119.27	123.70
35	BB	401	U	C6-N1-C2	5.54	124.33	121.00
35	BB	788	U	C5-C6-N1	-5.54	119.93	122.70
35	BB	805	G	C5'-C4'-C3'	5.54	124.87	116.00
35	BB	1013	U	O4'-C1'-N1	5.54	112.64	108.20
35	BB	1340	U	O4'-C1'-N1	5.54	112.64	108.20
40	BG	136	G	O4'-C1'-N9	5.54	112.64	108.20
73	Bn	66	TYR	CB-CG-CD1	-5.54	117.67	121.00
77	Br	189	ARG	NE-CZ-NH1	5.54	123.07	120.30
85	AA	657	C	N1-C2-O2	5.54	122.23	118.90
85	AA	703	U	C4'-C3'-C2'	-5.54	97.06	102.60
85	AA	930	G	N9-C1'-C2'	5.54	121.21	114.00
85	AA	1062	U	C5'-C4'-O4'	5.54	115.75	109.10
85	AA	1549	G	C4-N9-C1'	-5.54	119.29	126.50
85	AA	1854	U	C5'-C4'-C3'	-5.54	107.13	116.00
85	AA	2095	U	C4'-C3'-C2'	5.54	108.14	102.60
34	BA	77	C	P-O3'-C3'	-5.54	113.05	119.70
34	BA	1190	A	C8-N9-C1'	5.54	137.67	127.70
34	BA	1306	U	C1'-O4'-C4'	-5.54	105.47	109.90
35	BB	392	G	C8-N9-C1'	5.54	134.21	127.00
35	BB	978	C	C6-N1-C2	-5.54	118.08	120.30
35	BB	1160	U	N1-C2-O2	5.54	126.68	122.80
35	BB	1196	A	C5-N7-C8	-5.54	101.13	103.90
35	BB	1202	G	OP2-P-O3'	5.54	117.39	105.20
35	BB	1297	G	P-O5'-C5'	-5.54	112.03	120.90
35	BB	1347	C	N3-C2-O2	-5.54	118.02	121.90
36	BC	65	G	C8-N9-C4	5.54	108.62	106.40
36	BC	154	A	P-O3'-C3'	-5.54	113.05	119.70
39	BF	32	G	C8-N9-C4	-5.54	104.18	106.40
40	BG	46	G	C5'-C4'-C3'	-5.54	107.13	116.00
40	BG	122	G	C8-N9-C1'	5.54	134.20	127.00
40	BG	139	U	N3-C4-O4	-5.54	115.52	119.40
42	BI	72	ARG	N-CA-CB	-5.54	100.62	110.60
42	BI	74	ARG	NE-CZ-NH2	-5.54	117.53	120.30
77	Br	6	SER	CB-CA-C	5.54	120.63	110.10
85	AA	233	C	P-O5'-C5'	-5.54	112.03	120.90
85	AA	1107	A	P-O3'-C3'	5.54	126.35	119.70
85	AA	2142	A	OP1-P-O3'	5.54	117.39	105.20
34	BA	1785	G	C8-N9-C1'	5.54	134.20	127.00
35	BB	959	C	C4'-C3'-C2'	-5.54	97.06	102.60
40	BG	105	A	O4'-C1'-C2'	5.54	112.59	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1163	G	C5'-C4'-O4'	5.54	115.75	109.10
30	AW	80	PHE	CB-CG-CD1	-5.54	116.92	120.80
34	BA	158	U	C5-C4-O4	5.54	129.22	125.90
34	BA	235	C	C5-C6-N1	5.54	123.77	121.00
34	BA	260	A	C5'-C4'-C3'	-5.54	107.14	116.00
34	BA	301	U	O5'-P-OP1	5.54	117.35	110.70
34	BA	519	G	O4'-C4'-C3'	-5.54	98.46	104.00
34	BA	527	C	C4-C5-C6	-5.54	114.63	117.40
34	BA	593	G	N9-C4-C5	5.54	107.61	105.40
34	BA	1139	G	C3'-C2'-C1'	-5.54	97.07	101.50
34	BA	1697	U	C2-N1-C1'	-5.54	111.05	117.70
34	BA	1832	A	C4'-C3'-C2'	-5.54	97.06	102.60
35	BB	1116	U	C1'-O4'-C4'	-5.54	105.47	109.90
35	BB	1327	U	P-O5'-C5'	-5.54	112.04	120.90
35	BB	1475	U	C3'-C2'-C1'	-5.54	97.07	101.50
36	BC	32	U	C3'-C2'-C1'	-5.54	97.07	101.50
36	BC	127	C	P-O3'-C3'	-5.54	113.05	119.70
57	BX	54	PHE	CB-CG-CD2	-5.54	116.92	120.80
62	Bc	18	PHE	CB-CA-C	5.54	121.48	110.40
85	AA	138	C	P-O3'-C3'	-5.54	113.05	119.70
85	AA	479	C	C1'-O4'-C4'	-5.54	105.47	109.90
85	AA	575	G	C5'-C4'-C3'	-5.54	107.14	116.00
85	AA	981	A	P-O5'-C5'	-5.54	112.04	120.90
85	AA	1130	G	O5'-C5'-C4'	-5.54	101.17	111.70
85	AA	1178	A	C5'-C4'-C3'	5.54	124.86	116.00
85	AA	1359	U	N3-C2-O2	-5.54	118.32	122.20
85	AA	1456	A	C8-N9-C1'	-5.54	117.73	127.70
85	AA	1507	G	C4'-C3'-C2'	-5.54	97.06	102.60
85	AA	1540	A	C5-N7-C8	-5.54	101.13	103.90
85	AA	1580	A	C4-C5-C6	-5.54	114.23	117.00
85	AA	1794	U	O4'-C4'-C3'	5.54	110.53	106.10
12	AD	31	GLY	N-CA-C	5.54	126.94	113.10
20	AL	82	MET	C-N-CA	5.54	135.54	121.70
34	BA	652	C	C3'-C2'-C1'	-5.54	97.07	101.50
34	BA	1418	G	O5'-C5'-C4'	-5.54	101.18	111.70
35	BB	10	C	C6-N1-C1'	5.54	127.44	120.80
35	BB	370	A	C5'-C4'-C3'	-5.54	107.14	116.00
35	BB	660	G	C8-N9-C1'	5.54	134.20	127.00
35	BB	1149	A	P-O3'-C3'	-5.54	113.06	119.70
37	BD	29	C	N3-C4-C5	5.54	124.11	121.90
37	BD	75	G	N9-C1'-C2'	-5.54	105.91	112.00
38	BE	196	C	C1'-O4'-C4'	-5.54	105.47	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	54	G	C3'-C2'-C1'	-5.54	97.07	101.50
84	By	117	LYS	N-CA-CB	-5.54	100.63	110.60
85	AA	1457	C	O4'-C1'-C2'	-5.54	100.26	105.80
85	AA	1608	U	P-O3'-C3'	-5.54	113.06	119.70
34	BA	220	U	C2-N1-C1'	-5.54	111.06	117.70
34	BA	1443	U	C5'-C4'-O4'	-5.54	102.46	109.10
35	BB	163	G	O4'-C1'-N9	5.54	112.63	108.20
35	BB	1295	A	C5'-C4'-C3'	-5.54	107.14	116.00
38	BE	208	G	C5-C6-O6	-5.54	125.28	128.60
85	AA	67	C	OP1-P-OP2	-5.54	111.30	119.60
85	AA	88	G	C5-C6-N1	5.54	114.27	111.50
85	AA	406	U	P-O3'-C3'	-5.54	113.06	119.70
85	AA	483	G	C5'-C4'-C3'	-5.54	107.14	116.00
85	AA	804	A	C8-N9-C4	5.54	108.01	105.80
85	AA	1085	U	C6-N1-C1'	5.54	128.95	121.20
85	AA	1086	U	N3-C2-O2	-5.54	118.33	122.20
85	AA	1861	A	P-O3'-C3'	-5.54	113.06	119.70
86	AB	41	C	C2-N3-C4	5.54	122.67	119.90
86	AB	60	U	OP2-P-O3'	5.54	117.38	105.20
7	A6	4	TYR	N-CA-CB	-5.53	100.64	110.60
34	BA	187	G	N9-C1'-C2'	-5.53	105.91	112.00
34	BA	226	A	O4'-C1'-N9	5.53	112.63	108.20
34	BA	1055	U	O5'-C5'-C4'	-5.53	101.19	111.70
34	BA	1273	U	C2-N3-C4	-5.53	123.68	127.00
34	BA	1297	G	N3-C4-C5	-5.53	125.83	128.60
34	BA	1322	A	C5-C6-N6	-5.53	119.27	123.70
34	BA	1412	G	N1-C2-N2	-5.53	111.22	116.20
34	BA	1822	U	C2-N1-C1'	5.53	124.34	117.70
35	BB	410	A	C8-N9-C4	5.53	108.01	105.80
35	BB	663	G	C5'-C4'-O4'	5.53	115.74	109.10
35	BB	1327	U	N1-C1'-C2'	-5.53	105.91	112.00
39	BF	37	C	O3'-P-O5'	-5.53	93.49	104.00
69	Bj	4	PRO	O-C-N	-5.53	113.84	122.70
71	Bl	126	PHE	CB-CG-CD2	-5.53	116.93	120.80
76	Bq	6	PRO	N-CA-C	5.53	126.49	112.10
85	AA	867	G	N3-C2-N2	5.53	123.77	119.90
85	AA	1544	G	C5'-C4'-C3'	-5.53	107.15	116.00
34	BA	618	G	O4'-C1'-N9	5.53	112.63	108.20
34	BA	721	A	P-O5'-C5'	-5.53	112.05	120.90
34	BA	805	A	OP1-P-OP2	-5.53	111.30	119.60
34	BA	1215	U	C5'-C4'-O4'	5.53	115.74	109.10
35	BB	693	U	C4'-C3'-C2'	-5.53	97.07	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1276	U	C5'-C4'-O4'	-5.53	102.46	109.10
35	BB	1430	G	N3-C2-N2	5.53	123.77	119.90
41	BH	105	U	O5'-C5'-C4'	-5.53	101.19	111.70
65	Bf	303	ARG	CG-CD-NE	-5.53	100.18	111.80
77	Br	291	MET	CG-SD-CE	-5.53	91.35	100.20
85	AA	506	G	C5-C6-O6	-5.53	125.28	128.60
85	AA	1202	G	P-O3'-C3'	-5.53	113.06	119.70
85	AA	2234	C	C2-N1-C1'	-5.53	112.71	118.80
13	AE	58	PHE	CB-CG-CD1	-5.53	116.93	120.80
34	BA	99	G	N3-C4-C5	-5.53	125.83	128.60
34	BA	174	A	C6-N1-C2	-5.53	115.28	118.60
34	BA	383	G	C5-C6-N1	5.53	114.27	111.50
34	BA	543	A	O5'-C5'-C4'	5.53	122.21	111.70
34	BA	627	U	N1-C1'-C2'	-5.53	105.92	112.00
34	BA	717	U	OP2-P-O3'	5.53	117.37	105.20
34	BA	1664	C	O4'-C1'-N1	5.53	112.62	108.20
34	BA	1793	G	N1-C6-O6	5.53	123.22	119.90
35	BB	1060	U	C5'-C4'-C3'	-5.53	107.15	116.00
35	BB	1486	C	O3'-P-O5'	-5.53	93.49	104.00
39	BF	48	G	C5-C6-N1	5.53	114.27	111.50
85	AA	50	C	N3-C2-O2	-5.53	118.03	121.90
85	AA	104	C	P-O5'-C5'	-5.53	112.05	120.90
85	AA	530	A	N1-C6-N6	-5.53	115.28	118.60
85	AA	1150	G	N1-C6-O6	5.53	123.22	119.90
85	AA	1715	C	C5'-C4'-O4'	5.53	115.74	109.10
85	AA	2111	C	C3'-C2'-C1'	-5.53	97.08	101.50
22	AO	106	PRO	C-N-CA	5.53	135.52	121.70
34	BA	1284	G	C3'-C2'-C1'	-5.53	97.08	101.50
35	BB	1473	U	P-O3'-C3'	-5.53	113.06	119.70
36	BC	14	G	O4'-C1'-C2'	5.53	112.58	107.60
48	BO	100	ARG	NE-CZ-NH2	-5.53	117.54	120.30
85	AA	463	G	P-O5'-C5'	-5.53	112.05	120.90
85	AA	1968	A	O4'-C1'-N9	5.53	112.62	108.20
85	AA	2139	G	C2'-C3'-O3'	5.53	122.55	113.70
34	BA	398	G	N1-C2-N3	-5.53	120.58	123.90
34	BA	664	C	C5-C6-N1	5.53	123.76	121.00
34	BA	790	G	N1-C6-O6	5.53	123.22	119.90
34	BA	1569	C	O4'-C1'-N1	5.53	112.62	108.20
34	BA	1816	G	OP1-P-O3'	5.53	117.36	105.20
35	BB	558	U	C2-N3-C4	-5.53	123.68	127.00
35	BB	1528	U	C2-N1-C1'	-5.53	111.07	117.70
37	BD	62	A	N1-C2-N3	-5.53	126.54	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	68	C	C1'-O4'-C4'	-5.53	105.48	109.90
37	BD	106	G	P-O3'-C3'	-5.53	113.07	119.70
64	Be	71	ARG	NE-CZ-NH1	5.53	123.06	120.30
80	Bu	193	SER	C-N-CA	5.53	135.52	121.70
85	AA	176	C	O4'-C1'-C2'	5.53	112.57	107.60
85	AA	206	U	P-O5'-C5'	5.53	129.74	120.90
85	AA	448	G	C8-N9-C1'	5.53	134.19	127.00
85	AA	737	G	C5-C6-O6	-5.53	125.28	128.60
85	AA	967	C	N3-C2-O2	-5.53	118.03	121.90
85	AA	1048	C	C6-N1-C2	-5.53	118.09	120.30
85	AA	1229	G	C5-C6-N1	5.53	114.26	111.50
85	AA	1369	U	C2-N1-C1'	-5.53	111.07	117.70
85	AA	2048	C	C3'-C2'-C1'	-5.53	97.08	101.50
4	A3	152	ARG	CG-CD-NE	-5.53	100.20	111.80
34	BA	281	C	C2'-C3'-O3'	5.53	122.54	113.70
34	BA	306	G	N1-C2-N2	-5.53	111.23	116.20
34	BA	557	U	N3-C2-O2	5.53	126.07	122.20
34	BA	825	G	C6-N1-C2	-5.53	121.78	125.10
34	BA	1125	G	C5-C6-O6	-5.53	125.28	128.60
34	BA	1497	A	O5'-P-OP1	-5.53	100.73	105.70
34	BA	1512	C	C5'-C4'-C3'	5.53	124.84	116.00
35	BB	471	U	C2-N1-C1'	-5.53	111.07	117.70
35	BB	1480	G	N3-C4-C5	-5.53	125.84	128.60
40	BG	11	G	O5'-P-OP1	-5.53	100.73	105.70
41	BH	124	C	P-O3'-C3'	-5.53	113.07	119.70
72	Bm	87	SER	N-CA-C	5.53	125.92	111.00
85	AA	1230	U	P-O5'-C5'	5.53	129.74	120.90
85	AA	1285	C	C6-N1-C2	-5.53	118.09	120.30
85	AA	1555	G	C8-N9-C1'	5.53	134.18	127.00
85	AA	1661	U	P-O5'-C5'	5.53	129.74	120.90
27	AT	121	ASN	N-CA-C	5.52	125.91	111.00
34	BA	492	G	C1'-O4'-C4'	-5.52	105.48	109.90
34	BA	803	U	C6-N1-C1'	5.52	128.93	121.20
34	BA	1141	C	C5'-C4'-C3'	-5.52	107.16	116.00
34	BA	1629	A	P-O3'-C3'	-5.52	113.07	119.70
35	BB	900	C	O4'-C1'-N1	5.52	112.62	108.20
35	BB	1108	G	O4'-C1'-N9	5.52	112.62	108.20
35	BB	1147	G	O5'-C5'-C4'	-5.52	101.20	111.70
35	BB	1166	A	N7-C8-N9	-5.52	111.04	113.80
35	BB	1218	G	N3-C4-N9	5.52	129.31	126.00
36	BC	63	G	C1'-O4'-C4'	-5.52	105.48	109.90
36	BC	71	A	OP1-P-OP2	-5.52	111.31	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	118	U	P-O3'-C3'	-5.52	113.07	119.70
49	BP	151	ALA	N-CA-C	-5.52	96.09	111.00
53	BT	163	ARG	NE-CZ-NH2	-5.52	117.54	120.30
54	BU	159	TYR	CB-CG-CD2	5.52	124.31	121.00
57	BX	68	PRO	C-N-CA	5.52	135.51	121.70
67	Bh	53	TYR	CA-CB-CG	5.52	123.90	113.40
80	Bu	204	ARG	NH1-CZ-NH2	-5.52	113.32	119.40
85	AA	1349	A	C3'-C2'-C1'	-5.52	97.08	101.50
85	AA	1477	A	N1-C6-N6	-5.52	115.28	118.60
34	BA	113	G	O4'-C4'-C3'	-5.52	98.48	104.00
34	BA	499	C	O3'-P-O5'	5.52	114.49	104.00
34	BA	603	U	C3'-C2'-C1'	5.52	105.92	101.50
34	BA	629	G	C5'-C4'-C3'	-5.52	107.17	116.00
34	BA	840	U	C5'-C4'-O4'	5.52	115.73	109.10
34	BA	934	G	C5-C6-N1	5.52	114.26	111.50
34	BA	1251	A	P-O5'-C5'	5.52	129.74	120.90
34	BA	1438	C	O3'-P-O5'	-5.52	93.51	104.00
34	BA	1535	G	P-O5'-C5'	-5.52	112.06	120.90
34	BA	1676	A	C5'-C4'-C3'	5.52	124.83	116.00
35	BB	909	U	C5'-C4'-C3'	5.52	124.84	116.00
35	BB	1147	G	C4-N9-C1'	-5.52	119.32	126.50
35	BB	1165	A	P-O3'-C3'	5.52	126.33	119.70
36	BC	7	U	C4-C5-C6	-5.52	116.39	119.70
38	BE	64	A	C1'-O4'-C4'	-5.52	105.48	109.90
41	BH	132	C	C6-N1-C2	-5.52	118.09	120.30
42	BI	189	ALA	N-CA-C	5.52	125.91	111.00
64	Be	80	GLU	C-N-CA	5.52	133.90	122.30
84	By	118	ARG	NE-CZ-NH1	5.52	123.06	120.30
85	AA	176	C	N3-C2-O2	-5.52	118.03	121.90
85	AA	348	G	P-O5'-C5'	5.52	129.74	120.90
85	AA	590	U	C5'-C4'-C3'	5.52	124.84	116.00
85	AA	1048	C	C2-N1-C1'	-5.52	112.72	118.80
85	AA	2030	U	C5'-C4'-O4'	5.52	115.73	109.10
85	AA	2170	G	N3-C2-N2	5.52	123.77	119.90
5	A4	90	ARG	NE-CZ-NH1	5.52	123.06	120.30
31	AX	63	ARG	C-N-CA	5.52	135.50	121.70
34	BA	282	A	C4'-C3'-C2'	-5.52	97.08	102.60
34	BA	584	A	O4'-C1'-N9	5.52	112.62	108.20
34	BA	1580	U	O3'-P-O5'	5.52	114.49	104.00
79	Bt	50	TYR	CB-CA-C	-5.52	99.36	110.40
85	AA	1448	A	C3'-C2'-C1'	5.52	105.92	101.50
8	A7	134	ARG	NE-CZ-NH2	-5.52	117.54	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AC	46	MET	CG-SD-CE	-5.52	91.37	100.20
34	BA	290	G	C5-C6-O6	-5.52	125.29	128.60
34	BA	398	G	N3-C4-N9	-5.52	122.69	126.00
34	BA	553	A	C5-C6-N6	-5.52	119.28	123.70
34	BA	702	G	C5-C6-N1	5.52	114.26	111.50
34	BA	823	G	C1'-O4'-C4'	-5.52	105.48	109.90
34	BA	939	C	N1-C2-O2	5.52	122.21	118.90
34	BA	1445	U	O5'-P-OP2	-5.52	100.73	105.70
34	BA	1496	G	C4-C5-C6	-5.52	115.49	118.80
35	BB	27	C	N1-C1'-C2'	-5.52	105.93	112.00
35	BB	1245	A	C5-C6-N6	5.52	128.12	123.70
35	BB	1458	U	OP1-P-OP2	-5.52	111.32	119.60
36	BC	76	C	O3'-P-O5'	5.52	114.49	104.00
36	BC	149	A	C5'-C4'-O4'	5.52	115.72	109.10
38	BE	13	A	C6-N1-C2	-5.52	115.29	118.60
38	BE	38	C	C1'-O4'-C4'	-5.52	105.48	109.90
40	BG	89	A	C1'-O4'-C4'	-5.52	105.48	109.90
85	AA	104	C	N3-C2-O2	-5.52	118.04	121.90
85	AA	192	G	N3-C2-N2	5.52	123.76	119.90
85	AA	271	A	N9-C1'-C2'	-5.52	105.93	112.00
85	AA	1908	A	C5-C6-N1	5.52	120.46	117.70
34	BA	687	G	N3-C2-N2	5.52	123.76	119.90
34	BA	1542	A	C6-N1-C2	-5.52	115.29	118.60
35	BB	392	G	N7-C8-N9	-5.52	110.34	113.10
35	BB	550	G	C8-N9-C1'	5.52	134.17	127.00
35	BB	1251	G	O5'-P-OP2	-5.52	100.73	105.70
35	BB	1289	G	O4'-C1'-N9	5.52	112.61	108.20
35	BB	1424	G	P-O5'-C5'	-5.52	112.07	120.90
37	BD	34	C	C5'-C4'-C3'	-5.52	107.17	116.00
38	BE	187	G	O4'-C1'-N9	5.52	112.61	108.20
40	BG	58	G	O3'-P-O5'	-5.52	93.52	104.00
80	Bu	269	ARG	NE-CZ-NH2	-5.52	117.54	120.30
85	AA	12	U	O5'-P-OP2	-5.52	100.73	105.70
85	AA	87	C	N3-C2-O2	-5.52	118.04	121.90
85	AA	651	G	C4-N9-C1'	-5.52	119.33	126.50
85	AA	1054	U	O4'-C1'-N1	5.52	112.61	108.20
85	AA	1214	C	OP1-P-OP2	-5.52	111.32	119.60
85	AA	1452	C	P-O3'-C3'	5.52	126.32	119.70
85	AA	1736	U	O5'-P-OP2	-5.52	100.73	105.70
34	BA	83	G	N3-C2-N2	5.52	123.76	119.90
34	BA	350	C	O4'-C1'-N1	5.52	112.61	108.20
34	BA	1278	A	C4-N9-C1'	-5.52	116.37	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1807	G	C8-N9-C4	-5.52	104.19	106.40
35	BB	52	G	C2'-C3'-O3'	5.52	122.53	113.70
35	BB	62	C	N3-C4-N4	5.52	121.86	118.00
35	BB	381	C	C2'-C3'-O3'	5.52	122.53	113.70
35	BB	1308	G	N1-C6-O6	5.52	123.21	119.90
36	BC	4	G	P-O5'-C5'	-5.52	112.08	120.90
36	BC	106	G	N3-C2-N2	5.52	123.76	119.90
53	BT	73	GLY	N-CA-C	-5.52	99.31	113.10
85	AA	476	C	P-O3'-C3'	-5.52	113.08	119.70
85	AA	584	G	C4-C5-N7	5.52	113.01	110.80
85	AA	709	A	O4'-C4'-C3'	-5.52	98.48	104.00
85	AA	2039	G	C4-C5-C6	-5.52	115.49	118.80
17	AI	107	ARG	NE-CZ-NH1	5.51	123.06	120.30
34	BA	58	A	N1-C2-N3	-5.51	126.54	129.30
34	BA	650	C	P-O3'-C3'	5.51	126.32	119.70
34	BA	664	C	N3-C2-O2	-5.51	118.04	121.90
34	BA	951	C	O4'-C4'-C3'	-5.51	98.49	104.00
34	BA	1250	C	O4'-C1'-C2'	5.51	112.56	107.60
34	BA	1511	C	C5'-C4'-C3'	-5.51	107.18	116.00
35	BB	813	C	N1-C1'-C2'	-5.51	105.94	112.00
36	BC	59	A	N1-C2-N3	-5.51	126.54	129.30
36	BC	132	U	O4'-C1'-N1	5.51	112.61	108.20
40	BG	21	C	C5'-C4'-O4'	5.51	115.72	109.10
42	BI	11	LYS	C-N-CA	5.51	135.49	121.70
85	AA	2	A	O4'-C1'-N9	5.51	112.61	108.20
85	AA	77	C	C1'-O4'-C4'	-5.51	105.49	109.90
85	AA	618	A	O4'-C4'-C3'	-5.51	98.48	104.00
85	AA	625	G	N1-C6-O6	5.51	123.21	119.90
85	AA	969	U	O5'-C5'-C4'	5.51	122.18	111.70
85	AA	1807	A	P-O3'-C3'	5.51	126.32	119.70
85	AA	1818	C	N3-C4-C5	-5.51	119.69	121.90
34	BA	467	A	O3'-P-O5'	-5.51	93.53	104.00
35	BB	827	U	C2-N1-C1'	-5.51	111.08	117.70
35	BB	1023	G	P-O5'-C5'	5.51	129.72	120.90
35	BB	1291	G	C5-C6-N1	5.51	114.26	111.50
39	BF	9	C	C6-N1-C1'	-5.51	114.18	120.80
39	BF	18	U	C3'-C2'-C1'	5.51	105.91	101.50
70	Bk	60	THR	CA-CB-CG2	5.51	120.12	112.40
77	Br	286	ASP	CB-CA-C	5.51	121.43	110.40
85	AA	277	G	P-O3'-C3'	-5.51	113.08	119.70
85	AA	324	U	P-O3'-C3'	-5.51	113.08	119.70
85	AA	838	G	P-O5'-C5'	-5.51	112.08	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1110	A	C1'-O4'-C4'	-5.51	105.49	109.90
85	AA	1203	G	C1'-O4'-C4'	-5.51	105.49	109.90
6	A5	18	THR	CA-CB-CG2	-5.51	104.69	112.40
34	BA	86	A	O5'-P-OP1	5.51	117.31	110.70
34	BA	384	U	C1'-O4'-C4'	-5.51	105.49	109.90
34	BA	1095	G	P-O3'-C3'	-5.51	113.08	119.70
34	BA	1481	U	P-O3'-C3'	-5.51	113.09	119.70
34	BA	1619	U	O3'-P-O5'	-5.51	93.53	104.00
35	BB	10	C	C3'-C2'-C1'	-5.51	97.09	101.50
35	BB	659	C	O4'-C4'-C3'	5.51	110.51	106.10
35	BB	1001	G	N9-C1'-C2'	-5.51	105.94	112.00
35	BB	1392	A	OP2-P-O3'	5.51	117.32	105.20
35	BB	1521	G	C4-N9-C1'	-5.51	119.33	126.50
39	BF	7	G	N3-C4-N9	5.51	129.31	126.00
51	BR	135	ARG	NE-CZ-NH1	5.51	123.06	120.30
85	AA	648	G	C5'-C4'-C3'	-5.51	107.18	116.00
85	AA	735	G	N7-C8-N9	5.51	115.86	113.10
85	AA	1549	G	C1'-O4'-C4'	-5.51	105.49	109.90
85	AA	1891	U	N1-C2-N3	5.51	118.21	114.90
85	AA	2227	A	N1-C2-N3	-5.51	126.54	129.30
15	AG	71	ILE	CB-CA-C	-5.51	100.58	111.60
22	AO	153	PHE	CB-CG-CD2	-5.51	116.94	120.80
34	BA	656	U	C6-N1-C2	-5.51	117.69	121.00
34	BA	864	G	OP1-P-O3'	5.51	117.32	105.20
34	BA	1064	A	C3'-C2'-C1'	-5.51	97.09	101.50
34	BA	1121	U	OP2-P-O3'	5.51	117.32	105.20
34	BA	1463	U	C6-N1-C1'	5.51	128.91	121.20
35	BB	72	G	N1-C6-O6	-5.51	116.59	119.90
35	BB	88	U	C4'-C3'-C2'	-5.51	97.09	102.60
35	BB	781	U	O5'-P-OP1	-5.51	100.74	105.70
35	BB	1215	U	C5'-C4'-C3'	-5.51	107.19	116.00
35	BB	1374	U	N3-C2-O2	-5.51	118.34	122.20
35	BB	1480	G	C2-N3-C4	-5.51	109.15	111.90
39	BF	52	A	P-O5'-C5'	5.51	129.72	120.90
65	Bf	377	ASN	CB-CA-C	-5.51	99.38	110.40
83	Bx	265	ARG	NE-CZ-NH2	-5.51	117.55	120.30
85	AA	152	A	C6-C5-N7	-5.51	128.44	132.30
85	AA	154	U	C1'-O4'-C4'	-5.51	105.49	109.90
85	AA	351	C	C1'-O4'-C4'	-5.51	105.49	109.90
85	AA	433	U	C4'-C3'-C2'	-5.51	97.09	102.60
85	AA	441	C	P-O3'-C3'	5.51	126.31	119.70
85	AA	1355	U	C2-N1-C1'	-5.51	111.09	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2219	G	C5'-C4'-O4'	5.51	115.71	109.10
85	AA	2237	G	N3-C2-N2	5.51	123.76	119.90
34	BA	513	U	O3'-P-O5'	-5.51	93.53	104.00
34	BA	770	G	N3-C4-C5	-5.51	125.85	128.60
34	BA	877	U	N3-C2-O2	-5.51	118.34	122.20
34	BA	1816	G	C8-N9-C4	5.51	108.60	106.40
35	BB	1053	G	N9-C1'-C2'	-5.51	105.94	112.00
35	BB	1205	A	C5-C6-N6	-5.51	119.29	123.70
39	BF	16	C	OP2-P-O3'	5.51	117.32	105.20
85	AA	754	C	C4'-C3'-C2'	5.51	108.11	102.60
85	AA	1539	A	C5-C6-N6	-5.51	119.29	123.70
85	AA	1612	C	O3'-P-O5'	-5.51	93.53	104.00
85	AA	1762	G	O4'-C1'-N9	5.51	112.61	108.20
85	AA	2135	A	C4-N9-C1'	-5.51	116.39	126.30
7	A6	68	ARG	N-CA-CB	-5.51	100.69	110.60
34	BA	7	U	O5'-P-OP1	5.51	117.31	110.70
34	BA	160	G	OP1-P-OP2	-5.51	111.34	119.60
34	BA	983	A	N9-C1'-C2'	-5.51	105.94	112.00
34	BA	1321	A	N9-C1'-C2'	-5.51	105.94	112.00
35	BB	268	G	P-O5'-C5'	5.51	129.71	120.90
35	BB	364	U	O4'-C1'-N1	5.51	112.61	108.20
35	BB	376	A	P-O5'-C5'	-5.51	112.09	120.90
35	BB	668	A	C4'-C3'-C2'	-5.51	97.09	102.60
35	BB	738	G	C4-N9-C1'	-5.51	119.34	126.50
35	BB	1039	A	C2'-C3'-O3'	5.51	122.51	113.70
35	BB	1077	C	P-O5'-C5'	-5.51	112.09	120.90
35	BB	1464	G	C8-N9-C4	-5.51	104.20	106.40
36	BC	100	U	O4'-C1'-N1	5.51	112.61	108.20
37	BD	53	U	C2-N1-C1'	-5.51	111.09	117.70
39	BF	11	C	OP1-P-OP2	-5.51	111.34	119.60
50	BQ	146	TRP	CA-CB-CG	-5.51	103.24	113.70
84	By	45	ARG	CG-CD-NE	-5.51	100.23	111.80
85	AA	506	G	C8-N9-C4	5.51	108.60	106.40
85	AA	2172	A	C4-N9-C1'	5.51	136.21	126.30
26	AS	61	GLN	N-CA-C	-5.50	96.14	111.00
34	BA	92	G	C3'-C2'-C1'	-5.50	97.10	101.50
34	BA	290	G	O4'-C1'-N9	5.50	112.60	108.20
34	BA	739	A	P-O5'-C5'	-5.50	112.09	120.90
34	BA	759	A	P-O3'-C3'	-5.50	113.09	119.70
34	BA	811	C	O4'-C1'-N1	5.50	112.60	108.20
36	BC	104	A	C5'-C4'-O4'	5.50	115.71	109.10
36	BC	149	A	C5'-C4'-C3'	-5.50	107.19	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	151	C	C2'-C3'-O3'	5.50	122.51	113.70
49	BP	76	GLU	N-CA-CB	-5.50	100.69	110.60
58	BY	5	ASP	CA-CB-CG	-5.50	101.29	113.40
85	AA	250	C	C1'-O4'-C4'	-5.50	105.50	109.90
85	AA	402	G	O3'-P-O5'	5.50	114.46	104.00
85	AA	636	G	C1'-O4'-C4'	-5.50	105.50	109.90
85	AA	1474	U	O4'-C1'-C2'	-5.50	100.30	105.80
85	AA	1549	G	P-O3'-C3'	-5.50	113.09	119.70
34	BA	193	C	N1-C1'-C2'	-5.50	105.95	112.00
34	BA	243	C	C3'-C2'-C1'	-5.50	97.10	101.50
34	BA	587	U	O3'-P-O5'	-5.50	93.54	104.00
34	BA	676	G	C8-N9-C4	-5.50	104.20	106.40
34	BA	762	A	P-O5'-C5'	5.50	129.71	120.90
34	BA	1221	A	N7-C8-N9	-5.50	111.05	113.80
34	BA	1498	A	N9-C1'-C2'	-5.50	105.95	112.00
34	BA	1545	C	O5'-C5'-C4'	-5.50	101.25	111.70
34	BA	1585	A	N1-C6-N6	-5.50	115.30	118.60
35	BB	603	U	N1-C1'-C2'	-5.50	105.95	112.00
35	BB	686	A	C4'-C3'-C2'	5.50	108.10	102.60
35	BB	770	G	C8-N9-C1'	5.50	134.15	127.00
35	BB	1070	G	C4-N9-C1'	-5.50	119.35	126.50
85	AA	4	C	C3'-C2'-C1'	-5.50	97.10	101.50
85	AA	1356	U	C5-C4-O4	-5.50	122.60	125.90
85	AA	2079	U	O4'-C1'-N1	5.50	112.60	108.20
85	AA	2204	A	O4'-C1'-N9	5.50	112.60	108.20
34	BA	72	U	C4'-C3'-C2'	5.50	108.10	102.60
34	BA	691	A	N9-C1'-C2'	-5.50	105.95	112.00
34	BA	811	C	C3'-C2'-C1'	-5.50	97.10	101.50
34	BA	902	C	C5'-C4'-C3'	-5.50	107.20	116.00
34	BA	1295	U	OP1-P-O3'	5.50	117.30	105.20
35	BB	12	G	N1-C6-O6	-5.50	116.60	119.90
35	BB	50	A	N7-C8-N9	-5.50	111.05	113.80
35	BB	156	G	C5-C6-O6	-5.50	125.30	128.60
35	BB	471	U	C6-N1-C2	-5.50	117.70	121.00
35	BB	484	G	O5'-C5'-C4'	5.50	122.15	111.70
35	BB	845	C	C6-N1-C2	-5.50	118.10	120.30
35	BB	878	G	C4'-C3'-C2'	5.50	108.10	102.60
35	BB	1049	G	C4-N9-C1'	-5.50	119.35	126.50
35	BB	1200	A	N9-C1'-C2'	-5.50	105.95	112.00
68	Bi	106	ARG	CD-NE-CZ	-5.50	115.90	123.60
85	AA	16	G	N7-C8-N9	-5.50	110.35	113.10
85	AA	364	C	C5'-C4'-C3'	-5.50	107.20	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1195	U	O4'-C1'-N1	5.50	112.60	108.20
85	AA	1337	A	C1'-O4'-C4'	-5.50	105.50	109.90
85	AA	1433	C	O4'-C1'-N1	5.50	112.60	108.20
85	AA	1802	U	C2-N3-C4	-5.50	123.70	127.00
85	AA	2034	G	N1-C6-O6	5.50	123.20	119.90
85	AA	2149	C	C5'-C4'-O4'	5.50	115.70	109.10
35	BB	688	U	C2'-C3'-O3'	5.50	122.50	113.70
35	BB	1283	C	C1'-O4'-C4'	-5.50	105.50	109.90
85	AA	863	C	C3'-C2'-C1'	-5.50	97.10	101.50
85	AA	1115	G	N1-C2-N3	5.50	127.20	123.90
86	AB	20	U	N1-C1'-C2'	-5.50	105.95	112.00
34	BA	520	G	C8-N9-C1'	5.50	134.15	127.00
34	BA	996	U	O4'-C1'-C2'	5.50	112.55	107.60
35	BB	520	G	N3-C2-N2	5.50	123.75	119.90
35	BB	802	G	C5'-C4'-O4'	5.50	115.70	109.10
35	BB	1146	C	C5'-C4'-O4'	5.50	115.70	109.10
35	BB	1371	G	O4'-C1'-C2'	5.50	112.55	107.60
35	BB	1393	C	C2-N1-C1'	5.50	124.85	118.80
35	BB	1395	G	N9-C1'-C2'	-5.50	105.95	112.00
35	BB	1462	G	C4'-C3'-C2'	-5.50	97.10	102.60
36	BC	8	C	O5'-C5'-C4'	-5.50	101.25	111.70
36	BC	68	A	C1'-O4'-C4'	-5.50	105.50	109.90
36	BC	102	G	C1'-O4'-C4'	-5.50	105.50	109.90
38	BE	76	U	C5'-C4'-C3'	-5.50	107.20	116.00
42	BI	56	ARG	NE-CZ-NH2	-5.50	117.55	120.30
85	AA	447	C	N3-C4-N4	-5.50	114.15	118.00
85	AA	644	A	C5-C6-N6	-5.50	119.30	123.70
85	AA	676	U	C4'-C3'-C2'	5.50	108.10	102.60
85	AA	760	U	C6-N1-C1'	-5.50	113.50	121.20
85	AA	779	G	P-O5'-C5'	5.50	129.70	120.90
85	AA	929	G	C1'-O4'-C4'	5.50	114.30	109.90
85	AA	1082	U	C6-N1-C1'	-5.50	113.50	121.20
85	AA	1240	A	C8-N9-C4	5.50	108.00	105.80
85	AA	1558	U	N3-C4-O4	-5.50	115.55	119.40
86	AB	70	G	C5'-C4'-C3'	-5.50	107.20	116.00
7	A6	138	GLN	CB-CA-C	5.50	121.39	110.40
34	BA	49	A	C3'-C2'-C1'	-5.50	97.10	101.50
34	BA	229	C	O4'-C1'-N1	5.50	112.60	108.20
34	BA	476	U	P-O5'-C5'	-5.50	112.11	120.90
34	BA	800	G	N1-C2-N2	-5.50	111.25	116.20
34	BA	819	G	C1'-O4'-C4'	-5.50	105.50	109.90
34	BA	1299	G	N1-C2-N2	5.50	121.15	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1657	A	N9-C1'-C2'	-5.50	105.95	112.00
35	BB	803	U	O4'-C1'-N1	5.50	112.60	108.20
35	BB	838	G	O5'-P-OP2	5.50	117.30	110.70
35	BB	971	A	C5-C6-N6	-5.50	119.30	123.70
35	BB	1267	C	C5'-C4'-O4'	5.50	115.69	109.10
35	BB	1370	G	C4-N9-C1'	5.50	133.65	126.50
38	BE	34	C	N1-C2-N3	5.50	123.05	119.20
38	BE	153	C	N3-C4-N4	5.50	121.85	118.00
41	BH	10	U	C1'-O4'-C4'	-5.50	105.50	109.90
41	BH	104	U	N3-C4-C5	5.50	117.90	114.60
53	BT	166	ASP	N-CA-CB	-5.50	100.71	110.60
85	AA	670	C	O4'-C1'-N1	5.50	112.60	108.20
85	AA	1108	U	O4'-C1'-N1	5.50	112.60	108.20
85	AA	1484	G	N3-C2-N2	5.50	123.75	119.90
85	AA	1683	U	O3'-P-O5'	-5.50	93.56	104.00
85	AA	1982	C	C3'-C2'-C1'	5.50	105.90	101.50
86	AB	66	U	O5'-C5'-C4'	-5.50	101.26	111.70
34	BA	55	G	C8-N9-C4	-5.50	104.20	106.40
34	BA	174	A	C1'-O4'-C4'	-5.50	105.50	109.90
34	BA	516	U	N3-C4-C5	5.50	117.90	114.60
34	BA	840	U	P-O3'-C3'	-5.50	113.11	119.70
34	BA	1557	G	O5'-C5'-C4'	-5.50	101.26	111.70
35	BB	475	A	C4-C5-C6	-5.50	114.25	117.00
35	BB	1070	G	C8-N9-C1'	5.50	134.14	127.00
53	BT	97	ARG	NE-CZ-NH2	-5.50	117.55	120.30
85	AA	11	A	N1-C6-N6	-5.50	115.30	118.60
85	AA	416	U	N3-C4-C5	-5.50	111.30	114.60
85	AA	657	C	C5'-C4'-O4'	5.50	115.69	109.10
26	AS	134	TYR	CB-CA-C	5.49	121.39	110.40
34	BA	531	C	C5'-C4'-O4'	5.49	115.69	109.10
34	BA	941	G	C5'-C4'-O4'	5.49	115.69	109.10
34	BA	969	A	C4'-C3'-C2'	-5.49	97.11	102.60
34	BA	1031	U	O4'-C1'-N1	5.49	112.59	108.20
34	BA	1144	A	C8-N9-C1'	5.49	137.59	127.70
34	BA	1821	A	O5'-C5'-C4'	-5.49	101.26	111.70
35	BB	99	G	O5'-C5'-C4'	-5.49	101.26	111.70
35	BB	161	G	C5-C6-O6	-5.49	125.30	128.60
35	BB	381	C	C2-N1-C1'	5.49	124.84	118.80
35	BB	628	A	C1'-O4'-C4'	-5.49	105.50	109.90
35	BB	661	G	C5-C6-O6	5.49	131.90	128.60
35	BB	661	G	N1-C6-O6	-5.49	116.60	119.90
35	BB	808	U	C2-N1-C1'	-5.49	111.11	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	895	U	N3-C2-O2	-5.49	118.35	122.20
35	BB	1147	G	N3-C2-N2	-5.49	116.06	119.90
35	BB	1518	U	C6-N1-C2	-5.49	117.70	121.00
37	BD	118	C	C2-N3-C4	-5.49	117.15	119.90
38	BE	162	U	C2-N1-C1'	-5.49	111.11	117.70
39	BF	4	A	C2-N3-C4	-5.49	107.85	110.60
40	BG	2	U	N1-C2-O2	-5.49	118.95	122.80
49	BP	61	PHE	N-CA-C	-5.49	96.17	111.00
85	AA	23	G	O4'-C1'-N9	5.49	112.59	108.20
85	AA	241	U	P-O5'-C5'	5.49	129.69	120.90
85	AA	346	U	O4'-C1'-N1	5.49	112.59	108.20
85	AA	475	A	C4'-C3'-C2'	5.49	108.09	102.60
85	AA	830	A	C8-N9-C4	5.49	108.00	105.80
85	AA	913	U	N3-C2-O2	5.49	126.05	122.20
85	AA	1685	G	C5-C6-O6	-5.49	125.30	128.60
85	AA	1730	C	OP1-P-O3'	5.49	117.29	105.20
1	A0	210	ARG	CG-CD-NE	-5.49	100.27	111.80
34	BA	684	G	C6-C5-N7	-5.49	127.11	130.40
34	BA	1785	G	C5'-C4'-C3'	5.49	124.79	116.00
35	BB	856	U	P-O3'-C3'	-5.49	113.11	119.70
36	BC	145	G	P-O3'-C3'	-5.49	113.11	119.70
84	By	184	ASN	CA-CB-CG	-5.49	101.32	113.40
85	AA	91	U	P-O5'-C5'	-5.49	112.11	120.90
85	AA	1509	A	C3'-C2'-C1'	-5.49	97.11	101.50
85	AA	2184	A	C8-N9-C4	5.49	108.00	105.80
34	BA	651	U	O4'-C4'-C3'	-5.49	98.51	104.00
34	BA	1218	G	C5-C6-N1	5.49	114.25	111.50
34	BA	1523	U	C6-N1-C2	-5.49	117.71	121.00
35	BB	317	C	O4'-C1'-N1	5.49	112.59	108.20
35	BB	506	G	C1'-O4'-C4'	-5.49	105.51	109.90
35	BB	558	U	C3'-C2'-C1'	-5.49	97.11	101.50
35	BB	807	U	C2'-C3'-O3'	5.49	122.48	113.70
35	BB	1493	A	P-O5'-C5'	-5.49	112.12	120.90
36	BC	60	U	OP2-P-O3'	5.49	117.28	105.20
38	BE	193	A	P-O3'-C3'	-5.49	113.11	119.70
41	BH	31	A	P-O5'-C5'	-5.49	112.12	120.90
53	BT	170	ARG	N-CA-CB	-5.49	100.72	110.60
85	AA	54	C	N3-C2-O2	-5.49	118.06	121.90
85	AA	500	C	P-O5'-C5'	-5.49	112.11	120.90
85	AA	809	A	P-O3'-C3'	5.49	126.29	119.70
85	AA	891	G	O5'-C5'-C4'	5.49	122.13	111.70
85	AA	1721	A	C2'-C3'-O3'	5.49	122.48	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1904	C	N3-C4-C5	-5.49	119.70	121.90
85	AA	1914	U	O4'-C1'-N1	5.49	112.59	108.20
86	AB	55	U	C2-N1-C1'	5.49	124.29	117.70
34	BA	108	A	C6-N1-C2	-5.49	115.31	118.60
34	BA	934	G	C3'-C2'-C1'	-5.49	97.11	101.50
34	BA	960	C	C2-N1-C1'	-5.49	112.76	118.80
34	BA	993	C	C6-N1-C1'	-5.49	114.21	120.80
34	BA	1414	C	N3-C2-O2	-5.49	118.06	121.90
34	BA	1457	C	P-O5'-C5'	5.49	129.68	120.90
35	BB	636	G	C3'-C2'-C1'	-5.49	97.11	101.50
35	BB	1019	C	N3-C2-O2	-5.49	118.06	121.90
35	BB	1510	G	C4-N9-C1'	-5.49	119.36	126.50
40	BG	124	A	N1-C6-N6	-5.49	115.31	118.60
40	BG	130	G	N9-C1'-C2'	-5.49	105.96	112.00
64	Be	72	VAL	CB-CA-C	5.49	121.83	111.40
80	Bu	13	TYR	CB-CG-CD2	5.49	124.29	121.00
85	AA	244	G	O4'-C1'-N9	5.49	112.59	108.20
85	AA	531	G	O4'-C1'-N9	5.49	112.59	108.20
85	AA	549	A	O4'-C1'-N9	5.49	112.59	108.20
85	AA	854	A	O5'-P-OP1	5.49	117.28	110.70
85	AA	965	G	C8-N9-C1'	5.49	134.13	127.00
85	AA	1462	A	O5'-P-OP2	5.49	117.28	110.70
85	AA	1679	U	P-O3'-C3'	5.49	126.29	119.70
85	AA	1795	C	C1'-O4'-C4'	-5.49	105.51	109.90
85	AA	1829	C	N3-C4-C5	5.49	124.09	121.90
85	AA	1996	A	C5-C6-N6	5.49	128.09	123.70
85	AA	2121	G	N7-C8-N9	5.49	115.84	113.10
34	BA	11	U	O5'-C5'-C4'	-5.49	101.27	111.70
34	BA	1095	G	O5'-C5'-C4'	-5.49	101.28	111.70
34	BA	1108	U	P-O3'-C3'	-5.49	113.11	119.70
34	BA	1475	G	C4'-C3'-C2'	-5.49	97.11	102.60
35	BB	778	A	C5-C6-N6	-5.49	119.31	123.70
35	BB	953	G	O4'-C1'-N9	5.49	112.59	108.20
35	BB	1062	G	C6-N1-C2	-5.49	121.81	125.10
44	BK	49	CYS	CA-CB-SG	-5.49	104.12	114.00
52	BS	83	TYR	CB-CG-CD1	-5.49	117.71	121.00
85	AA	634	U	C5'-C4'-C3'	-5.49	107.22	116.00
85	AA	1202	G	C4'-C3'-C2'	-5.49	97.11	102.60
85	AA	1680	U	N3-C2-O2	-5.49	118.36	122.20
4	A3	152	ARG	C-N-CA	5.49	135.41	121.70
7	A6	106	ARG	NE-CZ-NH1	5.49	123.04	120.30
34	BA	83	G	C5-C6-O6	-5.49	125.31	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	472	G	C5'-C4'-O4'	5.49	115.68	109.10
34	BA	711	C	C5'-C4'-C3'	5.49	124.78	116.00
34	BA	875	G	C4'-C3'-C2'	5.49	108.08	102.60
34	BA	1057	C	C3'-C2'-C1'	5.49	105.89	101.50
34	BA	1234	U	C6-N1-C1'	5.49	128.88	121.20
34	BA	1443	U	O4'-C4'-C3'	5.49	110.49	106.10
34	BA	1722	U	N3-C4-O4	-5.49	115.56	119.40
35	BB	26	C	N3-C2-O2	-5.49	118.06	121.90
35	BB	590	G	N9-C1'-C2'	-5.49	105.97	112.00
38	BE	189	A	C3'-C2'-C1'	-5.49	97.11	101.50
40	BG	24	A	C4'-C3'-O3'	-5.49	97.88	109.40
41	BH	110	C	P-O3'-C3'	5.49	126.28	119.70
51	BR	75	GLU	N-CA-CB	-5.49	100.73	110.60
63	Bd	6	ASN	CA-CB-CG	-5.49	101.33	113.40
80	Bu	153	ASP	N-CA-CB	5.49	120.47	110.60
82	Bw	223	ALA	CB-CA-C	-5.49	101.87	110.10
85	AA	128	U	C6-N1-C1'	-5.49	113.52	121.20
85	AA	235	U	O4'-C1'-N1	5.49	112.59	108.20
85	AA	678	A	C4'-C3'-C2'	5.49	108.08	102.60
85	AA	1714	G	N3-C4-N9	-5.49	122.71	126.00
85	AA	2151	U	O4'-C1'-N1	5.49	112.59	108.20
5	A4	101	GLN	N-CA-CB	5.48	120.47	110.60
8	A7	43	TRP	CB-CG-CD2	-5.48	119.47	126.60
34	BA	583	G	C5-C6-N1	5.48	114.24	111.50
34	BA	1107	A	C3'-C2'-C1'	-5.48	97.11	101.50
34	BA	1108	U	C6-N1-C1'	5.48	128.88	121.20
35	BB	802	G	C5-C6-O6	5.48	131.89	128.60
35	BB	816	U	O4'-C1'-N1	5.48	112.59	108.20
35	BB	879	G	C3'-C2'-C1'	-5.48	97.11	101.50
35	BB	1348	C	P-O5'-C5'	-5.48	112.13	120.90
35	BB	1359	G	C5'-C4'-C3'	-5.48	107.22	116.00
41	BH	48	G	O3'-P-O5'	-5.48	93.58	104.00
42	BI	87	ALA	N-CA-CB	-5.48	102.42	110.10
59	BZ	6	CYS	O-C-N	-5.48	113.92	122.70
85	AA	1428	A	P-O5'-C5'	-5.48	112.13	120.90
85	AA	1514	A	C5'-C4'-C3'	-5.48	107.22	116.00
85	AA	1658	G	C5-C6-N1	5.48	114.24	111.50
85	AA	1792	C	P-O3'-C3'	5.48	126.28	119.70
2	A1	155	ASP	CB-CG-OD2	-5.48	113.37	118.30
30	AW	50	HIS	CA-CB-CG	-5.48	104.28	113.60
34	BA	114	U	C6-N1-C1'	5.48	128.88	121.20
34	BA	125	G	N9-C1'-C2'	-5.48	105.97	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	279	U	C1'-O4'-C4'	-5.48	105.51	109.90
34	BA	719	G	O4'-C1'-N9	5.48	112.59	108.20
34	BA	1468	U	O5'-C5'-C4'	-5.48	101.28	111.70
35	BB	4	C	N3-C2-O2	-5.48	118.06	121.90
35	BB	1199	A	C4-C5-C6	-5.48	114.26	117.00
35	BB	1249	G	C1'-O4'-C4'	-5.48	105.51	109.90
35	BB	1370	G	P-O5'-C5'	-5.48	112.13	120.90
38	BE	108	U	C2-N1-C1'	-5.48	111.12	117.70
38	BE	144	A	C1'-O4'-C4'	-5.48	105.51	109.90
40	BG	87	G	C5'-C4'-C3'	-5.48	107.23	116.00
85	AA	334	A	O3'-P-O5'	5.48	114.42	104.00
85	AA	420	C	C5'-C4'-C3'	-5.48	107.23	116.00
85	AA	491	G	N3-C2-N2	5.48	123.74	119.90
85	AA	623	G	C5'-C4'-C3'	-5.48	107.23	116.00
85	AA	653	A	C3'-C2'-C1'	-5.48	97.11	101.50
85	AA	1141	U	P-O3'-C3'	-5.48	113.12	119.70
85	AA	1367	C	P-O5'-C5'	-5.48	112.13	120.90
85	AA	1923	A	N9-C1'-C2'	5.48	121.13	114.00
86	AB	3	C	C5-C4-N4	-5.48	116.36	120.20
29	AV	91	ARG	NE-CZ-NH2	-5.48	117.56	120.30
34	BA	315	U	C5'-C4'-O4'	5.48	115.68	109.10
34	BA	328	A	O4'-C1'-N9	5.48	112.58	108.20
34	BA	829	U	C5'-C4'-O4'	5.48	115.68	109.10
34	BA	1379	G	N9-C4-C5	5.48	107.59	105.40
35	BB	1012	G	O4'-C1'-N9	5.48	112.58	108.20
35	BB	1427	A	P-O3'-C3'	-5.48	113.12	119.70
38	BE	80	G	O4'-C1'-N9	5.48	112.58	108.20
40	BG	33	G	C4'-C3'-C2'	5.48	108.08	102.60
65	Bf	353	THR	N-CA-C	-5.48	96.20	111.00
67	Bh	60	ALA	N-CA-CB	5.48	117.77	110.10
85	AA	24	U	C4'-C3'-C2'	5.48	108.08	102.60
85	AA	364	C	O4'-C1'-C2'	5.48	112.53	107.60
85	AA	774	C	C3'-C2'-C1'	-5.48	97.11	101.50
85	AA	788	G	OP1-P-OP2	-5.48	111.38	119.60
85	AA	1116	G	C8-N9-C1'	5.48	134.12	127.00
85	AA	1212	C	P-O5'-C5'	5.48	129.67	120.90
34	BA	736	G	C3'-C2'-C1'	-5.48	97.12	101.50
34	BA	1151	A	P-O3'-C3'	5.48	126.28	119.70
34	BA	1205	A	C5-C6-N1	5.48	120.44	117.70
34	BA	1217	A	C5'-C4'-C3'	-5.48	107.23	116.00
35	BB	990	G	C4-N9-C1'	5.48	133.62	126.50
35	BB	1229	A	P-O3'-C3'	-5.48	113.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1446	C	N3-C2-O2	-5.48	118.06	121.90
38	BE	205	G	C8-N9-C1'	5.48	134.12	127.00
41	BH	130	G	N3-C2-N2	5.48	123.73	119.90
52	BS	76	TYR	CB-CG-CD2	-5.48	117.71	121.00
85	AA	819	G	C5-N7-C8	5.48	107.04	104.30
85	AA	1092	G	N3-C4-C5	-5.48	125.86	128.60
34	BA	174	A	C5-C6-N6	-5.48	119.32	123.70
34	BA	429	G	C5-C6-N1	5.48	114.24	111.50
34	BA	612	U	C1'-O4'-C4'	-5.48	105.52	109.90
34	BA	1246	G	C1'-O4'-C4'	-5.48	105.52	109.90
34	BA	1413	G	C6-N1-C2	-5.48	121.81	125.10
34	BA	1500	G	C4-N9-C1'	-5.48	119.38	126.50
35	BB	789	G	C4-C5-C6	-5.48	115.51	118.80
35	BB	1176	G	N1-C2-N2	-5.48	111.27	116.20
35	BB	1176	G	O4'-C1'-C2'	-5.48	100.32	105.80
36	BC	84	U	O4'-C1'-N1	5.48	112.58	108.20
37	BD	97	U	P-O3'-C3'	-5.48	113.13	119.70
38	BE	21	C	C5'-C4'-C3'	-5.48	107.24	116.00
38	BE	23	G	N3-C2-N2	5.48	123.73	119.90
40	BG	175	G	O4'-C4'-C3'	-5.48	98.52	104.00
62	Bc	21	LYS	CA-C-O	-5.48	108.60	120.10
65	Bf	160	HIS	N-CA-C	-5.48	96.21	111.00
70	Bk	47	ARG	NE-CZ-NH1	5.48	123.04	120.30
85	AA	17	C	C5'-C4'-O4'	5.48	115.67	109.10
85	AA	601	A	O4'-C1'-N9	5.48	112.58	108.20
34	BA	170	U	C5'-C4'-C3'	-5.48	107.24	116.00
34	BA	803	U	C5'-C4'-C3'	-5.48	107.24	116.00
34	BA	872	U	N1-C2-O2	-5.48	118.97	122.80
34	BA	1303	U	P-O3'-C3'	-5.48	113.13	119.70
35	BB	85	A	C5-C6-N6	-5.48	119.32	123.70
35	BB	775	U	O5'-P-OP2	-5.48	100.77	105.70
35	BB	1072	C	O4'-C1'-N1	5.48	112.58	108.20
35	BB	1426	G	N3-C4-N9	5.48	129.28	126.00
85	AA	485	A	C4-N9-C1'	-5.48	116.44	126.30
85	AA	648	G	N1-C6-O6	-5.48	116.61	119.90
85	AA	735	G	C4-N9-C1'	-5.48	119.38	126.50
34	BA	125	G	C8-N9-C1'	5.47	134.12	127.00
34	BA	184	C	O4'-C1'-N1	5.47	112.58	108.20
34	BA	569	C	C1'-O4'-C4'	-5.47	105.52	109.90
34	BA	928	C	P-O5'-C5'	-5.47	112.14	120.90
34	BA	1653	G	P-O3'-C3'	-5.47	113.13	119.70
34	BA	1815	G	N3-C2-N2	5.47	123.73	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	475	A	C5-C6-N6	5.47	128.08	123.70
35	BB	997	G	C5-C6-N1	5.47	114.24	111.50
35	BB	1202	G	C4-N9-C1'	5.47	133.62	126.50
53	BT	93	ASP	N-CA-CB	-5.47	100.75	110.60
73	Bn	49	TRP	CB-CG-CD1	5.47	134.12	127.00
82	Bw	175	ARG	NE-CZ-NH1	5.47	123.04	120.30
85	AA	10	G	C8-N9-C1'	5.47	134.12	127.00
85	AA	353	G	N1-C6-O6	5.47	123.19	119.90
85	AA	678	A	C6-N1-C2	-5.47	115.32	118.60
85	AA	897	A	P-O3'-C3'	-5.47	113.13	119.70
85	AA	970	U	C3'-C2'-C1'	5.47	105.88	101.50
85	AA	1823	G	C5-C6-O6	-5.47	125.32	128.60
85	AA	2240	G	P-O3'-C3'	-5.47	113.13	119.70
86	AB	57	G	C4-N9-C1'	-5.47	119.38	126.50
34	BA	148	G	O4'-C1'-N9	5.47	112.58	108.20
34	BA	266	G	C5-C6-N1	5.47	114.24	111.50
34	BA	909	G	C6-N1-C2	-5.47	121.82	125.10
34	BA	936	A	C1'-O4'-C4'	-5.47	105.52	109.90
35	BB	18	A	OP2-P-O3'	5.47	117.24	105.20
35	BB	355	A	P-O5'-C5'	5.47	129.66	120.90
35	BB	424	U	C5-C6-N1	-5.47	119.96	122.70
35	BB	1467	A	C4'-C3'-C2'	-5.47	97.13	102.60
35	BB	1510	G	O4'-C1'-N9	5.47	112.58	108.20
42	BI	135	MET	CA-CB-CG	5.47	122.60	113.30
71	Bl	130	SER	N-CA-CB	5.47	118.71	110.50
85	AA	38	C	O3'-P-O5'	5.47	114.40	104.00
85	AA	111	A	C5'-C4'-C3'	-5.47	107.25	116.00
85	AA	409	C	O4'-C1'-N1	5.47	112.58	108.20
85	AA	556	C	C5'-C4'-O4'	-5.47	102.53	109.10
85	AA	557	G	C5'-C4'-C3'	5.47	124.75	116.00
1	A0	22	GLU	CB-CA-C	5.47	121.34	110.40
34	BA	241	U	C5'-C4'-O4'	5.47	115.67	109.10
34	BA	1377	A	P-O3'-C3'	-5.47	113.14	119.70
34	BA	1771	U	C6-N1-C2	-5.47	117.72	121.00
35	BB	562	A	OP1-P-OP2	-5.47	111.39	119.60
37	BD	13	A	P-O5'-C5'	-5.47	112.15	120.90
37	BD	56	G	N1-C6-O6	5.47	123.18	119.90
38	BE	95	G	C6-C5-N7	5.47	133.68	130.40
47	BN	175	ARG	N-CA-CB	-5.47	100.75	110.60
57	BX	81	ALA	N-CA-CB	-5.47	102.44	110.10
69	Bj	85	HIS	CA-CB-CG	5.47	122.90	113.60
85	AA	1294	U	C5-C6-N1	-5.47	119.96	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2155	U	C3'-C2'-C1'	-5.47	97.12	101.50
13	AE	43	ASN	N-CA-CB	5.47	120.44	110.60
34	BA	138	C	C3'-C2'-C1'	-5.47	97.12	101.50
34	BA	537	C	C3'-C2'-C1'	-5.47	97.12	101.50
34	BA	584	A	C3'-C2'-C1'	5.47	105.88	101.50
34	BA	953	G	C5'-C4'-C3'	-5.47	107.25	116.00
34	BA	1205	A	O4'-C1'-N9	-5.47	103.82	108.20
34	BA	1258	G	O3'-P-O5'	-5.47	93.61	104.00
34	BA	1488	C	C2-N1-C1'	-5.47	112.78	118.80
34	BA	1537	G	C6-N1-C2	-5.47	121.82	125.10
35	BB	445	G	C4-N9-C1'	5.47	133.61	126.50
35	BB	457	U	N1-C1'-C2'	-5.47	105.98	112.00
35	BB	900	C	C1'-O4'-C4'	-5.47	105.53	109.90
37	BD	9	C	N1-C2-O2	5.47	122.18	118.90
38	BE	32	U	N3-C4-C5	-5.47	111.32	114.60
38	BE	92	C	N3-C2-O2	-5.47	118.07	121.90
85	AA	539	A	N9-C1'-C2'	-5.47	105.98	112.00
85	AA	544	A	C4-N9-C1'	-5.47	116.45	126.30
85	AA	849	A	C5-C6-N6	-5.47	119.32	123.70
85	AA	1160	U	C2-N1-C1'	-5.47	111.14	117.70
85	AA	1180	C	C5'-C4'-C3'	5.47	124.75	116.00
85	AA	1283	C	N3-C4-N4	-5.47	114.17	118.00
85	AA	1932	C	O4'-C1'-N1	5.47	112.58	108.20
34	BA	507	U	C5'-C4'-O4'	-5.47	102.54	109.10
34	BA	1401	C	O4'-C1'-N1	5.47	112.57	108.20
34	BA	1439	C	N1-C1'-C2'	-5.47	105.98	112.00
34	BA	1501	U	O4'-C4'-C3'	-5.47	98.53	104.00
35	BB	1017	U	O4'-C1'-N1	5.47	112.57	108.20
51	BR	76	TRP	CA-CB-CG	-5.47	103.31	113.70
84	By	9	ILE	N-CA-C	5.47	125.76	111.00
85	AA	146	U	N1-C1'-C2'	-5.47	105.99	112.00
85	AA	1101	C	P-O3'-C3'	-5.47	113.14	119.70
28	AU	96	ARG	NE-CZ-NH1	5.47	123.03	120.30
34	BA	266	G	P-O3'-C3'	-5.47	113.14	119.70
34	BA	774	A	N9-C1'-C2'	-5.47	105.99	112.00
34	BA	865	C	P-O5'-C5'	-5.47	112.15	120.90
34	BA	881	C	C1'-O4'-C4'	-5.47	105.53	109.90
34	BA	994	G	C5-N7-C8	-5.47	101.57	104.30
34	BA	1033	G	C5-N7-C8	-5.47	101.57	104.30
34	BA	1407	C	O4'-C1'-N1	5.47	112.57	108.20
34	BA	1563	G	P-O5'-C5'	5.47	129.65	120.90
34	BA	1833	G	P-O3'-C3'	-5.47	113.14	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	139	G	N7-C8-N9	-5.47	110.37	113.10
35	BB	435	A	C4-N9-C1'	-5.47	116.46	126.30
35	BB	648	G	O4'-C1'-N9	5.47	112.57	108.20
35	BB	852	G	O4'-C1'-N9	5.47	112.57	108.20
35	BB	1239	A	C4-N9-C1'	-5.47	116.46	126.30
35	BB	1509	G	C4'-C3'-C2'	-5.47	97.13	102.60
37	BD	61	C	C6-N1-C2	-5.47	118.11	120.30
38	BE	152	U	C5-C4-O4	-5.47	122.62	125.90
40	BG	173	C	C4'-C3'-C2'	-5.47	97.13	102.60
57	BX	122	ARG	NE-CZ-NH2	5.47	123.03	120.30
85	AA	327	G	N3-C4-C5	-5.47	125.87	128.60
85	AA	381	A	O5'-C5'-C4'	-5.47	101.31	111.70
85	AA	521	A	C4'-C3'-C2'	5.47	108.07	102.60
85	AA	2053	A	N7-C8-N9	5.47	116.53	113.80
34	BA	137	C	N3-C2-O2	-5.46	118.08	121.90
34	BA	288	U	N3-C2-O2	-5.46	118.38	122.20
34	BA	525	A	C4-C5-C6	-5.46	114.27	117.00
34	BA	692	U	O5'-P-OP2	-5.46	100.78	105.70
34	BA	697	A	C5-C6-N1	5.46	120.43	117.70
34	BA	896	U	P-O5'-C5'	-5.46	112.16	120.90
34	BA	1411	C	C4'-C3'-O3'	-5.46	97.92	109.40
34	BA	1526	C	C5'-C4'-O4'	5.46	115.66	109.10
35	BB	260	A	O4'-C1'-N9	5.46	112.57	108.20
35	BB	1007	U	P-O5'-C5'	-5.46	112.16	120.90
35	BB	1133	C	N3-C2-O2	-5.46	118.08	121.90
35	BB	1209	A	C5-N7-C8	-5.46	101.17	103.90
37	BD	91	U	N3-C2-O2	-5.46	118.38	122.20
39	BF	57	C	O4'-C1'-N1	5.46	112.57	108.20
40	BG	30	C	N1-C2-O2	5.46	122.18	118.90
40	BG	37	G	C1'-O4'-C4'	-5.46	105.53	109.90
40	BG	162	A	C3'-C2'-C1'	5.46	105.87	101.50
41	BH	65	G	C4-N9-C1'	-5.46	119.40	126.50
85	AA	111	A	C3'-C2'-C1'	5.46	105.87	101.50
85	AA	1302	A	O4'-C1'-N9	5.46	112.57	108.20
85	AA	2057	G	C5-C6-O6	-5.46	125.32	128.60
85	AA	2112	G	C8-N9-C1'	5.46	134.10	127.00
34	BA	493	G	N1-C6-O6	-5.46	116.62	119.90
34	BA	919	A	N7-C8-N9	-5.46	111.07	113.80
34	BA	1499	A	C2-N3-C4	5.46	113.33	110.60
35	BB	10	C	C4'-C3'-C2'	-5.46	97.14	102.60
35	BB	54	U	C4'-C3'-C2'	5.46	108.06	102.60
35	BB	114	A	O4'-C1'-N9	5.46	112.57	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	977	G	OP1-P-OP2	-5.46	111.41	119.60
35	BB	977	G	C3'-C2'-C1'	-5.46	97.13	101.50
37	BD	93	G	N3-C4-C5	-5.46	125.87	128.60
65	Bf	392	ARG	N-CA-C	5.46	125.75	111.00
85	AA	577	U	C2'-C3'-O3'	5.46	122.44	113.70
85	AA	1294	U	C6-N1-C1'	5.46	128.85	121.20
85	AA	2215	C	C3'-C2'-C1'	-5.46	97.13	101.50
34	BA	381	A	C5-C6-N6	-5.46	119.33	123.70
34	BA	427	G	N3-C2-N2	5.46	123.72	119.90
34	BA	635	G	O4'-C1'-N9	5.46	112.57	108.20
34	BA	1019	C	C5'-C4'-C3'	-5.46	107.26	116.00
35	BB	83	G	P-O5'-C5'	5.46	129.64	120.90
35	BB	950	G	N1-C6-O6	5.46	123.18	119.90
35	BB	1233	U	C5-C6-N1	-5.46	119.97	122.70
35	BB	1306	G	C5'-C4'-C3'	-5.46	107.26	116.00
35	BB	1501	U	O4'-C1'-N1	5.46	112.57	108.20
37	BD	11	A	C5'-C4'-C3'	-5.46	107.26	116.00
40	BG	111	C	P-O3'-C3'	-5.46	113.15	119.70
40	BG	169	A	C2-N3-C4	-5.46	107.87	110.60
77	Br	121	PHE	CB-CG-CD2	-5.46	116.98	120.80
85	AA	461	G	N9-C4-C5	-5.46	103.22	105.40
85	AA	727	U	C3'-C2'-C1'	-5.46	97.13	101.50
85	AA	813	G	C5-C6-O6	-5.46	125.32	128.60
85	AA	858	G	N9-C1'-C2'	-5.46	105.99	112.00
85	AA	1202	G	O4'-C1'-N9	5.46	112.57	108.20
85	AA	1247	A	N9-C1'-C2'	-5.46	105.99	112.00
34	BA	346	A	C4'-C3'-C2'	-5.46	97.14	102.60
34	BA	679	U	C1'-O4'-C4'	5.46	114.27	109.90
34	BA	1233	U	N3-C2-O2	-5.46	118.38	122.20
35	BB	37	C	N3-C2-O2	-5.46	118.08	121.90
35	BB	121	A	C3'-C2'-C1'	-5.46	97.13	101.50
40	BG	152	G	C5'-C4'-C3'	-5.46	107.26	116.00
67	Bh	139	GLY	N-CA-C	-5.46	99.45	113.10
85	AA	477	U	C5'-C4'-C3'	5.46	124.74	116.00
85	AA	792	A	O4'-C1'-N9	5.46	112.57	108.20
85	AA	984	A	C8-N9-C4	-5.46	103.62	105.80
34	BA	223	U	C4'-C3'-C2'	-5.46	97.14	102.60
34	BA	387	A	C5'-C4'-C3'	-5.46	107.27	116.00
34	BA	389	U	O4'-C4'-C3'	-5.46	98.54	104.00
34	BA	484	A	C5'-C4'-O4'	-5.46	102.55	109.10
34	BA	513	U	C5'-C4'-C3'	-5.46	107.27	116.00
34	BA	674	G	N1-C6-O6	5.46	123.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	786	U	P-O3'-C3'	5.46	126.25	119.70
34	BA	868	C	OP1-P-OP2	5.46	127.79	119.60
34	BA	1269	C	N3-C2-O2	-5.46	118.08	121.90
34	BA	1496	G	OP1-P-OP2	-5.46	111.41	119.60
34	BA	1608	C	O4'-C1'-N1	5.46	112.57	108.20
34	BA	1779	U	C6-N1-C1'	5.46	128.84	121.20
35	BB	429	C	N1-C2-N3	5.46	123.02	119.20
35	BB	445	G	C8-N9-C4	-5.46	104.22	106.40
36	BC	18	G	C4-C5-C6	-5.46	115.53	118.80
37	BD	49	A	C5-N7-C8	-5.46	101.17	103.90
38	BE	107	U	C4'-C3'-C2'	-5.46	97.14	102.60
64	Be	115	ASN	CA-CB-CG	-5.46	101.39	113.40
85	AA	439	U	P-O5'-C5'	-5.46	112.17	120.90
85	AA	757	A	P-O3'-C3'	-5.46	113.15	119.70
85	AA	889	G	C5'-C4'-O4'	5.46	115.65	109.10
85	AA	1217	U	C5-C4-O4	5.46	129.18	125.90
85	AA	2163	G	C5-C6-O6	5.46	131.88	128.60
21	AM	84	PHE	N-CA-C	-5.46	96.27	111.00
34	BA	335	C	C6-N1-C2	-5.46	118.12	120.30
34	BA	528	C	C3'-C2'-C1'	-5.46	97.14	101.50
34	BA	798	G	C6-C5-N7	-5.46	127.13	130.40
34	BA	1247	G	C4-N9-C1'	-5.46	119.41	126.50
34	BA	1786	C	N3-C2-O2	-5.46	118.08	121.90
34	BA	1839	G	C4-N9-C1'	-5.46	119.41	126.50
35	BB	86	A	O3'-P-O5'	-5.46	93.63	104.00
35	BB	618	U	N1-C2-O2	5.46	126.62	122.80
35	BB	1453	G	O4'-C4'-C3'	-5.46	98.54	104.00
37	BD	25	G	O3'-P-O5'	-5.46	93.63	104.00
38	BE	107	U	O4'-C1'-N1	5.46	112.57	108.20
40	BG	142	A	P-O3'-C3'	5.46	126.25	119.70
77	Br	217	ARG	CD-NE-CZ	5.46	131.24	123.60
80	Bu	99	TYR	N-CA-CB	-5.46	100.78	110.60
85	AA	36	U	O4'-C1'-N1	5.46	112.57	108.20
85	AA	760	U	N1-C1'-C2'	-5.46	106.00	112.00
85	AA	1114	A	P-O3'-C3'	-5.46	113.15	119.70
85	AA	1704	C	N3-C2-O2	-5.46	118.08	121.90
85	AA	1821	C	C5'-C4'-C3'	-5.46	107.27	116.00
85	AA	1877	G	N7-C8-N9	5.46	115.83	113.10
85	AA	2073	U	C6-N1-C1'	5.46	128.84	121.20
85	AA	2190	U	C2-N1-C1'	-5.46	111.15	117.70
12	AD	11	ASP	N-CA-CB	-5.46	100.78	110.60
34	BA	52	G	C1'-O4'-C4'	-5.46	105.54	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1287	G	P-O3'-C3'	-5.46	113.15	119.70
35	BB	101	U	O3'-P-O5'	-5.46	93.64	104.00
35	BB	606	C	O4'-C1'-N1	5.46	112.56	108.20
35	BB	786	A	P-O3'-C3'	-5.46	113.15	119.70
35	BB	1449	G	C5-C6-N1	5.46	114.23	111.50
39	BF	24	G	C4'-C3'-C2'	-5.46	97.14	102.60
40	BG	166	C	P-O5'-C5'	5.46	129.63	120.90
62	Bc	13	ARG	CB-CG-CD	5.46	125.78	111.60
85	AA	1134	G	P-O3'-C3'	-5.46	113.15	119.70
22	AO	117	LEU	CB-CA-C	-5.45	99.84	110.20
34	BA	78	U	O3'-P-O5'	-5.45	93.64	104.00
34	BA	661	C	N1-C2-O2	5.45	122.17	118.90
34	BA	704	G	C5-C6-O6	-5.45	125.33	128.60
34	BA	987	C	N3-C2-O2	-5.45	118.08	121.90
34	BA	1739	G	C2-N3-C4	-5.45	109.17	111.90
35	BB	121	A	C1'-O4'-C4'	-5.45	105.54	109.90
35	BB	1050	A	P-O5'-C5'	-5.45	112.17	120.90
35	BB	1146	C	C6-N1-C1'	-5.45	114.26	120.80
35	BB	1356	G	C5-C6-N1	5.45	114.23	111.50
35	BB	1506	C	C2-N3-C4	-5.45	117.17	119.90
35	BB	1546	C	C2-N3-C4	-5.45	117.17	119.90
41	BH	10	U	N1-C2-N3	5.45	118.17	114.90
85	AA	266	U	O3'-P-O5'	5.45	114.36	104.00
85	AA	809	A	C2'-C3'-O3'	5.45	122.43	113.70
85	AA	2089	G	C8-N9-C4	5.45	108.58	106.40
2	A1	51	TYR	N-CA-C	-5.45	96.28	111.00
34	BA	557	U	C4-C5-C6	5.45	122.97	119.70
34	BA	602	G	N1-C2-N2	5.45	121.11	116.20
34	BA	736	G	N3-C2-N2	5.45	123.72	119.90
34	BA	747	G	N1-C6-O6	-5.45	116.63	119.90
34	BA	941	G	P-O5'-C5'	-5.45	112.18	120.90
34	BA	1232	C	C3'-C2'-C1'	-5.45	97.14	101.50
34	BA	1329	U	C2-N3-C4	-5.45	123.73	127.00
35	BB	40	C	N3-C4-N4	-5.45	114.18	118.00
41	BH	127	A	C5-C6-N1	5.45	120.43	117.70
77	Br	329	LEU	O-C-N	-5.45	113.98	122.70
85	AA	880	A	C4-N9-C1'	-5.45	116.49	126.30
16	AH	13	SER	C-N-CA	5.45	135.33	121.70
34	BA	362	G	C1'-O4'-C4'	-5.45	105.54	109.90
34	BA	530	A	P-O5'-C5'	-5.45	112.18	120.90
34	BA	697	A	C6-N1-C2	-5.45	115.33	118.60
34	BA	701	G	P-O3'-C3'	5.45	126.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	748	C	C3'-C2'-C1'	-5.45	97.14	101.50
34	BA	1177	C	O3'-P-O5'	-5.45	93.64	104.00
34	BA	1338	G	P-O3'-C3'	-5.45	113.16	119.70
35	BB	107	A	O4'-C1'-N9	5.45	112.56	108.20
35	BB	968	C	C6-N1-C2	-5.45	118.12	120.30
35	BB	1201	G	C5'-C4'-O4'	-5.45	102.56	109.10
35	BB	1284	U	C2-N1-C1'	-5.45	111.16	117.70
40	BG	161	C	N3-C2-O2	-5.45	118.08	121.90
41	BH	51	C	N3-C2-O2	-5.45	118.08	121.90
69	Bj	5	ARG	NE-CZ-NH2	-5.45	117.58	120.30
80	Bu	56	THR	CA-CB-OG1	5.45	120.45	109.00
85	AA	100	A	O3'-P-O5'	5.45	114.36	104.00
85	AA	386	G	N9-C1'-C2'	-5.45	106.00	112.00
85	AA	815	G	C3'-C2'-C1'	5.45	105.86	101.50
85	AA	1538	C	C2-N3-C4	-5.45	117.17	119.90
85	AA	1605	G	P-O5'-C5'	-5.45	112.18	120.90
85	AA	1753	A	C3'-C2'-C1'	5.45	105.86	101.50
86	AB	50	U	O3'-P-O5'	-5.45	93.64	104.00
34	BA	113	G	C4'-C3'-O3'	5.45	123.89	113.00
34	BA	375	C	P-O5'-C5'	5.45	129.62	120.90
34	BA	887	U	N3-C2-O2	-5.45	118.39	122.20
34	BA	1187	U	C4'-C3'-C2'	-5.45	97.15	102.60
34	BA	1813	C	P-O5'-C5'	-5.45	112.18	120.90
35	BB	107	A	C3'-C2'-C1'	-5.45	97.14	101.50
35	BB	619	A	C8-N9-C1'	5.45	137.51	127.70
35	BB	1053	G	N1-C2-N2	-5.45	111.30	116.20
37	BD	30	A	N9-C4-C5	-5.45	103.62	105.80
39	BF	62	U	C1'-O4'-C4'	-5.45	105.54	109.90
40	BG	29	U	C3'-C2'-C1'	-5.45	97.14	101.50
40	BG	75	C	C4'-C3'-C2'	5.45	108.05	102.60
40	BG	113	G	C4-N9-C1'	-5.45	119.42	126.50
41	BH	72	G	C8-N9-C4	5.45	108.58	106.40
41	BH	102	C	C2-N3-C4	-5.45	117.17	119.90
55	BV	73	ARG	NE-CZ-NH1	5.45	123.03	120.30
63	Bd	55	ALA	O-C-N	-5.45	113.98	122.70
65	Bf	391	ARG	NE-CZ-NH2	-5.45	117.58	120.30
76	Bq	46	ARG	NE-CZ-NH1	5.45	123.02	120.30
85	AA	425	G	C3'-C2'-C1'	-5.45	97.14	101.50
85	AA	788	G	N3-C4-C5	-5.45	125.88	128.60
6	A5	25	MET	N-CA-C	5.45	125.71	111.00
34	BA	348	U	N1-C2-N3	5.45	118.17	114.90
34	BA	1240	G	C8-N9-C1'	-5.45	119.92	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1296	U	N3-C4-C5	-5.45	111.33	114.60
38	BE	60	C	N3-C2-O2	-5.45	118.09	121.90
39	BF	55	A	C6-N1-C2	-5.45	115.33	118.60
66	Bg	19	ASP	CB-CG-OD1	-5.45	113.40	118.30
85	AA	286	C	N3-C4-N4	5.45	121.81	118.00
85	AA	370	A	C5-C6-N1	5.45	120.42	117.70
85	AA	523	U	C2-N1-C1'	-5.45	111.16	117.70
85	AA	1483	A	C4-C5-C6	-5.45	114.28	117.00
34	BA	95	C	O4'-C1'-N1	5.45	112.56	108.20
34	BA	110	C	O4'-C4'-C3'	-5.45	98.56	104.00
34	BA	339	G	C2'-C3'-O3'	5.45	122.41	113.70
34	BA	953	G	P-O5'-C5'	-5.45	112.19	120.90
34	BA	1090	A	C4'-C3'-C2'	-5.45	97.15	102.60
34	BA	1685	C	N3-C2-O2	-5.45	118.09	121.90
35	BB	760	C	C6-N1-C2	-5.45	118.12	120.30
35	BB	850	U	C2-N1-C1'	5.45	124.24	117.70
35	BB	1359	G	C3'-C2'-C1'	-5.45	97.14	101.50
35	BB	1361	A	O4'-C1'-N9	5.45	112.56	108.20
35	BB	1466	A	P-O3'-C3'	-5.45	113.17	119.70
37	BD	41	G	C5'-C4'-C3'	5.45	124.71	116.00
37	BD	91	U	C3'-C2'-C1'	-5.45	97.14	101.50
38	BE	168	C	C5-C4-N4	5.45	124.01	120.20
52	BS	36	PHE	CB-CG-CD2	-5.45	116.99	120.80
85	AA	97	A	C4'-C3'-C2'	-5.45	97.15	102.60
85	AA	423	G	C6-N1-C2	-5.45	121.83	125.10
85	AA	765	U	O4'-C4'-C3'	-5.45	98.55	104.00
85	AA	1578	G	C5'-C4'-C3'	5.45	124.71	116.00
13	AE	69	TYR	CB-CG-CD1	-5.44	117.73	121.00
34	BA	290	G	C8-N9-C1'	5.44	134.08	127.00
34	BA	538	G	C5'-C4'-C3'	5.44	124.71	116.00
34	BA	1227	U	OP1-P-O3'	5.44	117.18	105.20
34	BA	1505	G	N3-C4-C5	-5.44	125.88	128.60
35	BB	10	C	O4'-C1'-N1	5.44	112.56	108.20
35	BB	883	G	C5'-C4'-O4'	5.44	115.63	109.10
35	BB	1071	G	C3'-C2'-C1'	-5.44	97.14	101.50
35	BB	1367	U	C2-N1-C1'	-5.44	111.17	117.70
35	BB	1546	C	N1-C2-N3	5.44	123.01	119.20
37	BD	66	G	C1'-O4'-C4'	-5.44	105.55	109.90
34	BA	347	A	P-O5'-C5'	5.44	129.61	120.90
34	BA	353	U	C5'-C4'-O4'	5.44	115.63	109.10
34	BA	471	U	O3'-P-O5'	-5.44	93.66	104.00
34	BA	592	G	C5'-C4'-C3'	5.44	124.71	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	651	U	P-O3'-C3'	-5.44	113.17	119.70
34	BA	1087	A	C6-C5-N7	-5.44	128.49	132.30
34	BA	1557	G	C4-N9-C1'	-5.44	119.42	126.50
35	BB	790	A	O4'-C1'-N9	5.44	112.55	108.20
35	BB	850	U	N1-C1'-C2'	5.44	121.08	114.00
35	BB	1129	C	P-O3'-C3'	-5.44	113.17	119.70
35	BB	1218	G	N1-C6-O6	5.44	123.17	119.90
35	BB	1508	G	C5-C6-O6	5.44	131.87	128.60
36	BC	14	G	C8-N9-C1'	5.44	134.08	127.00
38	BE	142	A	C5-C6-N6	5.44	128.06	123.70
60	Ba	63	ARG	NE-CZ-NH2	-5.44	117.58	120.30
77	Br	338	ALA	N-CA-CB	-5.44	102.48	110.10
80	Bu	184	ASN	CA-CB-CG	-5.44	101.42	113.40
82	Bw	234	ARG	NE-CZ-NH1	5.44	123.02	120.30
85	AA	99	U	C1'-O4'-C4'	-5.44	105.55	109.90
85	AA	474	C	C1'-O4'-C4'	-5.44	105.55	109.90
85	AA	639	C	O3'-P-O5'	-5.44	93.66	104.00
85	AA	670	C	C5-C4-N4	5.44	124.01	120.20
85	AA	803	C	P-O3'-C3'	-5.44	113.17	119.70
85	AA	1276	A	N1-C6-N6	-5.44	115.33	118.60
85	AA	1442	U	C6-N1-C2	5.44	124.27	121.00
16	AH	14	ALA	N-CA-C	-5.44	96.31	111.00
31	AX	155	TYR	N-CA-C	-5.44	96.31	111.00
34	BA	205	G	O4'-C1'-N9	5.44	112.55	108.20
34	BA	575	U	P-O5'-C5'	5.44	129.61	120.90
34	BA	607	C	C2-N1-C1'	5.44	124.78	118.80
34	BA	633	G	C3'-C2'-C1'	-5.44	97.15	101.50
34	BA	1071	G	O4'-C1'-N9	5.44	112.55	108.20
34	BA	1091	U	C6-N1-C1'	5.44	128.82	121.20
34	BA	1348	G	C5'-C4'-C3'	-5.44	107.30	116.00
35	BB	37	C	P-O5'-C5'	-5.44	112.19	120.90
35	BB	404	A	O4'-C1'-N9	5.44	112.55	108.20
35	BB	416	U	C1'-O4'-C4'	-5.44	105.55	109.90
35	BB	810	G	P-O3'-C3'	-5.44	113.17	119.70
35	BB	1124	G	N9-C1'-C2'	-5.44	106.02	112.00
35	BB	1363	A	C8-N9-C4	5.44	107.98	105.80
35	BB	1511	U	C6-N1-C1'	5.44	128.82	121.20
36	BC	86	U	C2-N1-C1'	-5.44	111.17	117.70
37	BD	94	C	O3'-P-O5'	-5.44	93.66	104.00
38	BE	123	A	C5-C6-N1	-5.44	114.98	117.70
38	BE	162	U	P-O3'-C3'	-5.44	113.17	119.70
41	BH	89	C	C2-N1-C1'	5.44	124.78	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
62	Bc	109	ARG	NE-CZ-NH1	5.44	123.02	120.30
85	AA	474	C	O5'-C5'-C4'	-5.44	101.36	111.70
85	AA	549	A	N9-C1'-C2'	-5.44	106.02	112.00
85	AA	898	A	C8-N9-C1'	-5.44	117.91	127.70
85	AA	1057	G	C5'-C4'-C3'	-5.44	107.30	116.00
85	AA	1096	G	P-O3'-C3'	-5.44	113.17	119.70
5	A4	114	LEU	N-CA-C	5.44	125.69	111.00
34	BA	52	G	P-O5'-C5'	-5.44	112.20	120.90
34	BA	284	U	OP1-P-OP2	-5.44	111.44	119.60
34	BA	661	C	C1'-O4'-C4'	-5.44	105.55	109.90
34	BA	820	C	O4'-C1'-N1	5.44	112.55	108.20
34	BA	1613	G	C4-N9-C1'	-5.44	119.43	126.50
34	BA	1617	U	C5-C6-N1	-5.44	119.98	122.70
35	BB	997	G	P-O3'-C3'	-5.44	113.17	119.70
35	BB	1033	U	N1-C1'-C2'	-5.44	106.02	112.00
35	BB	1467	A	P-O5'-C5'	5.44	129.60	120.90
71	Bl	124	VAL	C-N-CA	5.44	135.30	121.70
85	AA	675	A	C8-N9-C1'	5.44	137.49	127.70
1	A0	192	ARG	N-CA-CB	-5.44	100.81	110.60
34	BA	680	C	N3-C4-N4	-5.44	114.19	118.00
34	BA	955	G	O3'-P-O5'	-5.44	93.67	104.00
34	BA	1473	A	C5-C6-N1	5.44	120.42	117.70
34	BA	1489	U	C5-C6-N1	5.44	125.42	122.70
35	BB	598	C	C2-N1-C1'	-5.44	112.82	118.80
35	BB	681	G	C5'-C4'-C3'	-5.44	107.30	116.00
35	BB	1374	U	P-O3'-C3'	-5.44	113.17	119.70
36	BC	73	U	P-O3'-C3'	-5.44	113.17	119.70
36	BC	75	G	C8-N9-C4	-5.44	104.22	106.40
40	BG	137	G	C4-N9-C1'	-5.44	119.43	126.50
47	BN	23	GLN	CB-CA-C	-5.44	99.53	110.40
59	BZ	10	ARG	NE-CZ-NH2	-5.44	117.58	120.30
65	Bf	220	ARG	NE-CZ-NH1	5.44	123.02	120.30
85	AA	478	U	N3-C4-C5	-5.44	111.34	114.60
85	AA	492	C	N3-C2-O2	-5.44	118.09	121.90
85	AA	1132	A	O4'-C4'-C3'	-5.44	98.56	104.00
85	AA	1759	U	O3'-P-O5'	-5.44	93.67	104.00
85	AA	1848	G	C4-N9-C1'	-5.44	119.43	126.50
85	AA	2039	G	O4'-C4'-C3'	-5.44	98.56	104.00
85	AA	2105	G	N9-C1'-C2'	-5.44	106.02	112.00
34	BA	1164	C	N3-C2-O2	-5.44	118.09	121.90
34	BA	1609	U	O4'-C1'-C2'	5.44	112.49	107.60
35	BB	25	A	O4'-C1'-C2'	-5.44	100.36	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1156	U	O4'-C1'-N1	5.44	112.55	108.20
51	BR	30	PHE	CB-CG-CD2	-5.44	117.00	120.80
85	AA	504	U	C3'-C2'-C1'	-5.44	97.15	101.50
85	AA	1811	C	P-O3'-C3'	5.44	126.22	119.70
21	AM	85	LEU	N-CA-C	-5.43	96.33	111.00
34	BA	294	C	C2'-C3'-O3'	5.43	122.39	113.70
34	BA	579	U	C5'-C4'-C3'	-5.43	107.31	116.00
34	BA	598	G	OP1-P-O3'	5.43	117.16	105.20
34	BA	607	C	O4'-C1'-N1	5.43	112.55	108.20
34	BA	859	G	C8-N9-C4	5.43	108.57	106.40
34	BA	1331	G	C4'-C3'-C2'	5.43	108.03	102.60
34	BA	1381	A	C8-N9-C1'	-5.43	117.92	127.70
34	BA	1551	G	C8-N9-C4	5.43	108.57	106.40
35	BB	981	A	O4'-C1'-N9	5.43	112.55	108.20
35	BB	1506	C	O5'-C5'-C4'	5.43	122.03	111.70
36	BC	33	U	N3-C4-O4	5.43	123.20	119.40
38	BE	143	A	N1-C2-N3	-5.43	126.58	129.30
39	BF	60	C	N3-C4-C5	-5.43	119.73	121.90
40	BG	47	G	C4-N9-C1'	-5.43	119.44	126.50
41	BH	101	A	C6-N1-C2	-5.43	115.34	118.60
50	BQ	182	THR	CA-CB-CG2	-5.43	104.79	112.40
54	BU	133	ARG	O-C-N	-5.43	114.00	122.70
85	AA	260	A	C3'-C2'-C1'	5.43	105.85	101.50
85	AA	336	C	N3-C4-N4	5.43	121.80	118.00
85	AA	1547	G	P-O3'-C3'	-5.43	113.18	119.70
85	AA	2177	C	C1'-O4'-C4'	-5.43	105.55	109.90
7	A6	36	ARG	NE-CZ-NH2	-5.43	117.58	120.30
34	BA	6	C	N3-C4-N4	-5.43	114.20	118.00
34	BA	159	U	O4'-C4'-C3'	-5.43	98.57	104.00
34	BA	800	G	C8-N9-C1'	5.43	134.06	127.00
34	BA	876	C	P-O5'-C5'	-5.43	112.21	120.90
34	BA	1598	U	P-O5'-C5'	5.43	129.59	120.90
34	BA	1763	U	O4'-C1'-N1	5.43	112.55	108.20
35	BB	57	G	N9-C4-C5	5.43	107.57	105.40
35	BB	592	G	C5-C6-O6	-5.43	125.34	128.60
36	BC	119	G	N3-C2-N2	5.43	123.70	119.90
40	BG	4	A	C1'-O4'-C4'	-5.43	105.56	109.90
51	BR	23	ARG	NE-CZ-NH2	-5.43	117.58	120.30
61	Bb	114	HIS	N-CA-CB	5.43	120.38	110.60
85	AA	91	U	O3'-P-O5'	5.43	114.32	104.00
85	AA	159	G	O4'-C1'-N9	5.43	112.55	108.20
85	AA	190	A	C8-N9-C4	5.43	107.97	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	559	G	C1'-O4'-C4'	-5.43	105.55	109.90
85	AA	1224	C	N3-C2-O2	-5.43	118.10	121.90
85	AA	1230	U	C4'-C3'-C2'	-5.43	97.17	102.60
85	AA	1338	C	P-O5'-C5'	-5.43	112.21	120.90
85	AA	1458	G	N3-C2-N2	5.43	123.70	119.90
85	AA	1607	A	N7-C8-N9	5.43	116.52	113.80
34	BA	280	A	C5-N7-C8	-5.43	101.18	103.90
34	BA	1468	U	C6-N1-C2	-5.43	117.74	121.00
34	BA	1546	C	P-O5'-C5'	-5.43	112.21	120.90
34	BA	1779	U	C5'-C4'-C3'	-5.43	107.31	116.00
37	BD	77	A	N7-C8-N9	-5.43	111.08	113.80
37	BD	98	G	C4'-C3'-C2'	-5.43	97.17	102.60
38	BE	134	A	C6-C5-N7	5.43	136.10	132.30
40	BG	24	A	O5'-C5'-C4'	5.43	122.02	111.70
40	BG	88	G	C5'-C4'-C3'	-5.43	107.31	116.00
65	Bf	199	ARG	N-CA-CB	-5.43	100.82	110.60
85	AA	464	A	C5-C6-N6	-5.43	119.36	123.70
85	AA	962	U	C5-C6-N1	-5.43	119.98	122.70
85	AA	1211	C	N3-C2-O2	-5.43	118.10	121.90
85	AA	1690	A	N9-C1'-C2'	-5.43	106.03	112.00
33	AZ	38	ALA	N-CA-C	-5.43	96.34	111.00
34	BA	276	C	N1-C2-O2	5.43	122.16	118.90
34	BA	305	C	P-O3'-C3'	-5.43	113.18	119.70
34	BA	415	C	C5-C4-N4	5.43	124.00	120.20
34	BA	1055	U	O4'-C1'-N1	5.43	112.54	108.20
34	BA	1588	U	C5-C6-N1	-5.43	119.99	122.70
35	BB	532	C	N3-C2-O2	-5.43	118.10	121.90
35	BB	624	A	C4'-C3'-C2'	5.43	108.03	102.60
35	BB	1331	U	C6-N1-C1'	-5.43	113.60	121.20
35	BB	1356	G	N3-C4-C5	-5.43	125.89	128.60
35	BB	1514	G	O3'-P-O5'	-5.43	93.69	104.00
36	BC	67	U	N3-C2-O2	-5.43	118.40	122.20
37	BD	88	U	O4'-C1'-C2'	-5.43	100.37	105.80
37	BD	114	U	O5'-P-OP2	-5.43	100.81	105.70
38	BE	163	A	C8-N9-C4	5.43	107.97	105.80
38	BE	185	G	C1'-O4'-C4'	-5.43	105.56	109.90
59	BZ	43	ARG	N-CA-CB	-5.43	100.83	110.60
73	Bn	52	LYS	N-CA-CB	-5.43	100.83	110.60
85	AA	886	A	N1-C6-N6	-5.43	115.34	118.60
85	AA	1448	A	P-O3'-C3'	-5.43	113.18	119.70
85	AA	1677	A	C8-N9-C4	5.43	107.97	105.80
85	AA	1700	C	C2-N1-C1'	-5.43	112.83	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1904	C	O5'-C5'-C4'	-5.43	101.38	111.70
85	AA	2036	A	C5-N7-C8	5.43	106.61	103.90
85	AA	2073	U	O4'-C1'-N1	5.43	112.54	108.20
34	BA	1557	G	C8-N9-C1'	5.43	134.06	127.00
35	BB	76	C	N3-C2-O2	-5.43	118.10	121.90
35	BB	139	G	O5'-C5'-C4'	5.43	122.01	111.70
35	BB	394	A	P-O3'-C3'	-5.43	113.19	119.70
35	BB	1289	G	P-O5'-C5'	5.43	129.59	120.90
35	BB	1487	G	C8-N9-C1'	5.43	134.06	127.00
85	AA	1274	A	P-O5'-C5'	-5.43	112.22	120.90
85	AA	1491	G	C6-C5-N7	-5.43	127.14	130.40
85	AA	2039	G	N1-C2-N3	-5.43	120.64	123.90
34	BA	8	G	C8-N9-C4	5.43	108.57	106.40
34	BA	308	C	C2-N3-C4	-5.43	117.19	119.90
34	BA	315	U	N3-C4-O4	-5.43	115.60	119.40
34	BA	326	A	O4'-C4'-C3'	-5.43	98.57	104.00
34	BA	812	A	C8-N9-C1'	5.43	137.47	127.70
34	BA	965	A	P-O3'-C3'	-5.43	113.19	119.70
34	BA	1192	A	N9-C1'-C2'	-5.43	106.03	112.00
34	BA	1789	A	O3'-P-O5'	5.43	114.31	104.00
35	BB	342	U	O4'-C1'-N1	5.43	112.54	108.20
35	BB	424	U	N3-C2-O2	-5.43	118.40	122.20
35	BB	1100	C	C5-C6-N1	-5.43	118.29	121.00
38	BE	65	U	C6-N1-C2	-5.43	117.74	121.00
50	BQ	111	LEU	N-CA-CB	5.43	121.25	110.40
63	Bd	20	GLY	C-N-CA	5.43	135.27	121.70
85	AA	35	U	C5-C6-N1	5.43	125.41	122.70
85	AA	586	G	C5-C6-N1	5.43	114.21	111.50
85	AA	1522	U	C2-N3-C4	-5.43	123.74	127.00
85	AA	1831	U	O3'-P-O5'	-5.43	93.69	104.00
85	AA	2076	C	N3-C4-N4	-5.43	114.20	118.00
25	AR	11	GLY	N-CA-C	-5.42	99.54	113.10
34	BA	51	C	N3-C4-N4	-5.42	114.20	118.00
34	BA	160	G	C8-N9-C4	5.42	108.57	106.40
34	BA	730	C	P-O3'-C3'	-5.42	113.19	119.70
34	BA	822	U	O3'-P-O5'	5.42	114.31	104.00
34	BA	1032	A	P-O3'-C3'	-5.42	113.19	119.70
34	BA	1154	U	N3-C4-O4	-5.42	115.60	119.40
34	BA	1371	U	C6-N1-C2	-5.42	117.75	121.00
35	BB	115	A	P-O5'-C5'	-5.42	112.22	120.90
35	BB	1108	G	N3-C2-N2	5.42	123.70	119.90
35	BB	1192	C	C6-N1-C2	-5.42	118.13	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1498	G	C5'-C4'-O4'	-5.42	102.59	109.10
38	BE	67	A	C5-C6-N1	5.42	120.41	117.70
38	BE	108	U	C6-N1-C1'	5.42	128.79	121.20
38	BE	125	C	P-O3'-C3'	-5.42	113.19	119.70
39	BF	2	G	C4'-C3'-C2'	-5.42	97.18	102.60
39	BF	56	C	C5'-C4'-O4'	-5.42	102.59	109.10
64	Be	216	HIS	C-N-CA	5.42	135.26	121.70
83	Bx	51	ARG	NE-CZ-NH1	-5.42	117.59	120.30
85	AA	163	C	C5-C4-N4	-5.42	116.40	120.20
85	AA	285	C	C5'-C4'-O4'	5.42	115.61	109.10
85	AA	586	G	N1-C6-O6	5.42	123.15	119.90
85	AA	762	U	C5-C4-O4	-5.42	122.65	125.90
85	AA	1717	G	O4'-C1'-N9	5.42	112.54	108.20
34	BA	16	C	C6-N1-C1'	5.42	127.31	120.80
34	BA	53	G	N9-C4-C5	-5.42	103.23	105.40
35	BB	660	G	C4-N9-C1'	-5.42	119.45	126.50
35	BB	1230	A	O5'-P-OP2	-5.42	100.82	105.70
35	BB	1364	C	C6-N1-C2	-5.42	118.13	120.30
35	BB	1471	A	C8-N9-C1'	-5.42	117.94	127.70
85	AA	190	A	N7-C8-N9	-5.42	111.09	113.80
85	AA	1712	A	C4-N9-C1'	-5.42	116.54	126.30
34	BA	93	A	C8-N9-C1'	5.42	137.46	127.70
34	BA	309	U	C3'-C2'-C1'	-5.42	97.16	101.50
34	BA	687	G	O4'-C1'-N9	5.42	112.54	108.20
34	BA	769	U	C5'-C4'-O4'	5.42	115.61	109.10
34	BA	818	G	O4'-C1'-N9	5.42	112.54	108.20
34	BA	824	C	C6-N1-C2	-5.42	118.13	120.30
34	BA	898	G	C8-N9-C4	-5.42	104.23	106.40
34	BA	1667	G	C5-C6-N1	5.42	114.21	111.50
35	BB	1533	U	O4'-C1'-N1	5.42	112.54	108.20
36	BC	11	G	P-O5'-C5'	-5.42	112.22	120.90
38	BE	103	C	O4'-C1'-N1	5.42	112.54	108.20
48	BO	183	SER	CB-CA-C	5.42	120.40	110.10
66	Bg	69	TYR	CB-CG-CD1	5.42	124.25	121.00
68	Bi	14	ARG	CG-CD-NE	-5.42	100.42	111.80
81	Bv	169	LYS	N-CA-C	-5.42	96.36	111.00
83	Bx	38	SER	N-CA-C	-5.42	96.36	111.00
85	AA	185	A	O4'-C4'-C3'	-5.42	98.58	104.00
85	AA	267	U	C4'-C3'-O3'	5.42	123.84	113.00
85	AA	715	G	N3-C4-C5	-5.42	125.89	128.60
85	AA	779	G	N3-C2-N2	5.42	123.69	119.90
85	AA	811	A	P-O3'-C3'	-5.42	113.19	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1559	U	C5'-C4'-O4'	5.42	115.61	109.10
85	AA	1816	C	N1-C2-N3	-5.42	115.40	119.20
85	AA	1826	U	C6-N1-C2	-5.42	117.75	121.00
85	AA	1991	C	O5'-P-OP2	-5.42	100.82	105.70
34	BA	1145	U	P-O5'-C5'	-5.42	112.23	120.90
34	BA	1534	U	N1-C2-O2	5.42	126.59	122.80
34	BA	1628	A	N7-C8-N9	5.42	116.51	113.80
34	BA	1653	G	C8-N9-C4	5.42	108.57	106.40
35	BB	1119	G	C8-N9-C1'	5.42	134.04	127.00
35	BB	1483	A	C4'-C3'-C2'	5.42	108.02	102.60
45	BL	160	ARG	NE-CZ-NH2	-5.42	117.59	120.30
64	Be	73	LYS	N-CA-C	5.42	125.63	111.00
85	AA	706	U	C2-N1-C1'	-5.42	111.20	117.70
85	AA	879	G	P-O3'-C3'	-5.42	113.20	119.70
85	AA	1205	U	O4'-C1'-N1	5.42	112.54	108.20
85	AA	1291	A	C4'-C3'-C2'	-5.42	97.18	102.60
85	AA	1676	G	C4'-C3'-O3'	-5.42	98.02	109.40
1	A0	108	THR	C-N-CA	5.42	135.25	121.70
15	AG	20	ARG	NE-CZ-NH2	-5.42	117.59	120.30
16	AH	39	ASP	N-CA-CB	-5.42	100.85	110.60
29	AV	44	ARG	NE-CZ-NH1	5.42	123.01	120.30
34	BA	260	A	N9-C4-C5	-5.42	103.63	105.80
34	BA	320	G	C5-C6-N1	5.42	114.21	111.50
34	BA	329	G	N3-C2-N2	5.42	123.69	119.90
34	BA	784	C	N3-C4-C5	5.42	124.07	121.90
34	BA	1001	G	N9-C1'-C2'	-5.42	106.04	112.00
35	BB	127	U	O5'-C5'-C4'	-5.42	101.40	111.70
35	BB	1199	A	P-O5'-C5'	5.42	129.57	120.90
36	BC	26	U	C2'-C3'-O3'	5.42	122.37	113.70
36	BC	55	U	C2-N3-C4	5.42	130.25	127.00
36	BC	84	U	C2-N1-C1'	5.42	124.20	117.70
37	BD	4	U	C1'-O4'-C4'	-5.42	105.56	109.90
40	BG	109	C	C6-N1-C1'	5.42	127.30	120.80
41	BH	5	G	O5'-P-OP2	-5.42	100.82	105.70
67	Bh	146	ARG	NE-CZ-NH1	5.42	123.01	120.30
68	Bi	14	ARG	NE-CZ-NH2	-5.42	117.59	120.30
85	AA	273	C	N1-C2-O2	5.42	122.15	118.90
85	AA	334	A	N1-C6-N6	-5.42	115.35	118.60
85	AA	489	C	C2-N1-C1'	5.42	124.76	118.80
85	AA	496	C	C5'-C4'-C3'	5.42	124.67	116.00
34	BA	210	G	O4'-C1'-N9	5.42	112.53	108.20
34	BA	456	G	C5-C6-O6	-5.42	125.35	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	467	A	N9-C1'-C2'	-5.42	106.04	112.00
34	BA	1299	G	C2'-C3'-O3'	5.42	122.37	113.70
34	BA	1318	G	C4'-C3'-C2'	-5.42	97.18	102.60
34	BA	1323	G	C1'-O4'-C4'	-5.42	105.57	109.90
34	BA	1325	G	N1-C6-O6	5.42	123.15	119.90
34	BA	1840	C	N1-C2-O2	5.42	122.15	118.90
35	BB	78	C	P-O3'-C3'	-5.42	113.20	119.70
35	BB	384	A	C4-N9-C1'	5.42	136.05	126.30
35	BB	465	C	O5'-C5'-C4'	-5.42	101.41	111.70
35	BB	1248	A	C6-N1-C2	-5.42	115.35	118.60
35	BB	1446	C	P-O3'-C3'	5.42	126.20	119.70
38	BE	148	C	N3-C2-O2	-5.42	118.11	121.90
38	BE	162	U	N3-C2-O2	-5.42	118.41	122.20
40	BG	148	C	P-O3'-C3'	-5.42	113.20	119.70
77	Br	250	TRP	CB-CG-CD1	5.42	134.04	127.00
85	AA	467	U	P-O3'-C3'	-5.42	113.20	119.70
85	AA	550	G	N9-C1'-C2'	-5.42	106.04	112.00
85	AA	604	C	O4'-C1'-C2'	-5.42	100.38	105.80
85	AA	660	G	N9-C4-C5	-5.42	103.23	105.40
85	AA	797	C	O4'-C1'-N1	5.42	112.53	108.20
85	AA	1119	A	P-O5'-C5'	-5.42	112.23	120.90
85	AA	1672	G	C3'-C2'-C1'	-5.42	97.17	101.50
85	AA	1816	C	N3-C4-N4	5.42	121.79	118.00
85	AA	2200	A	C4-N9-C1'	-5.42	116.55	126.30
34	BA	175	G	C5-C6-O6	-5.42	125.35	128.60
34	BA	176	G	N9-C1'-C2'	-5.42	106.04	112.00
34	BA	1180	A	O5'-C5'-C4'	-5.42	101.41	111.70
35	BB	387	G	C5'-C4'-C3'	-5.42	107.33	116.00
35	BB	853	U	O3'-P-O5'	5.42	114.29	104.00
35	BB	1167	C	O5'-C5'-C4'	-5.42	101.41	111.70
37	BD	103	C	O4'-C1'-N1	5.42	112.53	108.20
38	BE	197	A	N9-C1'-C2'	-5.42	106.04	112.00
62	Bc	22	ARG	N-CA-C	5.42	125.62	111.00
62	Bc	33	ASN	CA-CB-CG	-5.42	101.49	113.40
85	AA	828	U	C6-N1-C2	-5.42	117.75	121.00
85	AA	1754	G	N1-C6-O6	5.42	123.15	119.90
85	AA	1894	G	C8-N9-C4	5.42	108.57	106.40
3	A2	30	ARG	NE-CZ-NH2	-5.41	117.59	120.30
34	BA	41	U	O4'-C1'-N1	5.41	112.53	108.20
34	BA	122	U	O4'-C1'-C2'	5.41	112.47	107.60
34	BA	454	G	C8-N9-C1'	5.41	134.04	127.00
34	BA	529	A	N1-C2-N3	-5.41	126.59	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	931	G	C8-N9-C4	5.41	108.56	106.40
34	BA	1816	G	N9-C4-C5	-5.41	103.23	105.40
35	BB	343	U	P-O3'-C3'	5.41	126.20	119.70
35	BB	466	A	P-O5'-C5'	-5.41	112.24	120.90
35	BB	505	G	C6-N1-C2	-5.41	121.85	125.10
35	BB	716	G	C5'-C4'-O4'	5.41	115.60	109.10
35	BB	790	A	C5'-C4'-C3'	-5.41	107.34	116.00
35	BB	1183	U	C3'-C2'-C1'	-5.41	97.17	101.50
35	BB	1232	A	C5-N7-C8	-5.41	101.19	103.90
38	BE	39	U	OP1-P-O3'	5.41	117.11	105.20
40	BG	157	A	C5-N7-C8	5.41	106.61	103.90
66	Bg	104	THR	CA-CB-CG2	-5.41	104.82	112.40
85	AA	33	U	C1'-O4'-C4'	-5.41	105.57	109.90
85	AA	116	G	C8-N9-C4	5.41	108.56	106.40
85	AA	588	G	O5'-C5'-C4'	-5.41	101.41	111.70
85	AA	674	U	C5-C6-N1	-5.41	119.99	122.70
85	AA	713	G	P-O5'-C5'	-5.41	112.24	120.90
85	AA	2139	G	O5'-C5'-C4'	-5.41	101.41	111.70
2	A1	51	TYR	CB-CG-CD1	5.41	124.25	121.00
34	BA	96	G	C1'-O4'-C4'	-5.41	105.57	109.90
34	BA	99	G	C1'-O4'-C4'	-5.41	105.57	109.90
34	BA	289	A	C5'-C4'-O4'	-5.41	102.61	109.10
34	BA	614	A	C5'-C4'-C3'	-5.41	107.34	116.00
34	BA	692	U	C4'-C3'-C2'	-5.41	97.19	102.60
34	BA	780	U	C5'-C4'-C3'	5.41	124.66	116.00
34	BA	908	G	P-O3'-C3'	-5.41	113.20	119.70
34	BA	1699	A	C4-C5-C6	-5.41	114.29	117.00
35	BB	740	A	O4'-C1'-N9	5.41	112.53	108.20
35	BB	933	U	O4'-C1'-N1	5.41	112.53	108.20
35	BB	1452	U	O5'-C5'-C4'	-5.41	101.42	111.70
35	BB	1453	G	C8-N9-C1'	5.41	134.04	127.00
38	BE	170	U	C5-C6-N1	-5.41	119.99	122.70
52	BS	115	ARG	NE-CZ-NH1	5.41	123.01	120.30
8	A7	245	PHE	CB-CG-CD1	5.41	124.59	120.80
34	BA	204	U	C6-N1-C2	-5.41	117.75	121.00
34	BA	329	G	C2-N3-C4	5.41	114.61	111.90
34	BA	1049	G	O4'-C1'-N9	5.41	112.53	108.20
34	BA	1432	C	N3-C2-O2	-5.41	118.11	121.90
34	BA	1510	C	O4'-C1'-C2'	5.41	112.47	107.60
35	BB	70	A	N9-C1'-C2'	-5.41	106.05	112.00
35	BB	638	G	O4'-C1'-C2'	5.41	112.47	107.60
35	BB	873	C	C6-N1-C2	-5.41	118.14	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1292	G	P-O3'-C3'	-5.41	113.21	119.70
36	BC	9	G	O5'-C5'-C4'	-5.41	101.42	111.70
40	BG	132	U	P-O5'-C5'	5.41	129.56	120.90
60	Ba	127	PHE	N-CA-CB	-5.41	100.86	110.60
80	Bu	78	ALA	N-CA-CB	5.41	117.67	110.10
85	AA	66	U	OP1-P-O3'	5.41	117.10	105.20
85	AA	388	G	C6-N1-C2	-5.41	121.85	125.10
85	AA	487	G	C5-C6-O6	5.41	131.85	128.60
85	AA	556	C	C5'-C4'-C3'	5.41	124.66	116.00
85	AA	695	A	C4'-C3'-C2'	5.41	108.01	102.60
85	AA	764	U	N1-C2-N3	-5.41	111.65	114.90
85	AA	988	C	C6-N1-C2	-5.41	118.14	120.30
85	AA	1295	G	O4'-C1'-N9	5.41	112.53	108.20
85	AA	2123	U	C5'-C4'-O4'	-5.41	102.61	109.10
85	AA	2246	U	O5'-P-OP2	-5.41	100.83	105.70
15	AG	135	LEU	N-CA-C	-5.41	96.40	111.00
34	BA	236	A	N9-C4-C5	-5.41	103.64	105.80
34	BA	1017	C	N3-C4-N4	-5.41	114.21	118.00
34	BA	1118	C	C4'-C3'-C2'	-5.41	97.19	102.60
34	BA	1633	C	C3'-C2'-C1'	5.41	105.83	101.50
34	BA	1817	G	C6-N1-C2	-5.41	121.86	125.10
35	BB	641	C	C2-N3-C4	-5.41	117.20	119.90
35	BB	1024	G	C6-N1-C2	-5.41	121.86	125.10
35	BB	1041	A	C4'-C3'-O3'	5.41	123.82	113.00
35	BB	1134	G	N3-C2-N2	5.41	123.69	119.90
35	BB	1199	A	C1'-O4'-C4'	-5.41	105.57	109.90
35	BB	1286	G	C4'-C3'-C2'	5.41	108.01	102.60
35	BB	1470	G	C5'-C4'-C3'	5.41	124.65	116.00
65	Bf	425	HIS	C-N-CA	5.41	133.66	122.30
85	AA	179	G	P-O3'-C3'	5.41	126.19	119.70
85	AA	213	G	O4'-C1'-N9	5.41	112.53	108.20
85	AA	453	G	N3-C2-N2	5.41	123.69	119.90
85	AA	852	C	N3-C4-N4	5.41	121.79	118.00
85	AA	929	G	C3'-C2'-C1'	5.41	105.83	101.50
85	AA	2199	G	P-O5'-C5'	-5.41	112.25	120.90
34	BA	401	A	O3'-P-O5'	-5.41	93.73	104.00
34	BA	458	G	C5'-C4'-C3'	-5.41	107.35	116.00
34	BA	532	C	N3-C4-C5	-5.41	119.74	121.90
34	BA	1067	G	C1'-O4'-C4'	-5.41	105.57	109.90
34	BA	1568	A	C6-N1-C2	-5.41	115.36	118.60
85	AA	338	G	C8-N9-C1'	5.41	134.03	127.00
85	AA	426	C	C2-N3-C4	5.41	122.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	830	A	C4-C5-C6	-5.41	114.30	117.00
85	AA	1281	G	N9-C1'-C2'	-5.41	106.05	112.00
10	A9	150	TYR	CB-CG-CD1	5.41	124.24	121.00
12	AD	33	TRP	CA-C-N	-5.41	105.31	117.20
34	BA	128	C	P-O3'-C3'	-5.41	113.21	119.70
34	BA	942	G	O4'-C1'-N9	5.41	112.53	108.20
34	BA	1561	C	N3-C4-N4	5.41	121.78	118.00
34	BA	1661	U	C3'-C2'-C1'	-5.41	97.18	101.50
35	BB	280	C	P-O3'-C3'	5.41	126.19	119.70
35	BB	611	U	O5'-C5'-C4'	-5.41	101.43	111.70
35	BB	859	U	O4'-C1'-N1	5.41	112.53	108.20
35	BB	1031	G	C5-C6-N1	5.41	114.20	111.50
35	BB	1035	C	P-O3'-C3'	-5.41	113.21	119.70
35	BB	1208	G	N3-C2-N2	5.41	123.68	119.90
35	BB	1215	U	N3-C2-O2	-5.41	118.42	122.20
36	BC	20	C	N3-C4-C5	-5.41	119.74	121.90
77	Br	307	PRO	C-N-CA	5.41	135.21	121.70
85	AA	794	A	C5'-C4'-O4'	5.41	115.59	109.10
85	AA	2042	G	N7-C8-N9	-5.41	110.40	113.10
34	BA	79	C	N1-C1'-C2'	-5.40	106.06	112.00
34	BA	635	G	O4'-C4'-C3'	-5.40	98.60	104.00
34	BA	1275	G	C3'-C2'-C1'	-5.40	97.18	101.50
35	BB	131	A	C8-N9-C1'	5.40	137.43	127.70
35	BB	496	C	C6-N1-C2	-5.40	118.14	120.30
35	BB	1254	G	C8-N9-C1'	5.40	134.03	127.00
37	BD	81	C	C5-C6-N1	-5.40	118.30	121.00
74	Bo	67	GLY	N-CA-C	5.40	126.61	113.10
85	AA	388	G	C5'-C4'-O4'	5.40	115.58	109.10
34	BA	148	G	C3'-C2'-C1'	5.40	105.82	101.50
34	BA	422	C	C6-N1-C2	-5.40	118.14	120.30
34	BA	1064	A	C4-N9-C1'	-5.40	116.58	126.30
34	BA	1800	G	O3'-P-O5'	5.40	114.27	104.00
34	BA	1807	G	O4'-C1'-N9	5.40	112.52	108.20
34	BA	1814	U	N1-C2-N3	5.40	118.14	114.90
35	BB	133	G	C4-N9-C1'	-5.40	119.48	126.50
35	BB	139	G	C4'-C3'-C2'	-5.40	97.20	102.60
35	BB	499	A	C4-N9-C1'	-5.40	116.58	126.30
35	BB	657	A	OP1-P-O3'	5.40	117.09	105.20
35	BB	792	G	C4-C5-N7	5.40	112.96	110.80
35	BB	828	G	O4'-C1'-N9	5.40	112.52	108.20
35	BB	956	G	N7-C8-N9	5.40	115.80	113.10
35	BB	1210	U	P-O3'-C3'	-5.40	113.22	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1310	C	C5'-C4'-O4'	5.40	115.58	109.10
35	BB	1467	A	C4'-C3'-O3'	5.40	123.81	113.00
37	BD	110	G	N7-C8-N9	-5.40	110.40	113.10
40	BG	119	A	C5-C6-N6	-5.40	119.38	123.70
40	BG	139	U	N1-C1'-C2'	-5.40	106.06	112.00
73	Bn	11	ARG	CD-NE-CZ	-5.40	116.04	123.60
77	Br	198	ARG	NE-CZ-NH2	5.40	123.00	120.30
84	By	88	PHE	CB-CG-CD2	-5.40	117.02	120.80
85	AA	418	G	C4-C5-C6	-5.40	115.56	118.80
85	AA	1087	G	P-O5'-C5'	-5.40	112.26	120.90
85	AA	1257	A	P-O5'-C5'	-5.40	112.26	120.90
85	AA	2083	G	N1-C6-O6	-5.40	116.66	119.90
3	A2	157	GLU	N-CA-CB	-5.40	100.88	110.60
26	AS	22	TRP	CB-CG-CD2	-5.40	119.58	126.60
34	BA	974	G	C6-N1-C2	-5.40	121.86	125.10
34	BA	1704	G	C5'-C4'-O4'	5.40	115.58	109.10
35	BB	361	A	O4'-C1'-N9	5.40	112.52	108.20
35	BB	623	A	C5-C6-N6	-5.40	119.38	123.70
35	BB	1104	A	N1-C6-N6	-5.40	115.36	118.60
35	BB	1126	A	C5'-C4'-O4'	5.40	115.58	109.10
35	BB	1165	A	C8-N9-C1'	5.40	137.42	127.70
35	BB	1338	U	C5'-C4'-C3'	-5.40	107.36	116.00
35	BB	1401	G	C1'-O4'-C4'	-5.40	105.58	109.90
37	BD	52	U	P-O5'-C5'	5.40	129.54	120.90
38	BE	170	U	N1-C2-O2	5.40	126.58	122.80
49	BP	17	ARG	NE-CZ-NH1	5.40	123.00	120.30
65	Bf	274	CYS	N-CA-CB	5.40	120.32	110.60
85	AA	103	U	C5'-C4'-O4'	5.40	115.58	109.10
85	AA	395	G	O3'-P-O5'	-5.40	93.74	104.00
85	AA	486	G	C8-N9-C4	5.40	108.56	106.40
85	AA	830	A	C5'-C4'-O4'	-5.40	102.62	109.10
85	AA	1524	A	P-O3'-C3'	-5.40	113.22	119.70
85	AA	1786	G	C1'-O4'-C4'	-5.40	105.58	109.90
85	AA	1885	A	C4'-C3'-C2'	5.40	108.00	102.60
31	AX	119	MET	CA-CB-CG	5.40	122.48	113.30
34	BA	142	A	O3'-P-O5'	-5.40	93.74	104.00
34	BA	590	U	P-O5'-C5'	5.40	129.54	120.90
34	BA	666	C	C1'-O4'-C4'	-5.40	105.58	109.90
34	BA	1472	G	N9-C4-C5	-5.40	103.24	105.40
35	BB	421	U	C3'-C2'-C1'	-5.40	97.18	101.50
35	BB	1230	A	OP1-P-OP2	-5.40	111.50	119.60
35	BB	1464	G	C3'-C2'-C1'	5.40	105.82	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1529	G	P-O5'-C5'	-5.40	112.26	120.90
36	BC	25	C	P-O5'-C5'	5.40	129.54	120.90
85	AA	815	G	C5'-C4'-O4'	5.40	115.58	109.10
85	AA	1491	G	C4-N9-C1'	-5.40	119.48	126.50
85	AA	2104	C	C5'-C4'-C3'	5.40	124.64	116.00
85	AA	2246	U	C3'-C2'-C1'	5.40	105.82	101.50
34	BA	218	G	N3-C2-N2	5.40	123.68	119.90
34	BA	289	A	N9-C4-C5	-5.40	103.64	105.80
34	BA	350	C	N3-C2-O2	-5.40	118.12	121.90
34	BA	521	C	O4'-C4'-C3'	-5.40	98.60	104.00
34	BA	708	C	C4'-C3'-C2'	5.40	108.00	102.60
34	BA	709	C	O4'-C1'-N1	5.40	112.52	108.20
34	BA	761	U	C1'-O4'-C4'	-5.40	105.58	109.90
34	BA	997	U	C1'-O4'-C4'	-5.40	105.58	109.90
34	BA	1311	G	C8-N9-C4	5.40	108.56	106.40
34	BA	1426	A	C3'-C2'-C1'	5.40	105.82	101.50
34	BA	1463	U	O5'-C5'-C4'	-5.40	101.44	111.70
35	BB	132	G	C6-N1-C2	-5.40	121.86	125.10
35	BB	474	G	C3'-C2'-C1'	-5.40	97.18	101.50
35	BB	975	G	O5'-C5'-C4'	-5.40	101.44	111.70
35	BB	1362	G	C6-N1-C2	-5.40	121.86	125.10
38	BE	88	G	C2'-C3'-O3'	5.40	122.34	113.70
38	BE	127	G	N3-C2-N2	5.40	123.68	119.90
39	BF	28	C	P-O3'-C3'	-5.40	113.22	119.70
40	BG	102	G	C4'-C3'-C2'	-5.40	97.20	102.60
41	BH	26	C	C2-N1-C1'	5.40	124.74	118.80
85	AA	192	G	N3-C4-N9	5.40	129.24	126.00
85	AA	965	G	C2'-C3'-O3'	5.40	122.34	113.70
85	AA	1010	U	N3-C2-O2	-5.40	118.42	122.20
85	AA	1211	C	P-O5'-C5'	-5.40	112.26	120.90
85	AA	1448	A	C5'-C4'-O4'	-5.40	102.62	109.10
85	AA	1998	A	O4'-C1'-N9	5.40	112.52	108.20
85	AA	2087	C	O4'-C1'-C2'	5.40	112.46	107.60
85	AA	2092	A	C2'-C3'-O3'	5.40	122.34	113.70
85	AA	2234	C	O4'-C1'-C2'	5.40	112.46	107.60
34	BA	754	G	N3-C2-N2	-5.40	116.12	119.90
34	BA	1516	G	C5-C6-O6	-5.40	125.36	128.60
34	BA	1803	A	N7-C8-N9	-5.40	111.10	113.80
36	BC	95	A	C4'-C3'-C2'	5.40	108.00	102.60
77	Br	186	ARG	NE-CZ-NH1	5.40	123.00	120.30
85	AA	148	G	C5'-C4'-C3'	-5.40	107.37	116.00
85	AA	1670	U	P-O5'-C5'	-5.40	112.27	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	AR	83	VAL	N-CA-C	-5.39	96.43	111.00
34	BA	734	G	C8-N9-C4	5.39	108.56	106.40
34	BA	757	G	N9-C4-C5	-5.39	103.24	105.40
34	BA	1241	U	C3'-C2'-C1'	-5.39	97.19	101.50
34	BA	1711	G	C4-C5-C6	-5.39	115.56	118.80
35	BB	688	U	C4'-C3'-C2'	5.39	107.99	102.60
35	BB	999	G	C1'-O4'-C4'	-5.39	105.58	109.90
35	BB	1049	G	N3-C2-N2	5.39	123.68	119.90
35	BB	1086	G	N9-C1'-C2'	-5.39	106.07	112.00
35	BB	1169	A	O5'-C5'-C4'	-5.39	101.45	111.70
35	BB	1487	G	C8-N9-C4	-5.39	104.24	106.40
37	BD	60	C	N3-C2-O2	-5.39	118.12	121.90
37	BD	93	G	C4'-C3'-C2'	-5.39	97.20	102.60
41	BH	17	A	P-O5'-C5'	-5.39	112.27	120.90
85	AA	386	G	C5-C6-O6	-5.39	125.36	128.60
85	AA	455	G	O4'-C1'-C2'	5.39	112.45	107.60
85	AA	455	G	C4-C5-C6	-5.39	115.56	118.80
85	AA	486	G	N7-C8-N9	-5.39	110.40	113.10
85	AA	2001	C	C5'-C4'-O4'	5.39	115.57	109.10
34	BA	157	U	OP1-P-OP2	-5.39	111.51	119.60
34	BA	364	C	N3-C2-O2	-5.39	118.12	121.90
34	BA	420	A	N1-C6-N6	5.39	121.84	118.60
34	BA	518	C	O4'-C1'-N1	5.39	112.51	108.20
34	BA	1428	G	C5-C6-O6	-5.39	125.36	128.60
34	BA	1719	G	N3-C4-C5	-5.39	125.90	128.60
34	BA	1818	A	N3-C4-N9	-5.39	123.09	127.40
34	BA	1832	A	C8-N9-C1'	5.39	137.41	127.70
35	BB	781	U	C2-N3-C4	-5.39	123.77	127.00
35	BB	797	C	C5'-C4'-O4'	-5.39	102.63	109.10
35	BB	1047	C	N1-C2-O2	5.39	122.14	118.90
35	BB	1502	U	O4'-C1'-N1	5.39	112.51	108.20
36	BC	22	U	C5'-C4'-C3'	-5.39	107.37	116.00
36	BC	78	G	C6-N1-C2	-5.39	121.86	125.10
37	BD	16	U	P-O3'-C3'	-5.39	113.23	119.70
40	BG	163	G	C4-C5-N7	5.39	112.96	110.80
85	AA	355	G	C8-N9-C4	5.39	108.56	106.40
85	AA	1001	G	N3-C2-N2	5.39	123.67	119.90
85	AA	1444	U	N3-C2-O2	-5.39	118.43	122.20
85	AA	1899	A	C5'-C4'-O4'	-5.39	102.63	109.10
85	AA	1927	G	OP2-P-O3'	5.39	117.06	105.20
85	AA	2214	A	O4'-C1'-N9	5.39	112.51	108.20
34	BA	212	A	O5'-C5'-C4'	-5.39	101.46	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	573	U	C2-N3-C4	-5.39	123.77	127.00
34	BA	795	G	N1-C6-O6	5.39	123.14	119.90
34	BA	871	G	O3'-P-O5'	-5.39	93.76	104.00
34	BA	1119	A	C4-C5-C6	-5.39	114.30	117.00
34	BA	1356	C	P-O3'-C3'	-5.39	113.23	119.70
34	BA	1666	U	N1-C1'-C2'	-5.39	106.07	112.00
34	BA	1777	U	O4'-C1'-N1	5.39	112.51	108.20
34	BA	1844	U	C2-N1-C1'	-5.39	111.23	117.70
35	BB	1360	A	C1'-O4'-C4'	-5.39	105.59	109.90
77	Br	54	ASN	CB-CA-C	5.39	121.18	110.40
85	AA	886	A	C5'-C4'-O4'	5.39	115.57	109.10
86	AB	66	U	C5'-C4'-C3'	5.39	124.62	116.00
2	A1	127	TYR	CB-CG-CD1	-5.39	117.77	121.00
34	BA	430	A	P-O3'-C3'	-5.39	113.23	119.70
34	BA	1175	G	N9-C1'-C2'	-5.39	106.07	112.00
34	BA	1470	G	C8-N9-C1'	5.39	134.01	127.00
35	BB	430	A	N9-C1'-C2'	-5.39	106.07	112.00
35	BB	1164	U	O5'-C5'-C4'	-5.39	101.46	111.70
35	BB	1415	G	O4'-C1'-N9	5.39	112.51	108.20
40	BG	64	C	C5'-C4'-C3'	-5.39	107.38	116.00
40	BG	80	G	C8-N9-C4	-5.39	104.24	106.40
41	BH	30	C	C4'-C3'-C2'	-5.39	97.21	102.60
64	Be	132	ASP	CA-CB-CG	-5.39	101.54	113.40
85	AA	96	C	N3-C2-O2	-5.39	118.13	121.90
85	AA	1091	C	P-O5'-C5'	5.39	129.52	120.90
85	AA	1499	G	C5-C6-N1	5.39	114.19	111.50
85	AA	1732	G	C6-N1-C2	-5.39	121.87	125.10
85	AA	2120	C	O4'-C1'-N1	5.39	112.51	108.20
85	AA	2200	A	N7-C8-N9	-5.39	111.11	113.80
5	A4	190	PHE	C-N-CA	5.39	135.17	121.70
34	BA	151	A	C8-N9-C4	-5.39	103.64	105.80
34	BA	251	U	N1-C1'-C2'	-5.39	106.07	112.00
34	BA	647	U	OP1-P-OP2	-5.39	111.52	119.60
35	BB	366	G	C3'-C2'-C1'	-5.39	97.19	101.50
35	BB	562	A	N1-C6-N6	-5.39	115.37	118.60
35	BB	677	U	O5'-P-OP2	-5.39	100.85	105.70
35	BB	1334	C	C5'-C4'-O4'	5.39	115.57	109.10
35	BB	1373	U	N1-C2-O2	5.39	126.57	122.80
38	BE	72	C	N3-C4-N4	5.39	121.77	118.00
38	BE	104	G	O4'-C4'-C3'	-5.39	98.61	104.00
39	BF	6	C	C3'-C2'-C1'	-5.39	97.19	101.50
40	BG	95	U	C5'-C4'-C3'	-5.39	107.38	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BN	149	LYS	N-CA-C	-5.39	96.45	111.00
64	Be	196	TRP	CB-CG-CD2	-5.39	119.60	126.60
85	AA	357	C	N3-C4-C5	-5.39	119.75	121.90
85	AA	1126	G	N1-C2-N2	-5.39	111.35	116.20
24	AQ	41	ARG	CG-CD-NE	-5.39	100.49	111.80
34	BA	292	C	O5'-C5'-C4'	-5.39	101.47	111.70
34	BA	630	U	C4'-C3'-C2'	-5.39	97.21	102.60
34	BA	1201	G	O4'-C1'-N9	5.39	112.51	108.20
35	BB	278	U	O3'-P-O5'	-5.39	93.77	104.00
35	BB	506	G	C5-C6-O6	5.39	131.83	128.60
35	BB	511	A	C8-N9-C4	-5.39	103.64	105.80
35	BB	994	A	C5'-C4'-C3'	-5.39	107.38	116.00
39	BF	35	C	O4'-C1'-N1	5.39	112.51	108.20
42	BI	176	ARG	NE-CZ-NH1	5.39	122.99	120.30
48	BO	208	MET	N-CA-C	-5.39	96.46	111.00
85	AA	110	U	C2'-C3'-O3'	5.39	122.32	113.70
85	AA	216	U	C6-N1-C1'	-5.39	113.66	121.20
85	AA	724	A	O4'-C1'-N9	5.39	112.51	108.20
85	AA	1356	U	C2-N1-C1'	5.39	124.16	117.70
85	AA	1472	G	C8-N9-C1'	5.39	134.00	127.00
85	AA	1491	G	C8-N9-C4	5.39	108.56	106.40
85	AA	1668	G	N1-C6-O6	-5.39	116.67	119.90
85	AA	1975	G	N7-C8-N9	5.39	115.79	113.10
85	AA	2031	C	O4'-C1'-N1	5.39	112.51	108.20
5	A4	40	ARG	NE-CZ-NH1	5.38	122.99	120.30
20	AL	111	ARG	NE-CZ-NH1	5.38	122.99	120.30
34	BA	310	C	N1-C1'-C2'	-5.38	106.08	112.00
34	BA	653	U	C1'-O4'-C4'	-5.38	105.59	109.90
34	BA	679	U	C4'-C3'-C2'	5.38	107.98	102.60
34	BA	758	G	C5'-C4'-C3'	-5.38	107.39	116.00
34	BA	809	U	O3'-P-O5'	-5.38	93.77	104.00
34	BA	917	C	C3'-C2'-C1'	-5.38	97.19	101.50
34	BA	1176	C	C4'-C3'-O3'	-5.38	98.09	109.40
34	BA	1269	C	P-O5'-C5'	-5.38	112.28	120.90
34	BA	1299	G	C5'-C4'-C3'	5.38	124.62	116.00
34	BA	1665	G	C5-C6-N1	5.38	114.19	111.50
34	BA	1691	G	O4'-C1'-N9	5.38	112.51	108.20
35	BB	423	G	C4-N9-C1'	-5.38	119.50	126.50
35	BB	657	A	O5'-C5'-C4'	-5.38	101.47	111.70
35	BB	1172	U	C4'-C3'-C2'	5.38	107.98	102.60
36	BC	129	C	C5-C6-N1	5.38	123.69	121.00
40	BG	28	A	N7-C8-N9	-5.38	111.11	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	81	G	O5'-C5'-C4'	-5.38	101.47	111.70
68	Bi	50	GLN	N-CA-C	5.38	125.54	111.00
85	AA	159	G	N3-C2-N2	-5.38	116.13	119.90
85	AA	283	A	C4'-C3'-C2'	-5.38	97.22	102.60
85	AA	313	A	P-O5'-C5'	-5.38	112.28	120.90
85	AA	355	G	C1'-O4'-C4'	-5.38	105.59	109.90
85	AA	480	U	C6-N1-C1'	5.38	128.74	121.20
85	AA	769	C	O5'-C5'-C4'	-5.38	101.47	111.70
85	AA	882	C	P-O3'-C3'	5.38	126.16	119.70
85	AA	1897	A	P-O3'-C3'	5.38	126.16	119.70
85	AA	2125	A	C4'-C3'-O3'	-5.38	98.09	109.40
19	AK	144	PHE	CA-CB-CG	5.38	126.82	113.90
34	BA	664	C	C2-N1-C1'	-5.38	112.88	118.80
34	BA	1651	C	C2'-C3'-O3'	5.38	122.31	113.70
34	BA	1806	A	C4'-C3'-C2'	-5.38	97.22	102.60
40	BG	111	C	O4'-C1'-N1	5.38	112.51	108.20
40	BG	153	C	C6-N1-C1'	5.38	127.26	120.80
56	BW	26	ASN	CA-CB-CG	-5.38	101.56	113.40
85	AA	781	G	O4'-C1'-N9	5.38	112.51	108.20
85	AA	835	C	C6-N1-C1'	5.38	127.26	120.80
85	AA	1532	G	C5-C6-O6	-5.38	125.37	128.60
15	AG	69	ARG	CG-CD-NE	-5.38	100.50	111.80
33	AZ	41	GLY	N-CA-C	-5.38	99.64	113.10
34	BA	372	U	C2-N3-C4	-5.38	123.77	127.00
34	BA	575	U	O4'-C4'-C3'	-5.38	98.62	104.00
34	BA	734	G	C6-N1-C2	-5.38	121.87	125.10
34	BA	1048	C	O4'-C1'-N1	5.38	112.50	108.20
34	BA	1642	A	P-O3'-C3'	-5.38	113.24	119.70
34	BA	1808	A	N9-C4-C5	5.38	107.95	105.80
35	BB	445	G	P-O3'-C3'	-5.38	113.24	119.70
35	BB	600	C	C5-C4-N4	5.38	123.97	120.20
35	BB	671	A	C3'-C2'-C1'	5.38	105.81	101.50
35	BB	737	C	C6-N1-C2	-5.38	118.15	120.30
40	BG	86	U	O4'-C4'-C3'	-5.38	98.62	104.00
77	Br	99	ARG	N-CA-CB	5.38	120.29	110.60
85	AA	258	G	P-O3'-C3'	-5.38	113.24	119.70
85	AA	300	C	C2'-C3'-O3'	5.38	122.31	113.70
85	AA	409	C	N3-C2-O2	-5.38	118.13	121.90
85	AA	526	G	C8-N9-C4	-5.38	104.25	106.40
85	AA	1523	G	O3'-P-O5'	5.38	114.23	104.00
85	AA	1703	A	P-O3'-C3'	5.38	126.16	119.70
85	AA	2027	U	N3-C2-O2	-5.38	118.43	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	370	U	N3-C2-O2	-5.38	118.43	122.20
34	BA	1461	A	C1'-O4'-C4'	-5.38	105.60	109.90
35	BB	1293	C	C5'-C4'-C3'	-5.38	107.39	116.00
41	BH	74	G	N3-C2-N2	5.38	123.67	119.90
6	A5	72	SER	N-CA-C	-5.38	96.48	111.00
13	AE	105	ASN	CA-CB-CG	-5.38	101.57	113.40
34	BA	149	G	P-O3'-C3'	-5.38	113.25	119.70
34	BA	254	U	N1-C1'-C2'	-5.38	106.08	112.00
34	BA	432	A	C2-N3-C4	-5.38	107.91	110.60
34	BA	1540	C	P-O5'-C5'	-5.38	112.30	120.90
34	BA	1600	G	C6-C5-N7	5.38	133.63	130.40
34	BA	1627	U	C4'-C3'-C2'	5.38	107.98	102.60
35	BB	42	A	P-O3'-C3'	-5.38	113.25	119.70
35	BB	144	G	C5-C6-O6	-5.38	125.37	128.60
35	BB	545	C	C1'-O4'-C4'	5.38	114.20	109.90
35	BB	1045	G	C4-N9-C1'	-5.38	119.51	126.50
35	BB	1187	G	C3'-C2'-C1'	-5.38	97.20	101.50
35	BB	1357	C	O4'-C1'-N1	5.38	112.50	108.20
35	BB	1456	G	N1-C6-O6	5.38	123.13	119.90
36	BC	18	G	C8-N9-C1'	5.38	133.99	127.00
38	BE	48	G	O5'-C5'-C4'	-5.38	101.48	111.70
39	BF	45	G	C3'-C2'-C1'	-5.38	97.20	101.50
40	BG	38	A	N7-C8-N9	-5.38	111.11	113.80
40	BG	52	A	C3'-C2'-C1'	-5.38	97.20	101.50
40	BG	88	G	N3-C4-C5	-5.38	125.91	128.60
41	BH	59	G	C8-N9-C4	-5.38	104.25	106.40
42	BI	105	LEU	N-CA-C	5.38	125.52	111.00
56	BW	17	LEU	C-N-CA	5.38	135.14	121.70
67	Bh	29	ALA	N-CA-C	-5.38	96.48	111.00
85	AA	329	G	C5'-C4'-O4'	5.38	115.56	109.10
85	AA	470	C	O4'-C1'-N1	5.38	112.50	108.20
85	AA	787	U	O4'-C4'-C3'	5.38	110.40	106.10
85	AA	904	U	P-O3'-C3'	-5.38	113.25	119.70
85	AA	1464	G	C4-N9-C1'	-5.38	119.51	126.50
14	AF	116	ARG	CG-CD-NE	-5.38	100.51	111.80
34	BA	351	A	O4'-C1'-N9	5.38	112.50	108.20
34	BA	386	A	O5'-C5'-C4'	5.38	121.92	111.70
34	BA	429	G	C5'-C4'-C3'	-5.38	107.40	116.00
34	BA	805	A	OP1-P-O3'	5.38	117.03	105.20
34	BA	999	G	C3'-C2'-C1'	-5.38	97.20	101.50
34	BA	1325	G	C1'-O4'-C4'	-5.38	105.60	109.90
34	BA	1496	G	C5-C6-N1	5.38	114.19	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1509	U	O3'-P-O5'	5.38	114.22	104.00
35	BB	14	C	C1'-O4'-C4'	-5.38	105.60	109.90
35	BB	141	G	O4'-C1'-N9	5.38	112.50	108.20
35	BB	835	C	C2-N3-C4	-5.38	117.21	119.90
35	BB	857	G	P-O3'-C3'	-5.38	113.25	119.70
37	BD	31	U	C3'-C2'-C1'	-5.38	97.20	101.50
41	BH	13	C	P-O5'-C5'	-5.38	112.30	120.90
42	BI	27	LYS	N-CA-CB	-5.38	100.92	110.60
78	Bs	20	CYS	CB-CA-C	-5.38	99.65	110.40
85	AA	490	A	C5'-C4'-O4'	5.38	115.55	109.10
85	AA	660	G	N3-C2-N2	5.38	123.66	119.90
85	AA	800	A	N9-C4-C5	5.38	107.95	105.80
85	AA	859	G	P-O3'-C3'	-5.38	113.25	119.70
85	AA	1197	U	C5-C4-O4	5.38	129.13	125.90
85	AA	1557	U	C6-N1-C2	-5.38	117.77	121.00
85	AA	2093	U	C4'-C3'-C2'	-5.38	97.22	102.60
85	AA	2199	G	O4'-C4'-C3'	-5.38	98.62	104.00
86	AB	69	G	C5-C6-O6	-5.38	125.37	128.60
35	BB	382	U	C4'-C3'-C2'	-5.38	97.22	102.60
35	BB	1144	A	P-O3'-C3'	-5.38	113.25	119.70
40	BG	87	G	C1'-O4'-C4'	-5.38	105.60	109.90
41	BH	85	C	C2'-C3'-O3'	5.38	122.30	113.70
61	Bb	45	PHE	CA-CB-CG	-5.38	101.00	113.90
85	AA	1483	A	C5-C6-N1	5.38	120.39	117.70
7	A6	158	ALA	N-CA-C	-5.37	96.49	111.00
34	BA	135	G	O4'-C4'-C3'	-5.37	98.63	104.00
34	BA	486	G	N1-C6-O6	5.37	123.12	119.90
34	BA	487	A	OP2-P-O3'	5.37	117.02	105.20
34	BA	575	U	N1-C2-O2	5.37	126.56	122.80
34	BA	1173	C	O4'-C1'-N1	5.37	112.50	108.20
34	BA	1177	C	C2-N3-C4	5.37	122.59	119.90
34	BA	1228	G	C5-C6-O6	-5.37	125.38	128.60
34	BA	1707	C	O4'-C1'-C2'	5.37	112.44	107.60
34	BA	1784	G	O4'-C1'-N9	5.37	112.50	108.20
35	BB	528	G	N9-C1'-C2'	-5.37	106.09	112.00
35	BB	684	U	O4'-C1'-N1	5.37	112.50	108.20
35	BB	852	G	N1-C2-N2	-5.37	111.36	116.20
35	BB	977	G	C2-N3-C4	-5.37	109.21	111.90
35	BB	1051	U	N1-C2-O2	5.37	126.56	122.80
38	BE	183	C	C5-C6-N1	5.37	123.69	121.00
39	BF	56	C	N3-C4-N4	5.37	121.76	118.00
41	BH	13	C	C5-C4-N4	-5.37	116.44	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	94	C	C5'-C4'-C3'	-5.37	107.40	116.00
85	AA	251	A	C8-N9-C1'	-5.37	118.03	127.70
85	AA	327	G	N3-C4-N9	5.37	129.22	126.00
85	AA	1450	U	C2-N3-C4	-5.37	123.78	127.00
85	AA	1456	A	O4'-C4'-C3'	-5.37	98.63	104.00
85	AA	1845	G	N9-C1'-C2'	-5.37	106.09	112.00
85	AA	1953	G	C5-C6-O6	-5.37	125.38	128.60
85	AA	1979	A	P-O3'-C3'	5.37	126.15	119.70
34	BA	306	G	N3-C2-N2	5.37	123.66	119.90
34	BA	500	C	N3-C2-O2	-5.37	118.14	121.90
34	BA	517	A	N9-C4-C5	-5.37	103.65	105.80
34	BA	776	U	C2-N1-C1'	-5.37	111.25	117.70
34	BA	961	C	C5'-C4'-O4'	5.37	115.55	109.10
34	BA	1019	C	C5'-C4'-O4'	5.37	115.55	109.10
34	BA	1184	A	N9-C4-C5	5.37	107.95	105.80
34	BA	1278	A	C3'-C2'-C1'	-5.37	97.20	101.50
34	BA	1566	G	C5-C6-N1	5.37	114.19	111.50
34	BA	1739	G	C8-N9-C4	-5.37	104.25	106.40
35	BB	65	A	C5-C6-N1	5.37	120.39	117.70
35	BB	495	A	C5'-C4'-O4'	5.37	115.55	109.10
35	BB	978	C	C3'-C2'-C1'	-5.37	97.20	101.50
35	BB	1405	G	P-O3'-C3'	-5.37	113.25	119.70
35	BB	1464	G	N9-C1'-C2'	5.37	120.98	114.00
35	BB	1512	C	N3-C2-O2	-5.37	118.14	121.90
38	BE	32	U	C4-C5-C6	-5.37	116.48	119.70
38	BE	118	C	C3'-C2'-C1'	-5.37	97.20	101.50
85	AA	421	G	C5-C6-O6	5.37	131.82	128.60
85	AA	589	A	O5'-C5'-C4'	5.37	121.91	111.70
85	AA	731	U	O5'-C5'-C4'	-5.37	101.50	111.70
85	AA	1274	A	N1-C6-N6	-5.37	115.38	118.60
85	AA	1465	C	C3'-C2'-C1'	-5.37	97.20	101.50
85	AA	1799	C	C4'-C3'-C2'	-5.37	97.23	102.60
85	AA	2083	G	C6-N1-C2	-5.37	121.88	125.10
85	AA	2193	A	N1-C6-N6	5.37	121.82	118.60
85	AA	2204	A	C4-N9-C1'	-5.37	116.63	126.30
34	BA	223	U	N3-C4-C5	5.37	117.82	114.60
35	BB	527	U	C5-C6-N1	5.37	125.39	122.70
35	BB	583	G	P-O3'-C3'	-5.37	113.26	119.70
35	BB	677	U	P-O5'-C5'	-5.37	112.31	120.90
65	Bf	320	VAL	N-CA-C	-5.37	96.50	111.00
65	Bf	346	SER	CA-C-O	-5.37	108.82	120.10
74	Bo	50	LYS	N-CA-C	-5.37	96.50	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	488	G	O3'-P-O5'	5.37	114.20	104.00
85	AA	1846	G	N3-C2-N2	5.37	123.66	119.90
85	AA	1880	C	P-O3'-C3'	5.37	126.14	119.70
16	AH	59	ARG	NE-CZ-NH2	-5.37	117.62	120.30
34	BA	464	U	P-O3'-C3'	-5.37	113.26	119.70
34	BA	1084	A	C8-N9-C4	-5.37	103.65	105.80
34	BA	1240	G	C4-N9-C1'	5.37	133.48	126.50
35	BB	413	A	P-O5'-C5'	-5.37	112.31	120.90
35	BB	850	U	O5'-C5'-C4'	5.37	121.90	111.70
35	BB	1113	C	C5-C4-N4	5.37	123.96	120.20
35	BB	1205	A	C8-N9-C4	5.37	107.95	105.80
35	BB	1230	A	C3'-C2'-C1'	-5.37	97.20	101.50
35	BB	1505	U	N1-C1'-C2'	-5.37	106.09	112.00
36	BC	104	A	P-O5'-C5'	-5.37	112.31	120.90
38	BE	1	U	N1-C2-N3	5.37	118.12	114.90
40	BG	4	A	O3'-P-O5'	-5.37	93.80	104.00
40	BG	16	G	C4-N9-C1'	-5.37	119.52	126.50
40	BG	17	A	C5-C6-N6	-5.37	119.41	123.70
47	BN	112	GLU	N-CA-CB	-5.37	100.94	110.60
47	BN	120	ARG	CB-CA-C	-5.37	99.66	110.40
85	AA	369	A	N7-C8-N9	-5.37	111.11	113.80
85	AA	1164	A	C3'-C2'-C1'	-5.37	97.20	101.50
85	AA	2108	C	N1-C1'-C2'	-5.37	106.09	112.00
34	BA	380	A	C5'-C4'-O4'	5.37	115.54	109.10
34	BA	771	A	N9-C1'-C2'	5.37	120.98	114.00
34	BA	1137	U	C3'-C2'-C1'	-5.37	97.21	101.50
34	BA	1181	G	O3'-P-O5'	5.37	114.20	104.00
34	BA	1744	C	C6-N1-C1'	5.37	127.24	120.80
35	BB	993	A	OP2-P-O3'	5.37	117.01	105.20
35	BB	1155	U	N1-C1'-C2'	-5.37	106.10	112.00
35	BB	1419	G	N1-C6-O6	5.37	123.12	119.90
85	AA	642	G	P-O3'-C3'	-5.37	113.26	119.70
85	AA	2059	A	C3'-C2'-C1'	-5.37	97.21	101.50
85	AA	2235	C	N1-C2-N3	5.37	122.96	119.20
1	A0	153	SER	C-N-CA	5.37	135.11	121.70
34	BA	38	G	N1-C2-N2	-5.37	111.37	116.20
34	BA	406	G	C4-N9-C1'	-5.37	119.52	126.50
34	BA	619	U	OP2-P-O3'	5.37	117.00	105.20
34	BA	1213	A	C1'-O4'-C4'	-5.37	105.61	109.90
34	BA	1320	A	C6-N1-C2	-5.37	115.38	118.60
34	BA	1369	C	C5-C4-N4	-5.37	116.44	120.20
35	BB	606	C	C4'-C3'-C2'	5.37	107.97	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	805	G	N1-C6-O6	5.37	123.12	119.90
35	BB	1448	U	C1'-O4'-C4'	-5.37	105.61	109.90
36	BC	153	C	C6-N1-C1'	-5.37	114.36	120.80
37	BD	19	C	C5-C6-N1	5.37	123.68	121.00
37	BD	53	U	C2-N3-C4	-5.37	123.78	127.00
41	BH	14	C	P-O3'-C3'	5.37	126.14	119.70
41	BH	43	G	C5'-C4'-O4'	-5.37	102.66	109.10
80	Bu	126	ASP	CA-CB-CG	-5.37	101.59	113.40
85	AA	98	U	P-O5'-C5'	5.37	129.48	120.90
85	AA	161	A	C1'-O4'-C4'	-5.37	105.61	109.90
85	AA	415	G	O3'-P-O5'	5.37	114.19	104.00
85	AA	472	A	C3'-C2'-C1'	-5.37	97.21	101.50
85	AA	863	C	P-O3'-C3'	-5.37	113.26	119.70
85	AA	2101	C	O4'-C1'-N1	5.37	112.49	108.20
85	AA	2149	C	C3'-C2'-C1'	-5.37	97.21	101.50
85	AA	2203	C	O4'-C1'-C2'	5.37	112.43	107.60
86	AB	59	U	C6-N1-C1'	-5.37	113.69	121.20
5	A4	122	THR	N-CA-CB	5.36	120.49	110.30
34	BA	232	U	C2-N3-C4	-5.36	123.78	127.00
34	BA	403	A	O4'-C1'-C2'	-5.36	100.44	105.80
34	BA	734	G	C4-N9-C1'	-5.36	119.53	126.50
34	BA	799	A	N7-C8-N9	5.36	116.48	113.80
34	BA	941	G	O3'-P-O5'	-5.36	93.81	104.00
35	BB	463	C	C5'-C4'-C3'	-5.36	107.42	116.00
35	BB	561	C	C5'-C4'-O4'	5.36	115.54	109.10
35	BB	1108	G	N1-C2-N2	-5.36	111.37	116.20
35	BB	1365	G	C4'-C3'-C2'	-5.36	97.24	102.60
35	BB	1521	G	C5'-C4'-C3'	-5.36	107.42	116.00
35	BB	1539	C	C5'-C4'-C3'	5.36	124.58	116.00
38	BE	206	G	C5-C6-O6	-5.36	125.38	128.60
40	BG	12	A	C8-N9-C4	-5.36	103.65	105.80
41	BH	43	G	C6-N1-C2	-5.36	121.88	125.10
72	Bm	97	LYS	N-CA-CB	-5.36	100.95	110.60
85	AA	638	G	C5-C6-O6	-5.36	125.38	128.60
85	AA	745	C	N3-C2-O2	-5.36	118.15	121.90
85	AA	1142	G	C4-N9-C1'	-5.36	119.53	126.50
85	AA	1286	C	N3-C2-O2	-5.36	118.15	121.90
85	AA	1389	G	O4'-C1'-N9	5.36	112.49	108.20
86	AB	34	G	C5-C6-O6	-5.36	125.38	128.60
34	BA	95	C	C2-N1-C1'	-5.36	112.90	118.80
34	BA	1357	C	C6-N1-C2	-5.36	118.16	120.30
35	BB	403	U	C6-N1-C2	-5.36	117.78	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	493	U	C2-N3-C4	-5.36	123.78	127.00
35	BB	1110	G	C8-N9-C4	-5.36	104.25	106.40
35	BB	1416	A	O3'-P-O5'	5.36	114.19	104.00
36	BC	138	C	N3-C2-O2	-5.36	118.15	121.90
40	BG	77	U	C4'-C3'-C2'	-5.36	97.24	102.60
41	BH	32	U	P-O3'-C3'	-5.36	113.27	119.70
65	Bf	425	HIS	CA-CB-CG	-5.36	104.48	113.60
85	AA	149	A	C4-N9-C1'	-5.36	116.65	126.30
85	AA	450	A	N9-C1'-C2'	-5.36	106.10	112.00
85	AA	685	U	C5'-C4'-O4'	5.36	115.53	109.10
34	BA	260	A	O3'-P-O5'	5.36	114.18	104.00
34	BA	341	U	C5-C6-N1	-5.36	120.02	122.70
34	BA	875	G	C4-C5-C6	-5.36	115.58	118.80
34	BA	1309	U	C4'-C3'-C2'	-5.36	97.24	102.60
34	BA	1414	C	O4'-C1'-N1	5.36	112.49	108.20
35	BB	47	C	N3-C4-N4	-5.36	114.25	118.00
35	BB	416	U	C4-C5-C6	-5.36	116.48	119.70
35	BB	904	C	O4'-C1'-N1	5.36	112.49	108.20
35	BB	1251	G	C1'-O4'-C4'	-5.36	105.61	109.90
37	BD	68	C	C5'-C4'-C3'	-5.36	107.42	116.00
38	BE	186	C	C6-N1-C1'	-5.36	114.37	120.80
50	BQ	72	THR	N-CA-C	5.36	125.47	111.00
82	Bw	251	ARG	CD-NE-CZ	-5.36	116.09	123.60
85	AA	239	G	C4-N9-C1'	5.36	133.47	126.50
85	AA	296	A	P-O3'-C3'	-5.36	113.27	119.70
85	AA	764	U	C5-C6-N1	-5.36	120.02	122.70
85	AA	1540	A	C4'-C3'-C2'	-5.36	97.24	102.60
85	AA	1582	U	C2-N3-C4	-5.36	123.78	127.00
85	AA	1654	G	O4'-C1'-N9	5.36	112.49	108.20
86	AB	49	C	C6-N1-C2	-5.36	118.16	120.30
4	A3	102	GLY	C-N-CA	5.36	135.10	121.70
29	AV	5	ARG	NE-CZ-NH2	-5.36	117.62	120.30
34	BA	1644	A	O5'-P-OP1	-5.36	100.88	105.70
34	BA	1830	A	P-O5'-C5'	-5.36	112.33	120.90
35	BB	873	C	C1'-O4'-C4'	-5.36	105.61	109.90
35	BB	874	G	P-O3'-C3'	-5.36	113.27	119.70
38	BE	127	G	C5'-C4'-O4'	-5.36	102.67	109.10
40	BG	82	U	P-O3'-C3'	-5.36	113.27	119.70
85	AA	400	G	C5-N7-C8	-5.36	101.62	104.30
85	AA	737	G	O4'-C1'-N9	5.36	112.49	108.20
85	AA	820	G	O5'-P-OP2	5.36	117.13	110.70
85	AA	1440	C	OP1-P-O3'	5.36	116.99	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1801	U	O4'-C1'-N1	5.36	112.49	108.20
34	BA	78	U	P-O5'-C5'	-5.36	112.33	120.90
34	BA	440	A	C5-C6-N6	5.36	127.99	123.70
34	BA	458	G	O5'-C5'-C4'	-5.36	101.52	111.70
34	BA	571	G	N9-C1'-C2'	5.36	120.96	114.00
34	BA	753	G	P-O3'-C3'	-5.36	113.27	119.70
34	BA	859	G	C6-N1-C2	-5.36	121.89	125.10
34	BA	1067	G	N7-C8-N9	-5.36	110.42	113.10
34	BA	1092	U	P-O5'-C5'	-5.36	112.33	120.90
34	BA	1177	C	O4'-C1'-C2'	5.36	112.42	107.60
34	BA	1277	G	O4'-C1'-N9	5.36	112.49	108.20
34	BA	1321	A	C4'-C3'-C2'	-5.36	97.24	102.60
35	BB	72	G	O4'-C1'-C2'	5.36	112.42	107.60
35	BB	474	G	N1-C6-O6	5.36	123.11	119.90
35	BB	561	C	C5'-C4'-C3'	5.36	124.57	116.00
35	BB	734	A	C4-N9-C1'	-5.36	116.66	126.30
35	BB	787	A	P-O3'-C3'	-5.36	113.27	119.70
35	BB	1185	G	P-O3'-C3'	-5.36	113.27	119.70
35	BB	1210	U	C5-C4-O4	-5.36	122.69	125.90
38	BE	24	G	N1-C6-O6	5.36	123.11	119.90
38	BE	127	G	N1-C2-N3	-5.36	120.69	123.90
39	BF	10	A	C6-C5-N7	-5.36	128.55	132.30
39	BF	13	U	O5'-C5'-C4'	-5.36	101.52	111.70
40	BG	128	U	N1-C2-O2	5.36	126.55	122.80
41	BH	130	G	C1'-O4'-C4'	-5.36	105.61	109.90
50	BQ	173	HIS	CA-CB-CG	-5.36	104.49	113.60
58	BY	37	ARG	CB-CG-CD	5.36	125.53	111.60
85	AA	30	G	C8-N9-C1'	5.36	133.96	127.00
85	AA	464	A	N1-C6-N6	5.36	121.81	118.60
85	AA	902	A	C8-N9-C1'	5.36	137.34	127.70
85	AA	1192	C	O4'-C1'-N1	5.36	112.49	108.20
85	AA	1997	G	P-O5'-C5'	5.36	129.47	120.90
85	AA	2096	G	N1-C6-O6	5.36	123.11	119.90
4	A3	219	ARG	NE-CZ-NH1	5.36	122.98	120.30
4	A3	222	ALA	N-CA-C	5.36	125.46	111.00
34	BA	455	A	C1'-O4'-C4'	-5.36	105.61	109.90
34	BA	1300	G	C2'-C3'-O3'	5.36	122.27	113.70
34	BA	1311	G	O4'-C1'-C2'	5.36	112.42	107.60
34	BA	1632	G	C3'-C2'-C1'	5.36	105.78	101.50
35	BB	312	U	O4'-C1'-N1	5.36	112.48	108.20
35	BB	463	C	C3'-C2'-C1'	-5.36	97.22	101.50
35	BB	813	C	C6-N1-C2	-5.36	118.16	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	998	G	C6-N1-C2	-5.36	121.89	125.10
35	BB	1055	G	OP2-P-O3'	5.36	116.98	105.20
38	BE	117	A	C4'-C3'-C2'	-5.36	97.25	102.60
48	BO	166	TRP	CA-C-N	-5.36	105.42	117.20
77	Br	176	ILE	CB-CA-C	-5.36	100.89	111.60
77	Br	196	ARG	NE-CZ-NH1	-5.36	117.62	120.30
85	AA	207	G	N1-C6-O6	5.36	123.11	119.90
85	AA	368	C	P-O5'-C5'	-5.36	112.33	120.90
85	AA	413	G	N1-C6-O6	-5.36	116.69	119.90
85	AA	674	U	O5'-P-OP1	-5.36	100.88	105.70
85	AA	880	A	C1'-O4'-C4'	-5.36	105.62	109.90
1	A0	144	PHE	CB-CA-C	-5.35	99.69	110.40
34	BA	5	C	C1'-O4'-C4'	-5.35	105.62	109.90
34	BA	1033	G	O4'-C1'-N9	5.35	112.48	108.20
34	BA	1537	G	C2'-C3'-O3'	5.35	122.27	113.70
34	BA	1831	A	N9-C1'-C2'	5.35	120.96	114.00
35	BB	611	U	C6-N1-C1'	5.35	128.69	121.20
36	BC	134	G	N7-C8-N9	5.35	115.78	113.10
42	BI	49	HIS	N-CA-CB	-5.35	100.96	110.60
85	AA	20	G	O4'-C1'-N9	5.35	112.48	108.20
85	AA	63	G	O4'-C1'-N9	-5.35	103.92	108.20
85	AA	771	A	N9-C4-C5	5.35	107.94	105.80
85	AA	1437	G	O4'-C1'-C2'	5.35	112.42	107.60
85	AA	1806	C	O4'-C1'-N1	5.35	112.48	108.20
34	BA	1463	U	N3-C2-O2	-5.35	118.45	122.20
34	BA	1835	A	P-O3'-C3'	-5.35	113.28	119.70
35	BB	148	C	O4'-C1'-N1	5.35	112.48	108.20
35	BB	769	C	P-O5'-C5'	5.35	129.47	120.90
35	BB	772	U	C6-N1-C2	-5.35	117.79	121.00
35	BB	1144	A	C5'-C4'-O4'	5.35	115.52	109.10
35	BB	1476	C	C5'-C4'-C3'	5.35	124.56	116.00
38	BE	7	U	C5'-C4'-O4'	5.35	115.52	109.10
38	BE	197	A	N1-C6-N6	-5.35	115.39	118.60
45	BL	104	SER	N-CA-CB	5.35	118.53	110.50
70	Bk	79	LEU	C-N-CA	5.35	135.08	121.70
77	Br	246	ARG	CG-CD-NE	-5.35	100.56	111.80
85	AA	68	A	C5'-C4'-O4'	5.35	115.52	109.10
85	AA	177	A	P-O3'-C3'	-5.35	113.28	119.70
85	AA	452	A	C4-N9-C1'	-5.35	116.67	126.30
85	AA	708	G	N3-C4-N9	-5.35	122.79	126.00
85	AA	935	A	C1'-O4'-C4'	-5.35	105.62	109.90
85	AA	976	G	N1-C6-O6	-5.35	116.69	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1482	C	O4'-C1'-N1	5.35	112.48	108.20
85	AA	1633	A	C5-C6-N6	-5.35	119.42	123.70
85	AA	1755	U	C4'-C3'-C2'	5.35	107.95	102.60
85	AA	1919	G	C5'-C4'-O4'	5.35	115.52	109.10
85	AA	2018	U	N1-C2-N3	5.35	118.11	114.90
3	A2	42	TRP	C-N-CA	5.35	135.08	121.70
6	A5	36	THR	CB-CA-C	-5.35	97.15	111.60
34	BA	20	A	N1-C6-N6	5.35	121.81	118.60
34	BA	62	A	O4'-C1'-N9	5.35	112.48	108.20
34	BA	399	G	P-O3'-C3'	-5.35	113.28	119.70
34	BA	616	G	C4'-C3'-C2'	-5.35	97.25	102.60
34	BA	1542	A	C4'-C3'-C2'	5.35	107.95	102.60
34	BA	1668	C	O4'-C1'-C2'	5.35	112.42	107.60
35	BB	452	A	C5-C6-N1	5.35	120.38	117.70
35	BB	777	C	P-O5'-C5'	5.35	129.46	120.90
35	BB	1062	G	C3'-C2'-C1'	5.35	105.78	101.50
38	BE	74	U	C5-C4-O4	-5.35	122.69	125.90
38	BE	91	G	C5-C6-N1	5.35	114.18	111.50
41	BH	73	A	P-O3'-C3'	5.35	126.12	119.70
85	AA	337	C	OP2-P-O3'	5.35	116.97	105.20
85	AA	1059	C	O4'-C1'-N1	5.35	112.48	108.20
85	AA	1564	U	C2-N1-C1'	-5.35	111.28	117.70
24	AQ	112	THR	N-CA-CB	5.35	120.47	110.30
34	BA	34	U	O4'-C1'-N1	5.35	112.48	108.20
34	BA	460	G	N3-C2-N2	5.35	123.64	119.90
34	BA	685	C	OP1-P-O3'	5.35	116.97	105.20
34	BA	741	A	N7-C8-N9	-5.35	111.13	113.80
34	BA	849	G	N9-C4-C5	-5.35	103.26	105.40
34	BA	919	A	O4'-C1'-N9	5.35	112.48	108.20
35	BB	600	C	N1-C2-N3	-5.35	115.46	119.20
35	BB	977	G	N3-C4-C5	-5.35	125.92	128.60
35	BB	1476	C	C6-N1-C1'	5.35	127.22	120.80
44	BK	209	TYR	CB-CG-CD1	-5.35	117.79	121.00
62	Bc	111	ARG	NH1-CZ-NH2	-5.35	113.52	119.40
65	Bf	223	ARG	NE-CZ-NH1	5.35	122.97	120.30
85	AA	97	A	N1-C6-N6	5.35	121.81	118.60
85	AA	164	G	OP1-P-OP2	-5.35	111.58	119.60
85	AA	1085	U	C2-N1-C1'	-5.35	111.28	117.70
85	AA	1660	U	C5-C6-N1	-5.35	120.03	122.70
85	AA	2016	A	O4'-C1'-C2'	5.35	112.42	107.60
85	AA	2047	U	N1-C2-N3	5.35	118.11	114.90
86	AB	21	A	C4-N9-C1'	-5.35	116.67	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	AR	83	VAL	CA-CB-CG2	-5.35	102.88	110.90
34	BA	6	C	C5'-C4'-O4'	5.35	115.52	109.10
34	BA	56	G	C4-N9-C1'	-5.35	119.55	126.50
34	BA	222	C	C3'-C2'-C1'	-5.35	97.22	101.50
34	BA	276	C	P-O3'-C3'	-5.35	113.28	119.70
34	BA	1262	A	C1'-O4'-C4'	-5.35	105.62	109.90
34	BA	1479	G	P-O5'-C5'	5.35	129.46	120.90
35	BB	329	U	C6-N1-C1'	-5.35	113.71	121.20
35	BB	793	A	C3'-C2'-C1'	-5.35	97.22	101.50
35	BB	1327	U	C5-C6-N1	-5.35	120.03	122.70
38	BE	35	A	C5'-C4'-C3'	-5.35	107.44	116.00
41	BH	32	U	P-O5'-C5'	-5.35	112.34	120.90
50	BQ	167	TRP	CB-CG-CD2	-5.35	119.65	126.60
52	BS	126	LEU	C-N-CA	-5.35	111.07	122.30
85	AA	36	U	C5-C6-N1	-5.35	120.03	122.70
85	AA	123	A	OP1-P-O3'	5.35	116.96	105.20
85	AA	927	A	N3-C4-N9	5.35	131.68	127.40
85	AA	1052	C	P-O3'-C3'	5.35	126.12	119.70
85	AA	1596	A	C1'-O4'-C4'	-5.35	105.62	109.90
85	AA	1978	G	N3-C4-C5	5.35	131.27	128.60
85	AA	2078	A	C4-C5-C6	-5.35	114.33	117.00
15	AG	104	ARG	CB-CA-C	-5.35	99.71	110.40
19	AK	104	ASN	CA-CB-CG	-5.35	101.64	113.40
34	BA	296	G	OP2-P-O3'	5.35	116.96	105.20
34	BA	567	U	P-O3'-C3'	-5.35	113.28	119.70
34	BA	704	G	C4-N9-C1'	-5.35	119.55	126.50
34	BA	1249	G	N1-C6-O6	-5.35	116.69	119.90
34	BA	1475	G	C5-C6-O6	-5.35	125.39	128.60
34	BA	1641	G	O5'-C5'-C4'	-5.35	101.54	111.70
35	BB	1511	U	C6-N1-C2	-5.35	117.79	121.00
38	BE	31	A	C5-N7-C8	-5.35	101.23	103.90
39	BF	1	C	C1'-O4'-C4'	-5.35	105.62	109.90
69	Bj	94	ARG	NE-CZ-NH2	-5.35	117.63	120.30
85	AA	488	G	N3-C4-C5	-5.35	125.93	128.60
85	AA	997	U	N3-C4-C5	-5.35	111.39	114.60
85	AA	1033	C	P-O5'-C5'	5.35	129.45	120.90
85	AA	1105	G	N7-C8-N9	5.35	115.77	113.10
85	AA	1678	U	P-O3'-C3'	-5.35	113.28	119.70
85	AA	1810	C	N3-C2-O2	-5.35	118.16	121.90
34	BA	694	G	C4-N9-C1'	5.34	133.45	126.50
34	BA	1078	U	C3'-C2'-C1'	-5.34	97.22	101.50
34	BA	1409	A	C8-N9-C1'	5.34	137.32	127.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1601	C	O4'-C1'-C2'	5.34	112.41	107.60
35	BB	456	A	P-O5'-C5'	-5.34	112.35	120.90
35	BB	1458	U	N1-C2-O2	-5.34	119.06	122.80
35	BB	1544	A	C2-N3-C4	5.34	113.27	110.60
40	BG	138	C	C5'-C4'-C3'	-5.34	107.45	116.00
73	Bn	20	ARG	NE-CZ-NH1	5.34	122.97	120.30
73	Bn	73	ARG	N-CA-CB	-5.34	100.98	110.60
85	AA	36	U	N3-C4-O4	-5.34	115.66	119.40
85	AA	314	C	O4'-C1'-N1	5.34	112.47	108.20
85	AA	427	G	O4'-C1'-N9	5.34	112.48	108.20
85	AA	538	A	C4-N9-C1'	5.34	135.92	126.30
85	AA	641	A	P-O5'-C5'	5.34	129.45	120.90
85	AA	726	U	O4'-C1'-N1	5.34	112.48	108.20
85	AA	930	G	C4-N9-C1'	5.34	133.45	126.50
85	AA	1229	G	N1-C2-N2	-5.34	111.39	116.20
85	AA	1309	G	C8-N9-C1'	5.34	133.95	127.00
34	BA	1028	A	P-O3'-C3'	-5.34	113.29	119.70
34	BA	1409	A	O4'-C1'-N9	5.34	112.47	108.20
35	BB	762	C	C5-C6-N1	5.34	123.67	121.00
85	AA	1262	A	C3'-C2'-C1'	-5.34	97.23	101.50
2	A1	10	TYR	CB-CG-CD2	-5.34	117.80	121.00
11	AC	154	GLN	N-CA-CB	-5.34	100.99	110.60
34	BA	1330	G	C2-N3-C4	5.34	114.57	111.90
34	BA	1482	A	N7-C8-N9	-5.34	111.13	113.80
34	BA	1636	C	N1-C2-N3	-5.34	115.46	119.20
34	BA	1690	U	C5-C4-O4	5.34	129.10	125.90
35	BB	412	A	C5'-C4'-O4'	5.34	115.51	109.10
35	BB	1216	G	C5-C6-O6	-5.34	125.39	128.60
35	BB	1322	A	C4-N9-C1'	-5.34	116.68	126.30
35	BB	1375	G	C8-N9-C1'	5.34	133.94	127.00
80	Bu	77	ALA	N-CA-CB	-5.34	102.62	110.10
85	AA	105	A	N1-C6-N6	-5.34	115.39	118.60
85	AA	260	A	O5'-C5'-C4'	-5.34	101.55	111.70
85	AA	545	A	O5'-C5'-C4'	-5.34	101.55	111.70
85	AA	1194	U	P-O3'-C3'	-5.34	113.29	119.70
85	AA	2206	A	C1'-O4'-C4'	-5.34	105.63	109.90
5	A4	79	ILE	C-N-CA	5.34	135.05	121.70
34	BA	52	G	N9-C1'-C2'	-5.34	106.13	112.00
34	BA	196	A	O4'-C4'-C3'	-5.34	98.66	104.00
34	BA	1012	A	P-O3'-C3'	5.34	126.11	119.70
34	BA	1134	A	C3'-C2'-C1'	-5.34	97.23	101.50
34	BA	1230	G	N1-C6-O6	-5.34	116.70	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1257	U	O5'-P-OP2	-5.34	100.89	105.70
34	BA	1425	G	C5'-C4'-C3'	-5.34	107.46	116.00
35	BB	4	C	C2-N1-C1'	5.34	124.67	118.80
35	BB	832	C	C1'-O4'-C4'	-5.34	105.63	109.90
35	BB	921	U	O4'-C1'-N1	5.34	112.47	108.20
35	BB	1216	G	C3'-C2'-C1'	-5.34	97.23	101.50
35	BB	1456	G	C5-C6-O6	-5.34	125.40	128.60
36	BC	135	A	C3'-C2'-C1'	-5.34	97.23	101.50
37	BD	51	G	C5-C6-O6	-5.34	125.40	128.60
38	BE	114	G	C8-N9-C4	5.34	108.54	106.40
41	BH	54	U	N1-C2-O2	5.34	126.54	122.80
72	Bm	71	VAL	C-N-CA	5.34	133.51	122.30
85	AA	402	G	C8-N9-C1'	5.34	133.94	127.00
85	AA	1097	G	C3'-C2'-C1'	-5.34	97.23	101.50
85	AA	1321	G	O4'-C1'-N9	5.34	112.47	108.20
85	AA	2198	G	P-O5'-C5'	-5.34	112.36	120.90
85	AA	2231	G	O4'-C4'-C3'	-5.34	98.66	104.00
34	BA	721	A	C4'-C3'-C2'	-5.34	97.26	102.60
34	BA	1153	C	N3-C4-N4	5.34	121.74	118.00
34	BA	1235	C	C5'-C4'-C3'	-5.34	107.46	116.00
35	BB	108	G	C5-C6-O6	-5.34	125.40	128.60
35	BB	1507	U	O4'-C4'-C3'	-5.34	98.66	104.00
36	BC	115	G	P-O5'-C5'	5.34	129.44	120.90
38	BE	160	C	C2-N1-C1'	-5.34	112.93	118.80
41	BH	21	G	O4'-C1'-N9	5.34	112.47	108.20
54	BU	35	LYS	N-CA-C	-5.34	96.59	111.00
85	AA	1469	G	C6-N1-C2	-5.34	121.90	125.10
85	AA	1565	G	P-O3'-C3'	-5.34	113.30	119.70
85	AA	2218	G	C5-N7-C8	5.34	106.97	104.30
34	BA	553	A	O4'-C1'-N9	5.34	112.47	108.20
34	BA	667	U	O3'-P-O5'	5.34	114.14	104.00
34	BA	774	A	C5-C6-N6	5.34	127.97	123.70
34	BA	1065	U	C2-N3-C4	-5.34	123.80	127.00
34	BA	1117	G	C4'-C3'-C2'	5.34	107.94	102.60
34	BA	1156	U	C6-N1-C1'	5.34	128.67	121.20
34	BA	1251	A	C8-N9-C1'	5.34	137.30	127.70
34	BA	1799	G	C5-C6-N1	5.34	114.17	111.50
35	BB	14	C	O4'-C4'-C3'	-5.34	98.66	104.00
35	BB	412	A	C2-N3-C4	-5.34	107.93	110.60
35	BB	760	C	N3-C4-N4	-5.34	114.27	118.00
35	BB	1052	G	O3'-P-O5'	-5.34	93.86	104.00
35	BB	1093	C	C3'-C2'-C1'	-5.34	97.23	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1197	G	C4-N9-C1'	-5.34	119.56	126.50
35	BB	1477	C	N1-C2-O2	5.34	122.10	118.90
36	BC	148	C	P-O3'-C3'	-5.34	113.30	119.70
85	AA	114	C	C1'-O4'-C4'	-5.34	105.63	109.90
85	AA	437	G	C8-N9-C4	5.34	108.53	106.40
85	AA	455	G	O5'-C5'-C4'	-5.34	101.56	111.70
85	AA	753	U	O5'-P-OP2	5.34	117.10	110.70
85	AA	1732	G	C5'-C4'-C3'	-5.34	107.46	116.00
85	AA	1900	C	C5-C6-N1	-5.34	118.33	121.00
85	AA	1973	G	C5-C6-O6	-5.34	125.40	128.60
85	AA	2032	G	O3'-P-O5'	-5.34	93.86	104.00
34	BA	296	G	O5'-P-OP1	-5.33	100.90	105.70
34	BA	711	C	N3-C4-C5	-5.33	119.77	121.90
34	BA	728	A	C5'-C4'-C3'	5.33	124.54	116.00
34	BA	1224	A	C1'-O4'-C4'	5.33	114.17	109.90
35	BB	430	A	C1'-O4'-C4'	-5.33	105.63	109.90
35	BB	1014	U	N1-C2-N3	5.33	118.10	114.90
35	BB	1044	U	O3'-P-O5'	5.33	114.14	104.00
35	BB	1370	G	O4'-C1'-N9	5.33	112.47	108.20
39	BF	11	C	O3'-P-O5'	-5.33	93.86	104.00
39	BF	41	U	O5'-C5'-C4'	-5.33	101.56	111.70
40	BG	31	G	C4'-C3'-C2'	5.33	107.94	102.60
41	BH	27	A	C3'-C2'-C1'	5.33	105.77	101.50
54	BU	132	THR	C-N-CA	5.33	135.04	121.70
85	AA	119	G	C6-N1-C2	-5.33	121.90	125.10
85	AA	882	C	C6-N1-C1'	5.33	127.20	120.80
85	AA	1848	G	C4-C5-C6	-5.33	115.60	118.80
85	AA	2122	A	P-O5'-C5'	5.33	129.44	120.90
34	BA	132	U	C6-N1-C1'	5.33	128.67	121.20
34	BA	184	C	C6-N1-C1'	5.33	127.20	120.80
34	BA	258	C	C5-C6-N1	5.33	123.67	121.00
34	BA	730	C	O4'-C1'-N1	5.33	112.47	108.20
34	BA	777	C	C4'-C3'-C2'	-5.33	97.27	102.60
34	BA	889	U	C6-N1-C1'	5.33	128.67	121.20
34	BA	1619	U	C4'-C3'-C2'	5.33	107.93	102.60
35	BB	148	C	C6-N1-C2	-5.33	118.17	120.30
35	BB	678	U	C4'-C3'-C2'	5.33	107.93	102.60
35	BB	1289	G	C6-N1-C2	-5.33	121.90	125.10
35	BB	1422	G	P-O3'-C3'	-5.33	113.30	119.70
37	BD	114	U	O5'-C5'-C4'	-5.33	101.56	111.70
41	BH	56	C	P-O3'-C3'	-5.33	113.30	119.70
42	BI	44	PHE	N-CA-CB	-5.33	101.00	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	116	G	P-O3'-C3'	-5.33	113.30	119.70
85	AA	467	U	C3'-C2'-C1'	5.33	105.77	101.50
85	AA	490	A	P-O3'-C3'	-5.33	113.30	119.70
85	AA	978	U	O4'-C1'-C2'	5.33	112.40	107.60
85	AA	1063	U	P-O5'-C5'	5.33	129.44	120.90
85	AA	1251	G	C6-N1-C2	-5.33	121.90	125.10
85	AA	1490	A	C5-C6-N6	-5.33	119.43	123.70
85	AA	1509	A	C5-N7-C8	-5.33	101.23	103.90
34	BA	415	C	N3-C4-N4	-5.33	114.27	118.00
34	BA	648	C	C3'-C2'-C1'	-5.33	97.23	101.50
34	BA	900	A	C8-N9-C4	5.33	107.93	105.80
34	BA	1203	G	C3'-C2'-C1'	-5.33	97.23	101.50
34	BA	1205	A	C4-N9-C1'	-5.33	116.70	126.30
34	BA	1644	A	C1'-O4'-C4'	-5.33	105.64	109.90
35	BB	89	C	O4'-C1'-N1	5.33	112.47	108.20
35	BB	552	C	C1'-O4'-C4'	-5.33	105.64	109.90
35	BB	835	C	N3-C2-O2	-5.33	118.17	121.90
35	BB	1017	U	C2-N3-C4	-5.33	123.80	127.00
35	BB	1391	G	P-O5'-C5'	-5.33	112.37	120.90
36	BC	4	G	O4'-C1'-N9	5.33	112.47	108.20
36	BC	14	G	C1'-O4'-C4'	-5.33	105.64	109.90
36	BC	58	G	C8-N9-C4	5.33	108.53	106.40
38	BE	96	G	O4'-C1'-N9	5.33	112.47	108.20
64	Be	74	GLU	N-CA-C	5.33	125.39	111.00
65	Bf	362	THR	N-CA-C	-5.33	96.61	111.00
85	AA	46	U	O4'-C1'-N1	5.33	112.47	108.20
85	AA	52	U	C5'-C4'-O4'	5.33	115.50	109.10
85	AA	352	G	N7-C8-N9	-5.33	110.43	113.10
85	AA	935	A	C2'-C3'-O3'	5.33	122.23	113.70
85	AA	1531	G	O5'-C5'-C4'	-5.33	101.57	111.70
85	AA	1702	G	O4'-C4'-C3'	5.33	110.36	106.10
85	AA	1950	G	C4-N9-C1'	-5.33	119.57	126.50
23	AP	65	PHE	CB-CG-CD1	5.33	124.53	120.80
34	BA	136	A	N9-C1'-C2'	-5.33	106.14	112.00
34	BA	210	G	P-O5'-C5'	5.33	129.43	120.90
34	BA	595	U	C4-C5-C6	-5.33	116.50	119.70
34	BA	596	G	O3'-P-O5'	5.33	114.13	104.00
34	BA	1070	G	N1-C2-N2	-5.33	111.40	116.20
34	BA	1331	G	N1-C6-O6	5.33	123.10	119.90
34	BA	1334	G	O4'-C1'-N9	5.33	112.46	108.20
34	BA	1745	G	C6-N1-C2	-5.33	121.90	125.10
35	BB	54	U	C5'-C4'-O4'	5.33	115.50	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	617	C	C2-N1-C1'	5.33	124.66	118.80
42	BI	31	LYS	CB-CA-C	5.33	121.06	110.40
58	BY	63	HIS	N-CA-C	5.33	125.39	111.00
86	AB	18	G	C4-N9-C1'	-5.33	119.57	126.50
22	AO	157	LEU	N-CA-C	5.33	125.39	111.00
34	BA	63	A	P-O3'-C3'	-5.33	113.31	119.70
34	BA	584	A	P-O5'-C5'	5.33	129.43	120.90
34	BA	604	G	O5'-C5'-C4'	-5.33	101.57	111.70
34	BA	945	A	O4'-C1'-N9	5.33	112.46	108.20
34	BA	1119	A	P-O3'-C3'	-5.33	113.31	119.70
34	BA	1148	U	C2'-C3'-O3'	5.33	122.23	113.70
34	BA	1173	C	C3'-C2'-C1'	-5.33	97.24	101.50
34	BA	1351	G	N1-C6-O6	5.33	123.10	119.90
35	BB	61	A	O4'-C1'-N9	5.33	112.46	108.20
35	BB	427	U	C4'-C3'-C2'	-5.33	97.27	102.60
37	BD	3	G	N3-C2-N2	5.33	123.63	119.90
38	BE	128	G	O5'-C5'-C4'	-5.33	101.58	111.70
38	BE	138	U	C4'-C3'-C2'	-5.33	97.27	102.60
41	BH	110	C	C5'-C4'-C3'	-5.33	107.47	116.00
57	BX	58	HIS	CB-CA-C	-5.33	99.74	110.40
62	Bc	46	LEU	N-CA-CB	-5.33	99.75	110.40
85	AA	100	A	C5-N7-C8	-5.33	101.24	103.90
85	AA	401	U	C2-N3-C4	-5.33	123.80	127.00
85	AA	449	G	C3'-C2'-C1'	-5.33	97.24	101.50
85	AA	662	U	O4'-C1'-N1	5.33	112.46	108.20
85	AA	750	A	C8-N9-C1'	5.33	137.29	127.70
85	AA	1543	C	P-O3'-C3'	-5.33	113.31	119.70
85	AA	1579	A	C8-N9-C4	5.33	107.93	105.80
85	AA	1729	C	C5-C4-N4	-5.33	116.47	120.20
85	AA	2024	U	C2-N3-C4	-5.33	123.80	127.00
85	AA	2060	G	O5'-C5'-C4'	-5.33	101.58	111.70
85	AA	2068	A	O5'-C5'-C4'	5.33	121.82	111.70
24	AQ	24	ARG	NE-CZ-NH2	-5.33	117.64	120.30
35	BB	991	C	O4'-C4'-C3'	-5.33	98.67	104.00
35	BB	1167	C	C5'-C4'-O4'	5.33	115.49	109.10
35	BB	1464	G	O3'-P-O5'	5.33	114.12	104.00
35	BB	1540	U	C3'-C2'-C1'	-5.33	97.24	101.50
38	BE	73	A	N1-C6-N6	5.33	121.80	118.60
39	BF	67	A	C1'-O4'-C4'	-5.33	105.64	109.90
40	BG	159	A	P-O5'-C5'	-5.33	112.38	120.90
41	BH	59	G	N1-C6-O6	5.33	123.10	119.90
85	AA	385	A	O4'-C1'-N9	5.33	112.46	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2066	C	O4'-C4'-C3'	-5.33	98.67	104.00
11	AC	130	VAL	CA-CB-CG2	-5.33	102.91	110.90
34	BA	171	U	C3'-C2'-C1'	-5.33	97.24	101.50
34	BA	348	U	O4'-C1'-N1	5.33	112.46	108.20
34	BA	960	C	C6-N1-C2	-5.33	118.17	120.30
34	BA	1430	C	N3-C2-O2	-5.33	118.17	121.90
34	BA	1462	U	N3-C2-O2	-5.33	118.47	122.20
34	BA	1507	C	O4'-C1'-N1	5.33	112.46	108.20
35	BB	107	A	O3'-P-O5'	5.33	114.12	104.00
35	BB	128	C	C6-N1-C1'	-5.33	114.41	120.80
35	BB	398	A	N1-C6-N6	-5.33	115.41	118.60
35	BB	616	U	C2-N3-C4	-5.33	123.81	127.00
35	BB	1024	G	C5-C6-N1	5.33	114.16	111.50
35	BB	1108	G	C6-N1-C2	-5.33	121.91	125.10
35	BB	1221	G	N9-C1'-C2'	-5.33	106.14	112.00
35	BB	1301	U	C4'-C3'-C2'	-5.33	97.27	102.60
37	BD	33	U	C5'-C4'-O4'	5.33	115.49	109.10
40	BG	156	G	C4'-C3'-C2'	5.33	107.92	102.60
55	BV	69	ARG	NE-CZ-NH1	5.33	122.96	120.30
59	BZ	17	PHE	CB-CA-C	-5.33	99.75	110.40
75	Bp	2	PRO	N-CA-C	-5.33	98.25	112.10
85	AA	327	G	C5-C6-O6	-5.33	125.41	128.60
85	AA	469	G	P-O5'-C5'	5.33	129.42	120.90
85	AA	898	A	C1'-O4'-C4'	-5.33	105.64	109.90
85	AA	1793	A	C2-N3-C4	5.33	113.26	110.60
85	AA	1812	C	C1'-O4'-C4'	-5.33	105.64	109.90
85	AA	2086	C	C2-N1-C1'	5.33	124.66	118.80
85	AA	2251	U	C5'-C4'-C3'	5.33	124.52	116.00
1	A0	66	TYR	CA-CB-CG	-5.32	103.28	113.40
19	AK	105	GLU	CB-CA-C	-5.32	99.75	110.40
34	BA	17	A	N9-C1'-C2'	-5.32	106.14	112.00
34	BA	841	G	C8-N9-C4	-5.32	104.27	106.40
34	BA	1078	U	N3-C2-O2	5.32	125.93	122.20
34	BA	1160	U	C3'-C2'-C1'	-5.32	97.24	101.50
34	BA	1612	C	C3'-C2'-C1'	-5.32	97.24	101.50
34	BA	1831	A	C4-N9-C1'	5.32	135.88	126.30
35	BB	755	A	C5-C6-N6	5.32	127.96	123.70
35	BB	766	G	C5'-C4'-C3'	-5.32	107.48	116.00
35	BB	1047	C	O4'-C1'-N1	5.32	112.46	108.20
35	BB	1209	A	C5'-C4'-C3'	5.32	124.52	116.00
36	BC	10	C	C5'-C4'-O4'	5.32	115.49	109.10
38	BE	147	G	C8-N9-C4	5.32	108.53	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	175	G	N3-C4-C5	-5.32	125.94	128.60
41	BH	33	G	C5-N7-C8	-5.32	101.64	104.30
61	Bb	21	ARG	NE-CZ-NH1	5.32	122.96	120.30
77	Br	359	ARG	NE-CZ-NH1	5.32	122.96	120.30
85	AA	11	A	C1'-O4'-C4'	-5.32	105.64	109.90
85	AA	140	C	P-O3'-C3'	-5.32	113.31	119.70
85	AA	290	G	C1'-O4'-C4'	-5.32	105.64	109.90
85	AA	785	C	C6-N1-C2	-5.32	118.17	120.30
85	AA	830	A	C4-N9-C1'	-5.32	116.72	126.30
85	AA	1103	A	C4'-C3'-C2'	5.32	107.92	102.60
85	AA	1347	C	C4'-C3'-C2'	-5.32	97.28	102.60
85	AA	2061	C	C5'-C4'-C3'	5.32	124.52	116.00
6	A5	199	ASP	C-N-CA	-5.32	111.12	122.30
34	BA	382	G	N9-C4-C5	5.32	107.53	105.40
34	BA	912	G	C5-C6-N1	5.32	114.16	111.50
34	BA	1515	U	C4'-C3'-C2'	-5.32	97.28	102.60
35	BB	553	U	C5-C6-N1	-5.32	120.04	122.70
35	BB	626	C	C5'-C4'-O4'	5.32	115.49	109.10
38	BE	16	C	C5'-C4'-C3'	5.32	124.52	116.00
41	BH	57	A	C4-N9-C1'	-5.32	116.72	126.30
65	Bf	296	ARG	N-CA-CB	-5.32	101.02	110.60
84	By	131	TYR	CG-CD1-CE1	-5.32	117.04	121.30
85	AA	469	G	C4-C5-N7	5.32	112.93	110.80
85	AA	1116	G	P-O5'-C5'	5.32	129.41	120.90
6	A5	102	VAL	C-N-CA	5.32	135.00	121.70
23	AP	238	ASP	N-CA-CB	-5.32	101.02	110.60
34	BA	52	G	C5-C6-O6	-5.32	125.41	128.60
34	BA	422	C	N3-C2-O2	-5.32	118.18	121.90
34	BA	1029	C	C5'-C4'-C3'	-5.32	107.49	116.00
34	BA	1249	G	N3-C4-N9	5.32	129.19	126.00
35	BB	481	A	C8-N9-C4	-5.32	103.67	105.80
35	BB	831	C	P-O5'-C5'	-5.32	112.39	120.90
35	BB	1092	G	O4'-C4'-C3'	-5.32	98.68	104.00
35	BB	1272	G	N3-C2-N2	5.32	123.62	119.90
35	BB	1372	G	N3-C2-N2	5.32	123.62	119.90
35	BB	1491	G	C5-C6-O6	-5.32	125.41	128.60
35	BB	1515	C	O5'-C5'-C4'	-5.32	101.59	111.70
42	BI	175	SER	N-CA-CB	5.32	118.48	110.50
57	BX	87	TYR	CD1-CG-CD2	-5.32	112.05	117.90
85	AA	7	G	C8-N9-C1'	5.32	133.92	127.00
85	AA	312	G	N1-C2-N2	-5.32	111.41	116.20
85	AA	358	U	C4'-C3'-C2'	5.32	107.92	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1177	G	C4-N9-C1'	5.32	133.42	126.50
85	AA	1527	G	C5-C6-O6	-5.32	125.41	128.60
85	AA	1550	C	C2-N3-C4	-5.32	117.24	119.90
85	AA	2110	U	P-O3'-C3'	5.32	126.09	119.70
15	AG	94	ARG	NE-CZ-NH2	-5.32	117.64	120.30
18	AJ	34	VAL	CB-CA-C	5.32	121.51	111.40
34	BA	303	C	N3-C2-O2	-5.32	118.18	121.90
34	BA	428	C	N3-C2-O2	-5.32	118.18	121.90
34	BA	485	C	C6-N1-C2	-5.32	118.17	120.30
34	BA	750	C	C6-N1-C2	-5.32	118.17	120.30
34	BA	1341	A	P-O3'-C3'	-5.32	113.32	119.70
34	BA	1809	G	O5'-C5'-C4'	-5.32	101.59	111.70
35	BB	417	A	C5-N7-C8	-5.32	101.24	103.90
35	BB	890	U	O4'-C1'-N1	5.32	112.45	108.20
67	Bh	6	PHE	CB-CG-CD1	5.32	124.52	120.80
85	AA	623	G	C5-C6-N1	5.32	114.16	111.50
85	AA	1394	C	O4'-C1'-N1	5.32	112.46	108.20
85	AA	1462	A	P-O5'-C5'	-5.32	112.39	120.90
85	AA	2152	C	P-O3'-C3'	-5.32	113.32	119.70
34	BA	103	G	C5-C6-N1	5.32	114.16	111.50
34	BA	552	C	O4'-C1'-N1	5.32	112.45	108.20
34	BA	668	G	P-O5'-C5'	5.32	129.41	120.90
34	BA	800	G	N9-C4-C5	5.32	107.53	105.40
34	BA	1501	U	C2-N1-C1'	-5.32	111.32	117.70
35	BB	323	C	C5'-C4'-O4'	5.32	115.48	109.10
35	BB	567	G	O4'-C1'-N9	5.32	112.45	108.20
35	BB	1018	U	C3'-C2'-C1'	-5.32	97.25	101.50
35	BB	1060	U	N1-C2-O2	5.32	126.52	122.80
35	BB	1289	G	C5'-C4'-C3'	-5.32	107.49	116.00
36	BC	88	A	N1-C6-N6	-5.32	115.41	118.60
36	BC	147	G	N3-C4-N9	5.32	129.19	126.00
40	BG	43	U	P-O3'-C3'	-5.32	113.32	119.70
41	BH	109	G	C5-C6-N1	5.32	114.16	111.50
41	BH	117	U	C2-N3-C4	-5.32	123.81	127.00
61	Bb	46	ARG	N-CA-CB	-5.32	101.03	110.60
80	Bu	79	TYR	CB-CG-CD2	-5.32	117.81	121.00
85	AA	119	G	P-O5'-C5'	-5.32	112.39	120.90
85	AA	367	A	O3'-P-O5'	5.32	114.10	104.00
85	AA	472	A	C5-C6-N6	5.32	127.95	123.70
85	AA	766	G	C1'-O4'-C4'	-5.32	105.64	109.90
85	AA	978	U	C5'-C4'-O4'	5.32	115.48	109.10
85	AA	1284	A	C5'-C4'-O4'	5.32	115.48	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1897	A	OP1-P-OP2	-5.32	111.62	119.60
85	AA	2121	G	C1'-O4'-C4'	-5.32	105.65	109.90
20	AL	37	ASP	N-CA-CB	-5.32	101.03	110.60
33	AZ	65	ALA	N-CA-C	-5.32	96.65	111.00
34	BA	66	C	O4'-C4'-C3'	-5.32	98.68	104.00
34	BA	327	G	N9-C1'-C2'	-5.32	106.15	112.00
34	BA	487	A	C4-C5-C6	-5.32	114.34	117.00
34	BA	578	C	N3-C2-O2	-5.32	118.18	121.90
34	BA	882	G	N1-C6-O6	5.32	123.09	119.90
34	BA	1399	A	P-O3'-C3'	-5.32	113.32	119.70
34	BA	1412	G	N3-C4-C5	-5.32	125.94	128.60
34	BA	1551	G	C6-N1-C2	-5.32	121.91	125.10
35	BB	322	G	C5-C6-O6	-5.32	125.41	128.60
35	BB	734	A	C8-N9-C1'	5.32	137.27	127.70
35	BB	1197	G	C3'-C2'-C1'	-5.32	97.25	101.50
35	BB	1240	A	P-O5'-C5'	-5.32	112.40	120.90
35	BB	1521	G	O4'-C1'-N9	5.32	112.45	108.20
35	BB	1526	C	O4'-C1'-N1	5.32	112.45	108.20
35	BB	1540	U	N3-C2-O2	-5.32	118.48	122.20
36	BC	131	C	C1'-O4'-C4'	-5.32	105.65	109.90
38	BE	139	U	C6-N1-C1'	5.32	128.64	121.20
40	BG	75	C	C5-C6-N1	-5.32	118.34	121.00
54	BU	130	VAL	N-CA-C	-5.32	96.65	111.00
85	AA	160	A	C3'-C2'-C1'	5.32	105.75	101.50
85	AA	217	G	C5-C6-O6	-5.32	125.41	128.60
85	AA	738	C	P-O5'-C5'	-5.32	112.39	120.90
85	AA	768	C	C4'-C3'-O3'	-5.32	98.24	109.40
85	AA	803	C	C5-C6-N1	5.32	123.66	121.00
85	AA	867	G	C5'-C4'-O4'	5.32	115.48	109.10
85	AA	902	A	C4-N9-C1'	-5.32	116.73	126.30
85	AA	1011	G	N1-C6-O6	5.32	123.09	119.90
85	AA	1108	U	C3'-C2'-C1'	5.32	105.75	101.50
85	AA	1495	G	P-O3'-C3'	-5.32	113.32	119.70
85	AA	1610	G	C8-N9-C1'	5.32	133.91	127.00
85	AA	1848	G	N9-C1'-C2'	-5.32	106.15	112.00
3	A2	42	TRP	CB-CG-CD1	5.31	133.91	127.00
26	AS	51	VAL	CB-CA-C	-5.31	101.30	111.40
34	BA	90	G	C1'-O4'-C4'	-5.31	105.65	109.90
34	BA	162	G	C4-N9-C1'	-5.31	119.59	126.50
34	BA	171	U	C1'-O4'-C4'	-5.31	105.65	109.90
34	BA	213	A	C8-N9-C4	5.31	107.93	105.80
34	BA	1180	A	C2'-C3'-O3'	5.31	122.20	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1733	G	C5-C6-O6	-5.31	125.41	128.60
35	BB	490	G	C1'-O4'-C4'	-5.31	105.65	109.90
35	BB	994	A	N1-C6-N6	-5.31	115.41	118.60
35	BB	1147	G	C8-N9-C1'	5.31	133.91	127.00
36	BC	73	U	C3'-C2'-C1'	-5.31	97.25	101.50
38	BE	75	C	C6-N1-C2	-5.31	118.17	120.30
85	AA	85	U	C5-C4-O4	-5.31	122.71	125.90
85	AA	226	C	P-O3'-C3'	5.31	126.08	119.70
85	AA	1176	C	O4'-C1'-N1	5.31	112.45	108.20
85	AA	1219	A	P-O5'-C5'	-5.31	112.40	120.90
85	AA	1494	C	C6-N1-C2	-5.31	118.17	120.30
85	AA	1955	U	C6-N1-C1'	5.31	128.64	121.20
34	BA	543	A	O5'-P-OP2	5.31	117.07	110.70
34	BA	1011	G	C1'-O4'-C4'	-5.31	105.65	109.90
34	BA	1072	U	C2-N3-C4	-5.31	123.81	127.00
34	BA	1223	C	P-O5'-C5'	-5.31	112.40	120.90
34	BA	1398	C	N3-C2-O2	-5.31	118.18	121.90
34	BA	1442	A	N3-C4-N9	5.31	131.65	127.40
34	BA	1559	C	C3'-C2'-C1'	-5.31	97.25	101.50
35	BB	51	U	N3-C4-O4	5.31	123.12	119.40
35	BB	784	C	C4'-C3'-C2'	5.31	107.91	102.60
35	BB	1507	U	N3-C2-O2	-5.31	118.48	122.20
36	BC	9	G	C5-C6-O6	-5.31	125.41	128.60
36	BC	111	C	C4-C5-C6	5.31	120.06	117.40
38	BE	30	C	N1-C2-N3	5.31	122.92	119.20
65	Bf	188	ALA	CB-CA-C	-5.31	102.13	110.10
85	AA	307	G	C3'-C2'-C1'	-5.31	97.25	101.50
85	AA	391	G	C4-N9-C1'	-5.31	119.59	126.50
85	AA	399	A	C4'-C3'-C2'	-5.31	97.29	102.60
85	AA	685	U	OP1-P-OP2	-5.31	111.63	119.60
85	AA	1243	G	N1-C6-O6	-5.31	116.71	119.90
85	AA	1484	G	P-O3'-C3'	-5.31	113.33	119.70
85	AA	1765	G	C5-C6-O6	-5.31	125.41	128.60
85	AA	2065	U	P-O3'-C3'	-5.31	113.33	119.70
34	BA	665	C	C5-C6-N1	5.31	123.66	121.00
34	BA	744	G	N1-C2-N2	-5.31	111.42	116.20
34	BA	1197	U	C4'-C3'-O3'	-5.31	98.25	109.40
35	BB	530	C	C6-N1-C2	-5.31	118.18	120.30
35	BB	1539	C	C5-C6-N1	-5.31	118.34	121.00
37	BD	84	U	C4'-C3'-C2'	-5.31	97.29	102.60
38	BE	47	U	C5'-C4'-C3'	5.31	124.50	116.00
85	AA	634	U	C1'-O4'-C4'	-5.31	105.65	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	196	A	C5-N7-C8	5.31	106.55	103.90
34	BA	444	A	C5-C6-N6	-5.31	119.45	123.70
34	BA	593	G	N3-C4-C5	-5.31	125.94	128.60
34	BA	902	C	C1'-O4'-C4'	-5.31	105.65	109.90
34	BA	972	C	N1-C1'-C2'	-5.31	106.16	112.00
34	BA	1538	G	C5-C6-N1	5.31	114.16	111.50
34	BA	1808	A	C1'-O4'-C4'	-5.31	105.65	109.90
35	BB	358	U	O3'-P-O5'	-5.31	93.91	104.00
35	BB	616	U	O3'-P-O5'	-5.31	93.91	104.00
35	BB	707	G	N9-C1'-C2'	-5.31	106.16	112.00
35	BB	1063	C	C5-C6-N1	-5.31	118.34	121.00
35	BB	1152	U	O4'-C1'-N1	5.31	112.45	108.20
35	BB	1195	A	C8-N9-C4	-5.31	103.68	105.80
35	BB	1288	G	P-O5'-C5'	-5.31	112.40	120.90
35	BB	1320	U	O5'-C5'-C4'	-5.31	101.61	111.70
35	BB	1397	G	C4-N9-C1'	-5.31	119.60	126.50
35	BB	1545	U	C3'-C2'-C1'	-5.31	97.25	101.50
37	BD	116	C	N3-C2-O2	-5.31	118.18	121.90
54	BU	32	THR	N-CA-C	5.31	125.34	111.00
71	Bl	111	ARG	NE-CZ-NH1	5.31	122.95	120.30
85	AA	453	G	C1'-O4'-C4'	-5.31	105.65	109.90
85	AA	466	A	C2-N3-C4	-5.31	107.95	110.60
85	AA	483	G	C4-N9-C1'	5.31	133.40	126.50
85	AA	1307	U	O4'-C1'-N1	5.31	112.45	108.20
85	AA	2080	U	O3'-P-O5'	-5.31	93.91	104.00
85	AA	2105	G	C8-N9-C1'	5.31	133.90	127.00
34	BA	499	C	N1-C1'-C2'	-5.31	106.16	112.00
34	BA	744	G	O3'-P-O5'	5.31	114.08	104.00
34	BA	764	G	P-O3'-C3'	-5.31	113.33	119.70
34	BA	914	G	O4'-C1'-N9	5.31	112.45	108.20
34	BA	1548	A	O3'-P-O5'	-5.31	93.91	104.00
34	BA	1579	G	C8-N9-C1'	-5.31	120.10	127.00
34	BA	1692	U	C2-N3-C4	-5.31	123.81	127.00
35	BB	575	C	P-O5'-C5'	5.31	129.39	120.90
35	BB	1381	U	C4'-C3'-C2'	-5.31	97.29	102.60
36	BC	130	U	N1-C2-O2	5.31	126.52	122.80
36	BC	138	C	C1'-O4'-C4'	-5.31	105.65	109.90
40	BG	52	A	C1'-O4'-C4'	-5.31	105.65	109.90
45	BL	144	ARG	NE-CZ-NH1	5.31	122.95	120.30
85	AA	1066	U	C6-N1-C1'	5.31	128.63	121.20
85	AA	1155	A	N9-C1'-C2'	-5.31	106.16	112.00
85	AA	1217	U	N1-C2-N3	5.31	118.08	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	803	U	C4'-C3'-O3'	-5.31	98.26	109.40
34	BA	867	C	C6-N1-C1'	-5.31	114.43	120.80
34	BA	1256	A	O4'-C1'-C2'	-5.31	100.49	105.80
34	BA	1312	A	C8-N9-C1'	5.31	137.25	127.70
35	BB	8	U	N3-C4-O4	5.31	123.11	119.40
35	BB	1313	C	N1-C2-O2	5.31	122.08	118.90
36	BC	133	C	O4'-C1'-N1	5.31	112.44	108.20
36	BC	169	G	N9-C1'-C2'	-5.31	106.16	112.00
40	BG	29	U	C4-C5-C6	-5.31	116.52	119.70
55	BV	87	LYS	C-N-CA	5.31	134.97	121.70
31	AX	50	ARG	NE-CZ-NH2	-5.30	117.65	120.30
34	BA	204	U	C2-N3-C4	-5.30	123.82	127.00
34	BA	562	C	O4'-C1'-N1	5.30	112.44	108.20
34	BA	575	U	O4'-C1'-C2'	5.30	112.38	107.60
34	BA	636	G	OP1-P-OP2	-5.30	111.64	119.60
34	BA	909	G	C5-C6-O6	-5.30	125.42	128.60
34	BA	1067	G	C8-N9-C4	5.30	108.52	106.40
34	BA	1315	C	O4'-C1'-N1	5.30	112.44	108.20
35	BB	1071	G	C6-N1-C2	-5.30	121.92	125.10
35	BB	1335	G	O4'-C1'-N9	5.30	112.44	108.20
35	BB	1468	A	C5'-C4'-C3'	-5.30	107.51	116.00
36	BC	67	U	C2-N1-C1'	-5.30	111.33	117.70
38	BE	65	U	P-O3'-C3'	-5.30	113.33	119.70
39	BF	13	U	C5-C4-O4	5.30	129.08	125.90
40	BG	4	A	C4-C5-N7	-5.30	108.05	110.70
48	BO	128	VAL	N-CA-C	5.30	125.32	111.00
54	BU	4	SER	N-CA-CB	-5.30	102.54	110.50
68	Bi	22	ARG	NE-CZ-NH2	-5.30	117.65	120.30
83	Bx	40	PHE	CB-CG-CD2	-5.30	117.09	120.80
84	By	57	ARG	N-CA-C	5.30	125.32	111.00
85	AA	374	C	C4'-C3'-C2'	-5.30	97.30	102.60
85	AA	531	G	N3-C2-N2	5.30	123.61	119.90
85	AA	602	U	N3-C2-O2	5.30	125.91	122.20
18	AJ	96	SER	N-CA-CB	5.30	118.45	110.50
34	BA	465	A	O4'-C4'-C3'	-5.30	98.70	104.00
34	BA	764	G	O5'-P-OP2	5.30	117.06	110.70
35	BB	597	C	O4'-C1'-N1	5.30	112.44	108.20
35	BB	675	U	C5-C4-O4	5.30	129.08	125.90
68	Bi	44	ARG	NE-CZ-NH2	-5.30	117.65	120.30
85	AA	745	C	C2-N3-C4	-5.30	117.25	119.90
85	AA	1428	A	O4'-C1'-N9	5.30	112.44	108.20
85	AA	1459	C	C6-N1-C1'	5.30	127.16	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1715	C	C2-N3-C4	5.30	122.55	119.90
85	AA	2049	U	O4'-C1'-N1	5.30	112.44	108.20
23	AP	240	TRP	CB-CA-C	5.30	121.00	110.40
28	AU	54	ASP	N-CA-CB	-5.30	101.06	110.60
34	BA	30	A	O4'-C1'-N9	5.30	112.44	108.20
34	BA	71	G	N9-C4-C5	5.30	107.52	105.40
34	BA	375	C	O4'-C1'-N1	5.30	112.44	108.20
34	BA	417	A	C4-N9-C1'	-5.30	116.76	126.30
34	BA	541	C	C5'-C4'-C3'	-5.30	107.52	116.00
34	BA	1307	U	N1-C2-N3	5.30	118.08	114.90
34	BA	1477	C	C5'-C4'-C3'	-5.30	107.52	116.00
34	BA	1641	G	C5-C6-N1	5.30	114.15	111.50
34	BA	1682	A	P-O3'-C3'	-5.30	113.34	119.70
35	BB	481	A	O4'-C1'-C2'	5.30	112.37	107.60
35	BB	554	C	P-O3'-C3'	-5.30	113.34	119.70
35	BB	760	C	C5-C4-N4	5.30	123.91	120.20
35	BB	837	A	C2-N3-C4	5.30	113.25	110.60
35	BB	897	C	C5'-C4'-C3'	-5.30	107.52	116.00
35	BB	1015	U	C3'-C2'-C1'	-5.30	97.26	101.50
35	BB	1229	A	C2-N3-C4	-5.30	107.95	110.60
85	AA	483	G	P-O3'-C3'	-5.30	113.34	119.70
85	AA	597	A	N1-C2-N3	-5.30	126.65	129.30
85	AA	787	U	C3'-C2'-C1'	5.30	105.74	101.50
85	AA	1278	C	C5-C4-N4	-5.30	116.49	120.20
85	AA	1786	G	C3'-C2'-C1'	-5.30	97.26	101.50
1	A0	84	ARG	C-N-CA	5.30	134.95	121.70
11	AC	129	LEU	N-CA-CB	-5.30	99.80	110.40
34	BA	130	U	N1-C2-N3	5.30	118.08	114.90
34	BA	1577	U	C4-C5-C6	-5.30	116.52	119.70
35	BB	452	A	C2'-C3'-O3'	5.30	122.18	113.70
35	BB	586	U	C5'-C4'-C3'	-5.30	107.52	116.00
35	BB	657	A	C5-C6-N1	5.30	120.35	117.70
35	BB	1239	A	P-O5'-C5'	5.30	129.38	120.90
35	BB	1541	G	C8-N9-C4	-5.30	104.28	106.40
38	BE	102	U	N1-C1'-C2'	5.30	120.89	114.00
38	BE	164	C	C5'-C4'-C3'	-5.30	107.52	116.00
38	BE	177	U	O4'-C1'-N1	5.30	112.44	108.20
40	BG	72	G	C5-C6-N1	5.30	114.15	111.50
41	BH	78	C	O4'-C1'-N1	5.30	112.44	108.20
59	BZ	86	LYS	N-CA-CB	-5.30	101.06	110.60
85	AA	277	G	N1-C6-O6	5.30	123.08	119.90
85	AA	690	G	C4-N9-C1'	-5.30	119.61	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1507	G	C1'-O4'-C4'	-5.30	105.66	109.90
85	AA	1534	A	C8-N9-C4	-5.30	103.68	105.80
86	AB	54	U	O4'-C1'-N1	5.30	112.44	108.20
34	BA	20	A	C4-C5-C6	5.30	119.65	117.00
34	BA	316	G	N9-C1'-C2'	-5.30	106.17	112.00
34	BA	860	G	C8-N9-C4	5.30	108.52	106.40
34	BA	1458	A	O4'-C4'-C3'	-5.30	98.70	104.00
34	BA	1504	A	C3'-C2'-C1'	-5.30	97.26	101.50
35	BB	1	U	C3'-C2'-C1'	5.30	105.74	101.50
35	BB	790	A	C8-N9-C4	5.30	107.92	105.80
35	BB	1509	G	C5'-C4'-O4'	5.30	115.46	109.10
85	AA	284	C	C4'-C3'-C2'	-5.30	97.30	102.60
85	AA	870	U	C2-N1-C1'	-5.30	111.34	117.70
85	AA	1686	G	C3'-C2'-C1'	-5.30	97.26	101.50
13	AE	153	TYR	CA-CB-CG	-5.30	103.33	113.40
32	AY	58	ASN	CA-CB-CG	-5.30	101.75	113.40
34	BA	386	A	C5'-C4'-C3'	5.30	124.47	116.00
34	BA	627	U	P-O3'-C3'	5.30	126.06	119.70
34	BA	726	G	N1-C6-O6	-5.30	116.72	119.90
34	BA	908	G	C8-N9-C4	5.30	108.52	106.40
34	BA	1006	G	C5'-C4'-C3'	-5.30	107.53	116.00
34	BA	1152	A	P-O5'-C5'	-5.30	112.43	120.90
34	BA	1166	A	N1-C6-N6	-5.30	115.42	118.60
34	BA	1500	G	C6-N1-C2	-5.30	121.92	125.10
34	BA	1738	G	C5'-C4'-C3'	-5.30	107.52	116.00
34	BA	1777	U	C2-N1-C1'	5.30	124.06	117.70
35	BB	62	C	C4'-C3'-O3'	5.30	123.59	113.00
35	BB	651	G	C4-N9-C1'	5.30	133.39	126.50
35	BB	861	C	P-O3'-C3'	-5.30	113.34	119.70
35	BB	1425	A	C3'-C2'-C1'	-5.30	97.26	101.50
40	BG	70	C	O5'-C5'-C4'	-5.30	101.64	111.70
61	Bb	114	HIS	CB-CA-C	-5.30	99.81	110.40
65	Bf	331	ARG	N-CA-C	-5.30	96.70	111.00
84	By	39	HIS	CA-CB-CG	5.30	122.61	113.60
85	AA	112	A	N1-C6-N6	-5.30	115.42	118.60
85	AA	152	A	C8-N9-C4	-5.30	103.68	105.80
85	AA	250	C	C2-N3-C4	-5.30	117.25	119.90
85	AA	508	C	P-O3'-C3'	-5.30	113.34	119.70
85	AA	1522	U	C5'-C4'-C3'	-5.30	107.53	116.00
85	AA	1537	A	P-O5'-C5'	5.30	129.37	120.90
85	AA	1539	A	C1'-O4'-C4'	-5.30	105.66	109.90
85	AA	1724	A	P-O5'-C5'	5.30	129.37	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1979	A	C1'-O4'-C4'	-5.30	105.66	109.90
85	AA	2115	G	N1-C6-O6	5.30	123.08	119.90
34	BA	105	U	C3'-C2'-C1'	-5.29	97.26	101.50
34	BA	1229	G	P-O3'-C3'	-5.29	113.35	119.70
34	BA	1612	C	C2-N1-C1'	-5.29	112.98	118.80
34	BA	1687	A	C5'-C4'-C3'	5.29	124.47	116.00
35	BB	281	U	O4'-C1'-N1	5.29	112.44	108.20
35	BB	708	C	C5'-C4'-O4'	5.29	115.45	109.10
36	BC	151	G	C5-C6-O6	-5.29	125.42	128.60
37	BD	107	G	O4'-C1'-N9	5.29	112.44	108.20
38	BE	116	U	C5'-C4'-O4'	5.29	115.45	109.10
38	BE	121	G	C8-N9-C4	5.29	108.52	106.40
40	BG	24	A	C5-N7-C8	-5.29	101.25	103.90
40	BG	73	U	N3-C4-O4	-5.29	115.69	119.40
40	BG	106	G	C8-N9-C4	5.29	108.52	106.40
85	AA	244	G	C8-N9-C1'	5.29	133.88	127.00
85	AA	462	A	P-O5'-C5'	-5.29	112.43	120.90
85	AA	577	U	N3-C2-O2	-5.29	118.49	122.20
85	AA	910	G	C3'-C2'-C1'	-5.29	97.26	101.50
85	AA	1927	G	OP1-P-OP2	-5.29	111.66	119.60
85	AA	2020	C	O4'-C1'-N1	5.29	112.44	108.20
10	A9	150	TYR	CB-CG-CD2	-5.29	117.82	121.00
20	AL	27	ASP	CB-CA-C	-5.29	99.81	110.40
34	BA	81	C	C6-N1-C2	5.29	122.42	120.30
34	BA	440	A	C4'-C3'-C2'	-5.29	97.31	102.60
34	BA	857	C	N3-C2-O2	-5.29	118.19	121.90
34	BA	1410	C	C3'-C2'-C1'	-5.29	97.26	101.50
34	BA	1429	A	O4'-C1'-N9	5.29	112.43	108.20
35	BB	970	C	C4'-C3'-C2'	-5.29	97.31	102.60
35	BB	1042	U	P-O5'-C5'	5.29	129.37	120.90
35	BB	1230	A	N1-C6-N6	5.29	121.78	118.60
35	BB	1547	U	P-O3'-C3'	-5.29	113.35	119.70
41	BH	93	G	P-O5'-C5'	5.29	129.37	120.90
44	BK	168	SER	CB-CA-C	-5.29	100.04	110.10
56	BW	106	ASN	CB-CA-C	5.29	120.98	110.40
61	Bb	75	LEU	N-CA-C	5.29	125.29	111.00
85	AA	203	C	P-O3'-C3'	5.29	126.05	119.70
85	AA	493	A	C5'-C4'-C3'	5.29	124.47	116.00
85	AA	504	U	N1-C2-N3	-5.29	111.72	114.90
85	AA	710	A	N1-C6-N6	5.29	121.78	118.60
85	AA	1275	A	C1'-O4'-C4'	-5.29	105.67	109.90
85	AA	1435	C	O4'-C1'-C2'	-5.29	100.51	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1931	C	P-O5'-C5'	5.29	129.37	120.90
85	AA	2203	C	O4'-C4'-C3'	-5.29	98.71	104.00
27	AT	29	VAL	N-CA-C	5.29	125.29	111.00
27	AT	128	ALA	CB-CA-C	5.29	118.04	110.10
34	BA	189	G	C1'-O4'-C4'	-5.29	105.67	109.90
34	BA	298	G	C8-N9-C1'	-5.29	120.12	127.00
34	BA	1640	G	C8-N9-C1'	5.29	133.88	127.00
34	BA	1787	U	C6-N1-C1'	5.29	128.61	121.20
35	BB	132	G	N1-C6-O6	5.29	123.08	119.90
35	BB	541	U	C5'-C4'-O4'	5.29	115.45	109.10
35	BB	836	U	C1'-O4'-C4'	-5.29	105.67	109.90
35	BB	1132	A	C2'-C3'-O3'	5.29	122.17	113.70
35	BB	1494	G	C1'-O4'-C4'	-5.29	105.67	109.90
35	BB	1512	C	C5'-C4'-C3'	-5.29	107.53	116.00
38	BE	168	C	C5'-C4'-C3'	5.29	124.47	116.00
44	BK	170	TYR	CB-CG-CD1	5.29	124.17	121.00
49	BP	20	ARG	NH1-CZ-NH2	-5.29	113.58	119.40
59	BZ	63	ARG	NE-CZ-NH1	5.29	122.94	120.30
63	Bd	23	PRO	CA-C-N	5.29	131.92	117.10
77	Br	20	THR	N-CA-C	-5.29	96.71	111.00
85	AA	474	C	C6-N1-C1'	5.29	127.15	120.80
85	AA	490	A	C2'-C3'-O3'	5.29	122.17	113.70
85	AA	593	U	P-O5'-C5'	-5.29	112.43	120.90
85	AA	1190	G	N1-C6-O6	5.29	123.07	119.90
85	AA	1519	A	P-O3'-C3'	-5.29	113.35	119.70
85	AA	1686	G	C5'-C4'-C3'	-5.29	107.53	116.00
34	BA	297	A	O5'-P-OP2	-5.29	100.94	105.70
34	BA	484	A	N9-C1'-C2'	-5.29	106.18	112.00
34	BA	684	G	C5'-C4'-O4'	5.29	115.45	109.10
34	BA	702	G	P-O5'-C5'	5.29	129.37	120.90
34	BA	1637	G	C6-N1-C2	-5.29	121.93	125.10
34	BA	1706	A	P-O5'-C5'	-5.29	112.44	120.90
34	BA	1779	U	N3-C2-O2	-5.29	118.50	122.20
35	BB	3	C	N3-C4-C5	-5.29	119.78	121.90
35	BB	51	U	C2-N3-C4	5.29	130.17	127.00
35	BB	86	A	C8-N9-C1'	-5.29	118.18	127.70
35	BB	767	A	O5'-C5'-C4'	-5.29	101.65	111.70
36	BC	140	U	N3-C4-O4	5.29	123.10	119.40
64	Be	95	PRO	C-N-CA	5.29	134.93	121.70
85	AA	748	C	N1-C1'-C2'	-5.29	106.18	112.00
85	AA	927	A	C1'-O4'-C4'	-5.29	105.67	109.90
85	AA	1787	G	C4-N9-C1'	-5.29	119.62	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2066	C	C1'-O4'-C4'	-5.29	105.67	109.90
11	AC	193	VAL	N-CA-CB	5.29	123.14	111.50
20	AL	20	TYR	CB-CA-C	5.29	120.97	110.40
34	BA	41	U	P-O3'-C3'	-5.29	113.35	119.70
34	BA	47	U	C5'-C4'-O4'	-5.29	102.75	109.10
34	BA	449	G	C1'-O4'-C4'	-5.29	105.67	109.90
34	BA	523	A	O4'-C1'-C2'	5.29	112.36	107.60
34	BA	647	U	O4'-C1'-N1	5.29	112.43	108.20
34	BA	1825	U	C2-N3-C4	-5.29	123.83	127.00
35	BB	109	U	C6-N1-C1'	5.29	128.60	121.20
35	BB	1130	U	N3-C4-C5	5.29	117.77	114.60
35	BB	1483	A	O5'-C5'-C4'	-5.29	101.65	111.70
38	BE	107	U	OP2-P-O3'	5.29	116.83	105.20
38	BE	200	A	P-O3'-C3'	-5.29	113.35	119.70
40	BG	105	A	C4-C5-C6	-5.29	114.36	117.00
55	BV	89	TYR	CB-CG-CD1	-5.29	117.83	121.00
85	AA	386	G	C5'-C4'-C3'	-5.29	107.54	116.00
85	AA	661	C	N1-C2-O2	5.29	122.07	118.90
85	AA	821	U	C6-N1-C1'	5.29	128.60	121.20
85	AA	1017	G	P-O5'-C5'	-5.29	112.44	120.90
85	AA	1515	A	C1'-O4'-C4'	-5.29	105.67	109.90
85	AA	1578	G	OP1-P-OP2	-5.29	111.67	119.60
85	AA	1846	G	N3-C4-C5	-5.29	125.96	128.60
85	AA	1897	A	C5-C6-N6	5.29	127.93	123.70
34	BA	876	C	C3'-C2'-C1'	-5.29	97.27	101.50
34	BA	1043	C	O3'-P-O5'	5.29	114.05	104.00
35	BB	6	A	C5'-C4'-O4'	5.29	115.44	109.10
35	BB	727	U	P-O5'-C5'	5.29	129.36	120.90
35	BB	1226	G	N7-C8-N9	-5.29	110.46	113.10
38	BE	110	U	O3'-P-O5'	-5.29	93.95	104.00
85	AA	120	C	N1-C2-O2	5.29	122.07	118.90
85	AA	1461	A	C4'-C3'-C2'	-5.29	97.31	102.60
4	A3	37	VAL	CA-CB-CG2	-5.29	102.97	110.90
5	A4	107	ARG	N-CA-C	5.29	125.27	111.00
31	AX	39	ARG	NE-CZ-NH1	5.29	122.94	120.30
34	BA	95	C	N3-C4-N4	-5.29	114.30	118.00
34	BA	181	G	O3'-P-O5'	5.29	114.04	104.00
34	BA	494	A	O4'-C1'-C2'	5.29	112.36	107.60
34	BA	807	U	C2-N3-C4	-5.29	123.83	127.00
34	BA	1740	U	C2-N1-C1'	-5.29	111.36	117.70
35	BB	52	G	C8-N9-C1'	5.29	133.87	127.00
35	BB	129	U	N3-C2-O2	-5.29	118.50	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1078	U	N3-C2-O2	-5.29	118.50	122.20
35	BB	1099	U	O5'-C5'-C4'	-5.29	101.66	111.70
35	BB	1221	G	OP1-P-O3'	5.29	116.83	105.20
35	BB	1256	C	O4'-C1'-N1	5.29	112.43	108.20
35	BB	1397	G	C5-C6-O6	5.29	131.77	128.60
39	BF	13	U	C2-N1-C1'	-5.29	111.36	117.70
62	Bc	113	MET	CG-SD-CE	-5.29	91.74	100.20
67	Bh	83	ASN	CA-CB-CG	-5.29	101.77	113.40
85	AA	310	U	C6-N1-C2	-5.29	117.83	121.00
85	AA	487	G	C5'-C4'-O4'	5.29	115.44	109.10
85	AA	504	U	C4'-C3'-O3'	-5.29	98.30	109.40
85	AA	678	A	N9-C1'-C2'	-5.29	106.19	112.00
85	AA	1105	G	C1'-O4'-C4'	-5.29	105.67	109.90
85	AA	1247	A	C5-C6-N1	5.29	120.34	117.70
85	AA	1407	C	C6-N1-C2	-5.29	118.19	120.30
85	AA	1542	A	C5'-C4'-C3'	-5.29	107.54	116.00
85	AA	1801	U	C5'-C4'-C3'	-5.29	107.54	116.00
86	AB	34	G	O4'-C1'-N9	5.29	112.43	108.20
34	BA	341	U	N1-C2-O2	5.28	126.50	122.80
34	BA	409	A	P-O3'-C3'	-5.28	113.36	119.70
34	BA	948	C	C2-N1-C1'	-5.28	112.99	118.80
34	BA	986	G	C8-N9-C1'	5.28	133.87	127.00
34	BA	1420	A	C5'-C4'-C3'	5.28	124.45	116.00
34	BA	1511	C	C1'-O4'-C4'	-5.28	105.67	109.90
34	BA	1555	G	C6-N1-C2	-5.28	121.93	125.10
34	BA	1599	A	O4'-C1'-N9	5.28	112.43	108.20
35	BB	353	G	C4'-C3'-C2'	-5.28	97.32	102.60
35	BB	635	A	O4'-C1'-N9	5.28	112.43	108.20
35	BB	1292	G	C5'-C4'-C3'	-5.28	107.55	116.00
35	BB	1473	U	C6-N1-C1'	-5.28	113.80	121.20
38	BE	111	C	N3-C4-N4	5.28	121.70	118.00
39	BF	34	C	N1-C2-O2	5.28	122.07	118.90
61	Bb	110	LEU	CB-CA-C	5.28	120.24	110.20
85	AA	626	G	N3-C2-N2	5.28	123.60	119.90
85	AA	643	C	C1'-O4'-C4'	-5.28	105.67	109.90
85	AA	790	A	O5'-P-OP1	5.28	117.04	110.70
85	AA	848	C	N3-C4-N4	5.28	121.70	118.00
85	AA	864	C	P-O3'-C3'	-5.28	113.36	119.70
85	AA	1663	U	C4'-C3'-C2'	-5.28	97.32	102.60
85	AA	1786	G	N7-C8-N9	5.28	115.74	113.10
34	BA	923	C	N3-C2-O2	-5.28	118.20	121.90
34	BA	1226	G	C5-C6-N1	5.28	114.14	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1308	C	O4'-C1'-N1	5.28	112.42	108.20
35	BB	1463	A	N3-C4-C5	-5.28	123.10	126.80
36	BC	42	G	N9-C1'-C2'	-5.28	106.19	112.00
36	BC	163	A	C8-N9-C1'	5.28	137.21	127.70
40	BG	3	G	N1-C6-O6	-5.28	116.73	119.90
41	BH	46	C	N3-C2-O2	-5.28	118.20	121.90
85	AA	59	C	C5-C4-N4	-5.28	116.50	120.20
85	AA	78	A	C5'-C4'-O4'	5.28	115.44	109.10
85	AA	238	C	C5'-C4'-O4'	5.28	115.44	109.10
6	A5	116	HIS	N-CA-CB	-5.28	101.09	110.60
34	BA	29	U	O4'-C1'-N1	5.28	112.42	108.20
34	BA	136	A	C5-N7-C8	5.28	106.54	103.90
34	BA	439	A	O3'-P-O5'	-5.28	93.97	104.00
34	BA	572	G	P-O5'-C5'	5.28	129.35	120.90
34	BA	731	A	C5'-C4'-C3'	5.28	124.45	116.00
34	BA	893	U	P-O3'-C3'	-5.28	113.36	119.70
34	BA	1120	U	C5'-C4'-O4'	5.28	115.44	109.10
34	BA	1221	A	C8-N9-C1'	5.28	137.21	127.70
34	BA	1612	C	O4'-C1'-N1	5.28	112.42	108.20
35	BB	486	G	C4-N9-C1'	-5.28	119.64	126.50
35	BB	532	C	P-O5'-C5'	-5.28	112.45	120.90
35	BB	967	G	C4-N9-C1'	-5.28	119.64	126.50
35	BB	1134	G	C4-C5-N7	5.28	112.91	110.80
35	BB	1170	U	C5'-C4'-C3'	-5.28	107.55	116.00
37	BD	72	U	N1-C1'-C2'	-5.28	106.19	112.00
40	BG	29	U	C5-C4-O4	-5.28	122.73	125.90
49	BP	123	TRP	CB-CG-CD2	-5.28	119.73	126.60
51	BR	155	GLU	CB-CA-C	-5.28	99.84	110.40
78	Bs	24	TYR	CB-CG-CD2	-5.28	117.83	121.00
85	AA	117	C	C6-N1-C1'	-5.28	114.46	120.80
85	AA	233	C	C3'-C2'-C1'	-5.28	97.28	101.50
85	AA	1086	U	C6-N1-C2	-5.28	117.83	121.00
85	AA	1120	G	C6-N1-C2	-5.28	121.93	125.10
85	AA	1219	A	P-O3'-C3'	-5.28	113.36	119.70
85	AA	1626	U	O4'-C1'-N1	5.28	112.42	108.20
85	AA	1901	G	C4'-C3'-C2'	-5.28	97.32	102.60
34	BA	460	G	C5'-C4'-C3'	5.28	124.45	116.00
34	BA	758	G	C4-C5-C6	-5.28	115.63	118.80
34	BA	1417	C	C1'-O4'-C4'	-5.28	105.68	109.90
35	BB	962	U	C1'-O4'-C4'	-5.28	105.68	109.90
36	BC	132	U	P-O5'-C5'	5.28	129.35	120.90
40	BG	84	U	N3-C4-C5	-5.28	111.43	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
78	Bs	16	GLU	N-CA-C	5.28	125.25	111.00
85	AA	286	C	C5-C6-N1	5.28	123.64	121.00
85	AA	354	C	P-O3'-C3'	-5.28	113.36	119.70
85	AA	1457	C	C3'-C2'-C1'	-5.28	97.28	101.50
85	AA	1638	C	N3-C2-O2	-5.28	118.20	121.90
34	BA	494	A	P-O5'-C5'	5.28	129.34	120.90
34	BA	612	U	O4'-C1'-N1	5.28	112.42	108.20
34	BA	651	U	C2-N1-C1'	-5.28	111.37	117.70
34	BA	743	A	N3-C4-C5	5.28	130.49	126.80
34	BA	1177	C	O4'-C1'-N1	5.28	112.42	108.20
34	BA	1537	G	O4'-C4'-C3'	5.28	110.32	106.10
34	BA	1697	U	O5'-P-OP1	-5.28	100.95	105.70
34	BA	1726	U	O4'-C1'-N1	5.28	112.42	108.20
35	BB	23	U	C1'-O4'-C4'	-5.28	105.68	109.90
35	BB	169	U	P-O3'-C3'	5.28	126.03	119.70
35	BB	435	A	O4'-C1'-C2'	5.28	112.35	107.60
35	BB	1339	C	O4'-C1'-N1	5.28	112.42	108.20
38	BE	162	U	O5'-C5'-C4'	-5.28	101.67	111.70
39	BF	60	C	O4'-C1'-C2'	-5.28	100.52	105.80
40	BG	38	A	C8-N9-C1'	5.28	137.20	127.70
40	BG	169	A	O5'-C5'-C4'	5.28	121.73	111.70
42	BI	92	ASP	N-CA-CB	5.28	120.10	110.60
48	BO	187	HIS	N-CA-CB	-5.28	101.10	110.60
54	BU	148	ARG	C-N-CA	5.28	134.89	121.70
80	Bu	249	TYR	CB-CG-CD2	-5.28	117.83	121.00
85	AA	307	G	N9-C1'-C2'	-5.28	106.19	112.00
85	AA	943	U	N3-C4-C5	-5.28	111.43	114.60
85	AA	1470	A	N7-C8-N9	-5.28	111.16	113.80
85	AA	1854	U	C6-N1-C2	-5.28	117.83	121.00
86	AB	39	U	C5'-C4'-C3'	5.28	124.44	116.00
21	AM	27	VAL	N-CA-CB	5.28	123.11	111.50
34	BA	230	A	C4'-C3'-C2'	5.28	107.88	102.60
34	BA	238	C	C5'-C4'-C3'	-5.28	107.56	116.00
34	BA	507	U	P-O5'-C5'	5.28	129.34	120.90
34	BA	576	C	OP1-P-OP2	-5.28	111.69	119.60
34	BA	633	G	OP2-P-O3'	5.28	116.81	105.20
34	BA	769	U	C4-C5-C6	5.28	122.86	119.70
34	BA	785	G	N9-C1'-C2'	-5.28	106.20	112.00
34	BA	1116	G	O3'-P-O5'	5.28	114.02	104.00
34	BA	1470	G	C5-C6-N1	5.28	114.14	111.50
34	BA	1612	C	N3-C2-O2	-5.28	118.21	121.90
34	BA	1663	U	C6-N1-C2	-5.28	117.83	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1752	A	C3'-C2'-C1'	-5.28	97.28	101.50
35	BB	391	G	C5-C6-N1	5.28	114.14	111.50
35	BB	1113	C	O3'-P-O5'	-5.28	93.98	104.00
35	BB	1520	C	C2-N3-C4	-5.28	117.26	119.90
39	BF	69	A	N1-C6-N6	5.28	121.77	118.60
40	BG	171	A	C8-N9-C1'	5.28	137.20	127.70
47	BN	15	LYS	C-N-CA	5.28	134.89	121.70
65	Bf	372	TYR	CB-CG-CD2	-5.28	117.83	121.00
79	Bt	81	ILE	CB-CA-C	-5.28	101.05	111.60
85	AA	436	G	C6-N1-C2	-5.28	121.94	125.10
85	AA	719	C	C1'-O4'-C4'	-5.28	105.68	109.90
85	AA	892	C	C5'-C4'-O4'	5.28	115.43	109.10
85	AA	1036	A	P-O5'-C5'	-5.28	112.46	120.90
85	AA	1463	A	C5-C6-N6	-5.28	119.48	123.70
85	AA	1553	G	P-O3'-C3'	-5.28	113.37	119.70
85	AA	1976	G	C3'-C2'-C1'	-5.28	97.28	101.50
28	AU	108	THR	N-CA-C	-5.27	96.76	111.00
34	BA	236	A	O4'-C1'-N9	-5.27	103.98	108.20
34	BA	619	U	N3-C2-O2	-5.27	118.51	122.20
34	BA	768	G	O4'-C1'-N9	5.27	112.42	108.20
34	BA	1546	C	N1-C2-O2	5.27	122.06	118.90
35	BB	1331	U	C3'-C2'-C1'	-5.27	97.28	101.50
35	BB	1373	U	O3'-P-O5'	5.27	114.02	104.00
36	BC	144	C	C5-C6-N1	-5.27	118.36	121.00
40	BG	63	U	C5'-C4'-C3'	-5.27	107.56	116.00
85	AA	796	U	P-O5'-C5'	-5.27	112.46	120.90
85	AA	862	U	N1-C2-O2	5.27	126.49	122.80
85	AA	1841	G	C5'-C4'-C3'	-5.27	107.56	116.00
86	AB	71	G	N1-C6-O6	5.27	123.06	119.90
3	A2	138	TYR	CB-CG-CD2	-5.27	117.84	121.00
16	AH	121	ARG	NE-CZ-NH1	5.27	122.94	120.30
22	AO	45	MET	CG-SD-CE	-5.27	91.77	100.20
22	AO	149	ASP	CA-CB-CG	5.27	125.00	113.40
34	BA	17	A	O4'-C1'-N9	5.27	112.42	108.20
34	BA	462	C	C2-N1-C1'	5.27	124.60	118.80
34	BA	574	U	C2-N1-C1'	5.27	124.03	117.70
34	BA	719	G	C6-N1-C2	-5.27	121.94	125.10
34	BA	947	A	C1'-O4'-C4'	-5.27	105.68	109.90
34	BA	1314	A	OP2-P-O3'	5.27	116.80	105.20
34	BA	1390	C	C5'-C4'-O4'	5.27	115.43	109.10
35	BB	434	A	C1'-O4'-C4'	-5.27	105.68	109.90
35	BB	852	G	N3-C4-C5	-5.27	125.96	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1027	U	O5'-C5'-C4'	-5.27	101.68	111.70
35	BB	1096	G	C4-N9-C1'	-5.27	119.65	126.50
35	BB	1373	U	N3-C2-O2	-5.27	118.51	122.20
35	BB	1533	U	C2-N3-C4	-5.27	123.84	127.00
36	BC	102	G	C5'-C4'-C3'	-5.27	107.56	116.00
40	BG	177	U	N1-C1'-C2'	-5.27	106.20	112.00
41	BH	18	C	C4'-C3'-C2'	-5.27	97.33	102.60
41	BH	29	G	C5-C6-O6	5.27	131.76	128.60
69	Bj	103	ILE	CB-CA-C	5.27	122.14	111.60
85	AA	85	U	P-O3'-C3'	5.27	126.03	119.70
85	AA	86	G	C8-N9-C1'	5.27	133.85	127.00
85	AA	424	A	C6-N1-C2	-5.27	115.44	118.60
85	AA	479	C	C3'-C2'-C1'	-5.27	97.28	101.50
85	AA	559	G	O4'-C1'-N9	5.27	112.42	108.20
85	AA	620	U	C5'-C4'-C3'	-5.27	107.56	116.00
85	AA	873	U	C3'-C2'-C1'	5.27	105.72	101.50
85	AA	882	C	O4'-C1'-N1	5.27	112.42	108.20
85	AA	1189	A	C5-C6-N6	-5.27	119.48	123.70
85	AA	1670	U	C1'-O4'-C4'	-5.27	105.68	109.90
85	AA	1922	A	OP1-P-O3'	5.27	116.80	105.20
85	AA	2140	U	N3-C2-O2	-5.27	118.51	122.20
86	AB	70	G	C2'-C3'-O3'	5.27	122.14	113.70
30	AW	18	MET	CG-SD-CE	-5.27	91.77	100.20
34	BA	236	A	C5-C6-N1	5.27	120.33	117.70
34	BA	1314	A	C8-N9-C1'	-5.27	118.21	127.70
35	BB	74	U	N1-C2-N3	5.27	118.06	114.90
35	BB	431	U	O5'-C5'-C4'	-5.27	101.69	111.70
35	BB	1359	G	C4-N9-C1'	-5.27	119.65	126.50
36	BC	9	G	C6-N1-C2	-5.27	121.94	125.10
50	BQ	70	TYR	CA-CB-CG	-5.27	103.39	113.40
85	AA	1574	C	C6-N1-C2	-5.27	118.19	120.30
34	BA	10	G	C4'-C3'-C2'	5.27	107.87	102.60
34	BA	745	A	O4'-C1'-N9	5.27	112.42	108.20
34	BA	1267	A	C8-N9-C1'	-5.27	118.21	127.70
34	BA	1619	U	C6-N1-C1'	5.27	128.58	121.20
34	BA	1780	U	C5'-C4'-C3'	5.27	124.43	116.00
34	BA	1797	A	OP1-P-O3'	5.27	116.79	105.20
35	BB	317	C	P-O5'-C5'	5.27	129.33	120.90
35	BB	500	C	P-O3'-C3'	-5.27	113.38	119.70
35	BB	790	A	P-O5'-C5'	-5.27	112.47	120.90
35	BB	801	G	C8-N9-C4	-5.27	104.29	106.40
35	BB	803	U	OP1-P-OP2	-5.27	111.69	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1311	G	C1'-O4'-C4'	-5.27	105.68	109.90
35	BB	1416	A	C5'-C4'-O4'	5.27	115.42	109.10
35	BB	1422	G	C4-N9-C1'	-5.27	119.65	126.50
35	BB	1468	A	C2'-C3'-O3'	5.27	122.13	113.70
36	BC	72	A	C4'-C3'-C2'	-5.27	97.33	102.60
37	BD	27	A	C1'-O4'-C4'	-5.27	105.68	109.90
41	BH	20	A	C3'-C2'-C1'	-5.27	97.28	101.50
41	BH	133	U	C6-N1-C1'	5.27	128.58	121.20
47	BN	59	LEU	CB-CG-CD1	5.27	119.96	111.00
53	BT	78	THR	CA-CB-CG2	-5.27	105.02	112.40
83	Bx	213	PHE	CA-CB-CG	-5.27	101.25	113.90
84	By	35	LYS	C-N-CA	5.27	134.88	121.70
85	AA	109	G	C8-N9-C1'	5.27	133.85	127.00
85	AA	540	A	C4-C5-C6	-5.27	114.36	117.00
85	AA	1474	U	C1'-O4'-C4'	-5.27	105.68	109.90
85	AA	1511	C	O5'-C5'-C4'	-5.27	101.69	111.70
85	AA	1833	C	C4-C5-C6	-5.27	114.77	117.40
2	A1	61	ILE	CB-CA-C	-5.27	101.07	111.60
8	A7	238	ALA	N-CA-CB	-5.27	102.73	110.10
34	BA	567	U	O4'-C4'-C3'	-5.27	98.73	104.00
34	BA	800	G	N7-C8-N9	5.27	115.73	113.10
34	BA	849	G	C4-C5-C6	-5.27	115.64	118.80
34	BA	1022	C	C5'-C4'-C3'	5.27	124.43	116.00
34	BA	1703	A	O4'-C1'-N9	5.27	112.41	108.20
35	BB	665	A	C5-C6-N6	-5.27	119.48	123.70
35	BB	1198	C	C3'-C2'-C1'	-5.27	97.29	101.50
35	BB	1461	C	C4'-C3'-C2'	5.27	107.87	102.60
37	BD	32	A	C1'-O4'-C4'	-5.27	105.69	109.90
38	BE	14	C	OP1-P-O3'	5.27	116.79	105.20
38	BE	91	G	C1'-O4'-C4'	-5.27	105.69	109.90
40	BG	19	C	P-O3'-C3'	-5.27	113.38	119.70
40	BG	76	C	P-O3'-C3'	-5.27	113.38	119.70
41	BH	76	G	N3-C4-C5	-5.27	125.97	128.60
52	BS	118	ALA	N-CA-CB	-5.27	102.73	110.10
65	Bf	451	ARG	NE-CZ-NH1	5.27	122.93	120.30
85	AA	86	G	C8-N9-C4	5.27	108.51	106.40
85	AA	99	U	C2-N1-C1'	-5.27	111.38	117.70
85	AA	156	G	P-O5'-C5'	5.27	129.33	120.90
85	AA	943	U	O5'-P-OP2	-5.27	100.96	105.70
85	AA	1056	C	C6-N1-C2	-5.27	118.19	120.30
85	AA	1292	A	C5'-C4'-O4'	5.27	115.42	109.10
85	AA	2235	C	C2-N3-C4	-5.27	117.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	841	G	C4-N9-C1'	-5.27	119.66	126.50
34	BA	1542	A	O5'-P-OP2	5.27	117.02	110.70
34	BA	1603	A	C6-N1-C2	-5.27	115.44	118.60
35	BB	19	C	N1-C1'-C2'	-5.27	106.21	112.00
35	BB	506	G	N1-C2-N2	-5.27	111.46	116.20
35	BB	671	A	P-O5'-C5'	5.27	129.33	120.90
35	BB	1485	G	N3-C4-C5	-5.27	125.97	128.60
40	BG	53	C	N3-C4-C5	-5.27	119.79	121.90
40	BG	54	G	C8-N9-C1'	5.27	133.85	127.00
85	AA	59	C	O4'-C1'-N1	5.27	112.41	108.20
85	AA	60	U	C2-N3-C4	-5.27	123.84	127.00
85	AA	932	A	C5'-C4'-C3'	5.27	124.43	116.00
85	AA	1461	A	OP2-P-O3'	5.27	116.78	105.20
85	AA	1856	G	O5'-C5'-C4'	-5.27	101.69	111.70
22	AO	153	PHE	CB-CG-CD1	5.26	124.48	120.80
34	BA	465	A	N1-C6-N6	-5.26	115.44	118.60
34	BA	472	G	N7-C8-N9	5.26	115.73	113.10
34	BA	803	U	O4'-C1'-N1	5.26	112.41	108.20
34	BA	881	C	C2-N3-C4	-5.26	117.27	119.90
34	BA	1313	U	P-O5'-C5'	-5.26	112.48	120.90
34	BA	1709	A	C4'-C3'-C2'	5.26	107.86	102.60
35	BB	962	U	C3'-C2'-C1'	-5.26	97.29	101.50
35	BB	967	G	C8-N9-C4	-5.26	104.30	106.40
35	BB	1142	C	C1'-O4'-C4'	-5.26	105.69	109.90
35	BB	1386	C	N3-C2-O2	-5.26	118.22	121.90
35	BB	1436	U	C3'-C2'-C1'	5.26	105.71	101.50
35	BB	1481	C	C6-N1-C2	-5.26	118.19	120.30
37	BD	69	U	C6-N1-C1'	5.26	128.57	121.20
38	BE	6	A	P-O5'-C5'	-5.26	112.48	120.90
38	BE	57	U	O4'-C1'-N1	5.26	112.41	108.20
40	BG	86	U	C6-N1-C1'	-5.26	113.83	121.20
56	BW	49	ASN	CA-CB-CG	-5.26	101.82	113.40
60	Ba	116	GLN	CA-CB-CG	-5.26	101.82	113.40
69	Bj	77	ARG	N-CA-C	-5.26	96.79	111.00
85	AA	4	C	P-O3'-C3'	5.26	126.02	119.70
85	AA	415	G	O4'-C1'-N9	5.26	112.41	108.20
85	AA	800	A	C4-C5-C6	-5.26	114.37	117.00
85	AA	1644	G	N3-C4-N9	5.26	129.16	126.00
85	AA	2133	A	P-O3'-C3'	-5.26	113.38	119.70
34	BA	398	G	C5-N7-C8	-5.26	101.67	104.30
34	BA	1110	A	N7-C8-N9	-5.26	111.17	113.80
34	BA	1201	G	O5'-C5'-C4'	5.26	121.70	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1016	C	O4'-C4'-C3'	-5.26	98.74	104.00
35	BB	1093	C	C5'-C4'-C3'	-5.26	107.58	116.00
35	BB	1338	U	C1'-O4'-C4'	-5.26	105.69	109.90
77	Br	217	ARG	O-C-N	-5.26	114.28	122.70
85	AA	1098	C	C3'-C2'-C1'	-5.26	97.29	101.50
85	AA	1256	C	O5'-C5'-C4'	-5.26	101.70	111.70
85	AA	2080	U	P-O3'-C3'	5.26	126.02	119.70
85	AA	2200	A	C1'-O4'-C4'	-5.26	105.69	109.90
8	A7	81	PHE	CB-CG-CD1	5.26	124.48	120.80
34	BA	79	C	N1-C2-O2	5.26	122.06	118.90
34	BA	96	G	C5-N7-C8	-5.26	101.67	104.30
34	BA	117	C	O5'-P-OP1	5.26	117.01	110.70
34	BA	400	A	C1'-O4'-C4'	-5.26	105.69	109.90
34	BA	498	A	C5'-C4'-C3'	5.26	124.42	116.00
34	BA	569	C	O4'-C1'-N1	5.26	112.41	108.20
34	BA	758	G	C6-N1-C2	-5.26	121.94	125.10
34	BA	1030	C	P-O5'-C5'	-5.26	112.48	120.90
34	BA	1088	G	C5-C6-N1	5.26	114.13	111.50
34	BA	1321	A	O4'-C1'-N9	5.26	112.41	108.20
34	BA	1363	A	O5'-C5'-C4'	-5.26	101.70	111.70
34	BA	1372	C	C2'-C3'-O3'	5.26	122.12	113.70
35	BB	130	G	C1'-O4'-C4'	-5.26	105.69	109.90
35	BB	514	G	C3'-C2'-C1'	-5.26	97.29	101.50
35	BB	817	C	C3'-C2'-C1'	-5.26	97.29	101.50
35	BB	1114	A	C1'-O4'-C4'	-5.26	105.69	109.90
35	BB	1200	A	O4'-C1'-N9	5.26	112.41	108.20
36	BC	158	U	C3'-C2'-C1'	-5.26	97.29	101.50
38	BE	114	G	C5-C6-N1	5.26	114.13	111.50
38	BE	180	G	N3-C4-N9	-5.26	122.84	126.00
39	BF	24	G	O3'-P-O5'	5.26	114.00	104.00
40	BG	9	G	N3-C4-C5	-5.26	125.97	128.60
40	BG	147	U	C2-N3-C4	-5.26	123.84	127.00
41	BH	40	C	O3'-P-O5'	5.26	114.00	104.00
41	BH	127	A	O3'-P-O5'	-5.26	94.00	104.00
59	BZ	78	HIS	CA-CB-CG	-5.26	104.66	113.60
85	AA	130	G	N3-C2-N2	5.26	123.58	119.90
85	AA	856	G	O5'-C5'-C4'	5.26	121.70	111.70
13	AE	83	ARG	CD-NE-CZ	-5.26	116.24	123.60
34	BA	102	G	C5'-C4'-C3'	-5.26	107.58	116.00
34	BA	196	A	N7-C8-N9	-5.26	111.17	113.80
34	BA	458	G	N3-C2-N2	5.26	123.58	119.90
34	BA	535	G	C5-N7-C8	5.26	106.93	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	558	C	C5'-C4'-O4'	5.26	115.41	109.10
34	BA	670	U	N1-C1'-C2'	-5.26	106.22	112.00
34	BA	768	G	C6-N1-C2	5.26	128.25	125.10
35	BB	804	U	O5'-P-OP1	5.26	117.01	110.70
38	BE	64	A	C3'-C2'-C1'	-5.26	97.29	101.50
39	BF	18	U	N1-C1'-C2'	-5.26	106.22	112.00
40	BG	150	A	C4'-C3'-C2'	5.26	107.86	102.60
40	BG	171	A	P-O3'-C3'	-5.26	113.39	119.70
47	BN	104	ARG	NE-CZ-NH2	5.26	122.93	120.30
71	Bl	101	ARG	NE-CZ-NH2	-5.26	117.67	120.30
85	AA	29	U	C2-N1-C1'	-5.26	111.39	117.70
85	AA	202	U	N3-C4-O4	5.26	123.08	119.40
85	AA	279	C	O4'-C1'-N1	5.26	112.41	108.20
85	AA	579	U	C3'-C2'-C1'	-5.26	97.29	101.50
85	AA	849	A	C4'-C3'-C2'	-5.26	97.34	102.60
85	AA	851	G	N1-C6-O6	5.26	123.06	119.90
85	AA	982	G	O4'-C1'-N9	5.26	112.41	108.20
85	AA	1441	G	O4'-C1'-N9	5.26	112.41	108.20
85	AA	2208	G	C2'-C3'-O3'	5.26	122.11	113.70
85	AA	2227	A	O4'-C1'-N9	5.26	112.41	108.20
27	AT	35	PRO	O-C-N	-5.26	114.26	123.20
34	BA	139	U	C5'-C4'-O4'	5.26	115.41	109.10
34	BA	1334	G	N1-C6-O6	5.26	123.06	119.90
34	BA	1591	G	O4'-C1'-N9	5.26	112.41	108.20
34	BA	1630	A	C6-N1-C2	-5.26	115.44	118.60
34	BA	1832	A	C4'-C3'-O3'	-5.26	98.36	109.40
71	Bl	118	THR	CA-CB-CG2	5.26	119.76	112.40
83	Bx	97	ARG	NE-CZ-NH1	5.26	122.93	120.30
34	BA	121	A	C6-N1-C2	5.26	121.75	118.60
34	BA	333	A	C5'-C4'-C3'	-5.26	107.59	116.00
34	BA	436	U	P-O3'-C3'	-5.26	113.39	119.70
34	BA	614	A	C4'-C3'-C2'	-5.26	97.34	102.60
34	BA	687	G	C4-N9-C1'	-5.26	119.67	126.50
34	BA	816	G	C6-C5-N7	-5.26	127.25	130.40
34	BA	1092	U	O4'-C1'-N1	5.26	112.41	108.20
34	BA	1566	G	C5'-C4'-C3'	-5.26	107.59	116.00
34	BA	1716	A	C5-C6-N6	5.26	127.91	123.70
35	BB	54	U	O5'-P-OP2	5.26	117.01	110.70
35	BB	813	C	C1'-O4'-C4'	-5.26	105.69	109.90
35	BB	999	G	C8-N9-C1'	5.26	133.83	127.00
35	BB	1119	G	C1'-O4'-C4'	-5.26	105.69	109.90
35	BB	1379	U	P-O5'-C5'	-5.26	112.49	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	63	C	O5'-C5'-C4'	-5.26	101.71	111.70
65	Bf	298	THR	CA-CB-CG2	-5.26	105.04	112.40
85	AA	4	C	N3-C4-N4	5.26	121.68	118.00
85	AA	47	A	N3-C4-N9	5.26	131.61	127.40
85	AA	102	A	C8-N9-C4	5.26	107.90	105.80
85	AA	387	U	N3-C2-O2	-5.26	118.52	122.20
85	AA	483	G	C2-N3-C4	5.26	114.53	111.90
85	AA	606	A	C1'-O4'-C4'	-5.26	105.69	109.90
85	AA	751	C	O4'-C1'-C2'	-5.26	100.54	105.80
85	AA	1103	A	P-O3'-C3'	5.26	126.01	119.70
85	AA	1299	A	C8-N9-C1'	5.26	137.16	127.70
85	AA	1647	G	C5-C6-O6	5.26	131.75	128.60
25	AR	7	TYR	CA-CB-CG	-5.25	103.42	113.40
34	BA	495	A	N9-C1'-C2'	-5.25	106.22	112.00
34	BA	1706	A	O4'-C4'-C3'	-5.25	98.75	104.00
35	BB	524	C	P-O3'-C3'	-5.25	113.39	119.70
40	BG	44	G	N3-C2-N2	5.25	123.58	119.90
67	Bh	177	SER	N-CA-CB	5.25	118.38	110.50
79	Bt	38	ARG	NE-CZ-NH1	5.25	122.93	120.30
85	AA	118	C	P-O3'-C3'	-5.25	113.39	119.70
85	AA	303	A	N1-C6-N6	-5.25	115.45	118.60
85	AA	1463	A	O4'-C1'-N9	5.25	112.40	108.20
85	AA	1735	U	O4'-C1'-N1	5.25	112.40	108.20
85	AA	2109	G	C3'-C2'-C1'	-5.25	97.30	101.50
34	BA	68	A	N3-C4-N9	-5.25	123.20	127.40
34	BA	467	A	P-O5'-C5'	5.25	129.31	120.90
34	BA	540	G	O5'-C5'-C4'	-5.25	101.72	111.70
34	BA	1014	A	C2'-C3'-O3'	5.25	122.11	113.70
34	BA	1239	G	C5'-C4'-C3'	-5.25	107.59	116.00
34	BA	1346	U	C5'-C4'-C3'	-5.25	107.59	116.00
34	BA	1409	A	C5'-C4'-C3'	-5.25	107.59	116.00
34	BA	1721	U	N1-C2-N3	-5.25	111.75	114.90
34	BA	1834	A	P-O3'-C3'	-5.25	113.39	119.70
35	BB	367	C	C4'-C3'-C2'	-5.25	97.35	102.60
35	BB	650	A	C4-C5-C6	-5.25	114.37	117.00
35	BB	1046	C	P-O3'-C3'	-5.25	113.39	119.70
35	BB	1229	A	O4'-C1'-N9	5.25	112.40	108.20
36	BC	82	C	C4'-C3'-C2'	-5.25	97.35	102.60
37	BD	96	C	N3-C2-O2	-5.25	118.22	121.90
41	BH	113	G	O4'-C1'-C2'	5.25	112.33	107.60
53	BT	81	ARG	NE-CZ-NH2	5.25	122.93	120.30
85	AA	637	U	C6-N1-C1'	5.25	128.56	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1184	A	O4'-C1'-N9	5.25	112.40	108.20
34	BA	676	G	C1'-O4'-C4'	-5.25	105.70	109.90
34	BA	760	G	C8-N9-C1'	5.25	133.83	127.00
34	BA	1069	U	N1-C2-O2	5.25	126.48	122.80
34	BA	1083	A	C8-N9-C4	5.25	107.90	105.80
34	BA	1622	U	C4'-C3'-C2'	-5.25	97.35	102.60
35	BB	970	C	C6-N1-C2	-5.25	118.20	120.30
37	BD	77	A	C5'-C4'-O4'	5.25	115.40	109.10
49	BP	144	LEU	N-CA-CB	-5.25	99.90	110.40
65	Bf	322	ARG	N-CA-CB	5.25	120.05	110.60
84	By	59	PHE	CB-CG-CD2	-5.25	117.12	120.80
85	AA	109	G	C4'-C3'-C2'	5.25	107.85	102.60
85	AA	114	C	N1-C1'-C2'	-5.25	106.22	112.00
85	AA	196	U	C1'-O4'-C4'	-5.25	105.70	109.90
85	AA	1021	G	O4'-C1'-N9	5.25	112.40	108.20
85	AA	1292	A	C4-C5-C6	-5.25	114.37	117.00
85	AA	1518	A	C4-N9-C1'	-5.25	116.85	126.30
28	AU	100	CYS	CA-CB-SG	-5.25	104.55	114.00
34	BA	842	U	C5-C6-N1	-5.25	120.08	122.70
34	BA	985	C	N3-C2-O2	-5.25	118.22	121.90
34	BA	1305	A	N1-C2-N3	5.25	131.93	129.30
34	BA	1575	U	N3-C2-O2	-5.25	118.53	122.20
35	BB	399	A	C1'-O4'-C4'	-5.25	105.70	109.90
35	BB	1312	U	O5'-C5'-C4'	-5.25	101.72	111.70
85	AA	565	G	C1'-O4'-C4'	-5.25	105.70	109.90
85	AA	741	G	N1-C6-O6	-5.25	116.75	119.90
85	AA	966	G	O4'-C1'-N9	5.25	112.40	108.20
85	AA	1441	G	O5'-P-OP2	-5.25	100.97	105.70
85	AA	1996	A	N3-C4-N9	-5.25	123.20	127.40
86	AB	34	G	N1-C6-O6	5.25	123.05	119.90
3	A2	145	ARG	CD-NE-CZ	-5.25	116.25	123.60
4	A3	145	ARG	NE-CZ-NH1	5.25	122.92	120.30
34	BA	102	G	C8-N9-C4	-5.25	104.30	106.40
34	BA	357	A	N9-C1'-C2'	-5.25	106.23	112.00
34	BA	398	G	C2-N3-C4	5.25	114.52	111.90
34	BA	688	G	C5'-C4'-O4'	5.25	115.40	109.10
34	BA	785	G	C4-N9-C1'	-5.25	119.68	126.50
34	BA	1259	C	N3-C2-O2	-5.25	118.23	121.90
34	BA	1585	A	C2-N3-C4	-5.25	107.98	110.60
34	BA	1621	U	P-O3'-C3'	-5.25	113.40	119.70
35	BB	109	U	O5'-C5'-C4'	-5.25	101.73	111.70
35	BB	696	G	C8-N9-C1'	5.25	133.82	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1128	U	C6-N1-C1'	5.25	128.55	121.20
35	BB	1375	G	C4-N9-C1'	-5.25	119.68	126.50
37	BD	94	C	C2-N1-C1'	5.25	124.57	118.80
38	BE	92	C	O3'-P-O5'	5.25	113.97	104.00
51	BR	4	TYR	N-CA-C	5.25	125.17	111.00
77	Br	269	SER	N-CA-CB	5.25	118.37	110.50
85	AA	418	G	C5-C6-N1	5.25	114.12	111.50
85	AA	462	A	N1-C6-N6	-5.25	115.45	118.60
85	AA	517	A	C3'-C2'-C1'	5.25	105.70	101.50
85	AA	521	A	N9-C1'-C2'	-5.25	106.23	112.00
85	AA	1517	G	C3'-C2'-C1'	-5.25	97.30	101.50
85	AA	1780	A	O4'-C1'-N9	5.25	112.40	108.20
85	AA	1905	A	P-O5'-C5'	5.25	129.30	120.90
85	AA	2083	G	N3-C4-C5	-5.25	125.98	128.60
34	BA	579	U	C5-C6-N1	-5.25	120.08	122.70
34	BA	600	G	C4'-C3'-C2'	-5.25	97.35	102.60
34	BA	689	C	C6-N1-C2	-5.25	118.20	120.30
34	BA	851	C	C2-N1-C1'	-5.25	113.03	118.80
34	BA	993	C	C5'-C4'-O4'	5.25	115.39	109.10
34	BA	1201	G	P-O3'-C3'	-5.25	113.40	119.70
34	BA	1260	G	N9-C1'-C2'	-5.25	106.23	112.00
35	BB	782	A	C8-N9-C4	-5.25	103.70	105.80
35	BB	1255	U	N1-C2-N3	5.25	118.05	114.90
35	BB	1312	U	C2-N1-C1'	-5.25	111.41	117.70
35	BB	1476	C	N1-C2-O2	5.25	122.05	118.90
37	BD	44	U	O4'-C1'-N1	5.25	112.40	108.20
38	BE	144	A	C4-N9-C1'	-5.25	116.86	126.30
39	BF	16	C	O5'-P-OP1	5.25	117.00	110.70
41	BH	128	G	N7-C8-N9	-5.25	110.48	113.10
62	Bc	84	PRO	CA-N-CD	-5.25	104.16	111.50
85	AA	527	A	C5'-C4'-C3'	-5.25	107.61	116.00
85	AA	1451	U	C6-N1-C2	-5.25	117.85	121.00
85	AA	1538	C	C2-N1-C1'	-5.25	113.03	118.80
85	AA	1542	A	C5-C6-N1	5.25	120.32	117.70
85	AA	2210	C	C5'-C4'-O4'	-5.25	102.80	109.10
34	BA	25	C	N3-C2-O2	-5.25	118.23	121.90
34	BA	182	U	C6-N1-C1'	5.25	128.54	121.20
35	BB	746	A	P-O5'-C5'	-5.25	112.51	120.90
36	BC	32	U	C5'-C4'-O4'	5.25	115.39	109.10
38	BE	170	U	C6-N1-C2	-5.25	117.85	121.00
71	Bl	52	HIS	N-CA-CB	5.25	120.04	110.60
85	AA	5	U	O5'-C5'-C4'	-5.25	101.73	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	246	C	C2-N1-C1'	-5.25	113.03	118.80
85	AA	451	G	C8-N9-C1'	5.25	133.82	127.00
85	AA	746	G	C1'-O4'-C4'	-5.25	105.70	109.90
85	AA	1189	A	N1-C6-N6	5.25	121.75	118.60
85	AA	2036	A	C4-C5-C6	5.25	119.62	117.00
85	AA	2155	U	C5-C6-N1	5.25	125.32	122.70
85	AA	2219	G	O4'-C1'-N9	5.25	112.40	108.20
25	AR	75	HIS	N-CA-CB	5.24	120.04	110.60
34	BA	66	C	O4'-C1'-N1	5.24	112.40	108.20
34	BA	79	C	C2-N1-C1'	-5.24	113.03	118.80
34	BA	859	G	C4'-C3'-C2'	-5.24	97.36	102.60
34	BA	1119	A	N9-C1'-C2'	-5.24	106.23	112.00
34	BA	1629	A	C8-N9-C4	-5.24	103.70	105.80
34	BA	1647	G	N7-C8-N9	-5.24	110.48	113.10
34	BA	1738	G	C1'-O4'-C4'	-5.24	105.71	109.90
35	BB	149	A	O4'-C1'-N9	5.24	112.39	108.20
35	BB	425	G	C4'-C3'-C2'	-5.24	97.36	102.60
35	BB	620	G	P-O5'-C5'	-5.24	112.51	120.90
35	BB	1157	G	C1'-O4'-C4'	-5.24	105.71	109.90
35	BB	1204	C	C5-C4-N4	-5.24	116.53	120.20
35	BB	1491	G	O3'-P-O5'	-5.24	94.04	104.00
35	BB	1519	U	N1-C1'-C2'	-5.24	106.23	112.00
36	BC	24	G	O5'-C5'-C4'	-5.24	101.74	111.70
37	BD	36	C	N3-C2-O2	-5.24	118.23	121.90
39	BF	31	U	P-O5'-C5'	-5.24	112.51	120.90
62	Bc	142	ARG	NE-CZ-NH1	5.24	122.92	120.30
85	AA	352	G	O4'-C1'-C2'	5.24	112.32	107.60
85	AA	818	C	C4'-C3'-C2'	-5.24	97.36	102.60
85	AA	1031	G	O4'-C1'-N9	5.24	112.39	108.20
85	AA	1199	C	O4'-C1'-N1	5.24	112.39	108.20
85	AA	1801	U	P-O5'-C5'	5.24	129.29	120.90
86	AB	21	A	C8-N9-C1'	5.24	137.14	127.70
7	A6	56	ARG	NH1-CZ-NH2	-5.24	113.63	119.40
23	AP	225	PHE	CB-CG-CD2	-5.24	117.13	120.80
34	BA	64	A	O3'-P-O5'	5.24	113.96	104.00
34	BA	166	G	C5-C6-O6	-5.24	125.45	128.60
35	BB	382	U	C6-N1-C1'	5.24	128.54	121.20
35	BB	817	C	C6-N1-C2	-5.24	118.20	120.30
35	BB	1399	A	N9-C4-C5	-5.24	103.70	105.80
37	BD	16	U	P-O5'-C5'	5.24	129.29	120.90
37	BD	25	G	C2'-C3'-O3'	5.24	122.09	113.70
38	BE	62	C	C1'-O4'-C4'	-5.24	105.71	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	34	C	C5'-C4'-O4'	-5.24	102.81	109.10
41	BH	25	A	C4-C5-C6	-5.24	114.38	117.00
48	BO	23	ASP	N-CA-CB	-5.24	101.17	110.60
85	AA	150	U	N3-C4-C5	-5.24	111.45	114.60
85	AA	2228	G	O5'-C5'-C4'	-5.24	101.74	111.70
1	A0	42	GLN	CB-CG-CD	5.24	125.22	111.60
33	AZ	49	ARG	NE-CZ-NH1	5.24	122.92	120.30
34	BA	61	G	C8-N9-C4	-5.24	104.30	106.40
34	BA	99	G	O4'-C1'-N9	5.24	112.39	108.20
34	BA	133	A	C5-N7-C8	-5.24	101.28	103.90
34	BA	217	C	P-O3'-C3'	-5.24	113.41	119.70
34	BA	660	C	C5'-C4'-C3'	5.24	124.38	116.00
34	BA	854	A	O4'-C4'-C3'	-5.24	98.76	104.00
34	BA	867	C	C4'-C3'-C2'	5.24	107.84	102.60
34	BA	1493	U	C6-N1-C2	-5.24	117.86	121.00
34	BA	1605	G	P-O5'-C5'	5.24	129.29	120.90
35	BB	649	A	O4'-C1'-N9	5.24	112.39	108.20
35	BB	651	G	C5-N7-C8	-5.24	101.68	104.30
38	BE	85	G	N1-C6-O6	5.24	123.04	119.90
38	BE	138	U	O3'-P-O5'	-5.24	94.04	104.00
49	BP	48	ARG	N-CA-C	-5.24	96.85	111.00
61	Bb	52	TYR	CB-CG-CD1	5.24	124.14	121.00
69	Bj	5	ARG	N-CA-C	-5.24	96.85	111.00
34	BA	228	A	C4'-C3'-O3'	-5.24	98.40	109.40
34	BA	263	G	O4'-C1'-C2'	-5.24	100.56	105.80
34	BA	749	G	N1-C6-O6	5.24	123.04	119.90
34	BA	1611	A	C6-N1-C2	-5.24	115.46	118.60
34	BA	1802	C	N3-C2-O2	-5.24	118.23	121.90
35	BB	534	C	C5-C6-N1	5.24	123.62	121.00
35	BB	835	C	C2-N1-C1'	5.24	124.56	118.80
35	BB	971	A	O3'-P-O5'	-5.24	94.05	104.00
35	BB	1504	U	O5'-C5'-C4'	5.24	121.65	111.70
36	BC	46	G	C5'-C4'-C3'	-5.24	107.62	116.00
36	BC	120	G	O4'-C1'-C2'	5.24	112.31	107.60
37	BD	76	U	N3-C4-O4	5.24	123.07	119.40
39	BF	27	G	C5-C6-O6	-5.24	125.46	128.60
40	BG	14	G	O4'-C4'-C3'	-5.24	98.76	104.00
40	BG	14	G	P-O5'-C5'	-5.24	112.52	120.90
85	AA	408	C	N3-C4-N4	-5.24	114.33	118.00
85	AA	443	A	C4'-C3'-O3'	-5.24	98.40	109.40
85	AA	537	G	N9-C4-C5	-5.24	103.31	105.40
85	AA	1680	U	O4'-C1'-N1	5.24	112.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2096	G	N3-C4-C5	-5.24	125.98	128.60
34	BA	281	C	N1-C2-O2	5.24	122.04	118.90
34	BA	1297	G	C5'-C4'-C3'	-5.24	107.62	116.00
34	BA	1433	U	N1-C1'-C2'	-5.24	106.24	112.00
35	BB	485	U	O4'-C1'-C2'	5.24	112.31	107.60
35	BB	541	U	N3-C4-O4	5.24	123.07	119.40
40	BG	41	U	N1-C2-O2	5.24	126.47	122.80
63	Bd	8	THR	N-CA-CB	5.24	120.25	110.30
85	AA	1903	G	N9-C1'-C2'	-5.24	106.24	112.00
2	A1	45	ILE	CA-CB-CG1	5.24	120.95	111.00
34	BA	246	G	N1-C6-O6	-5.24	116.76	119.90
34	BA	648	C	P-O3'-C3'	-5.24	113.42	119.70
34	BA	764	G	N1-C6-O6	-5.24	116.76	119.90
34	BA	875	G	C8-N9-C1'	5.24	133.81	127.00
34	BA	1015	G	O3'-P-O5'	-5.24	94.05	104.00
34	BA	1528	U	C2-N1-C1'	-5.24	111.42	117.70
34	BA	1596	C	C5-C6-N1	-5.24	118.38	121.00
34	BA	1740	U	O4'-C1'-N1	5.24	112.39	108.20
34	BA	1817	G	OP1-P-OP2	-5.24	111.75	119.60
36	BC	113	G	O3'-P-O5'	-5.24	94.05	104.00
40	BG	147	U	C5'-C4'-C3'	-5.24	107.62	116.00
41	BH	103	C	C6-N1-C2	-5.24	118.21	120.30
69	Bj	53	ARG	NE-CZ-NH1	5.24	122.92	120.30
85	AA	492	C	C4'-C3'-C2'	-5.24	97.36	102.60
85	AA	492	C	C3'-C2'-C1'	-5.24	97.31	101.50
85	AA	574	U	C5'-C4'-O4'	5.24	115.38	109.10
85	AA	583	U	OP2-P-O3'	5.24	116.72	105.20
85	AA	619	A	N9-C1'-C2'	-5.24	106.24	112.00
85	AA	640	C	C6-N1-C2	-5.24	118.21	120.30
85	AA	768	C	C2-N3-C4	-5.24	117.28	119.90
85	AA	1009	G	C5-C6-O6	-5.24	125.46	128.60
85	AA	2130	G	N9-C1'-C2'	-5.24	106.24	112.00
85	AA	2154	C	P-O3'-C3'	5.24	125.98	119.70
34	BA	551	U	N3-C4-O4	-5.23	115.74	119.40
34	BA	1065	U	N3-C2-O2	-5.23	118.54	122.20
34	BA	1150	A	C8-N9-C4	-5.23	103.71	105.80
35	BB	60	A	N9-C1'-C2'	-5.23	106.24	112.00
35	BB	472	C	N1-C2-N3	5.23	122.86	119.20
36	BC	114	C	C5'-C4'-O4'	5.23	115.38	109.10
38	BE	62	C	O5'-C5'-C4'	-5.23	101.76	111.70
38	BE	63	C	C5-C6-N1	-5.23	118.38	121.00
38	BE	170	U	N1-C2-N3	-5.23	111.76	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	111	C	C5'-C4'-C3'	5.23	124.38	116.00
40	BG	177	U	C5'-C4'-C3'	5.23	124.37	116.00
54	BU	12	ARG	NH1-CZ-NH2	-5.23	113.64	119.40
85	AA	537	G	O4'-C1'-C2'	5.23	112.31	107.60
85	AA	659	A	P-O3'-C3'	-5.23	113.42	119.70
85	AA	1150	G	O4'-C1'-C2'	5.23	112.31	107.60
85	AA	1170	C	N3-C4-N4	-5.23	114.34	118.00
85	AA	2058	C	P-O3'-C3'	-5.23	113.42	119.70
34	BA	21	C	C4'-C3'-C2'	-5.23	97.37	102.60
34	BA	117	C	C6-N1-C2	5.23	122.39	120.30
34	BA	191	G	O4'-C1'-N9	5.23	112.39	108.20
34	BA	232	U	N1-C1'-C2'	-5.23	106.24	112.00
34	BA	765	U	N1-C2-N3	5.23	118.04	114.90
34	BA	1093	G	P-O3'-C3'	-5.23	113.42	119.70
34	BA	1702	G	C5'-C4'-C3'	-5.23	107.63	116.00
35	BB	404	A	O5'-C5'-C4'	-5.23	101.76	111.70
35	BB	645	C	N3-C2-O2	-5.23	118.24	121.90
40	BG	62	C	N1-C2-N3	5.23	122.86	119.20
40	BG	152	G	N1-C6-O6	-5.23	116.76	119.90
41	BH	34	G	C6-N1-C2	-5.23	121.96	125.10
47	BN	174	PRO	N-CA-C	5.23	125.70	112.10
85	AA	657	C	C5'-C4'-C3'	-5.23	107.63	116.00
85	AA	1211	C	O4'-C1'-N1	5.23	112.39	108.20
85	AA	1543	C	N3-C2-O2	-5.23	118.24	121.90
8	A7	74	ALA	N-CA-C	-5.23	96.88	111.00
24	AQ	59	LYS	CB-CA-C	-5.23	99.94	110.40
34	BA	128	C	O4'-C1'-C2'	5.23	112.31	107.60
34	BA	501	U	C2-N3-C4	-5.23	123.86	127.00
34	BA	1103	G	N7-C8-N9	-5.23	110.48	113.10
34	BA	1248	A	N1-C6-N6	-5.23	115.46	118.60
35	BB	25	A	C6-C5-N7	5.23	135.96	132.30
35	BB	68	G	C2'-C3'-O3'	5.23	122.07	113.70
35	BB	815	G	N7-C8-N9	-5.23	110.48	113.10
35	BB	842	G	C3'-C2'-C1'	-5.23	97.31	101.50
35	BB	870	C	C6-N1-C1'	-5.23	114.52	120.80
35	BB	1098	G	C4-C5-C6	-5.23	115.66	118.80
37	BD	70	C	N3-C2-O2	-5.23	118.24	121.90
37	BD	118	C	C6-N1-C1'	5.23	127.08	120.80
38	BE	117	A	O4'-C1'-N9	5.23	112.39	108.20
38	BE	123	A	C5-N7-C8	-5.23	101.28	103.90
39	BF	11	C	OP1-P-O3'	5.23	116.71	105.20
40	BG	16	G	C4-C5-N7	-5.23	108.71	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BQ	66	ARG	NE-CZ-NH2	5.23	122.92	120.30
67	Bh	121	LYS	CA-C-N	-5.23	105.69	117.20
71	Bl	53	GLY	C-N-CA	5.23	134.78	121.70
85	AA	483	G	N1-C6-O6	-5.23	116.76	119.90
85	AA	567	G	O4'-C1'-N9	5.23	112.38	108.20
85	AA	584	G	N9-C1'-C2'	-5.23	106.25	112.00
85	AA	655	U	C4-C5-C6	-5.23	116.56	119.70
85	AA	655	U	C5-C6-N1	-5.23	120.08	122.70
85	AA	674	U	O5'-C5'-C4'	-5.23	101.76	111.70
85	AA	839	C	C5'-C4'-C3'	-5.23	107.63	116.00
85	AA	942	A	C5'-C4'-O4'	5.23	115.38	109.10
85	AA	1117	G	C5-C6-N1	5.23	114.12	111.50
85	AA	1258	U	C2-N3-C4	-5.23	123.86	127.00
85	AA	2050	C	C3'-C2'-C1'	-5.23	97.32	101.50
85	AA	2101	C	P-O3'-C3'	-5.23	113.42	119.70
86	AB	61	C	C4'-C3'-C2'	-5.23	97.37	102.60
34	BA	1456	C	O4'-C1'-C2'	5.23	112.31	107.60
34	BA	1481	U	C1'-O4'-C4'	-5.23	105.72	109.90
35	BB	1175	A	N1-C6-N6	-5.23	115.46	118.60
37	BD	16	U	O4'-C1'-C2'	5.23	112.31	107.60
85	AA	1547	G	C5-C6-O6	5.23	131.74	128.60
85	AA	2215	C	N1-C2-N3	5.23	122.86	119.20
34	BA	145	U	C4-C5-C6	-5.23	116.56	119.70
34	BA	531	C	N1-C1'-C2'	-5.23	106.25	112.00
34	BA	533	U	C5-C6-N1	-5.23	120.09	122.70
34	BA	788	C	O4'-C1'-C2'	5.23	112.30	107.60
34	BA	1138	C	O4'-C1'-N1	5.23	112.38	108.20
34	BA	1219	G	P-O3'-C3'	-5.23	113.43	119.70
34	BA	1434	U	C3'-C2'-C1'	5.23	105.68	101.50
35	BB	265	C	P-O3'-C3'	-5.23	113.43	119.70
35	BB	697	G	C5-C6-O6	-5.23	125.46	128.60
35	BB	1424	G	C8-N9-C4	5.23	108.49	106.40
37	BD	47	U	O4'-C4'-C3'	-5.23	98.77	104.00
40	BG	71	C	N1-C1'-C2'	-5.23	106.25	112.00
85	AA	36	U	C4'-C3'-C2'	5.23	107.83	102.60
85	AA	165	C	N1-C2-O2	5.23	122.04	118.90
85	AA	1018	G	C5-C6-O6	-5.23	125.46	128.60
85	AA	1220	A	N1-C6-N6	-5.23	115.46	118.60
85	AA	1292	A	N9-C4-C5	-5.23	103.71	105.80
85	AA	2048	C	N1-C2-O2	5.23	122.04	118.90
11	AC	90	THR	CA-CB-CG2	-5.23	105.08	112.40
34	BA	182	U	O4'-C1'-N1	5.23	112.38	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	670	U	C5-C6-N1	-5.23	120.09	122.70
34	BA	848	U	OP1-P-O3'	5.23	116.70	105.20
34	BA	1824	U	O4'-C1'-N1	5.23	112.38	108.20
35	BB	586	U	C5'-C4'-O4'	5.23	115.37	109.10
85	AA	259	A	C8-N9-C1'	5.23	137.11	127.70
85	AA	279	C	C6-N1-C2	-5.23	118.21	120.30
85	AA	1098	C	O4'-C1'-N1	5.23	112.38	108.20
85	AA	2195	A	C4-N9-C1'	-5.23	116.89	126.30
34	BA	184	C	P-O3'-C3'	-5.22	113.43	119.70
34	BA	421	G	C4-N9-C1'	-5.22	119.71	126.50
34	BA	1610	A	C8-N9-C1'	5.22	137.10	127.70
34	BA	1819	U	O4'-C1'-N1	5.22	112.38	108.20
35	BB	443	A	P-O3'-C3'	5.22	125.97	119.70
35	BB	586	U	C6-N1-C1'	5.22	128.51	121.20
35	BB	688	U	O3'-P-O5'	5.22	113.93	104.00
35	BB	873	C	N3-C2-O2	-5.22	118.24	121.90
35	BB	1341	U	C4'-C3'-C2'	-5.22	97.38	102.60
37	BD	24	U	C2'-C3'-O3'	5.22	122.06	113.70
38	BE	119	U	O4'-C1'-N1	5.22	112.38	108.20
39	BF	31	U	C5'-C4'-O4'	5.22	115.37	109.10
40	BG	23	C	O4'-C1'-N1	5.22	112.38	108.20
50	BQ	57	ARG	NE-CZ-NH2	-5.22	117.69	120.30
55	BV	50	TYR	CB-CG-CD1	5.22	124.13	121.00
85	AA	109	G	N9-C4-C5	5.22	107.49	105.40
85	AA	806	G	P-O3'-C3'	-5.22	113.43	119.70
85	AA	964	C	O5'-C5'-C4'	5.22	121.63	111.70
85	AA	1846	G	N1-C2-N2	-5.22	111.50	116.20
85	AA	2124	G	N9-C1'-C2'	-5.22	106.25	112.00
85	AA	2124	G	C5-C6-N1	5.22	114.11	111.50
85	AA	2198	G	O4'-C1'-N9	5.22	112.38	108.20
85	AA	2237	G	P-O5'-C5'	5.22	129.26	120.90
28	AU	78	SER	N-CA-CB	5.22	118.33	110.50
34	BA	240	C	P-O3'-C3'	-5.22	113.43	119.70
34	BA	1615	A	O4'-C1'-N9	5.22	112.38	108.20
35	BB	528	G	C2-N3-C4	-5.22	109.29	111.90
35	BB	778	A	N1-C6-N6	5.22	121.73	118.60
35	BB	1293	C	O4'-C1'-N1	5.22	112.38	108.20
61	Bb	10	HIS	CA-CB-CG	-5.22	104.72	113.60
85	AA	38	C	P-O3'-C3'	-5.22	113.43	119.70
85	AA	126	U	O4'-C4'-C3'	-5.22	98.78	104.00
85	AA	370	A	N1-C6-N6	-5.22	115.47	118.60
85	AA	413	G	C4'-C3'-C2'	-5.22	97.38	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	835	C	C5-C4-N4	5.22	123.86	120.20
85	AA	878	U	N1-C1'-C2'	-5.22	106.25	112.00
85	AA	1544	G	C5'-C4'-O4'	5.22	115.37	109.10
85	AA	1617	G	N1-C6-O6	5.22	123.03	119.90
85	AA	1685	G	C5'-C4'-C3'	-5.22	107.64	116.00
85	AA	1930	U	C4'-C3'-C2'	-5.22	97.38	102.60
34	BA	607	C	C5'-C4'-O4'	5.22	115.36	109.10
34	BA	963	G	N9-C1'-C2'	-5.22	106.26	112.00
34	BA	1284	G	C4-N9-C1'	-5.22	119.71	126.50
34	BA	1729	G	C3'-C2'-C1'	5.22	105.68	101.50
35	BB	813	C	N3-C2-O2	-5.22	118.25	121.90
35	BB	1516	C	P-O5'-C5'	-5.22	112.55	120.90
38	BE	10	G	OP1-P-OP2	-5.22	111.77	119.60
38	BE	97	G	C1'-O4'-C4'	-5.22	105.72	109.90
40	BG	60	A	N1-C6-N6	5.22	121.73	118.60
40	BG	127	G	N1-C2-N2	-5.22	111.50	116.20
85	AA	436	G	N7-C8-N9	-5.22	110.49	113.10
85	AA	456	A	C8-N9-C1'	5.22	137.10	127.70
85	AA	787	U	O5'-C5'-C4'	-5.22	101.78	111.70
17	AI	47	ARG	NE-CZ-NH1	5.22	122.91	120.30
34	BA	448	U	C2-N1-C1'	-5.22	111.44	117.70
34	BA	979	G	C3'-C2'-C1'	-5.22	97.33	101.50
34	BA	1223	C	C2-N1-C1'	5.22	124.54	118.80
34	BA	1263	A	C5'-C4'-O4'	5.22	115.36	109.10
34	BA	1412	G	N3-C4-N9	5.22	129.13	126.00
35	BB	106	A	N9-C1'-C2'	-5.22	106.26	112.00
35	BB	752	A	C4-C5-C6	-5.22	114.39	117.00
35	BB	1109	A	P-O5'-C5'	5.22	129.25	120.90
35	BB	1221	G	C4-N9-C1'	-5.22	119.71	126.50
35	BB	1410	G	C3'-C2'-C1'	-5.22	97.32	101.50
37	BD	31	U	C2-N1-C1'	-5.22	111.44	117.70
37	BD	78	C	N3-C2-O2	-5.22	118.25	121.90
38	BE	1	U	C1'-O4'-C4'	-5.22	105.72	109.90
40	BG	21	C	C4-C5-C6	5.22	120.01	117.40
40	BG	123	C	C5'-C4'-C3'	-5.22	107.65	116.00
41	BH	67	G	C4'-C3'-C2'	-5.22	97.38	102.60
47	BN	12	HIS	CA-CB-CG	-5.22	104.73	113.60
56	BW	13	PHE	N-CA-C	-5.22	96.91	111.00
60	Ba	101	ALA	N-CA-C	-5.22	96.91	111.00
65	Bf	127	VAL	CB-CA-C	-5.22	101.48	111.40
66	Bg	81	TYR	CB-CG-CD1	-5.22	117.87	121.00
85	AA	93	G	P-O3'-C3'	-5.22	113.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	102	A	N9-C1'-C2'	-5.22	106.26	112.00
85	AA	362	G	O4'-C1'-C2'	5.22	112.30	107.60
85	AA	1978	G	C4-C5-N7	5.22	112.89	110.80
85	AA	2001	C	C2'-C3'-O3'	5.22	122.05	113.70
23	AP	69	MET	CG-SD-CE	-5.22	91.85	100.20
34	BA	12	G	C5-C6-N1	5.22	114.11	111.50
34	BA	886	G	C3'-C2'-C1'	-5.22	97.33	101.50
34	BA	1182	U	O4'-C4'-C3'	-5.22	98.78	104.00
34	BA	1542	A	O4'-C1'-C2'	5.22	112.30	107.60
34	BA	1826	C	N3-C2-O2	-5.22	118.25	121.90
35	BB	22	A	O5'-P-OP1	5.22	116.96	110.70
41	BH	51	C	C6-N1-C1'	5.22	127.06	120.80
47	BN	63	VAL	CA-CB-CG2	5.22	118.73	110.90
62	Bc	28	SER	N-CA-C	5.22	125.09	111.00
85	AA	197	C	N3-C4-N4	5.22	121.65	118.00
85	AA	2229	G	N9-C1'-C2'	5.22	120.78	114.00
15	AG	130	ARG	NE-CZ-NH1	5.22	122.91	120.30
34	BA	355	U	O4'-C1'-N1	5.22	112.37	108.20
34	BA	697	A	C8-N9-C4	-5.22	103.71	105.80
34	BA	1247	G	C5-C6-O6	-5.22	125.47	128.60
34	BA	1323	G	P-O5'-C5'	5.22	129.25	120.90
35	BB	75	A	C4-N9-C1'	-5.22	116.91	126.30
35	BB	608	A	C5-C6-N1	5.22	120.31	117.70
35	BB	685	G	P-O5'-C5'	-5.22	112.56	120.90
35	BB	692	G	C1'-O4'-C4'	-5.22	105.73	109.90
35	BB	1035	C	N3-C2-O2	-5.22	118.25	121.90
35	BB	1357	C	C2-N3-C4	5.22	122.51	119.90
35	BB	1493	A	C5'-C4'-C3'	5.22	124.34	116.00
37	BD	109	U	O5'-C5'-C4'	-5.22	101.79	111.70
39	BF	57	C	C2-N3-C4	-5.22	117.29	119.90
40	BG	109	C	C5-C6-N1	-5.22	118.39	121.00
41	BH	18	C	C5'-C4'-C3'	-5.22	107.66	116.00
49	BP	134	LYS	N-CA-CB	5.22	119.99	110.60
63	Bd	50	ASN	N-CA-C	5.22	125.08	111.00
67	Bh	9	LYS	N-CA-CB	-5.22	101.21	110.60
84	By	127	ASP	CA-C-N	-5.22	105.72	117.20
84	By	138	VAL	CB-CA-C	5.22	121.31	111.40
85	AA	244	G	P-O5'-C5'	5.22	129.25	120.90
85	AA	394	C	N3-C4-C5	5.22	123.99	121.90
85	AA	743	C	C6-N1-C1'	5.22	127.06	120.80
85	AA	812	C	P-O5'-C5'	-5.22	112.55	120.90
85	AA	1248	U	C2-N1-C1'	-5.22	111.44	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1854	U	O4'-C1'-N1	5.22	112.37	108.20
85	AA	2095	U	N1-C2-O2	5.22	126.45	122.80
34	BA	171	U	C5-C6-N1	-5.21	120.09	122.70
34	BA	695	A	C6-N1-C2	-5.21	115.47	118.60
34	BA	1027	C	C3'-C2'-C1'	-5.21	97.33	101.50
34	BA	1099	U	C5'-C4'-O4'	5.21	115.36	109.10
34	BA	1277	G	O5'-C5'-C4'	-5.21	101.79	111.70
34	BA	1386	G	C5-C6-O6	-5.21	125.47	128.60
34	BA	1469	G	N3-C2-N2	5.21	123.55	119.90
34	BA	1640	G	C5-C6-N1	5.21	114.11	111.50
34	BA	1692	U	C5'-C4'-C3'	-5.21	107.66	116.00
34	BA	1800	G	C8-N9-C1'	-5.21	120.22	127.00
34	BA	1824	U	P-O3'-C3'	-5.21	113.44	119.70
34	BA	1842	U	C5'-C4'-O4'	5.21	115.36	109.10
35	BB	599	U	C1'-O4'-C4'	-5.21	105.73	109.90
35	BB	718	G	P-O3'-C3'	-5.21	113.44	119.70
35	BB	1133	C	C2'-C3'-O3'	5.21	122.04	113.70
35	BB	1509	G	C4-N9-C1'	-5.21	119.72	126.50
36	BC	116	C	C5'-C4'-C3'	-5.21	107.66	116.00
36	BC	120	G	C5-N7-C8	-5.21	101.69	104.30
40	BG	176	G	O4'-C1'-C2'	5.21	112.29	107.60
85	AA	97	A	C5-C6-N6	-5.21	119.53	123.70
85	AA	516	G	C5-C6-N1	5.21	114.11	111.50
85	AA	730	G	C4'-C3'-C2'	-5.21	97.39	102.60
85	AA	884	A	N1-C2-N3	-5.21	126.69	129.30
85	AA	1463	A	C8-N9-C4	-5.21	103.71	105.80
34	BA	177	G	C5-C6-N1	5.21	114.11	111.50
34	BA	191	G	N1-C2-N2	-5.21	111.51	116.20
34	BA	212	A	N7-C8-N9	-5.21	111.19	113.80
34	BA	589	A	P-O5'-C5'	-5.21	112.56	120.90
35	BB	60	A	O3'-P-O5'	5.21	113.90	104.00
35	BB	285	C	O4'-C1'-N1	5.21	112.37	108.20
35	BB	301	G	O4'-C1'-N9	5.21	112.37	108.20
35	BB	1495	U	C5-C4-O4	-5.21	122.77	125.90
40	BG	104	A	C3'-C2'-C1'	-5.21	97.33	101.50
40	BG	166	C	O5'-P-OP2	-5.21	101.01	105.70
85	AA	285	C	C3'-C2'-C1'	-5.21	97.33	101.50
85	AA	682	C	C2'-C3'-O3'	5.21	122.04	113.70
85	AA	1017	G	O4'-C1'-N9	5.21	112.37	108.20
20	AL	91	VAL	N-CA-C	-5.21	96.93	111.00
34	BA	248	G	O5'-C5'-C4'	5.21	121.60	111.70
34	BA	617	G	C4-N9-C1'	-5.21	119.72	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	745	A	C6-N1-C2	-5.21	115.47	118.60
34	BA	751	A	C3'-C2'-C1'	-5.21	97.33	101.50
34	BA	887	U	C6-N1-C1'	5.21	128.50	121.20
34	BA	943	G	C3'-C2'-C1'	-5.21	97.33	101.50
34	BA	1520	A	N9-C1'-C2'	-5.21	106.27	112.00
34	BA	1540	C	N1-C2-N3	5.21	122.85	119.20
34	BA	1549	U	P-O5'-C5'	-5.21	112.56	120.90
34	BA	1706	A	O5'-C5'-C4'	5.21	121.60	111.70
34	BA	1732	A	C4-C5-N7	-5.21	108.09	110.70
35	BB	1313	C	C3'-C2'-C1'	-5.21	97.33	101.50
36	BC	114	C	O4'-C1'-N1	5.21	112.37	108.20
38	BE	205	G	O3'-P-O5'	-5.21	94.10	104.00
40	BG	138	C	N3-C2-O2	-5.21	118.25	121.90
51	BR	76	TRP	CB-CG-CD2	-5.21	119.83	126.60
84	By	78	MET	CG-SD-CE	-5.21	91.86	100.20
85	AA	253	C	P-O3'-C3'	-5.21	113.45	119.70
85	AA	496	C	C5-C4-N4	5.21	123.85	120.20
85	AA	594	C	C6-N1-C1'	5.21	127.05	120.80
85	AA	811	A	C5-C6-N1	5.21	120.31	117.70
85	AA	1221	G	C5-N7-C8	-5.21	101.69	104.30
85	AA	1523	G	C5-C6-N1	5.21	114.11	111.50
85	AA	1912	U	P-O5'-C5'	5.21	129.24	120.90
85	AA	1916	A	C5-C6-N1	-5.21	115.09	117.70
85	AA	2014	G	C5'-C4'-C3'	-5.21	107.66	116.00
11	AC	77	ARG	NE-CZ-NH2	-5.21	117.69	120.30
34	BA	1618	A	C5'-C4'-C3'	-5.21	107.66	116.00
35	BB	77	A	N7-C8-N9	-5.21	111.19	113.80
35	BB	403	U	C1'-O4'-C4'	-5.21	105.73	109.90
35	BB	1424	G	C5'-C4'-O4'	5.21	115.35	109.10
40	BG	67	A	C5-C6-N6	-5.21	119.53	123.70
40	BG	107	U	N1-C1'-C2'	-5.21	106.27	112.00
63	Bd	29	MET	CA-CB-CG	5.21	122.16	113.30
85	AA	824	C	C2-N1-C1'	-5.21	113.07	118.80
85	AA	1736	U	C3'-C2'-C1'	5.21	105.67	101.50
34	BA	273	G	C5-C6-N1	5.21	114.11	111.50
34	BA	300	C	C5-C6-N1	-5.21	118.40	121.00
34	BA	819	G	C3'-C2'-C1'	-5.21	97.33	101.50
34	BA	1045	C	C6-N1-C2	-5.21	118.22	120.30
34	BA	1650	G	C5-C6-O6	5.21	131.72	128.60
35	BB	501	G	N9-C1'-C2'	-5.21	106.27	112.00
35	BB	640	A	C5'-C4'-O4'	-5.21	102.85	109.10
35	BB	1351	G	C5'-C4'-C3'	5.21	124.33	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1471	A	C4-N9-C1'	5.21	135.68	126.30
83	Bx	270	ASP	C-N-CA	5.21	134.72	121.70
84	By	117	LYS	CB-CA-C	5.21	120.82	110.40
85	AA	206	U	C2'-C3'-O3'	5.21	122.03	113.70
85	AA	419	A	C3'-C2'-C1'	-5.21	97.33	101.50
85	AA	794	A	C5-C6-N6	-5.21	119.53	123.70
85	AA	1674	G	N9-C1'-C2'	-5.21	106.27	112.00
85	AA	1879	U	C2-N1-C1'	-5.21	111.45	117.70
85	AA	1896	G	O4'-C1'-N9	-5.21	104.03	108.20
85	AA	2037	A	C5-C6-N6	-5.21	119.53	123.70
34	BA	366	G	N3-C4-N9	5.21	129.12	126.00
34	BA	699	G	C5-C6-O6	-5.21	125.48	128.60
34	BA	1202	G	O3'-P-O5'	-5.21	94.11	104.00
34	BA	1435	A	N1-C6-N6	5.21	121.72	118.60
35	BB	829	C	O4'-C1'-N1	5.21	112.37	108.20
35	BB	1108	G	N3-C4-N9	5.21	129.12	126.00
35	BB	1339	C	C1'-O4'-C4'	-5.21	105.73	109.90
35	BB	1344	U	N1-C2-N3	5.21	118.02	114.90
35	BB	1431	G	C5-C6-N1	5.21	114.10	111.50
35	BB	1513	U	C6-N1-C1'	5.21	128.49	121.20
36	BC	76	C	C3'-C2'-C1'	-5.21	97.33	101.50
36	BC	113	G	C4-C5-N7	5.21	112.88	110.80
40	BG	28	A	C4-N9-C1'	-5.21	116.93	126.30
40	BG	146	C	C5'-C4'-C3'	-5.21	107.67	116.00
41	BH	119	U	C2-N3-C4	-5.21	123.88	127.00
77	Br	79	HIS	CA-CB-CG	-5.21	104.75	113.60
85	AA	878	U	N1-C2-N3	5.21	118.02	114.90
85	AA	1116	G	C2'-C3'-O3'	5.21	122.03	113.70
85	AA	1693	C	O4'-C1'-N1	5.21	112.36	108.20
34	BA	809	U	C5'-C4'-O4'	5.21	115.35	109.10
34	BA	1545	C	C2'-C3'-O3'	5.21	122.03	113.70
35	BB	1084	A	O5'-P-OP1	5.21	116.95	110.70
35	BB	1393	C	C5'-C4'-C3'	-5.21	107.67	116.00
35	BB	1482	A	C2'-C3'-O3'	5.21	122.03	113.70
85	AA	381	A	C2'-C3'-O3'	5.21	122.03	113.70
85	AA	842	G	O4'-C1'-N9	5.21	112.36	108.20
3	A2	189	ASN	CA-CB-CG	-5.20	101.95	113.40
23	AP	248	ASP	CB-CA-C	-5.20	99.99	110.40
34	BA	352	G	C5-C6-O6	-5.20	125.48	128.60
34	BA	751	A	C4'-C3'-C2'	-5.20	97.40	102.60
34	BA	959	G	C8-N9-C4	5.20	108.48	106.40
34	BA	1120	U	C2-N1-C1'	-5.20	111.46	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1263	A	P-O3'-C3'	-5.20	113.46	119.70
34	BA	1333	G	C3'-C2'-C1'	-5.20	97.34	101.50
35	BB	612	A	O4'-C1'-C2'	5.20	112.28	107.60
35	BB	648	G	C4-C5-N7	5.20	112.88	110.80
35	BB	687	C	O4'-C1'-C2'	5.20	112.28	107.60
35	BB	770	G	C4-N9-C1'	-5.20	119.74	126.50
35	BB	915	U	O4'-C1'-N1	5.20	112.36	108.20
35	BB	1340	U	P-O3'-C3'	-5.20	113.46	119.70
35	BB	1377	A	P-O3'-C3'	-5.20	113.46	119.70
37	BD	118	C	O4'-C1'-N1	5.20	112.36	108.20
38	BE	182	U	O3'-P-O5'	-5.20	94.11	104.00
38	BE	208	G	C8-N9-C1'	-5.20	120.23	127.00
40	BG	130	G	N7-C8-N9	-5.20	110.50	113.10
41	BH	28	U	O4'-C1'-N1	5.20	112.36	108.20
59	BZ	79	ILE	CA-C-N	-5.20	105.75	117.20
62	Bc	25	ILE	O-C-N	-5.20	114.37	122.70
67	Bh	6	PHE	CB-CG-CD2	-5.20	117.16	120.80
85	AA	378	A	N1-C2-N3	-5.20	126.70	129.30
85	AA	1554	C	C6-N1-C2	5.20	122.38	120.30
85	AA	1671	G	C1'-O4'-C4'	-5.20	105.74	109.90
86	AB	5	G	C8-N9-C4	-5.20	104.32	106.40
34	BA	953	G	N1-C6-O6	-5.20	116.78	119.90
34	BA	1515	U	C2-N1-C1'	-5.20	111.46	117.70
35	BB	376	A	C4'-C3'-C2'	-5.20	97.40	102.60
35	BB	1021	C	N3-C2-O2	-5.20	118.26	121.90
35	BB	1318	U	P-O3'-C3'	-5.20	113.46	119.70
35	BB	1522	G	O4'-C1'-N9	5.20	112.36	108.20
38	BE	8	G	N3-C2-N2	5.20	123.54	119.90
40	BG	1	G	N9-C1'-C2'	-5.20	106.28	112.00
65	Bf	318	TYR	CB-CG-CD1	5.20	124.12	121.00
85	AA	118	C	C5-C6-N1	-5.20	118.40	121.00
85	AA	131	C	C4'-C3'-C2'	-5.20	97.40	102.60
85	AA	423	G	C5-C6-O6	-5.20	125.48	128.60
85	AA	898	A	C5-C6-N6	-5.20	119.54	123.70
85	AA	1480	C	O4'-C1'-N1	5.20	112.36	108.20
85	AA	1729	C	P-O5'-C5'	-5.20	112.58	120.90
85	AA	2152	C	C2-N1-C1'	-5.20	113.08	118.80
8	A7	136	TRP	CB-CG-CD1	5.20	133.76	127.00
26	AS	33	PHE	CB-CG-CD2	-5.20	117.16	120.80
34	BA	131	A	O3'-P-O5'	-5.20	94.12	104.00
34	BA	255	G	C5'-C4'-O4'	5.20	115.34	109.10
34	BA	715	U	N3-C2-O2	-5.20	118.56	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	746	C	C5'-C4'-C3'	-5.20	107.68	116.00
34	BA	932	G	C6-C5-N7	-5.20	127.28	130.40
34	BA	967	C	C2-N1-C1'	-5.20	113.08	118.80
34	BA	1833	G	O4'-C1'-N9	5.20	112.36	108.20
35	BB	692	G	C4-N9-C1'	-5.20	119.74	126.50
35	BB	832	C	P-O5'-C5'	5.20	129.22	120.90
35	BB	1410	G	C6-N1-C2	-5.20	121.98	125.10
38	BE	73	A	O4'-C1'-N9	5.20	112.36	108.20
41	BH	74	G	O5'-C5'-C4'	5.20	121.58	111.70
60	Ba	52	VAL	N-CA-C	5.20	125.04	111.00
62	Bc	64	THR	N-CA-CB	5.20	120.18	110.30
85	AA	84	C	O3'-P-O5'	5.20	113.88	104.00
85	AA	307	G	C4-N9-C1'	-5.20	119.74	126.50
85	AA	482	C	O4'-C1'-N1	5.20	112.36	108.20
85	AA	1309	G	C4-N9-C1'	-5.20	119.74	126.50
85	AA	1447	U	P-O5'-C5'	-5.20	112.58	120.90
85	AA	1589	G	C1'-O4'-C4'	-5.20	105.74	109.90
85	AA	1977	G	C4-N9-C1'	-5.20	119.74	126.50
85	AA	2141	G	O3'-P-O5'	5.20	113.88	104.00
5	A4	163	ASP	CB-CA-C	5.20	120.80	110.40
34	BA	976	C	P-O5'-C5'	-5.20	112.58	120.90
34	BA	1060	C	C3'-C2'-C1'	-5.20	97.34	101.50
35	BB	363	A	C5-C6-N6	5.20	127.86	123.70
35	BB	557	C	C2-N1-C1'	-5.20	113.08	118.80
35	BB	557	C	O5'-C5'-C4'	-5.20	101.82	111.70
37	BD	118	C	C5'-C4'-C3'	-5.20	107.68	116.00
38	BE	25	U	C4'-C3'-C2'	5.20	107.80	102.60
38	BE	39	U	O5'-C5'-C4'	-5.20	101.82	111.70
38	BE	176	G	P-O5'-C5'	5.20	129.22	120.90
40	BG	66	C	N1-C2-O2	5.20	122.02	118.90
68	Bi	128	ARG	N-CA-C	5.20	125.04	111.00
70	Bk	57	ARG	O-C-N	-5.20	114.38	122.70
78	Bs	26	ARG	NE-CZ-NH2	-5.20	117.70	120.30
79	Bt	38	ARG	N-CA-CB	-5.20	101.24	110.60
85	AA	227	A	O4'-C4'-C3'	-5.20	98.80	104.00
85	AA	622	G	P-O5'-C5'	-5.20	112.58	120.90
85	AA	983	A	C5-N7-C8	-5.20	101.30	103.90
85	AA	1519	A	C3'-C2'-C1'	-5.20	97.34	101.50
85	AA	1790	G	C5-C6-O6	-5.20	125.48	128.60
85	AA	1894	G	C4-N9-C1'	-5.20	119.74	126.50
85	AA	2204	A	O4'-C1'-C2'	5.20	112.28	107.60
85	AA	2225	G	C8-N9-C4	5.20	108.48	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	90	G	C4'-C3'-C2'	-5.20	97.40	102.60
34	BA	237	A	N9-C4-C5	-5.20	103.72	105.80
34	BA	335	C	O5'-P-OP2	-5.20	101.02	105.70
34	BA	813	C	N3-C4-N4	-5.20	114.36	118.00
35	BB	1185	G	C3'-C2'-C1'	-5.20	97.34	101.50
37	BD	110	G	C5-C6-N1	5.20	114.10	111.50
61	Bb	16	PHE	CB-CA-C	-5.20	100.00	110.40
65	Bf	356	TYR	CA-CB-CG	-5.20	103.53	113.40
72	Bm	42	HIS	N-CA-CB	5.20	119.95	110.60
85	AA	36	U	N1-C2-N3	5.20	118.02	114.90
85	AA	179	G	C5'-C4'-C3'	-5.20	107.68	116.00
85	AA	286	C	C5-C4-N4	-5.20	116.56	120.20
85	AA	542	G	O4'-C4'-C3'	-5.20	98.80	104.00
85	AA	735	G	N3-C2-N2	5.20	123.54	119.90
25	AR	38	GLN	CB-CA-C	-5.20	100.01	110.40
34	BA	112	C	O4'-C1'-N1	5.20	112.36	108.20
34	BA	531	C	C2-N3-C4	-5.20	117.30	119.90
34	BA	606	G	C5-C6-N1	5.20	114.10	111.50
34	BA	891	C	C6-N1-C2	5.20	122.38	120.30
34	BA	919	A	C4-N9-C1'	-5.20	116.95	126.30
34	BA	1181	G	C3'-C2'-C1'	-5.20	97.34	101.50
34	BA	1347	G	C1'-O4'-C4'	-5.20	105.74	109.90
34	BA	1596	C	C5-C4-N4	5.20	123.84	120.20
34	BA	1611	A	N9-C4-C5	5.20	107.88	105.80
34	BA	1646	U	C4'-C3'-C2'	5.20	107.80	102.60
35	BB	65	A	N9-C1'-C2'	-5.20	106.28	112.00
35	BB	1234	G	O4'-C1'-N9	5.20	112.36	108.20
36	BC	154	A	C4-C5-C6	-5.20	114.40	117.00
37	BD	87	G	C5-C6-O6	-5.20	125.48	128.60
40	BG	7	U	P-O5'-C5'	5.20	129.21	120.90
40	BG	56	G	C5'-C4'-O4'	5.20	115.34	109.10
41	BH	28	U	C4-C5-C6	-5.20	116.58	119.70
51	BR	123	PRO	C-N-CA	5.20	134.69	121.70
60	Ba	14	SER	C-N-CA	5.20	133.21	122.30
85	AA	300	C	P-O5'-C5'	5.20	129.21	120.90
85	AA	672	U	P-O5'-C5'	-5.20	112.59	120.90
85	AA	814	G	O4'-C1'-N9	5.20	112.36	108.20
85	AA	1439	A	C3'-C2'-C1'	-5.20	97.34	101.50
7	A6	18	PHE	CB-CG-CD1	5.19	124.44	120.80
30	AW	55	VAL	CB-CA-C	-5.19	101.53	111.40
34	BA	265	A	O4'-C1'-N9	5.19	112.36	108.20
34	BA	578	C	N3-C4-N4	5.19	121.64	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	820	C	C4'-C3'-C2'	-5.19	97.41	102.60
34	BA	1171	C	C5'-C4'-C3'	-5.19	107.69	116.00
34	BA	1583	A	C5'-C4'-O4'	5.19	115.33	109.10
34	BA	1656	A	C5'-C4'-O4'	5.19	115.33	109.10
34	BA	1761	U	O4'-C1'-N1	5.19	112.36	108.20
35	BB	802	G	C8-N9-C4	-5.19	104.32	106.40
35	BB	1278	A	N9-C1'-C2'	-5.19	106.29	112.00
36	BC	108	A	C3'-C2'-C1'	5.19	105.66	101.50
40	BG	116	G	O4'-C1'-N9	5.19	112.36	108.20
68	Bi	15	THR	N-CA-CB	5.19	120.17	110.30
85	AA	971	U	C5'-C4'-C3'	5.19	124.31	116.00
85	AA	1070	G	O4'-C1'-N9	5.19	112.36	108.20
3	A2	130	MET	N-CA-CB	5.19	119.95	110.60
34	BA	623	U	O4'-C1'-N1	5.19	112.35	108.20
34	BA	746	C	N1-C1'-C2'	-5.19	106.29	112.00
34	BA	1245	C	C6-N1-C1'	5.19	127.03	120.80
34	BA	1336	U	O4'-C1'-N1	5.19	112.35	108.20
35	BB	380	G	C5-C6-N1	5.19	114.10	111.50
35	BB	474	G	C4-C5-C6	-5.19	115.68	118.80
35	BB	989	C	N3-C2-O2	-5.19	118.27	121.90
35	BB	1220	A	C4'-C3'-C2'	-5.19	97.41	102.60
35	BB	1385	C	C2'-C3'-O3'	5.19	122.01	113.70
35	BB	1516	C	O4'-C1'-N1	5.19	112.35	108.20
36	BC	164	G	C5-C6-O6	-5.19	125.48	128.60
37	BD	13	A	O4'-C1'-N9	5.19	112.35	108.20
39	BF	57	C	C5-C6-N1	-5.19	118.40	121.00
40	BG	109	C	O4'-C1'-C2'	5.19	112.27	107.60
85	AA	530	A	C4-N9-C1'	5.19	135.65	126.30
85	AA	1447	U	C2-N3-C4	-5.19	123.88	127.00
85	AA	1462	A	P-O3'-C3'	-5.19	113.47	119.70
85	AA	1495	G	N1-C6-O6	-5.19	116.78	119.90
85	AA	1593	C	C5-C4-N4	5.19	123.83	120.20
85	AA	1957	C	N1-C1'-C2'	-5.19	106.29	112.00
22	AO	163	GLU	CA-C-N	5.19	128.62	117.20
34	BA	80	U	C4-C5-C6	-5.19	116.58	119.70
34	BA	664	C	C6-N1-C1'	5.19	127.03	120.80
34	BA	920	U	C5'-C4'-C3'	5.19	124.30	116.00
34	BA	1053	U	N3-C2-O2	-5.19	118.57	122.20
35	BB	367	C	C5'-C4'-O4'	5.19	115.33	109.10
35	BB	404	A	N3-C4-N9	-5.19	123.25	127.40
35	BB	453	C	N3-C2-O2	-5.19	118.27	121.90
35	BB	1219	A	P-O5'-C5'	-5.19	112.59	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1237	C	O4'-C1'-N1	5.19	112.35	108.20
36	BC	30	U	N3-C4-O4	-5.19	115.77	119.40
37	BD	82	G	C3'-C2'-C1'	-5.19	97.35	101.50
38	BE	76	U	C4'-C3'-C2'	5.19	107.79	102.60
39	BF	11	C	C4'-C3'-C2'	5.19	107.79	102.60
40	BG	38	A	C4'-C3'-C2'	5.19	107.79	102.60
85	AA	305	A	C3'-C2'-C1'	-5.19	97.35	101.50
85	AA	604	C	OP2-P-O3'	5.19	116.62	105.20
85	AA	1525	C	O5'-C5'-C4'	-5.19	101.84	111.70
85	AA	2074	G	N9-C1'-C2'	-5.19	106.29	112.00
85	AA	2208	G	N9-C4-C5	5.19	107.48	105.40
86	AB	4	C	C5'-C4'-O4'	5.19	115.33	109.10
2	A1	159	TYR	CA-CB-CG	-5.19	103.54	113.40
34	BA	1306	U	N3-C2-O2	-5.19	118.57	122.20
35	BB	518	G	C5-C6-N1	5.19	114.09	111.50
35	BB	1113	C	C1'-O4'-C4'	-5.19	105.75	109.90
35	BB	1128	U	C2-N1-C1'	-5.19	111.47	117.70
35	BB	1163	U	C4'-C3'-C2'	-5.19	97.41	102.60
35	BB	1378	U	C5-C6-N1	-5.19	120.11	122.70
35	BB	1534	U	N3-C2-O2	-5.19	118.57	122.20
36	BC	16	A	C4'-C3'-C2'	-5.19	97.41	102.60
62	Bc	98	ILE	CA-C-N	5.19	128.62	117.20
85	AA	48	G	C4'-C3'-C2'	-5.19	97.41	102.60
85	AA	463	G	O4'-C1'-C2'	5.19	112.27	107.60
85	AA	588	G	C6-N1-C2	-5.19	121.99	125.10
85	AA	2183	U	C5'-C4'-O4'	5.19	115.33	109.10
1	A0	213	ARG	CB-CA-C	-5.19	100.02	110.40
34	BA	48	C	O4'-C1'-N1	5.19	112.35	108.20
34	BA	167	U	N1-C2-N3	5.19	118.01	114.90
34	BA	353	U	O4'-C1'-N1	5.19	112.35	108.20
34	BA	419	U	C2-N3-C4	-5.19	123.89	127.00
34	BA	717	U	P-O3'-C3'	5.19	125.92	119.70
34	BA	845	U	C1'-O4'-C4'	-5.19	105.75	109.90
34	BA	1192	A	C1'-O4'-C4'	-5.19	105.75	109.90
34	BA	1463	U	C2-N1-C1'	-5.19	111.47	117.70
34	BA	1562	G	O4'-C1'-C2'	5.19	112.27	107.60
34	BA	1588	U	N1-C2-O2	5.19	126.43	122.80
35	BB	639	A	P-O3'-C3'	5.19	125.92	119.70
35	BB	1111	C	O4'-C1'-N1	5.19	112.35	108.20
35	BB	1229	A	C8-N9-C4	5.19	107.88	105.80
36	BC	114	C	N1-C2-O2	5.19	122.01	118.90
40	BG	109	C	N1-C1'-C2'	-5.19	106.29	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	BI	104	ALA	N-CA-CB	-5.19	102.84	110.10
42	BI	111	ARG	CA-CB-CG	5.19	124.81	113.40
52	BS	1	MET	N-CA-CB	-5.19	101.26	110.60
69	Bj	11	ARG	NE-CZ-NH2	-5.19	117.71	120.30
85	AA	999	A	O5'-C5'-C4'	5.19	121.56	111.70
85	AA	1298	G	C8-N9-C4	-5.19	104.33	106.40
85	AA	1363	U	C4'-C3'-O3'	-5.19	98.51	109.40
85	AA	1403	G	O4'-C1'-N9	5.19	112.35	108.20
85	AA	1948	A	O3'-P-O5'	-5.19	94.14	104.00
85	AA	2122	A	C4-N9-C1'	-5.19	116.96	126.30
34	BA	12	G	O3'-P-O5'	-5.19	94.15	104.00
34	BA	626	G	N3-C2-N2	5.19	123.53	119.90
34	BA	770	G	O5'-P-OP1	-5.19	101.03	105.70
34	BA	1096	C	C6-N1-C1'	-5.19	114.58	120.80
34	BA	1245	C	C2-N1-C1'	-5.19	113.10	118.80
34	BA	1288	U	C1'-O4'-C4'	-5.19	105.75	109.90
34	BA	1671	A	C5-C6-N6	5.19	127.85	123.70
35	BB	517	G	N9-C1'-C2'	-5.19	106.30	112.00
35	BB	656	A	OP1-P-O3'	5.19	116.61	105.20
40	BG	71	C	N3-C4-C5	5.19	123.97	121.90
65	Bf	209	ASP	CA-CB-CG	-5.19	101.99	113.40
85	AA	590	U	C1'-O4'-C4'	-5.19	105.75	109.90
85	AA	696	G	C3'-C2'-C1'	-5.19	97.35	101.50
85	AA	901	C	O3'-P-O5'	5.19	113.85	104.00
85	AA	1170	C	C2-N3-C4	5.19	122.49	119.90
1	A0	192	ARG	NE-CZ-NH1	5.18	122.89	120.30
16	AH	44	GLU	N-CA-CB	5.18	119.93	110.60
34	BA	682	A	N1-C6-N6	5.18	121.71	118.60
34	BA	718	U	O3'-P-O5'	-5.18	94.15	104.00
34	BA	1141	C	C3'-C2'-C1'	-5.18	97.35	101.50
34	BA	1344	G	C3'-C2'-C1'	-5.18	97.35	101.50
34	BA	1502	G	N1-C2-N2	-5.18	111.53	116.20
34	BA	1563	G	N7-C8-N9	5.18	115.69	113.10
34	BA	1647	G	C4-N9-C1'	-5.18	119.76	126.50
34	BA	1667	G	C8-N9-C1'	5.18	133.74	127.00
35	BB	643	G	N1-C2-N2	-5.18	111.53	116.20
35	BB	1417	C	N3-C2-O2	-5.18	118.27	121.90
35	BB	1483	A	C5-N7-C8	-5.18	101.31	103.90
36	BC	107	C	C5-C6-N1	-5.18	118.41	121.00
37	BD	54	A	OP1-P-OP2	-5.18	111.82	119.60
40	BG	39	A	C1'-O4'-C4'	-5.18	105.75	109.90
80	Bu	264	ARG	NE-CZ-NH1	5.18	122.89	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	64	A	P-O3'-C3'	-5.18	113.48	119.70
85	AA	156	G	C4-N9-C1'	-5.18	119.76	126.50
85	AA	1200	A	C4-N9-C1'	-5.18	116.97	126.30
85	AA	1666	U	O3'-P-O5'	-5.18	94.15	104.00
34	BA	179	U	C6-N1-C1'	5.18	128.46	121.20
34	BA	202	A	C5'-C4'-C3'	-5.18	107.71	116.00
34	BA	235	C	C5-C4-N4	-5.18	116.57	120.20
34	BA	879	C	C4'-C3'-C2'	5.18	107.78	102.60
34	BA	890	G	C5-C6-O6	-5.18	125.49	128.60
34	BA	1353	U	C6-N1-C1'	-5.18	113.94	121.20
34	BA	1414	C	C1'-O4'-C4'	-5.18	105.75	109.90
34	BA	1844	U	C6-N1-C2	-5.18	117.89	121.00
35	BB	618	U	N3-C2-O2	-5.18	118.57	122.20
35	BB	925	U	O4'-C1'-N1	5.18	112.35	108.20
35	BB	1045	G	O4'-C1'-N9	5.18	112.35	108.20
35	BB	1064	U	O4'-C1'-N1	5.18	112.35	108.20
35	BB	1091	C	O5'-P-OP2	-5.18	101.04	105.70
35	BB	1396	G	C1'-O4'-C4'	-5.18	105.75	109.90
35	BB	1419	G	C4'-C3'-C2'	-5.18	97.42	102.60
36	BC	124	A	N7-C8-N9	5.18	116.39	113.80
37	BD	62	A	C1'-O4'-C4'	-5.18	105.75	109.90
38	BE	125	C	C5'-C4'-C3'	-5.18	107.71	116.00
39	BF	62	U	O4'-C1'-C2'	-5.18	100.62	105.80
41	BH	24	U	C5'-C4'-O4'	5.18	115.32	109.10
51	BR	4	TYR	CB-CG-CD2	-5.18	117.89	121.00
60	Ba	126	TRP	CA-CB-CG	-5.18	103.85	113.70
74	Bo	34	HIS	CB-CA-C	-5.18	100.03	110.40
85	AA	279	C	C1'-O4'-C4'	-5.18	105.75	109.90
85	AA	384	C	O4'-C1'-C2'	5.18	112.26	107.60
85	AA	703	U	C1'-O4'-C4'	-5.18	105.75	109.90
85	AA	760	U	O5'-C5'-C4'	5.18	121.55	111.70
85	AA	1442	U	C2-N1-C1'	-5.18	111.48	117.70
85	AA	1520	A	C5'-C4'-C3'	-5.18	107.71	116.00
85	AA	1576	G	C2'-C3'-O3'	5.18	121.99	113.70
85	AA	1673	A	N1-C2-N3	-5.18	126.71	129.30
85	AA	2231	G	C8-N9-C1'	-5.18	120.26	127.00
1	A0	105	MET	CA-CB-CG	5.18	122.11	113.30
5	A4	2	SER	C-N-CA	5.18	134.65	121.70
8	A7	273	GLU	C-N-CA	5.18	134.65	121.70
13	AE	40	LYS	CB-CA-C	5.18	120.76	110.40
34	BA	45	A	N1-C6-N6	-5.18	115.49	118.60
34	BA	352	G	C6-N1-C2	-5.18	121.99	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	428	C	O5'-C5'-C4'	-5.18	101.86	111.70
34	BA	930	A	C4-N9-C1'	-5.18	116.97	126.30
35	BB	844	G	C5-C6-O6	-5.18	125.49	128.60
85	AA	190	A	N1-C2-N3	-5.18	126.71	129.30
85	AA	1194	U	C3'-C2'-C1'	-5.18	97.36	101.50
85	AA	1735	U	N3-C2-O2	-5.18	118.57	122.20
1	A0	36	LYS	C-N-CA	5.18	134.65	121.70
34	BA	163	G	C4-N9-C1'	5.18	133.23	126.50
34	BA	164	C	N3-C2-O2	-5.18	118.28	121.90
34	BA	436	U	C2'-C3'-O3'	5.18	121.99	113.70
34	BA	541	C	C1'-O4'-C4'	-5.18	105.76	109.90
34	BA	563	A	O4'-C4'-C3'	-5.18	98.82	104.00
34	BA	1571	C	C2-N1-C1'	-5.18	113.10	118.80
34	BA	1698	C	O4'-C1'-N1	5.18	112.34	108.20
34	BA	1775	U	O3'-P-O5'	5.18	113.84	104.00
35	BB	58	G	N9-C1'-C2'	-5.18	106.30	112.00
35	BB	123	U	O3'-P-O5'	5.18	113.84	104.00
35	BB	330	U	O4'-C1'-N1	5.18	112.34	108.20
35	BB	448	G	N1-C6-O6	-5.18	116.79	119.90
35	BB	772	U	C2'-C3'-O3'	5.18	121.99	113.70
35	BB	1001	G	C6-N1-C2	-5.18	121.99	125.10
38	BE	158	U	C3'-C2'-C1'	-5.18	97.36	101.50
40	BG	89	A	C4-N9-C1'	-5.18	116.98	126.30
40	BG	163	G	O4'-C1'-N9	-5.18	104.06	108.20
76	Bq	45	ARG	NE-CZ-NH1	5.18	122.89	120.30
85	AA	1194	U	O4'-C1'-N1	5.18	112.34	108.20
85	AA	1491	G	N3-C2-N2	-5.18	116.27	119.90
85	AA	1661	U	C1'-O4'-C4'	-5.18	105.76	109.90
85	AA	2039	G	C1'-O4'-C4'	-5.18	105.76	109.90
85	AA	2169	C	N3-C4-N4	-5.18	114.37	118.00
85	AA	2179	C	O5'-C5'-C4'	-5.18	101.86	111.70
34	BA	332	U	C4'-C3'-C2'	-5.18	97.42	102.60
34	BA	905	A	N9-C1'-C2'	-5.18	106.30	112.00
35	BB	582	G	C6-N1-C2	-5.18	121.99	125.10
35	BB	830	G	N9-C1'-C2'	-5.18	106.30	112.00
35	BB	1423	U	O4'-C4'-C3'	-5.18	98.82	104.00
37	BD	108	G	C2'-C3'-O3'	5.18	121.98	113.70
41	BH	4	U	C5-C6-N1	-5.18	120.11	122.70
41	BH	39	G	N3-C4-N9	5.18	129.11	126.00
67	Bh	1	MET	N-CA-CB	-5.18	101.28	110.60
77	Br	308	LYS	N-CA-C	5.18	124.98	111.00
85	AA	87	C	P-O5'-C5'	-5.18	112.61	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	853	G	P-O5'-C5'	-5.18	112.61	120.90
85	AA	874	A	N9-C4-C5	-5.18	103.73	105.80
85	AA	1856	G	N9-C1'-C2'	-5.18	106.30	112.00
11	AC	118	PHE	CA-CB-CG	-5.18	101.48	113.90
13	AE	35	ARG	NE-CZ-NH1	5.18	122.89	120.30
17	AI	130	TYR	N-CA-C	5.18	124.98	111.00
22	AO	73	ARG	NE-CZ-NH1	5.18	122.89	120.30
31	AX	122	ILE	CB-CA-C	5.18	121.95	111.60
34	BA	187	G	C8-N9-C1'	5.18	133.73	127.00
34	BA	683	C	N3-C4-C5	-5.18	119.83	121.90
34	BA	732	A	O5'-C5'-C4'	-5.18	101.86	111.70
34	BA	961	C	C5-C6-N1	5.18	123.59	121.00
35	BB	35	G	C8-N9-C1'	5.18	133.73	127.00
35	BB	669	A	O4'-C1'-C2'	-5.18	100.62	105.80
35	BB	1260	A	C8-N9-C4	5.18	107.87	105.80
35	BB	1357	C	C6-N1-C2	5.18	122.37	120.30
38	BE	116	U	C1'-O4'-C4'	-5.18	105.76	109.90
41	BH	66	G	C5-C6-O6	-5.18	125.49	128.60
41	BH	111	U	C5-C6-N1	-5.18	120.11	122.70
45	BL	23	LYS	N-CA-CB	5.18	119.92	110.60
67	Bh	69	THR	CA-CB-CG2	-5.18	105.15	112.40
85	AA	644	A	O4'-C1'-C2'	5.18	112.26	107.60
85	AA	893	G	C6-N1-C2	-5.18	121.99	125.10
85	AA	1106	A	C2-N3-C4	-5.18	108.01	110.60
85	AA	1576	G	C4-N9-C1'	-5.18	119.77	126.50
86	AB	52	G	N1-C6-O6	5.18	123.00	119.90
2	A1	86	VAL	CA-CB-CG2	-5.17	103.14	110.90
8	A7	13	ARG	NE-CZ-NH2	-5.17	117.71	120.30
20	AL	124	VAL	CA-C-N	5.17	128.58	117.20
34	BA	177	G	N7-C8-N9	-5.17	110.51	113.10
34	BA	295	G	C3'-C2'-C1'	-5.17	97.36	101.50
34	BA	371	U	C5-C4-O4	5.17	129.00	125.90
34	BA	500	C	C6-N1-C1'	5.17	127.01	120.80
34	BA	542	A	C3'-C2'-C1'	-5.17	97.36	101.50
34	BA	1068	C	C6-N1-C1'	5.17	127.01	120.80
34	BA	1243	A	O4'-C1'-N9	5.17	112.34	108.20
35	BB	137	A	O4'-C1'-N9	5.17	112.34	108.20
35	BB	470	C	C6-N1-C1'	5.17	127.01	120.80
35	BB	538	A	OP2-P-O3'	5.17	116.58	105.20
35	BB	723	A	N9-C1'-C2'	-5.17	106.31	112.00
35	BB	1353	G	C2'-C3'-O3'	5.17	121.98	113.70
36	BC	24	G	C5'-C4'-O4'	5.17	115.31	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	18	U	O4'-C1'-C2'	5.17	112.26	107.60
40	BG	21	C	P-O3'-C3'	5.17	125.91	119.70
40	BG	94	G	O5'-C5'-C4'	-5.17	101.87	111.70
47	BN	52	PHE	CB-CA-C	5.17	120.75	110.40
60	Ba	90	ARG	CB-CA-C	-5.17	100.05	110.40
75	Bp	34	PHE	CA-CB-CG	-5.17	101.48	113.90
85	AA	636	G	P-O5'-C5'	-5.17	112.62	120.90
85	AA	1096	G	C6-N1-C2	-5.17	122.00	125.10
85	AA	1485	G	C5-C6-N1	5.17	114.09	111.50
85	AA	1520	A	C1'-O4'-C4'	-5.17	105.76	109.90
85	AA	1596	A	C3'-C2'-C1'	-5.17	97.36	101.50
85	AA	1731	G	O4'-C1'-N9	5.17	112.34	108.20
85	AA	1913	G	O4'-C1'-N9	5.17	112.34	108.20
85	AA	1928	A	C3'-C2'-C1'	-5.17	97.36	101.50
85	AA	1953	G	C8-N9-C1'	5.17	133.73	127.00
34	BA	419	U	C5'-C4'-C3'	5.17	124.28	116.00
34	BA	1433	U	O3'-P-O5'	-5.17	94.17	104.00
35	BB	1201	G	P-O5'-C5'	-5.17	112.62	120.90
51	BR	124	ARG	N-CA-C	5.17	124.97	111.00
70	Bk	67	ARG	N-CA-CB	-5.17	101.29	110.60
85	AA	438	G	O3'-P-O5'	5.17	113.83	104.00
85	AA	930	G	C5-C6-N1	5.17	114.09	111.50
85	AA	1652	A	P-O5'-C5'	5.17	129.18	120.90
20	AL	75	GLU	N-CA-CB	-5.17	101.29	110.60
34	BA	5	C	C3'-C2'-C1'	-5.17	97.36	101.50
34	BA	215	C	C2-N3-C4	-5.17	117.31	119.90
34	BA	492	G	N3-C2-N2	5.17	123.52	119.90
34	BA	493	G	P-O3'-C3'	-5.17	113.49	119.70
34	BA	649	A	C1'-O4'-C4'	-5.17	105.76	109.90
34	BA	1705	C	N1-C1'-C2'	-5.17	106.31	112.00
34	BA	1836	A	C4-N9-C1'	-5.17	116.99	126.30
35	BB	119	G	N3-C2-N2	5.17	123.52	119.90
35	BB	696	G	C4-N9-C1'	-5.17	119.78	126.50
35	BB	971	A	OP2-P-O3'	5.17	116.58	105.20
35	BB	1255	U	C1'-O4'-C4'	-5.17	105.76	109.90
39	BF	14	C	OP1-P-OP2	-5.17	111.84	119.60
45	BL	58	ARG	NE-CZ-NH2	-5.17	117.71	120.30
65	Bf	426	GLY	C-N-CA	5.17	134.63	121.70
71	Bl	123	ARG	NE-CZ-NH1	5.17	122.89	120.30
85	AA	153	C	C3'-C2'-C1'	-5.17	97.36	101.50
85	AA	363	A	N9-C4-C5	5.17	107.87	105.80
85	AA	409	C	C5-C4-N4	5.17	123.82	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	427	G	C4-N9-C1'	-5.17	119.78	126.50
85	AA	463	G	N9-C1'-C2'	-5.17	106.31	112.00
85	AA	804	A	C4-N9-C1'	-5.17	116.99	126.30
85	AA	1153	G	C6-C5-N7	-5.17	127.30	130.40
85	AA	1359	U	C5'-C4'-O4'	5.17	115.31	109.10
34	BA	566	G	O4'-C4'-C3'	-5.17	98.83	104.00
34	BA	1218	G	C5-N7-C8	5.17	106.89	104.30
34	BA	1226	G	C1'-O4'-C4'	-5.17	105.76	109.90
34	BA	1747	C	N3-C2-O2	-5.17	118.28	121.90
35	BB	2	C	C5-C6-N1	-5.17	118.42	121.00
35	BB	27	C	N3-C2-O2	-5.17	118.28	121.90
35	BB	125	G	N3-C2-N2	5.17	123.52	119.90
35	BB	315	C	C2-N3-C4	-5.17	117.31	119.90
41	BH	28	U	C6-N1-C1'	-5.17	113.96	121.20
52	BS	130	SER	N-CA-CB	5.17	118.25	110.50
85	AA	57	G	N3-C4-N9	5.17	129.10	126.00
85	AA	429	G	C5-C6-N1	5.17	114.08	111.50
85	AA	1477	A	O4'-C1'-N9	5.17	112.34	108.20
85	AA	2077	G	C4-N9-C1'	-5.17	119.78	126.50
1	A0	102	PHE	CB-CG-CD2	-5.17	117.18	120.80
34	BA	306	G	N9-C1'-C2'	-5.17	106.31	112.00
34	BA	500	C	N1-C1'-C2'	-5.17	106.31	112.00
34	BA	563	A	C5'-C4'-O4'	-5.17	102.90	109.10
34	BA	592	G	O5'-C5'-C4'	5.17	121.52	111.70
34	BA	991	U	N1-C2-N3	5.17	118.00	114.90
34	BA	1104	C	P-O3'-C3'	5.17	125.90	119.70
34	BA	1243	A	P-O3'-C3'	-5.17	113.50	119.70
34	BA	1311	G	C4-N9-C1'	-5.17	119.78	126.50
34	BA	1547	G	C1'-O4'-C4'	-5.17	105.77	109.90
35	BB	71	A	C3'-C2'-C1'	-5.17	97.36	101.50
35	BB	611	U	N3-C2-O2	-5.17	118.58	122.20
35	BB	1078	U	O4'-C1'-N1	5.17	112.33	108.20
36	BC	149	A	O4'-C1'-N9	5.17	112.33	108.20
36	BC	154	A	C4-N9-C1'	-5.17	117.00	126.30
39	BF	33	C	C2-N3-C4	-5.17	117.31	119.90
40	BG	33	G	C5-C6-N1	-5.17	108.92	111.50
40	BG	112	C	N3-C2-O2	-5.17	118.28	121.90
40	BG	139	U	P-O5'-C5'	-5.17	112.63	120.90
42	BI	191	ARG	C-N-CA	5.17	134.62	121.70
56	BW	58	ASP	N-CA-CB	-5.17	101.30	110.60
68	Bi	55	ASN	CB-CA-C	-5.17	100.06	110.40
85	AA	485	A	C5-C6-N6	-5.17	119.56	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	691	U	N1-C2-N3	5.17	118.00	114.90
85	AA	706	U	O4'-C1'-N1	5.17	112.34	108.20
85	AA	807	A	C4'-C3'-C2'	-5.17	97.43	102.60
85	AA	1191	G	N7-C8-N9	-5.17	110.52	113.10
85	AA	1459	C	P-O3'-C3'	-5.17	113.50	119.70
85	AA	1652	A	O4'-C1'-N9	5.17	112.33	108.20
85	AA	1694	C	P-O3'-C3'	-5.17	113.50	119.70
85	AA	1726	G	P-O3'-C3'	-5.17	113.50	119.70
85	AA	1731	G	C2'-C3'-O3'	5.17	121.97	113.70
85	AA	1916	A	N1-C2-N3	5.17	131.88	129.30
85	AA	2011	C	C5'-C4'-C3'	5.17	124.27	116.00
85	AA	2170	G	C5-C6-O6	-5.17	125.50	128.60
85	AA	2203	C	C1'-O4'-C4'	-5.17	105.77	109.90
4	A3	62	PHE	N-CA-CB	5.17	119.90	110.60
6	A5	180	ARG	NE-CZ-NH2	-5.17	117.72	120.30
14	AF	123	CYS	N-CA-C	-5.17	97.05	111.00
23	AP	191	ALA	N-CA-C	5.17	124.95	111.00
34	BA	528	C	C5'-C4'-O4'	-5.17	102.90	109.10
34	BA	1087	A	N9-C4-C5	-5.17	103.73	105.80
34	BA	1106	A	P-O3'-C3'	-5.17	113.50	119.70
34	BA	1247	G	C4'-C3'-C2'	-5.17	97.43	102.60
34	BA	1346	U	C3'-C2'-C1'	-5.17	97.37	101.50
35	BB	135	C	N1-C1'-C2'	-5.17	106.32	112.00
35	BB	853	U	C4'-C3'-O3'	5.17	123.33	113.00
35	BB	1061	G	N1-C2-N2	-5.17	111.55	116.20
35	BB	1226	G	C4-N9-C1'	-5.17	119.78	126.50
35	BB	1386	C	O4'-C1'-N1	5.17	112.33	108.20
36	BC	61	A	C1'-O4'-C4'	-5.17	105.77	109.90
39	BF	24	G	C5-C6-O6	-5.17	125.50	128.60
40	BG	16	G	C8-N9-C1'	5.17	133.72	127.00
40	BG	27	C	N3-C4-N4	-5.17	114.38	118.00
62	Bc	25	ILE	CB-CA-C	5.17	121.93	111.60
74	Bo	71	LEU	C-N-CA	5.17	134.61	121.70
77	Br	118	GLN	N-CA-CB	-5.17	101.30	110.60
81	Bv	69	SER	N-CA-CB	-5.17	102.75	110.50
85	AA	15	U	C6-N1-C1'	5.17	128.43	121.20
85	AA	832	U	P-O5'-C5'	5.17	129.17	120.90
85	AA	1125	G	N3-C2-N2	-5.17	116.28	119.90
85	AA	1497	U	C2-N1-C1'	-5.17	111.50	117.70
85	AA	1599	G	N1-C6-O6	5.17	123.00	119.90
85	AA	1927	G	O4'-C1'-C2'	5.17	112.25	107.60
85	AA	2216	A	C2'-C3'-O3'	5.17	121.97	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
86	AB	64	A	P-O3'-C3'	-5.17	113.50	119.70
34	BA	325	A	C3'-C2'-C1'	-5.17	97.37	101.50
34	BA	478	G	N1-C2-N2	-5.17	111.55	116.20
34	BA	536	C	C2-N1-C1'	-5.17	113.12	118.80
34	BA	1427	U	C5'-C4'-C3'	-5.17	107.73	116.00
35	BB	276	U	O4'-C1'-N1	5.17	112.33	108.20
35	BB	339	C	C6-N1-C2	-5.17	118.23	120.30
35	BB	1075	A	P-O3'-C3'	-5.17	113.50	119.70
44	BK	64	ALA	N-CA-CB	-5.17	102.87	110.10
85	AA	153	C	P-O3'-C3'	-5.17	113.50	119.70
85	AA	1261	U	P-O3'-C3'	-5.17	113.50	119.70
85	AA	1519	A	N9-C4-C5	5.17	107.87	105.80
5	A4	121	ARG	CB-CA-C	5.16	120.73	110.40
34	BA	12	G	C4-N9-C1'	-5.16	119.79	126.50
34	BA	127	U	O5'-C5'-C4'	-5.16	101.89	111.70
34	BA	161	U	C5-C6-N1	5.16	125.28	122.70
34	BA	393	G	O5'-C5'-C4'	5.16	121.51	111.70
34	BA	788	C	N1-C1'-C2'	-5.16	106.32	112.00
34	BA	809	U	C6-N1-C1'	5.16	128.43	121.20
34	BA	921	G	N3-C2-N2	5.16	123.51	119.90
34	BA	1601	C	C2'-C3'-O3'	5.16	121.96	113.70
35	BB	486	G	C8-N9-C1'	5.16	133.71	127.00
35	BB	732	G	C3'-C2'-C1'	-5.16	97.37	101.50
35	BB	764	C	C5'-C4'-C3'	5.16	124.26	116.00
35	BB	795	A	O5'-C5'-C4'	-5.16	101.89	111.70
38	BE	21	C	C5'-C4'-O4'	5.16	115.30	109.10
38	BE	52	U	O5'-C5'-C4'	-5.16	101.89	111.70
38	BE	58	U	N3-C4-O4	5.16	123.01	119.40
38	BE	154	A	C5'-C4'-O4'	5.16	115.30	109.10
40	BG	104	A	O4'-C1'-N9	5.16	112.33	108.20
40	BG	112	C	C3'-C2'-C1'	-5.16	97.37	101.50
42	BI	98	ARG	CG-CD-NE	-5.16	100.95	111.80
61	Bb	68	THR	N-CA-CB	-5.16	100.49	110.30
76	Bq	47	THR	N-CA-CB	5.16	120.11	110.30
80	Bu	217	VAL	CA-CB-CG2	-5.16	103.16	110.90
85	AA	197	C	C6-N1-C2	-5.16	118.23	120.30
85	AA	403	G	C5-C6-O6	-5.16	125.50	128.60
85	AA	573	U	C4'-C3'-C2'	5.16	107.76	102.60
85	AA	780	U	C1'-O4'-C4'	-5.16	105.77	109.90
85	AA	1210	U	C2'-C3'-O3'	5.16	121.96	113.70
85	AA	1897	A	C3'-C2'-C1'	5.16	105.63	101.50
85	AA	1918	U	O4'-C1'-N1	5.16	112.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2144	C	N3-C4-C5	-5.16	119.83	121.90
85	AA	2248	A	C5-C6-N6	5.16	127.83	123.70
86	AB	6	G	P-O5'-C5'	5.16	129.16	120.90
15	AG	33	VAL	CA-CB-CG2	5.16	118.64	110.90
31	AX	72	LEU	CB-CG-CD1	5.16	119.78	111.00
34	BA	515	U	C2-N1-C1'	-5.16	111.50	117.70
34	BA	804	G	C2'-C3'-O3'	5.16	121.96	113.70
34	BA	954	U	O5'-C5'-C4'	-5.16	101.89	111.70
34	BA	1035	A	C4'-C3'-C2'	5.16	107.76	102.60
34	BA	1590	G	C5'-C4'-O4'	5.16	115.29	109.10
35	BB	364	U	C5'-C4'-C3'	-5.16	107.74	116.00
35	BB	580	A	C3'-C2'-C1'	-5.16	97.37	101.50
35	BB	1231	U	C6-N1-C2	-5.16	117.90	121.00
35	BB	1257	A	P-O3'-C3'	-5.16	113.51	119.70
36	BC	160	C	N1-C2-O2	5.16	122.00	118.90
47	BN	99	GLY	N-CA-C	-5.16	100.20	113.10
85	AA	1124	G	C8-N9-C4	-5.16	104.33	106.40
85	AA	1465	C	N1-C2-O2	5.16	122.00	118.90
85	AA	1790	G	O4'-C1'-N9	-5.16	104.07	108.20
85	AA	1881	C	C2-N1-C1'	-5.16	113.12	118.80
31	AX	202	ASP	N-CA-CB	-5.16	101.31	110.60
34	BA	92	G	N3-C2-N2	5.16	123.51	119.90
34	BA	149	G	C5'-C4'-O4'	5.16	115.29	109.10
34	BA	249	A	C3'-C2'-C1'	5.16	105.63	101.50
34	BA	560	U	N3-C4-O4	5.16	123.01	119.40
34	BA	758	G	N9-C4-C5	-5.16	103.34	105.40
34	BA	988	U	C6-N1-C1'	5.16	128.43	121.20
34	BA	1564	A	O3'-P-O5'	5.16	113.81	104.00
35	BB	128	C	C3'-C2'-C1'	-5.16	97.37	101.50
35	BB	895	U	C2-N1-C1'	-5.16	111.51	117.70
35	BB	1001	G	C5-C6-N1	5.16	114.08	111.50
35	BB	1106	G	N3-C4-C5	-5.16	126.02	128.60
36	BC	140	U	C5-C4-O4	-5.16	122.80	125.90
38	BE	138	U	OP1-P-O3'	5.16	116.55	105.20
40	BG	132	U	N1-C1'-C2'	-5.16	106.32	112.00
47	BN	66	PRO	C-N-CA	5.16	134.60	121.70
85	AA	373	G	O4'-C4'-C3'	-5.16	98.84	104.00
85	AA	392	G	C1'-O4'-C4'	-5.16	105.77	109.90
85	AA	453	G	O4'-C1'-N9	5.16	112.33	108.20
85	AA	585	G	C4-C5-N7	-5.16	108.74	110.80
85	AA	681	G	C1'-O4'-C4'	5.16	114.03	109.90
85	AA	846	U	C2-N1-C1'	5.16	123.89	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2111	C	C2-N1-C1'	-5.16	113.12	118.80
85	AA	2162	G	C4-N9-C1'	-5.16	119.79	126.50
85	AA	2221	A	O4'-C4'-C3'	-5.16	98.84	104.00
85	AA	2246	U	O4'-C1'-N1	5.16	112.33	108.20
86	AB	28	G	C8-N9-C1'	5.16	133.71	127.00
34	BA	147	U	N3-C4-C5	-5.16	111.50	114.60
34	BA	287	U	C2-N1-C1'	5.16	123.89	117.70
34	BA	355	U	O5'-C5'-C4'	-5.16	101.90	111.70
34	BA	425	G	P-O5'-C5'	-5.16	112.65	120.90
34	BA	616	G	N9-C1'-C2'	-5.16	106.33	112.00
34	BA	1153	C	P-O3'-C3'	5.16	125.89	119.70
34	BA	1218	G	O4'-C1'-N9	5.16	112.33	108.20
34	BA	1432	C	P-O5'-C5'	5.16	129.16	120.90
34	BA	1584	G	C5'-C4'-O4'	5.16	115.29	109.10
34	BA	1606	A	O5'-P-OP2	5.16	116.89	110.70
36	BC	39	G	C6-N1-C2	-5.16	122.00	125.10
37	BD	15	U	O4'-C1'-N1	5.16	112.33	108.20
38	BE	45	G	O4'-C1'-N9	5.16	112.33	108.20
38	BE	72	C	N1-C1'-C2'	-5.16	106.33	112.00
40	BG	18	U	P-O3'-C3'	-5.16	113.51	119.70
62	Bc	12	VAL	CA-C-N	5.16	128.55	117.20
85	AA	273	C	P-O5'-C5'	5.16	129.15	120.90
85	AA	438	G	C4'-C3'-C2'	-5.16	97.44	102.60
85	AA	685	U	C5'-C4'-C3'	-5.16	107.75	116.00
85	AA	1776	C	C6-N1-C2	-5.16	118.24	120.30
85	AA	1933	G	O3'-P-O5'	5.16	113.80	104.00
85	AA	2223	C	O4'-C1'-N1	5.16	112.33	108.20
6	A5	83	TYR	CB-CG-CD2	-5.16	117.91	121.00
34	BA	583	G	C4-N9-C1'	-5.16	119.80	126.50
34	BA	1095	G	C5'-C4'-C3'	-5.16	107.75	116.00
34	BA	1577	U	C6-N1-C2	-5.16	117.91	121.00
34	BA	1614	G	P-O5'-C5'	-5.16	112.65	120.90
34	BA	1837	U	C3'-C2'-C1'	-5.16	97.37	101.50
35	BB	625	A	C8-N9-C4	-5.16	103.74	105.80
37	BD	74	A	C3'-C2'-C1'	-5.16	97.37	101.50
38	BE	162	U	O4'-C1'-N1	5.16	112.33	108.20
40	BG	27	C	C5'-C4'-O4'	5.16	115.29	109.10
85	AA	899	A	O5'-C5'-C4'	5.16	121.50	111.70
85	AA	1302	A	C5'-C4'-C3'	5.16	124.25	116.00
85	AA	2130	G	P-O3'-C3'	-5.16	113.51	119.70
2	A1	145	ARG	NE-CZ-NH1	5.16	122.88	120.30
29	AV	6	ARG	NE-CZ-NH1	5.16	122.88	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	458	G	C5-C6-O6	-5.16	125.51	128.60
34	BA	535	G	N1-C2-N2	-5.16	111.56	116.20
34	BA	852	C	O4'-C1'-N1	5.16	112.32	108.20
34	BA	1348	G	N9-C1'-C2'	-5.16	106.33	112.00
34	BA	1556	A	N9-C1'-C2'	-5.16	106.33	112.00
35	BB	96	A	C8-N9-C1'	-5.16	118.42	127.70
35	BB	501	G	C8-N9-C4	-5.16	104.34	106.40
35	BB	1025	A	P-O5'-C5'	-5.16	112.65	120.90
37	BD	93	G	O5'-C5'-C4'	-5.16	101.90	111.70
38	BE	100	U	N3-C2-O2	-5.16	118.59	122.20
39	BF	56	C	C1'-O4'-C4'	5.16	114.02	109.90
40	BG	95	U	O4'-C1'-C2'	5.16	112.24	107.60
47	BN	171	ARG	NE-CZ-NH1	5.16	122.88	120.30
51	BR	139	TYR	CA-CB-CG	5.16	123.19	113.40
85	AA	271	A	C4-N9-C1'	-5.16	117.02	126.30
85	AA	506	G	C1'-O4'-C4'	-5.16	105.78	109.90
85	AA	725	G	C5'-C4'-C3'	-5.16	107.75	116.00
85	AA	915	G	N9-C1'-C2'	-5.16	106.33	112.00
85	AA	983	A	C8-N9-C1'	5.16	136.98	127.70
85	AA	2163	G	C1'-O4'-C4'	-5.16	105.78	109.90
15	AG	127	ARG	NE-CZ-NH2	-5.15	117.72	120.30
34	BA	774	A	P-O3'-C3'	-5.15	113.52	119.70
34	BA	1131	G	N1-C6-O6	5.15	122.99	119.90
34	BA	1437	G	N3-C2-N2	5.15	123.51	119.90
34	BA	1670	A	O4'-C1'-N9	5.15	112.32	108.20
35	BB	716	G	P-O3'-C3'	-5.15	113.52	119.70
35	BB	1054	G	C1'-O4'-C4'	-5.15	105.78	109.90
35	BB	1123	A	C8-N9-C4	5.15	107.86	105.80
35	BB	1397	G	C4'-C3'-C2'	-5.15	97.45	102.60
79	Bt	91	PHE	N-CA-CB	-5.15	101.32	110.60
85	AA	136	U	C4'-C3'-C2'	-5.15	97.45	102.60
85	AA	931	G	C1'-O4'-C4'	-5.15	105.78	109.90
85	AA	993	G	N1-C6-O6	5.15	122.99	119.90
85	AA	1127	G	C5-C6-O6	-5.15	125.51	128.60
85	AA	1215	A	OP1-P-O3'	5.15	116.54	105.20
8	A7	112	VAL	CA-CB-CG2	-5.15	103.17	110.90
34	BA	266	G	N1-C6-O6	-5.15	116.81	119.90
34	BA	387	A	C5-C6-N6	5.15	127.82	123.70
34	BA	624	G	C1'-O4'-C4'	-5.15	105.78	109.90
34	BA	1103	G	N3-C2-N2	5.15	123.51	119.90
34	BA	1176	C	O3'-P-O5'	-5.15	94.21	104.00
34	BA	1202	G	OP1-P-OP2	-5.15	111.87	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	101	U	C4'-C3'-C2'	-5.15	97.45	102.60
35	BB	309	G	O4'-C1'-N9	5.15	112.32	108.20
35	BB	658	G	OP1-P-OP2	-5.15	111.87	119.60
35	BB	669	A	C3'-C2'-C1'	-5.15	97.38	101.50
35	BB	1109	A	C5-C6-N1	5.15	120.28	117.70
35	BB	1237	C	P-O5'-C5'	-5.15	112.66	120.90
35	BB	1307	C	C5'-C4'-C3'	-5.15	107.76	116.00
37	BD	108	G	C1'-O4'-C4'	-5.15	105.78	109.90
38	BE	136	G	C4-N9-C1'	-5.15	119.80	126.50
41	BH	109	G	N3-C4-N9	-5.15	122.91	126.00
48	BO	23	ASP	CB-CG-OD1	5.15	122.94	118.30
70	Bk	88	ARG	NE-CZ-NH1	5.15	122.88	120.30
85	AA	431	G	N3-C2-N2	-5.15	116.29	119.90
85	AA	868	A	C1'-O4'-C4'	-5.15	105.78	109.90
85	AA	1156	A	N9-C1'-C2'	-5.15	106.33	112.00
85	AA	1174	G	N9-C1'-C2'	-5.15	106.33	112.00
85	AA	1323	G	O4'-C1'-N9	5.15	112.32	108.20
85	AA	1469	G	O5'-C5'-C4'	-5.15	101.91	111.70
85	AA	2072	G	O5'-C5'-C4'	-5.15	101.91	111.70
31	AX	168	ASP	N-CA-CB	-5.15	101.33	110.60
34	BA	112	C	C5'-C4'-C3'	-5.15	107.76	116.00
34	BA	236	A	C2'-C3'-O3'	5.15	121.94	113.70
34	BA	504	A	O5'-P-OP1	-5.15	101.06	105.70
34	BA	565	U	P-O3'-C3'	-5.15	113.52	119.70
34	BA	667	U	O5'-C5'-C4'	-5.15	101.91	111.70
34	BA	1336	U	P-O5'-C5'	5.15	129.14	120.90
34	BA	1471	U	N1-C2-O2	5.15	126.41	122.80
34	BA	1524	G	C6-N1-C2	-5.15	122.01	125.10
34	BA	1597	G	C4-N9-C1'	-5.15	119.81	126.50
34	BA	1776	G	O4'-C1'-C2'	5.15	112.23	107.60
35	BB	822	G	C5-N7-C8	5.15	106.88	104.30
40	BG	123	C	N3-C2-O2	-5.15	118.29	121.90
45	BL	127	THR	CA-CB-CG2	-5.15	105.19	112.40
49	BP	119	SER	CB-CA-C	-5.15	100.31	110.10
60	Ba	86	MET	CG-SD-CE	-5.15	91.96	100.20
85	AA	90	A	N1-C6-N6	5.15	121.69	118.60
85	AA	250	C	C6-N1-C1'	5.15	126.98	120.80
85	AA	492	C	P-O3'-C3'	-5.15	113.52	119.70
85	AA	713	G	C4-N9-C1'	5.15	133.20	126.50
85	AA	719	C	P-O3'-C3'	-5.15	113.52	119.70
85	AA	750	A	P-O5'-C5'	5.15	129.14	120.90
85	AA	1445	C	C4'-C3'-C2'	5.15	107.75	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1829	C	C2-N1-C1'	-5.15	113.13	118.80
85	AA	1969	A	C4-N9-C1'	-5.15	117.03	126.30
85	AA	2091	C	O4'-C1'-N1	5.15	112.32	108.20
34	BA	799	A	C6-C5-N7	-5.15	128.70	132.30
34	BA	835	U	C5'-C4'-C3'	-5.15	107.76	116.00
34	BA	1172	C	O4'-C1'-N1	5.15	112.32	108.20
34	BA	1563	G	O3'-P-O5'	5.15	113.78	104.00
35	BB	527	U	C6-N1-C2	-5.15	117.91	121.00
57	BX	55	ARG	N-CA-CB	5.15	119.87	110.60
65	Bf	262	ASP	CB-CG-OD2	5.15	122.93	118.30
80	Bu	99	TYR	CB-CG-CD1	-5.15	117.91	121.00
85	AA	855	G	O3'-P-O5'	-5.15	94.22	104.00
85	AA	1016	G	C8-N9-C1'	5.15	133.69	127.00
85	AA	1458	G	C5-C6-N1	5.15	114.08	111.50
85	AA	1798	U	O3'-P-O5'	5.15	113.78	104.00
86	AB	16	U	C2-N1-C1'	5.15	123.88	117.70
4	A3	45	ALA	N-CA-CB	-5.15	102.89	110.10
34	BA	266	G	N3-C4-C5	-5.15	126.03	128.60
34	BA	805	A	O4'-C1'-N9	5.15	112.32	108.20
34	BA	1247	G	C1'-O4'-C4'	-5.15	105.78	109.90
34	BA	1452	U	C5'-C4'-O4'	5.15	115.28	109.10
34	BA	1614	G	C4-C5-N7	5.15	112.86	110.80
34	BA	1699	A	C8-N9-C4	-5.15	103.74	105.80
35	BB	627	G	O3'-P-O5'	5.15	113.78	104.00
35	BB	857	G	C4-N9-C1'	-5.15	119.81	126.50
35	BB	1005	A	C5'-C4'-C3'	-5.15	107.76	116.00
35	BB	1535	G	C8-N9-C1'	-5.15	120.31	127.00
36	BC	161	U	P-O3'-C3'	-5.15	113.52	119.70
40	BG	94	G	N9-C1'-C2'	-5.15	106.34	112.00
40	BG	135	C	C5'-C4'-C3'	-5.15	107.77	116.00
50	BQ	22	MET	N-CA-CB	-5.15	101.33	110.60
66	Bg	78	ILE	N-CA-C	-5.15	97.10	111.00
85	AA	682	C	P-O5'-C5'	-5.15	112.66	120.90
85	AA	831	C	O4'-C4'-C3'	-5.15	98.85	104.00
85	AA	1110	A	O5'-C5'-C4'	-5.15	101.92	111.70
85	AA	2016	A	N9-C1'-C2'	-5.15	106.34	112.00
85	AA	2180	C	N1-C2-N3	5.15	122.80	119.20
85	AA	2180	C	C6-N1-C2	-5.15	118.24	120.30
34	BA	323	C	C4'-C3'-O3'	5.15	123.29	113.00
34	BA	667	U	C6-N1-C1'	5.15	128.40	121.20
34	BA	735	A	C5-N7-C8	-5.15	101.33	103.90
34	BA	786	U	C4'-C3'-C2'	-5.15	97.45	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1591	G	P-O3'-C3'	-5.15	113.53	119.70
34	BA	1630	A	P-O5'-C5'	-5.15	112.67	120.90
35	BB	694	C	O4'-C1'-N1	5.15	112.32	108.20
35	BB	830	G	N3-C2-N2	5.15	123.50	119.90
35	BB	990	G	C8-N9-C1'	-5.15	120.31	127.00
62	Bc	22	ARG	CG-CD-NE	5.15	122.61	111.80
84	By	66	SER	CB-CA-C	-5.15	100.32	110.10
85	AA	97	A	C4-N9-C1'	-5.15	117.04	126.30
85	AA	1096	G	O4'-C1'-N9	5.15	112.32	108.20
85	AA	1570	A	C4-N9-C1'	5.15	135.56	126.30
85	AA	1619	A	P-O3'-C3'	-5.15	113.53	119.70
16	AH	130	THR	C-N-CA	5.14	134.56	121.70
34	BA	315	U	OP2-P-O3'	5.14	116.52	105.20
34	BA	603	U	P-O5'-C5'	-5.14	112.67	120.90
34	BA	1162	U	O3'-P-O5'	5.14	113.77	104.00
34	BA	1189	A	C5-C6-N6	5.14	127.82	123.70
34	BA	1220	C	N1-C2-O2	5.14	121.99	118.90
34	BA	1283	U	C6-N1-C1'	5.14	128.40	121.20
34	BA	1485	U	C4'-C3'-C2'	5.14	107.74	102.60
34	BA	1673	G	N3-C4-C5	-5.14	126.03	128.60
34	BA	1719	G	C5'-C4'-C3'	-5.14	107.77	116.00
34	BA	1752	A	O4'-C1'-N9	5.14	112.31	108.20
35	BB	386	G	P-O5'-C5'	5.14	129.13	120.90
35	BB	973	G	C5'-C4'-O4'	5.14	115.27	109.10
35	BB	1033	U	C2-N1-C1'	-5.14	111.53	117.70
35	BB	1081	U	C5'-C4'-C3'	5.14	124.23	116.00
35	BB	1473	U	C2-N1-C1'	5.14	123.87	117.70
35	BB	1545	U	C4'-C3'-C2'	-5.14	97.45	102.60
39	BF	55	A	C8-N9-C4	-5.14	103.74	105.80
52	BS	74	ARG	CB-CA-C	5.14	120.69	110.40
79	Bt	93	LEU	N-CA-C	-5.14	97.11	111.00
85	AA	11	A	C5-C6-N1	5.14	120.27	117.70
85	AA	301	U	C1'-O4'-C4'	-5.14	105.78	109.90
85	AA	720	A	O4'-C1'-N9	5.14	112.32	108.20
85	AA	978	U	C5'-C4'-C3'	-5.14	107.77	116.00
85	AA	1421	U	O4'-C1'-C2'	-5.14	100.66	105.80
85	AA	1449	C	C5'-C4'-O4'	5.14	115.27	109.10
85	AA	1873	U	N1-C2-N3	5.14	117.99	114.90
11	AC	202	ARG	C-N-CA	5.14	133.10	122.30
34	BA	24	C	C2-N1-C1'	-5.14	113.14	118.80
34	BA	291	C	C5-C4-N4	-5.14	116.60	120.20
34	BA	470	C	OP1-P-OP2	-5.14	111.89	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	531	C	C3'-C2'-C1'	-5.14	97.39	101.50
34	BA	539	C	C2-N1-C1'	-5.14	113.14	118.80
34	BA	856	G	C6-N1-C2	-5.14	122.02	125.10
34	BA	1137	U	C6-N1-C1'	5.14	128.40	121.20
34	BA	1161	G	C3'-C2'-C1'	-5.14	97.39	101.50
34	BA	1191	C	O3'-P-O5'	-5.14	94.23	104.00
34	BA	1588	U	O4'-C1'-N1	5.14	112.31	108.20
34	BA	1689	U	O4'-C1'-N1	5.14	112.31	108.20
34	BA	1750	A	C8-N9-C1'	5.14	136.96	127.70
35	BB	410	A	N9-C1'-C2'	-5.14	106.34	112.00
35	BB	499	A	C5'-C4'-C3'	-5.14	107.77	116.00
35	BB	579	A	C4-C5-N7	5.14	113.27	110.70
35	BB	743	C	N1-C2-N3	5.14	122.80	119.20
35	BB	1246	C	C5-C4-N4	5.14	123.80	120.20
35	BB	1437	U	C2-N3-C4	-5.14	123.91	127.00
41	BH	54	U	C2-N1-C1'	-5.14	111.53	117.70
42	BI	119	ARG	N-CA-CB	-5.14	101.34	110.60
85	AA	66	U	O5'-C5'-C4'	5.14	121.47	111.70
85	AA	1022	G	N1-C6-O6	5.14	122.99	119.90
85	AA	1241	A	O4'-C1'-N9	5.14	112.31	108.20
85	AA	1864	G	C6-N1-C2	-5.14	122.01	125.10
86	AB	21	A	C4'-C3'-C2'	-5.14	97.46	102.60
34	BA	704	G	C5-C6-N1	5.14	114.07	111.50
34	BA	1065	U	O4'-C1'-N1	5.14	112.31	108.20
35	BB	750	G	P-O5'-C5'	5.14	129.12	120.90
35	BB	824	C	N3-C2-O2	-5.14	118.30	121.90
35	BB	1003	G	N1-C6-O6	-5.14	116.82	119.90
36	BC	73	U	P-O5'-C5'	-5.14	112.67	120.90
40	BG	109	C	C5'-C4'-C3'	-5.14	107.78	116.00
42	BI	84	SER	C-N-CD	-5.14	109.29	120.60
57	BX	139	ASP	CB-CG-OD2	-5.14	113.67	118.30
65	Bf	372	TYR	CB-CG-CD1	5.14	124.08	121.00
77	Br	326	ARG	NE-CZ-NH1	5.14	122.87	120.30
85	AA	486	G	C1'-O4'-C4'	-5.14	105.79	109.90
85	AA	740	A	O4'-C4'-C3'	-5.14	98.86	104.00
85	AA	1226	A	N1-C6-N6	-5.14	115.52	118.60
85	AA	1491	G	O5'-P-OP2	-5.14	101.07	105.70
85	AA	1703	A	C1'-O4'-C4'	-5.14	105.79	109.90
6	A5	117	TYR	CB-CG-CD1	5.14	124.08	121.00
8	A7	244	CYS	N-CA-CB	5.14	119.85	110.60
34	BA	103	G	O4'-C1'-N9	5.14	112.31	108.20
34	BA	144	C	C1'-O4'-C4'	-5.14	105.79	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	161	U	C5'-C4'-O4'	5.14	115.27	109.10
34	BA	235	C	N3-C4-N4	5.14	121.60	118.00
34	BA	327	G	P-O5'-C5'	-5.14	112.68	120.90
34	BA	643	U	C5-C4-O4	5.14	128.98	125.90
34	BA	1025	A	C8-N9-C4	5.14	107.86	105.80
34	BA	1364	G	O3'-P-O5'	-5.14	94.23	104.00
34	BA	1691	G	C5-C6-N1	5.14	114.07	111.50
35	BB	10	C	O3'-P-O5'	5.14	113.77	104.00
35	BB	79	U	C6-N1-C1'	5.14	128.40	121.20
35	BB	589	U	O3'-P-O5'	5.14	113.76	104.00
35	BB	779	C	N1-C2-O2	5.14	121.98	118.90
35	BB	825	U	N3-C2-O2	-5.14	118.60	122.20
35	BB	1305	A	P-O3'-C3'	-5.14	113.53	119.70
35	BB	1522	G	C1'-O4'-C4'	-5.14	105.79	109.90
41	BH	29	G	O4'-C1'-C2'	5.14	112.23	107.60
58	BY	37	ARG	NE-CZ-NH1	5.14	122.87	120.30
65	Bf	456	ARG	NE-CZ-NH1	5.14	122.87	120.30
75	Bp	37	ARG	CD-NE-CZ	-5.14	116.41	123.60
82	Bw	183	MET	N-CA-CB	5.14	119.85	110.60
85	AA	459	C	C6-N1-C2	-5.14	118.24	120.30
85	AA	1871	U	C5'-C4'-C3'	-5.14	107.78	116.00
85	AA	2105	G	C2'-C3'-O3'	5.14	121.92	113.70
19	AK	35	ILE	CB-CA-C	-5.14	101.33	111.60
34	BA	135	G	N9-C1'-C2'	-5.14	106.35	112.00
34	BA	1505	G	C6-N1-C2	-5.14	122.02	125.10
34	BA	1525	G	C8-N9-C4	-5.14	104.34	106.40
35	BB	1503	U	C2-N3-C4	-5.14	123.92	127.00
36	BC	24	G	C4-N9-C1'	-5.14	119.82	126.50
37	BD	83	A	C5'-C4'-O4'	5.14	115.27	109.10
39	BF	41	U	C5-C6-N1	-5.14	120.13	122.70
85	AA	431	G	C3'-C2'-C1'	-5.14	97.39	101.50
85	AA	2074	G	O4'-C1'-C2'	5.14	112.22	107.60
21	AM	116	ARG	CB-CA-C	5.14	120.67	110.40
34	BA	71	G	O3'-P-O5'	5.14	113.76	104.00
34	BA	192	G	C5'-C4'-O4'	-5.14	102.94	109.10
34	BA	417	A	P-O3'-C3'	-5.14	113.54	119.70
34	BA	513	U	O5'-C5'-C4'	-5.14	101.94	111.70
34	BA	889	U	C2'-C3'-O3'	5.14	121.92	113.70
34	BA	1204	U	C2-N3-C4	-5.14	123.92	127.00
34	BA	1260	G	N7-C8-N9	-5.14	110.53	113.10
34	BA	1490	U	C5'-C4'-C3'	5.14	124.22	116.00
34	BA	1514	A	N9-C1'-C2'	-5.14	106.35	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1531	G	C6-N1-C2	-5.14	122.02	125.10
34	BA	1692	U	OP1-P-OP2	-5.14	111.89	119.60
35	BB	778	A	P-O5'-C5'	-5.14	112.68	120.90
35	BB	781	U	O4'-C4'-C3'	-5.14	98.86	104.00
35	BB	1139	A	N9-C1'-C2'	-5.14	106.35	112.00
35	BB	1241	U	C1'-O4'-C4'	-5.14	105.79	109.90
36	BC	30	U	C5-C4-O4	5.14	128.98	125.90
38	BE	200	A	C6-N1-C2	-5.14	115.52	118.60
39	BF	63	U	OP1-P-O3'	5.14	116.50	105.20
40	BG	61	A	C1'-O4'-C4'	-5.14	105.79	109.90
40	BG	159	A	P-O3'-C3'	5.14	125.86	119.70
41	BH	112	U	C6-N1-C1'	5.14	128.39	121.20
50	BQ	66	ARG	CD-NE-CZ	-5.14	116.41	123.60
65	Bf	184	ARG	N-CA-CB	-5.14	101.35	110.60
72	Bm	37	ARG	NE-CZ-NH2	-5.14	117.73	120.30
77	Br	151	LEU	CB-CA-C	5.14	119.96	110.20
85	AA	191	C	O3'-P-O5'	-5.14	94.24	104.00
85	AA	292	C	O4'-C4'-C3'	-5.14	98.86	104.00
85	AA	340	G	C8-N9-C1'	5.14	133.68	127.00
85	AA	1177	G	C6-C5-N7	-5.14	127.32	130.40
85	AA	1770	U	C2-N1-C1'	-5.14	111.54	117.70
85	AA	1867	G	C5-C6-N1	5.14	114.07	111.50
85	AA	1899	A	C4'-C3'-C2'	-5.14	97.46	102.60
85	AA	2119	C	N3-C4-C5	5.14	123.95	121.90
29	AV	62	TYR	CB-CG-CD1	5.13	124.08	121.00
34	BA	337	C	P-O3'-C3'	-5.13	113.54	119.70
34	BA	734	G	O5'-C5'-C4'	-5.13	101.95	111.70
34	BA	1034	U	C1'-O4'-C4'	-5.13	105.79	109.90
34	BA	1267	A	C4-N9-C1'	5.13	135.54	126.30
35	BB	502	C	N3-C4-N4	-5.13	114.41	118.00
35	BB	511	A	O4'-C1'-N9	5.13	112.31	108.20
35	BB	1185	G	C2-N3-C4	5.13	114.47	111.90
36	BC	25	C	C2-N3-C4	-5.13	117.33	119.90
36	BC	71	A	O4'-C1'-C2'	-5.13	100.67	105.80
40	BG	29	U	C6-N1-C1'	5.13	128.39	121.20
45	BL	27	ASN	N-CA-CB	5.13	119.84	110.60
69	Bj	47	TRP	CA-CB-CG	5.13	123.45	113.70
85	AA	543	A	N7-C8-N9	-5.13	111.23	113.80
85	AA	1309	G	O4'-C1'-N9	5.13	112.31	108.20
2	A1	159	TYR	CB-CG-CD1	-5.13	117.92	121.00
2	A1	185	ASN	CA-CB-CG	-5.13	102.11	113.40
34	BA	213	A	C5'-C4'-O4'	-5.13	102.94	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1435	G	P-O3'-C3'	-5.13	113.54	119.70
35	BB	1510	G	O3'-P-O5'	-5.13	94.25	104.00
37	BD	93	G	P-O3'-C3'	-5.13	113.54	119.70
39	BF	35	C	C4'-C3'-C2'	-5.13	97.47	102.60
40	BG	122	G	N7-C8-N9	-5.13	110.53	113.10
52	BS	36	PHE	N-CA-CB	-5.13	101.36	110.60
85	AA	112	A	C5'-C4'-O4'	5.13	115.26	109.10
85	AA	799	G	C6-C5-N7	-5.13	127.32	130.40
85	AA	971	U	O4'-C4'-C3'	-5.13	98.87	104.00
85	AA	1506	U	N1-C1'-C2'	-5.13	106.35	112.00
85	AA	2188	C	N3-C2-O2	-5.13	118.31	121.90
15	AG	25	TRP	N-CA-CB	5.13	119.83	110.60
23	AP	217	ARG	NH1-CZ-NH2	-5.13	113.76	119.40
34	BA	74	A	O4'-C1'-N9	5.13	112.31	108.20
34	BA	408	U	O4'-C1'-N1	5.13	112.31	108.20
34	BA	462	C	O5'-C5'-C4'	-5.13	101.95	111.70
34	BA	596	G	N9-C4-C5	-5.13	103.35	105.40
34	BA	681	G	P-O3'-C3'	5.13	125.86	119.70
34	BA	750	C	C4'-C3'-C2'	-5.13	97.47	102.60
34	BA	919	A	P-O5'-C5'	5.13	129.11	120.90
34	BA	1540	C	C5'-C4'-O4'	5.13	115.26	109.10
34	BA	1568	A	C3'-C2'-C1'	-5.13	97.40	101.50
34	BA	1812	C	C5-C4-N4	-5.13	116.61	120.20
35	BB	29	C	C6-N1-C2	5.13	122.35	120.30
35	BB	474	G	P-O5'-C5'	-5.13	112.69	120.90
35	BB	964	G	N7-C8-N9	-5.13	110.53	113.10
35	BB	1017	U	C1'-O4'-C4'	-5.13	105.80	109.90
35	BB	1195	A	C4-N9-C1'	-5.13	117.06	126.30
38	BE	108	U	N3-C2-O2	-5.13	118.61	122.20
42	BI	185	LYS	N-CA-CB	5.13	119.83	110.60
44	BK	22	PHE	CB-CG-CD1	-5.13	117.21	120.80
47	BN	120	ARG	NE-CZ-NH2	-5.13	117.73	120.30
67	Bh	134	PHE	CB-CG-CD1	-5.13	117.21	120.80
85	AA	445	U	C5'-C4'-O4'	5.13	115.26	109.10
85	AA	2139	G	C4'-C3'-C2'	5.13	107.73	102.60
86	AB	68	C	C2-N3-C4	-5.13	117.33	119.90
20	AL	42	ARG	NE-CZ-NH1	5.13	122.86	120.30
34	BA	330	A	C5'-C4'-C3'	5.13	124.21	116.00
34	BA	502	U	O4'-C1'-C2'	5.13	112.22	107.60
34	BA	557	U	N1-C2-N3	-5.13	111.82	114.90
35	BB	1153	G	N3-C2-N2	5.13	123.49	119.90
36	BC	113	G	C5-N7-C8	-5.13	101.73	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	86	G	O4'-C1'-N9	5.13	112.30	108.20
85	AA	97	A	N9-C4-C5	-5.13	103.75	105.80
85	AA	1280	U	C5-C6-N1	-5.13	120.14	122.70
85	AA	1963	G	C5-C6-O6	-5.13	125.52	128.60
7	A6	4	TYR	C-N-CA	5.13	134.52	121.70
34	BA	183	G	C4-N9-C1'	-5.13	119.83	126.50
34	BA	580	U	C5'-C4'-C3'	-5.13	107.79	116.00
34	BA	852	C	N3-C2-O2	-5.13	118.31	121.90
34	BA	1360	G	P-O3'-C3'	5.13	125.86	119.70
35	BB	15	C	C2-N3-C4	-5.13	117.34	119.90
35	BB	427	U	O4'-C1'-N1	5.13	112.30	108.20
35	BB	754	U	P-O3'-C3'	5.13	125.85	119.70
35	BB	1154	C	C4'-C3'-C2'	5.13	107.73	102.60
35	BB	1169	A	C3'-C2'-C1'	-5.13	97.40	101.50
37	BD	110	G	C8-N9-C4	5.13	108.45	106.40
38	BE	185	G	O5'-C5'-C4'	-5.13	101.96	111.70
47	BN	10	HIS	CA-CB-CG	5.13	122.32	113.60
72	Bm	6	ARG	NH1-CZ-NH2	-5.13	113.76	119.40
85	AA	321	C	N3-C4-N4	5.13	121.59	118.00
85	AA	627	A	C4'-C3'-C2'	-5.13	97.47	102.60
85	AA	893	G	C8-N9-C4	5.13	108.45	106.40
85	AA	1003	G	P-O3'-C3'	-5.13	113.55	119.70
85	AA	1189	A	O4'-C1'-N9	5.13	112.30	108.20
85	AA	1469	G	N1-C6-O6	5.13	122.98	119.90
85	AA	1870	C	P-O3'-C3'	-5.13	113.55	119.70
85	AA	1873	U	O4'-C1'-N1	5.13	112.30	108.20
85	AA	1903	G	C1'-O4'-C4'	-5.13	105.80	109.90
85	AA	2187	G	N7-C8-N9	-5.13	110.54	113.10
34	BA	6	C	C5'-C4'-C3'	-5.13	107.80	116.00
34	BA	68	A	P-O3'-C3'	5.13	125.85	119.70
34	BA	81	C	C2-N1-C1'	-5.13	113.16	118.80
34	BA	417	A	C3'-C2'-C1'	-5.13	97.40	101.50
34	BA	503	C	C5'-C4'-C3'	-5.13	107.80	116.00
34	BA	545	U	C6-N1-C2	-5.13	117.92	121.00
34	BA	829	U	C1'-O4'-C4'	-5.13	105.80	109.90
34	BA	1802	C	P-O5'-C5'	-5.13	112.70	120.90
34	BA	1827	C	N1-C1'-C2'	-5.13	106.36	112.00
35	BB	642	G	C1'-O4'-C4'	-5.13	105.80	109.90
35	BB	689	C	C1'-O4'-C4'	-5.13	105.80	109.90
35	BB	1130	U	C2'-C3'-O3'	5.13	121.90	113.70
35	BB	1186	A	N1-C6-N6	-5.13	115.52	118.60
35	BB	1448	U	C4'-C3'-C2'	-5.13	97.47	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1481	C	C5-C6-N1	5.13	123.56	121.00
35	BB	1526	C	O3'-P-O5'	-5.13	94.26	104.00
39	BF	46	G	N1-C6-O6	-5.13	116.82	119.90
40	BG	54	G	C6-N1-C2	-5.13	122.02	125.10
40	BG	75	C	C6-N1-C2	5.13	122.35	120.30
43	BJ	38	TYR	CB-CG-CD2	-5.13	117.92	121.00
48	BO	36	ARG	NE-CZ-NH1	5.13	122.86	120.30
65	Bf	216	HIS	CA-CB-CG	-5.13	104.89	113.60
77	Br	203	ARG	NE-CZ-NH1	5.13	122.86	120.30
85	AA	367	A	N3-C4-N9	-5.13	123.30	127.40
85	AA	441	C	C3'-C2'-C1'	-5.13	97.40	101.50
85	AA	765	U	C1'-O4'-C4'	-5.13	105.80	109.90
85	AA	795	C	P-O5'-C5'	-5.13	112.70	120.90
85	AA	974	U	C5'-C4'-C3'	5.13	124.20	116.00
85	AA	1348	C	C4'-C3'-C2'	-5.13	97.47	102.60
85	AA	1977	G	C3'-C2'-C1'	-5.13	97.40	101.50
34	BA	102	G	N1-C2-N2	-5.12	111.59	116.20
34	BA	1003	A	N1-C6-N6	-5.12	115.53	118.60
34	BA	1398	C	P-O5'-C5'	-5.12	112.70	120.90
35	BB	1406	C	N3-C2-O2	-5.12	118.31	121.90
40	BG	118	U	O4'-C1'-N1	5.12	112.30	108.20
44	BK	171	TRP	CB-CG-CD1	5.12	133.66	127.00
79	Bt	41	ARG	NE-CZ-NH1	5.12	122.86	120.30
85	AA	903	G	C6-N1-C2	-5.12	122.03	125.10
85	AA	1093	C	P-O3'-C3'	-5.12	113.55	119.70
85	AA	1155	A	O5'-C5'-C4'	-5.12	101.96	111.70
34	BA	575	U	C2-N1-C1'	5.12	123.85	117.70
34	BA	1137	U	C5'-C4'-O4'	5.12	115.25	109.10
34	BA	1244	G	N1-C6-O6	5.12	122.97	119.90
34	BA	1457	C	P-O3'-C3'	5.12	125.85	119.70
34	BA	1519	G	C4-N9-C1'	-5.12	119.84	126.50
34	BA	1801	G	C5'-C4'-O4'	-5.12	102.95	109.10
35	BB	462	G	C4-N9-C1'	-5.12	119.84	126.50
35	BB	784	C	N1-C2-O2	5.12	121.97	118.90
35	BB	849	A	C4-N9-C1'	5.12	135.52	126.30
35	BB	969	C	C3'-C2'-C1'	-5.12	97.40	101.50
35	BB	971	A	P-O5'-C5'	5.12	129.10	120.90
35	BB	1047	C	P-O5'-C5'	5.12	129.10	120.90
35	BB	1164	U	C6-N1-C2	-5.12	117.93	121.00
35	BB	1383	C	C3'-C2'-C1'	-5.12	97.40	101.50
35	BB	1397	G	C1'-O4'-C4'	-5.12	105.80	109.90
40	BG	70	C	O4'-C1'-C2'	5.12	112.21	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	33	G	N3-C4-C5	5.12	131.16	128.60
44	BK	201	THR	N-CA-CB	5.12	120.03	110.30
55	BV	121	TYR	CB-CG-CD2	-5.12	117.93	121.00
65	Bf	422	LYS	N-CA-C	-5.12	97.16	111.00
77	Br	177	ASP	CB-CA-C	-5.12	100.15	110.40
85	AA	99	U	N3-C4-O4	5.12	122.99	119.40
85	AA	246	C	C4'-C3'-C2'	-5.12	97.48	102.60
85	AA	280	U	O4'-C1'-N1	5.12	112.30	108.20
85	AA	354	C	N1-C2-O2	5.12	121.97	118.90
85	AA	705	G	C8-N9-C1'	5.12	133.66	127.00
85	AA	1102	C	C5-C6-N1	5.12	123.56	121.00
85	AA	2164	G	O4'-C1'-N9	5.12	112.30	108.20
85	AA	2209	U	O4'-C1'-N1	5.12	112.30	108.20
34	BA	228	A	O3'-P-O5'	-5.12	94.27	104.00
34	BA	588	C	C4'-C3'-C2'	-5.12	97.48	102.60
34	BA	757	G	O4'-C4'-C3'	-5.12	98.88	104.00
34	BA	1699	A	C8-N9-C1'	5.12	136.92	127.70
34	BA	1723	U	O5'-P-OP2	-5.12	101.09	105.70
34	BA	1744	C	P-O3'-C3'	-5.12	113.55	119.70
35	BB	34	G	C5'-C4'-O4'	5.12	115.25	109.10
35	BB	404	A	C5'-C4'-C3'	5.12	124.19	116.00
35	BB	411	A	N9-C4-C5	-5.12	103.75	105.80
35	BB	1410	G	C1'-O4'-C4'	-5.12	105.80	109.90
37	BD	20	C	N3-C2-O2	-5.12	118.31	121.90
38	BE	173	G	C5'-C4'-O4'	5.12	115.25	109.10
41	BH	92	A	N7-C8-N9	-5.12	111.24	113.80
41	BH	123	G	N7-C8-N9	-5.12	110.54	113.10
67	Bh	38	TRP	CB-CG-CD1	5.12	133.66	127.00
84	By	154	ARG	NE-CZ-NH1	5.12	122.86	120.30
85	AA	72	C	P-O3'-C3'	-5.12	113.56	119.70
85	AA	204	U	O4'-C4'-C3'	-5.12	98.88	104.00
85	AA	586	G	C4'-C3'-C2'	-5.12	97.48	102.60
85	AA	719	C	C6-N1-C2	-5.12	118.25	120.30
85	AA	1531	G	N1-C6-O6	5.12	122.97	119.90
27	AT	38	CYS	CB-CA-C	5.12	120.64	110.40
34	BA	34	U	C3'-C2'-C1'	-5.12	97.40	101.50
34	BA	207	A	P-O5'-C5'	-5.12	112.71	120.90
34	BA	894	G	N1-C6-O6	-5.12	116.83	119.90
34	BA	1481	U	O5'-C5'-C4'	-5.12	101.97	111.70
35	BB	977	G	OP2-P-O3'	5.12	116.47	105.20
35	BB	1250	A	C8-N9-C1'	5.12	136.92	127.70
40	BG	57	A	C1'-O4'-C4'	-5.12	105.80	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BG	73	U	N1-C2-N3	5.12	117.97	114.90
65	Bf	409	THR	N-CA-CB	5.12	120.03	110.30
85	AA	8	U	C5'-C4'-C3'	5.12	124.19	116.00
85	AA	517	A	C4'-C3'-O3'	5.12	123.24	113.00
85	AA	1135	U	N3-C2-O2	-5.12	118.62	122.20
85	AA	1495	G	C1'-O4'-C4'	-5.12	105.80	109.90
85	AA	2036	A	O4'-C1'-N9	5.12	112.30	108.20
9	A8	35	TYR	CB-CG-CD1	5.12	124.07	121.00
34	BA	161	U	N3-C4-O4	5.12	122.98	119.40
34	BA	166	G	O3'-P-O5'	-5.12	94.28	104.00
34	BA	232	U	C6-N1-C2	-5.12	117.93	121.00
34	BA	1068	C	N3-C2-O2	-5.12	118.32	121.90
34	BA	1347	G	C5-C6-O6	-5.12	125.53	128.60
34	BA	1352	G	C8-N9-C4	-5.12	104.35	106.40
34	BA	1527	G	C4-N9-C1'	-5.12	119.84	126.50
34	BA	1812	C	N3-C4-C5	5.12	123.95	121.90
35	BB	365	U	C6-N1-C2	-5.12	117.93	121.00
35	BB	451	A	N7-C8-N9	-5.12	111.24	113.80
35	BB	475	A	C5-N7-C8	-5.12	101.34	103.90
35	BB	866	A	C5-C6-N6	-5.12	119.61	123.70
35	BB	964	G	C6-N1-C2	-5.12	122.03	125.10
41	BH	8	C	C5'-C4'-O4'	5.12	115.24	109.10
41	BH	52	G	C6-N1-C2	-5.12	122.03	125.10
51	BR	57	CYS	N-CA-CB	5.12	119.81	110.60
59	BZ	91	THR	CA-CB-CG2	-5.12	105.23	112.40
85	AA	106	G	P-O3'-C3'	-5.12	113.56	119.70
85	AA	172	A	C5'-C4'-C3'	5.12	124.19	116.00
85	AA	494	G	N1-C2-N2	-5.12	111.59	116.20
85	AA	675	A	C4-N9-C1'	-5.12	117.09	126.30
85	AA	1160	U	C5'-C4'-C3'	-5.12	107.81	116.00
85	AA	1235	G	C5-N7-C8	-5.12	101.74	104.30
85	AA	1255	C	P-O3'-C3'	-5.12	113.56	119.70
85	AA	1368	G	C8-N9-C1'	-5.12	120.34	127.00
85	AA	1547	G	C5-C6-N1	5.12	114.06	111.50
85	AA	1644	G	P-O3'-C3'	-5.12	113.56	119.70
85	AA	1712	A	C1'-O4'-C4'	-5.12	105.80	109.90
31	AX	19	GLU	N-CA-CB	-5.12	101.39	110.60
34	BA	111	U	C5-C6-N1	-5.12	120.14	122.70
34	BA	701	G	N3-C2-N2	5.12	123.48	119.90
34	BA	702	G	C5'-C4'-O4'	5.12	115.24	109.10
34	BA	1025	A	C5-C6-N6	-5.12	119.61	123.70
38	BE	16	C	C2-N1-C1'	5.12	124.43	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	56	C	P-O5'-C5'	-5.12	112.71	120.90
40	BG	34	A	P-O5'-C5'	-5.12	112.71	120.90
50	BQ	116	ARG	NE-CZ-NH2	-5.12	117.74	120.30
85	AA	821	U	C1'-O4'-C4'	-5.12	105.81	109.90
85	AA	1844	A	O4'-C1'-N9	5.12	112.29	108.20
85	AA	1883	C	N3-C4-N4	5.12	121.58	118.00
15	AG	80	MET	CG-SD-CE	-5.12	92.02	100.20
34	BA	712	C	C5-C4-N4	-5.12	116.62	120.20
34	BA	1104	C	O4'-C1'-C2'	5.12	112.20	107.60
34	BA	1342	C	C2'-C3'-O3'	5.12	121.88	113.70
34	BA	1357	C	N3-C4-N4	-5.12	114.42	118.00
34	BA	1669	C	P-O5'-C5'	5.12	129.09	120.90
35	BB	390	G	N3-C4-C5	-5.12	126.04	128.60
35	BB	1016	C	C6-N1-C1'	5.12	126.94	120.80
35	BB	1094	A	N7-C8-N9	-5.12	111.24	113.80
35	BB	1165	A	P-O5'-C5'	-5.12	112.72	120.90
35	BB	1186	A	C8-N9-C1'	5.12	136.91	127.70
36	BC	96	A	C8-N9-C4	5.12	107.85	105.80
38	BE	14	C	N1-C2-O2	5.12	121.97	118.90
38	BE	35	A	C4-N9-C1'	-5.12	117.09	126.30
38	BE	159	A	O4'-C4'-C3'	-5.12	98.89	104.00
41	BH	25	A	N9-C1'-C2'	5.12	120.65	114.00
41	BH	45	G	N9-C4-C5	-5.12	103.35	105.40
65	Bf	364	THR	CB-CA-C	-5.12	97.79	111.60
74	Bo	58	ASP	C-N-CA	-5.12	111.56	122.30
77	Br	154	GLU	CB-CA-C	-5.12	100.17	110.40
79	Bt	93	LEU	CB-CA-C	-5.12	100.48	110.20
84	By	87	ARG	NE-CZ-NH2	-5.12	117.74	120.30
85	AA	319	U	C5-C6-N1	-5.12	120.14	122.70
85	AA	526	G	O5'-C5'-C4'	-5.12	101.98	111.70
85	AA	687	G	N3-C4-C5	-5.12	126.04	128.60
34	BA	276	C	C3'-C2'-C1'	-5.11	97.41	101.50
34	BA	429	G	C4-C5-N7	-5.11	108.75	110.80
34	BA	469	C	C2-N3-C4	-5.11	117.34	119.90
34	BA	764	G	C5-C6-O6	5.11	131.67	128.60
35	BB	430	A	C4'-C3'-C2'	-5.11	97.49	102.60
35	BB	474	G	N9-C1'-C2'	-5.11	106.38	112.00
35	BB	522	A	N1-C6-N6	-5.11	115.53	118.60
35	BB	541	U	O4'-C1'-N1	5.11	112.29	108.20
35	BB	663	G	N1-C6-O6	-5.11	116.83	119.90
35	BB	802	G	N3-C4-N9	5.11	129.07	126.00
35	BB	856	U	C3'-C2'-C1'	-5.11	97.41	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	976	U	OP1-P-O3'	5.11	116.45	105.20
35	BB	1031	G	N3-C2-N2	5.11	123.48	119.90
35	BB	1051	U	C6-N1-C1'	5.11	128.36	121.20
35	BB	1101	C	C2-N3-C4	-5.11	117.34	119.90
35	BB	1227	G	C1'-O4'-C4'	-5.11	105.81	109.90
36	BC	7	U	O4'-C1'-C2'	-5.11	100.69	105.80
38	BE	152	U	C5-C6-N1	5.11	125.26	122.70
39	BF	2	G	C5'-C4'-C3'	-5.11	107.82	116.00
40	BG	9	G	C2'-C3'-O3'	5.11	121.88	113.70
41	BH	121	A	C5'-C4'-O4'	5.11	115.24	109.10
62	Bc	141	VAL	C-N-CA	5.11	134.49	121.70
85	AA	334	A	C4'-C3'-C2'	5.11	107.71	102.60
85	AA	701	C	N1-C2-N3	5.11	122.78	119.20
85	AA	717	G	C1'-O4'-C4'	-5.11	105.81	109.90
85	AA	777	U	C5-C4-O4	-5.11	122.83	125.90
85	AA	863	C	N3-C4-C5	5.11	123.94	121.90
85	AA	983	A	C2'-C3'-O3'	5.11	121.88	113.70
85	AA	1953	G	C4-N9-C1'	-5.11	119.85	126.50
85	AA	2055	G	P-O5'-C5'	-5.11	112.72	120.90
85	AA	2133	A	O3'-P-O5'	-5.11	94.28	104.00
85	AA	2171	A	C3'-C2'-C1'	-5.11	97.41	101.50
86	AB	63	G	O4'-C1'-C2'	5.11	112.20	107.60
34	BA	505	U	C2-N3-C4	-5.11	123.93	127.00
34	BA	561	U	O4'-C1'-N1	5.11	112.29	108.20
34	BA	1109	G	N3-C2-N2	5.11	123.48	119.90
34	BA	1682	A	C5'-C4'-C3'	-5.11	107.82	116.00
36	BC	96	A	P-O3'-C3'	-5.11	113.57	119.70
1	A0	121	THR	C-N-CA	5.11	134.48	121.70
7	A6	118	ALA	N-CA-CB	5.11	117.26	110.10
11	AC	156	ARG	NE-CZ-NH2	5.11	122.86	120.30
34	BA	26	C	O3'-P-O5'	-5.11	94.29	104.00
34	BA	205	G	O5'-C5'-C4'	-5.11	101.99	111.70
34	BA	290	G	O4'-C1'-C2'	5.11	112.20	107.60
34	BA	335	C	O4'-C1'-N1	5.11	112.29	108.20
34	BA	488	C	C5-C4-N4	-5.11	116.62	120.20
34	BA	544	U	C4-C5-C6	-5.11	116.63	119.70
34	BA	671	C	C6-N1-C2	-5.11	118.26	120.30
34	BA	800	G	N3-C4-N9	5.11	129.07	126.00
34	BA	935	A	C5-C6-N6	-5.11	119.61	123.70
34	BA	965	A	P-O5'-C5'	5.11	129.08	120.90
34	BA	1294	C	C5-C6-N1	-5.11	118.44	121.00
34	BA	1484	A	C3'-C2'-C1'	-5.11	97.41	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1641	G	C4-C5-C6	-5.11	115.73	118.80
34	BA	1655	G	C5-C6-O6	-5.11	125.53	128.60
34	BA	1837	U	N1-C2-O2	5.11	126.38	122.80
35	BB	543	G	C5'-C4'-C3'	-5.11	107.82	116.00
35	BB	858	U	C1'-O4'-C4'	-5.11	105.81	109.90
35	BB	1124	G	C5-C6-N1	5.11	114.06	111.50
35	BB	1223	A	O3'-P-O5'	5.11	113.71	104.00
35	BB	1260	A	N9-C1'-C2'	-5.11	106.38	112.00
35	BB	1365	G	C4-N9-C1'	-5.11	119.86	126.50
35	BB	1487	G	O3'-P-O5'	-5.11	94.29	104.00
37	BD	65	G	C5-C6-O6	-5.11	125.53	128.60
40	BG	150	A	C5'-C4'-C3'	-5.11	107.82	116.00
44	BK	162	ARG	NE-CZ-NH1	5.11	122.86	120.30
49	BP	122	TYR	CA-CB-CG	-5.11	103.69	113.40
85	AA	527	A	O4'-C4'-C3'	-5.11	98.89	104.00
85	AA	586	G	C6-N1-C2	-5.11	122.03	125.10
85	AA	633	C	N3-C2-O2	-5.11	118.32	121.90
85	AA	1092	G	C5'-C4'-C3'	-5.11	107.82	116.00
85	AA	1110	A	N9-C1'-C2'	-5.11	106.38	112.00
85	AA	1114	A	N9-C1'-C2'	-5.11	106.38	112.00
85	AA	1667	C	N3-C2-O2	-5.11	118.32	121.90
85	AA	2208	G	O4'-C1'-N9	5.11	112.29	108.20
26	AS	119	ARG	NE-CZ-NH1	5.11	122.86	120.30
34	BA	12	G	C6-N1-C2	-5.11	122.03	125.10
34	BA	429	G	O4'-C1'-N9	5.11	112.29	108.20
34	BA	955	G	C6-N1-C2	-5.11	122.03	125.10
34	BA	973	U	O5'-P-OP2	-5.11	101.10	105.70
35	BB	157	G	C5-C6-O6	-5.11	125.53	128.60
35	BB	1466	A	N7-C8-N9	5.11	116.36	113.80
47	BN	80	PHE	CB-CG-CD2	-5.11	117.22	120.80
47	BN	204	ASN	C-N-CA	5.11	134.47	121.70
85	AA	565	G	C5-C6-O6	-5.11	125.53	128.60
85	AA	1888	U	O4'-C1'-N1	5.11	112.29	108.20
85	AA	2179	C	N1-C2-O2	5.11	121.97	118.90
34	BA	813	C	O4'-C1'-N1	5.11	112.29	108.20
34	BA	1204	U	C3'-C2'-C1'	-5.11	97.41	101.50
34	BA	1642	A	C4'-C3'-C2'	-5.11	97.49	102.60
34	BA	1797	A	O4'-C1'-N9	5.11	112.29	108.20
34	BA	1809	G	N9-C1'-C2'	-5.11	106.38	112.00
35	BB	148	C	C2'-C3'-O3'	5.11	121.87	113.70
35	BB	401	U	C3'-C2'-C1'	-5.11	97.41	101.50
35	BB	470	C	C2-N1-C1'	-5.11	113.18	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	502	C	N3-C2-O2	-5.11	118.32	121.90
35	BB	682	U	C4-C5-C6	-5.11	116.64	119.70
35	BB	700	C	O4'-C1'-N1	5.11	112.29	108.20
35	BB	1226	G	N1-C2-N2	5.11	120.80	116.20
35	BB	1261	U	P-O5'-C5'	-5.11	112.73	120.90
35	BB	1432	U	C1'-O4'-C4'	-5.11	105.81	109.90
38	BE	73	A	C5'-C4'-O4'	-5.11	102.97	109.10
38	BE	195	G	P-O5'-C5'	5.11	129.07	120.90
70	Bk	83	LYS	N-CA-C	-5.11	97.21	111.00
85	AA	173	A	OP2-P-O3'	5.11	116.44	105.20
85	AA	333	A	C8-N9-C4	5.11	107.84	105.80
85	AA	1115	G	O4'-C4'-C3'	-5.11	98.89	104.00
85	AA	1184	A	C5-C6-N1	5.11	120.25	117.70
85	AA	1970	A	N9-C1'-C2'	-5.11	106.38	112.00
2	A1	192	ILE	CB-CA-C	-5.11	101.39	111.60
7	A6	7	PHE	CB-CG-CD1	5.11	124.37	120.80
34	BA	109	A	C4-N9-C1'	-5.11	117.11	126.30
34	BA	359	G	C4'-C3'-C2'	5.11	107.71	102.60
34	BA	468	A	OP1-P-O3'	5.11	116.43	105.20
34	BA	622	G	C8-N9-C1'	5.11	133.64	127.00
34	BA	668	G	O4'-C1'-N9	5.11	112.28	108.20
34	BA	1276	G	C4-N9-C1'	-5.11	119.86	126.50
34	BA	1517	U	C2-N1-C1'	-5.11	111.57	117.70
34	BA	1601	C	C6-N1-C1'	5.11	126.93	120.80
34	BA	1728	G	C8-N9-C4	5.11	108.44	106.40
35	BB	86	A	OP2-P-O3'	5.11	116.43	105.20
35	BB	967	G	C8-N9-C1'	5.11	133.64	127.00
35	BB	1287	U	C5'-C4'-O4'	5.11	115.23	109.10
35	BB	1479	C	C6-N1-C1'	5.11	126.93	120.80
36	BC	143	C	N1-C2-O2	5.11	121.96	118.90
38	BE	173	G	C5-N7-C8	-5.11	101.75	104.30
38	BE	175	U	C5'-C4'-C3'	5.11	124.17	116.00
47	BN	175	ARG	C-N-CA	5.11	134.46	121.70
63	Bd	58	ALA	O-C-N	-5.11	114.53	122.70
79	Bt	6	LYS	CB-CA-C	-5.11	100.19	110.40
85	AA	4	C	C4'-C3'-C2'	5.11	107.71	102.60
85	AA	39	A	C3'-C2'-C1'	-5.11	97.42	101.50
85	AA	889	G	N9-C4-C5	5.11	107.44	105.40
85	AA	1149	A	C8-N9-C4	5.11	107.84	105.80
85	AA	1186	C	N3-C2-O2	-5.11	118.33	121.90
85	AA	1288	A	N7-C8-N9	5.11	116.35	113.80
85	AA	1292	A	C4'-C3'-C2'	5.11	107.70	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1561	A	C4-C5-C6	-5.11	114.45	117.00
34	BA	190	U	O5'-C5'-C4'	-5.10	102.00	111.70
34	BA	300	C	O4'-C4'-C3'	-5.10	98.90	104.00
34	BA	488	C	N1-C1'-C2'	5.10	120.64	114.00
34	BA	765	U	C2-N3-C4	-5.10	123.94	127.00
34	BA	1104	C	C3'-C2'-C1'	-5.10	97.42	101.50
34	BA	1277	G	C6-N1-C2	-5.10	122.04	125.10
34	BA	1800	G	C5-C6-O6	-5.10	125.54	128.60
35	BB	590	G	C5-C6-O6	5.10	131.66	128.60
35	BB	971	A	C4-N9-C1'	-5.10	117.11	126.30
35	BB	1070	G	O5'-C5'-C4'	-5.10	102.00	111.70
38	BE	36	U	O4'-C1'-N1	5.10	112.28	108.20
50	BQ	144	PHE	CB-CA-C	-5.10	100.19	110.40
85	AA	693	A	P-O5'-C5'	5.10	129.07	120.90
85	AA	1161	U	C1'-O4'-C4'	-5.10	105.82	109.90
85	AA	1409	U	P-O5'-C5'	5.10	129.07	120.90
85	AA	1646	U	O4'-C1'-N1	5.10	112.28	108.20
34	BA	442	G	C3'-C2'-C1'	-5.10	97.42	101.50
34	BA	567	U	C1'-O4'-C4'	-5.10	105.82	109.90
34	BA	859	G	P-O3'-C3'	-5.10	113.58	119.70
34	BA	1499	A	N9-C4-C5	5.10	107.84	105.80
34	BA	1621	U	O4'-C1'-N1	5.10	112.28	108.20
34	BA	1827	C	C5'-C4'-C3'	-5.10	107.84	116.00
35	BB	50	A	P-O3'-C3'	-5.10	113.58	119.70
35	BB	397	C	C1'-O4'-C4'	-5.10	105.82	109.90
35	BB	569	G	O4'-C1'-N9	5.10	112.28	108.20
35	BB	977	G	O5'-P-OP1	-5.10	101.11	105.70
35	BB	1028	C	C2-N1-C1'	-5.10	113.19	118.80
35	BB	1444	U	C5'-C4'-O4'	5.10	115.22	109.10
35	BB	1511	U	N3-C2-O2	-5.10	118.63	122.20
36	BC	87	C	C2'-C3'-O3'	5.10	121.86	113.70
51	BR	139	TYR	N-CA-C	-5.10	97.22	111.00
52	BS	93	VAL	CA-CB-CG2	-5.10	103.25	110.90
67	Bh	1	MET	CB-CG-SD	5.10	127.71	112.40
85	AA	104	C	C1'-O4'-C4'	-5.10	105.82	109.90
85	AA	800	A	N3-C4-N9	-5.10	123.32	127.40
85	AA	851	G	N9-C1'-C2'	-5.10	106.39	112.00
85	AA	1246	G	N3-C4-C5	-5.10	126.05	128.60
85	AA	1593	C	N3-C4-N4	-5.10	114.43	118.00
85	AA	2109	G	O4'-C4'-C3'	-5.10	98.90	104.00
85	AA	2132	A	C3'-C2'-C1'	-5.10	97.42	101.50
5	A4	111	VAL	N-CA-C	5.10	124.77	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	474	A	P-O3'-C3'	-5.10	113.58	119.70
34	BA	957	A	C4'-C3'-O3'	-5.10	98.69	109.40
34	BA	1100	A	O4'-C1'-N9	5.10	112.28	108.20
34	BA	1656	A	C5'-C4'-C3'	-5.10	107.84	116.00
34	BA	1708	A	C4-N9-C1'	-5.10	117.12	126.30
34	BA	1815	G	N1-C2-N2	-5.10	111.61	116.20
35	BB	1168	G	O5'-C5'-C4'	-5.10	102.01	111.70
35	BB	1485	G	C6-N1-C2	-5.10	122.04	125.10
85	AA	384	C	N1-C1'-C2'	-5.10	106.39	112.00
85	AA	1263	G	C1'-O4'-C4'	-5.10	105.82	109.90
85	AA	2095	U	C5'-C4'-O4'	-5.10	102.98	109.10
86	AB	18	G	O4'-C1'-C2'	-5.10	100.70	105.80
34	BA	558	C	C1'-O4'-C4'	-5.10	105.82	109.90
34	BA	799	A	C8-N9-C4	-5.10	103.76	105.80
34	BA	1055	U	C6-N1-C2	-5.10	117.94	121.00
34	BA	1101	A	C5-C6-N6	5.10	127.78	123.70
34	BA	1167	A	C3'-C2'-C1'	-5.10	97.42	101.50
34	BA	1581	G	C4'-C3'-C2'	-5.10	97.50	102.60
34	BA	1776	G	C3'-C2'-C1'	-5.10	97.42	101.50
35	BB	130	G	C5-C6-N1	5.10	114.05	111.50
35	BB	519	A	C1'-O4'-C4'	-5.10	105.82	109.90
35	BB	578	G	C3'-C2'-C1'	-5.10	97.42	101.50
35	BB	845	C	N3-C2-O2	-5.10	118.33	121.90
35	BB	1220	A	C3'-C2'-C1'	-5.10	97.42	101.50
35	BB	1263	A	C5'-C4'-C3'	-5.10	107.84	116.00
35	BB	1390	U	O3'-P-O5'	5.10	113.69	104.00
35	BB	1457	A	N1-C6-N6	5.10	121.66	118.60
37	BD	66	G	C5'-C4'-C3'	-5.10	107.84	116.00
37	BD	76	U	OP2-P-O3'	5.10	116.42	105.20
39	BF	47	C	N3-C2-O2	-5.10	118.33	121.90
40	BG	49	A	O3'-P-O5'	-5.10	94.31	104.00
40	BG	175	G	C8-N9-C4	-5.10	104.36	106.40
53	BT	100	ARG	N-CA-CB	-5.10	101.42	110.60
61	Bb	29	PRO	N-CA-C	5.10	125.36	112.10
85	AA	402	G	C4-N9-C1'	-5.10	119.87	126.50
85	AA	485	A	C4'-C3'-C2'	-5.10	97.50	102.60
85	AA	534	A	N1-C2-N3	-5.10	126.75	129.30
85	AA	576	U	C3'-C2'-C1'	-5.10	97.42	101.50
85	AA	1230	U	O5'-C5'-C4'	-5.10	102.01	111.70
85	AA	1287	C	N3-C2-O2	-5.10	118.33	121.90
85	AA	1554	C	C1'-O4'-C4'	-5.10	105.82	109.90
85	AA	1788	U	C6-N1-C2	-5.10	117.94	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
86	AB	57	G	P-O5'-C5'	-5.10	112.74	120.90
9	A8	20	ARG	NE-CZ-NH1	5.10	122.85	120.30
34	BA	481	A	C5-C6-N1	-5.10	115.15	117.70
34	BA	544	U	O5'-P-OP2	-5.10	101.11	105.70
35	BB	837	A	N1-C2-N3	-5.10	126.75	129.30
35	BB	966	C	C1'-O4'-C4'	-5.10	105.82	109.90
35	BB	1000	U	N1-C1'-C2'	-5.10	106.39	112.00
35	BB	1535	G	C4'-C3'-C2'	-5.10	97.50	102.60
40	BG	48	U	C6-N1-C1'	5.10	128.34	121.20
40	BG	123	C	P-O3'-C3'	-5.10	113.58	119.70
48	BO	24	ILE	N-CA-CB	5.10	122.52	110.80
65	Bf	459	ARG	NE-CZ-NH2	-5.10	117.75	120.30
85	AA	189	G	N3-C4-C5	-5.10	126.05	128.60
85	AA	745	C	C6-N1-C1'	5.10	126.92	120.80
85	AA	762	U	C2-N1-C1'	5.10	123.82	117.70
85	AA	917	A	C4-C5-C6	-5.10	114.45	117.00
85	AA	1197	U	C1'-O4'-C4'	-5.10	105.82	109.90
85	AA	1230	U	C2-N3-C4	-5.10	123.94	127.00
85	AA	1514	A	O4'-C1'-N9	5.10	112.28	108.20
85	AA	1789	C	O4'-C1'-N1	5.10	112.28	108.20
85	AA	2250	U	C2-N3-C4	-5.10	123.94	127.00
34	BA	842	U	C1'-O4'-C4'	-5.10	105.82	109.90
34	BA	1067	G	C5-C6-O6	-5.10	125.54	128.60
34	BA	1706	A	P-O3'-C3'	-5.10	113.58	119.70
40	BG	25	G	O3'-P-O5'	5.10	113.68	104.00
40	BG	41	U	C5'-C4'-O4'	5.10	115.22	109.10
40	BG	181	C	P-O5'-C5'	-5.10	112.75	120.90
67	Bh	73	LEU	C-N-CA	-5.10	108.96	121.70
75	Bp	31	VAL	CA-CB-CG2	5.10	118.54	110.90
85	AA	107	A	C5'-C4'-C3'	-5.10	107.85	116.00
85	AA	791	C	C5'-C4'-C3'	-5.10	107.85	116.00
85	AA	983	A	C5-C6-N6	-5.10	119.62	123.70
85	AA	1379	A	P-O3'-C3'	5.10	125.81	119.70
85	AA	1405	U	P-O3'-C3'	-5.10	113.58	119.70
85	AA	1622	G	N1-C2-N2	-5.10	111.61	116.20
85	AA	1833	C	C2'-C3'-O3'	5.10	121.85	113.70
4	A3	176	ALA	N-CA-CB	-5.09	102.97	110.10
7	A6	149	VAL	N-CA-C	5.09	124.75	111.00
31	AX	88	GLU	N-CA-CB	5.09	119.77	110.60
34	BA	263	G	O4'-C1'-N9	5.09	112.28	108.20
34	BA	384	U	N1-C2-N3	5.09	117.96	114.90
34	BA	525	A	O3'-P-O5'	5.09	113.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	618	G	O5'-C5'-C4'	-5.09	102.02	111.70
34	BA	676	G	P-O3'-C3'	-5.09	113.59	119.70
34	BA	764	G	C8-N9-C1'	-5.09	120.38	127.00
34	BA	786	U	O4'-C1'-N1	5.09	112.28	108.20
34	BA	1036	G	C1'-O4'-C4'	-5.09	105.82	109.90
34	BA	1606	A	N1-C6-N6	-5.09	115.54	118.60
34	BA	1665	G	C6-N1-C2	-5.09	122.04	125.10
34	BA	1734	U	N1-C2-N3	5.09	117.96	114.90
35	BB	65	A	C8-N9-C4	5.09	107.84	105.80
35	BB	775	U	C2-N1-C1'	-5.09	111.59	117.70
35	BB	1342	C	N1-C2-O2	5.09	121.96	118.90
39	BF	9	C	N3-C2-O2	-5.09	118.33	121.90
41	BH	13	C	N3-C4-N4	5.09	121.57	118.00
42	BI	187	ARG	N-CA-CB	5.09	119.77	110.60
44	BK	7	ARG	NE-CZ-NH2	-5.09	117.75	120.30
78	Bs	2	MET	CB-CA-C	5.09	120.59	110.40
80	Bu	221	ALA	C-N-CA	5.09	134.44	121.70
85	AA	55	A	C3'-C2'-C1'	-5.09	97.42	101.50
85	AA	980	U	P-O3'-C3'	-5.09	113.59	119.70
85	AA	1024	G	O4'-C1'-N9	5.09	112.28	108.20
85	AA	1772	U	O4'-C1'-N1	5.09	112.28	108.20
85	AA	2011	C	C6-N1-C2	5.09	122.34	120.30
85	AA	2096	G	N3-C2-N2	5.09	123.47	119.90
85	AA	2187	G	C5-C6-N1	5.09	114.05	111.50
5	A4	78	LYS	N-CA-CB	-5.09	101.43	110.60
25	AR	29	ILE	N-CA-CB	5.09	122.51	110.80
34	BA	559	C	C4'-C3'-C2'	-5.09	97.51	102.60
35	BB	439	G	C5'-C4'-O4'	5.09	115.21	109.10
35	BB	1188	A	C5'-C4'-C3'	-5.09	107.85	116.00
35	BB	1442	C	N3-C2-O2	-5.09	118.33	121.90
40	BG	2	U	C6-N1-C2	-5.09	117.94	121.00
40	BG	16	G	N3-C2-N2	5.09	123.47	119.90
15	AG	89	TYR	CB-CG-CD1	-5.09	117.95	121.00
25	AR	13	ASN	CA-C-N	-5.09	106.00	117.20
34	BA	418	G	C6-N1-C2	-5.09	122.05	125.10
34	BA	449	G	C2-N3-C4	5.09	114.45	111.90
34	BA	478	G	N1-C6-O6	-5.09	116.84	119.90
34	BA	683	C	O3'-P-O5'	5.09	113.68	104.00
34	BA	705	C	C2-N1-C1'	-5.09	113.20	118.80
34	BA	932	G	N1-C6-O6	5.09	122.95	119.90
34	BA	1161	G	C5-C6-O6	-5.09	125.55	128.60
34	BA	1220	C	N3-C4-N4	-5.09	114.44	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1537	G	C5'-C4'-O4'	5.09	115.21	109.10
35	BB	330	U	P-O3'-C3'	5.09	125.81	119.70
35	BB	835	C	P-O5'-C5'	5.09	129.05	120.90
35	BB	927	U	P-O3'-C3'	5.09	125.81	119.70
35	BB	999	G	O4'-C4'-C3'	-5.09	98.91	104.00
35	BB	1072	C	P-O5'-C5'	-5.09	112.75	120.90
35	BB	1404	A	N9-C4-C5	-5.09	103.76	105.80
35	BB	1513	U	C1'-O4'-C4'	-5.09	105.83	109.90
36	BC	154	A	C5-C6-N1	5.09	120.25	117.70
39	BF	62	U	C5'-C4'-O4'	5.09	115.21	109.10
52	BS	135	GLU	O-C-N	-5.09	114.55	122.70
85	AA	285	C	N1-C1'-C2'	-5.09	106.40	112.00
85	AA	512	U	P-O5'-C5'	5.09	129.05	120.90
85	AA	518	A	O5'-C5'-C4'	5.09	121.37	111.70
85	AA	1371	C	C4'-C3'-O3'	5.09	123.18	113.00
85	AA	1955	U	C4'-C3'-O3'	5.09	123.18	113.00
2	A1	155	ASP	CB-CG-OD1	5.09	122.88	118.30
26	AS	65	ALA	N-CA-CB	5.09	117.22	110.10
33	AZ	88	ASP	CB-CA-C	5.09	120.58	110.40
34	BA	465	A	C1'-O4'-C4'	-5.09	105.83	109.90
34	BA	487	A	C5'-C4'-O4'	5.09	115.21	109.10
34	BA	523	A	C5'-C4'-C3'	5.09	124.14	116.00
34	BA	784	C	O4'-C1'-C2'	5.09	112.18	107.60
34	BA	1044	A	C5-C6-N1	5.09	120.25	117.70
35	BB	673	C	C2-N3-C4	-5.09	117.36	119.90
35	BB	1109	A	O5'-P-OP2	-5.09	101.12	105.70
35	BB	1123	A	P-O3'-C3'	-5.09	113.59	119.70
35	BB	1304	U	C2-N1-C1'	5.09	123.81	117.70
36	BC	124	A	C5-C6-N1	5.09	120.25	117.70
37	BD	101	A	C1'-O4'-C4'	-5.09	105.83	109.90
38	BE	7	U	C2-N1-C1'	-5.09	111.59	117.70
38	BE	195	G	C2-N3-C4	5.09	114.44	111.90
40	BG	44	G	C5'-C4'-C3'	-5.09	107.86	116.00
65	Bf	233	HIS	CA-C-N	-5.09	106.00	117.20
66	Bg	78	ILE	CB-CA-C	-5.09	101.42	111.60
81	Bv	46	ARG	NE-CZ-NH2	5.09	122.84	120.30
84	By	30	ARG	NE-CZ-NH1	5.09	122.84	120.30
85	AA	514	U	C5'-C4'-C3'	-5.09	107.86	116.00
85	AA	579	U	O3'-P-O5'	-5.09	94.33	104.00
85	AA	609	U	C4'-C3'-C2'	-5.09	97.51	102.60
85	AA	866	U	C2-N1-C1'	-5.09	111.59	117.70
85	AA	887	A	N1-C2-N3	-5.09	126.75	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1191	G	C5'-C4'-C3'	-5.09	107.86	116.00
34	BA	215	C	O4'-C1'-N1	5.09	112.27	108.20
34	BA	868	C	P-O3'-C3'	-5.09	113.59	119.70
35	BB	45	A	C8-N9-C4	5.09	107.83	105.80
35	BB	325	G	O4'-C1'-N9	5.09	112.27	108.20
36	BC	121	G	N1-C6-O6	5.09	122.95	119.90
37	BD	75	G	O4'-C1'-C2'	-5.09	100.71	105.80
38	BE	158	U	O4'-C1'-N1	5.09	112.27	108.20
40	BG	105	A	C4-N9-C1'	-5.09	117.14	126.30
40	BG	114	A	P-O3'-C3'	-5.09	113.59	119.70
85	AA	259	A	C8-N9-C4	5.09	107.83	105.80
85	AA	513	G	C6-N1-C2	-5.09	122.05	125.10
85	AA	601	A	C5'-C4'-C3'	5.09	124.14	116.00
85	AA	2182	A	C4-C5-N7	5.09	113.24	110.70
34	BA	826	C	C6-N1-C1'	5.09	126.90	120.80
34	BA	1082	U	C5'-C4'-O4'	-5.09	103.00	109.10
34	BA	1115	A	O3'-P-O5'	5.09	113.67	104.00
34	BA	1143	U	N1-C2-O2	5.09	126.36	122.80
34	BA	1352	G	C3'-C2'-C1'	-5.09	97.43	101.50
34	BA	1484	A	OP1-P-O3'	5.09	116.39	105.20
34	BA	1615	A	C5'-C4'-C3'	5.09	124.14	116.00
35	BB	1047	C	P-O3'-C3'	-5.09	113.60	119.70
35	BB	1427	A	O4'-C4'-C3'	-5.09	98.91	104.00
35	BB	1455	A	C4-N9-C1'	5.09	135.46	126.30
35	BB	1488	G	N1-C6-O6	-5.09	116.85	119.90
36	BC	8	C	C1'-O4'-C4'	5.09	113.97	109.90
40	BG	175	G	C3'-C2'-C1'	-5.09	97.43	101.50
41	BH	60	A	C3'-C2'-C1'	5.09	105.57	101.50
44	BK	85	PHE	CB-CG-CD1	-5.09	117.24	120.80
85	AA	161	A	O4'-C1'-C2'	5.09	112.18	107.60
85	AA	800	A	C5-C6-N6	-5.09	119.63	123.70
85	AA	872	U	C2-N3-C4	-5.09	123.95	127.00
85	AA	999	A	P-O5'-C5'	5.09	129.04	120.90
85	AA	1710	C	O4'-C1'-N1	5.09	112.27	108.20
85	AA	2019	G	P-O3'-C3'	-5.09	113.60	119.70
11	AC	109	ASP	CB-CG-OD1	5.08	122.88	118.30
20	AL	81	ARG	NE-CZ-NH1	5.08	122.84	120.30
21	AM	4	THR	N-CA-CB	5.08	119.96	110.30
27	AT	100	ARG	NE-CZ-NH2	5.08	122.84	120.30
34	BA	566	G	C5'-C4'-C3'	5.08	124.14	116.00
34	BA	581	U	P-O3'-C3'	-5.08	113.60	119.70
34	BA	742	C	C2-N3-C4	5.08	122.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	387	G	P-O3'-C3'	-5.08	113.60	119.70
35	BB	598	C	P-O3'-C3'	-5.08	113.60	119.70
35	BB	850	U	O4'-C1'-N1	5.08	112.27	108.20
35	BB	1273	G	C5'-C4'-C3'	5.08	124.14	116.00
39	BF	70	A	N9-C1'-C2'	-5.08	106.41	112.00
84	By	118	ARG	CG-CD-NE	-5.08	101.12	111.80
85	AA	39	A	O4'-C4'-C3'	-5.08	98.92	104.00
85	AA	595	A	C6-N1-C2	-5.08	115.55	118.60
4	A3	224	ARG	N-CA-CB	-5.08	101.45	110.60
34	BA	98	A	C5'-C4'-C3'	5.08	124.13	116.00
34	BA	361	C	N3-C4-N4	5.08	121.56	118.00
34	BA	369	A	P-O3'-C3'	-5.08	113.60	119.70
34	BA	711	C	P-O5'-C5'	5.08	129.03	120.90
34	BA	827	A	C3'-C2'-C1'	-5.08	97.43	101.50
34	BA	1555	G	C5'-C4'-C3'	-5.08	107.86	116.00
35	BB	129	U	C5-C6-N1	-5.08	120.16	122.70
35	BB	505	G	C1'-O4'-C4'	-5.08	105.83	109.90
35	BB	715	G	C1'-O4'-C4'	-5.08	105.83	109.90
35	BB	733	G	P-O5'-C5'	-5.08	112.77	120.90
35	BB	1302	C	O4'-C1'-N1	5.08	112.27	108.20
35	BB	1369	A	C5-C6-N6	-5.08	119.63	123.70
35	BB	1429	A	C3'-C2'-C1'	-5.08	97.43	101.50
38	BE	17	U	C5'-C4'-O4'	5.08	115.20	109.10
38	BE	163	A	C2-N3-C4	-5.08	108.06	110.60
41	BH	135	U	C4'-C3'-C2'	5.08	107.68	102.60
42	BI	162	ALA	N-CA-CB	5.08	117.22	110.10
47	BN	142	ASP	CB-CA-C	5.08	120.57	110.40
62	Bc	53	ILE	C-N-CA	5.08	134.41	121.70
67	Bh	70	ARG	NE-CZ-NH1	5.08	122.84	120.30
68	Bi	50	GLN	C-N-CA	5.08	134.41	121.70
79	Bt	87	ARG	CD-NE-CZ	-5.08	116.48	123.60
85	AA	233	C	N3-C4-N4	-5.08	114.44	118.00
85	AA	585	G	O3'-P-O5'	-5.08	94.34	104.00
85	AA	1147	A	O3'-P-O5'	5.08	113.66	104.00
85	AA	1257	A	C5-C6-N1	5.08	120.24	117.70
85	AA	1689	G	P-O3'-C3'	-5.08	113.60	119.70
85	AA	1895	C	C2-N1-C1'	5.08	124.39	118.80
85	AA	1916	A	C4'-C3'-C2'	-5.08	97.52	102.60
85	AA	2185	U	N1-C2-N3	-5.08	111.85	114.90
86	AB	39	U	O4'-C4'-C3'	-5.08	98.92	104.00
15	AG	60	ILE	N-CA-C	-5.08	97.28	111.00
31	AX	16	PHE	CB-CG-CD2	-5.08	117.24	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	152	C	O5'-C5'-C4'	5.08	121.36	111.70
34	BA	167	U	N1-C1'-C2'	-5.08	106.41	112.00
34	BA	370	U	N3-C4-C5	5.08	117.65	114.60
34	BA	370	U	N3-C4-O4	-5.08	115.84	119.40
34	BA	733	G	N1-C6-O6	5.08	122.95	119.90
34	BA	839	U	P-O3'-C3'	-5.08	113.60	119.70
34	BA	930	A	C4-C5-C6	-5.08	114.46	117.00
34	BA	936	A	O3'-P-O5'	5.08	113.66	104.00
34	BA	959	G	P-O3'-C3'	5.08	125.80	119.70
34	BA	999	G	O4'-C1'-N9	5.08	112.27	108.20
34	BA	1086	A	P-O5'-C5'	-5.08	112.77	120.90
34	BA	1165	A	C1'-O4'-C4'	-5.08	105.83	109.90
34	BA	1285	G	C5-C6-N1	5.08	114.04	111.50
34	BA	1679	C	OP1-P-OP2	-5.08	111.98	119.60
34	BA	1783	C	C6-N1-C2	-5.08	118.27	120.30
35	BB	5	A	C5-N7-C8	-5.08	101.36	103.90
35	BB	87	G	P-O5'-C5'	5.08	129.03	120.90
35	BB	849	A	N7-C8-N9	5.08	116.34	113.80
35	BB	866	A	O4'-C1'-N9	5.08	112.27	108.20
35	BB	1115	G	C4'-C3'-C2'	-5.08	97.52	102.60
35	BB	1249	G	C5-C6-N1	5.08	114.04	111.50
35	BB	1416	A	C5-C6-N6	5.08	127.77	123.70
36	BC	41	A	C5-N7-C8	-5.08	101.36	103.90
36	BC	89	U	P-O3'-C3'	-5.08	113.60	119.70
37	BD	92	G	N3-C2-N2	5.08	123.46	119.90
38	BE	60	C	C4'-C3'-C2'	-5.08	97.52	102.60
38	BE	164	C	O4'-C1'-N1	5.08	112.26	108.20
61	Bb	52	TYR	CB-CG-CD2	-5.08	117.95	121.00
81	Bv	75	ARG	CA-CB-CG	5.08	124.58	113.40
85	AA	339	A	N9-C1'-C2'	-5.08	106.41	112.00
85	AA	610	C	C1'-O4'-C4'	-5.08	105.83	109.90
85	AA	1201	A	P-O3'-C3'	-5.08	113.60	119.70
85	AA	1512	U	P-O5'-C5'	-5.08	112.77	120.90
85	AA	1525	C	N1-C2-O2	5.08	121.95	118.90
85	AA	1579	A	P-O5'-C5'	-5.08	112.77	120.90
85	AA	1833	C	C5'-C4'-C3'	-5.08	107.87	116.00
86	AB	5	G	C5-C6-O6	-5.08	125.55	128.60
34	BA	343	G	OP1-P-OP2	-5.08	111.98	119.60
34	BA	619	U	O5'-C5'-C4'	-5.08	102.05	111.70
34	BA	1122	G	N9-C1'-C2'	-5.08	106.41	112.00
35	BB	53	C	C5'-C4'-O4'	-5.08	103.00	109.10
35	BB	887	G	N7-C8-N9	5.08	115.64	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1407	U	C5-C6-N1	-5.08	120.16	122.70
40	BG	26	G	N9-C1'-C2'	-5.08	106.41	112.00
44	BK	79	ARG	CG-CD-NE	-5.08	101.13	111.80
57	BX	129	THR	CA-CB-CG2	-5.08	105.29	112.40
65	Bf	413	THR	N-CA-C	-5.08	97.28	111.00
85	AA	763	U	C6-N1-C1'	5.08	128.31	121.20
17	AI	42	ALA	C-N-CA	5.08	134.40	121.70
26	AS	22	TRP	CB-CG-CD1	5.08	133.60	127.00
34	BA	961	C	P-O3'-C3'	-5.08	113.61	119.70
34	BA	1088	G	N7-C8-N9	-5.08	110.56	113.10
34	BA	1256	A	O3'-P-O5'	5.08	113.65	104.00
34	BA	1345	U	P-O3'-C3'	5.08	125.80	119.70
34	BA	1533	G	C5-C6-N1	5.08	114.04	111.50
34	BA	1617	U	OP2-P-O3'	5.08	116.37	105.20
35	BB	108	G	C5-C6-N1	5.08	114.04	111.50
35	BB	152	G	P-O3'-C3'	5.08	125.80	119.70
35	BB	324	A	O4'-C1'-N9	5.08	112.26	108.20
35	BB	455	G	C4'-C3'-C2'	-5.08	97.52	102.60
35	BB	507	G	N1-C2-N2	-5.08	111.63	116.20
35	BB	723	A	C8-N9-C4	-5.08	103.77	105.80
35	BB	1052	G	C1'-O4'-C4'	-5.08	105.84	109.90
35	BB	1210	U	O4'-C1'-N1	5.08	112.26	108.20
35	BB	1342	C	C5'-C4'-O4'	5.08	115.19	109.10
38	BE	124	G	N9-C1'-C2'	-5.08	106.42	112.00
40	BG	75	C	O4'-C1'-C2'	5.08	112.17	107.60
41	BH	1	U	C5'-C4'-O4'	5.08	115.19	109.10
50	BQ	102	ASN	N-CA-C	5.08	124.71	111.00
77	Br	155	ASP	CB-CG-OD2	-5.08	113.73	118.30
81	Bv	171	MET	N-CA-CB	5.08	119.74	110.60
85	AA	36	U	O5'-C5'-C4'	-5.08	102.05	111.70
85	AA	308	U	C6-N1-C1'	-5.08	114.09	121.20
85	AA	329	G	O4'-C1'-N9	5.08	112.26	108.20
85	AA	928	U	N1-C2-N3	5.08	117.95	114.90
85	AA	1146	C	P-O3'-C3'	-5.08	113.61	119.70
85	AA	1360	C	O4'-C1'-N1	5.08	112.26	108.20
85	AA	1647	G	P-O3'-C3'	-5.08	113.61	119.70
85	AA	1825	A	N1-C6-N6	-5.08	115.55	118.60
85	AA	2157	G	P-O3'-C3'	-5.08	113.61	119.70
85	AA	2175	U	C5'-C4'-C3'	-5.08	107.88	116.00
86	AB	28	G	C4-N9-C1'	-5.08	119.90	126.50
26	AS	30	SER	N-CA-CB	-5.08	102.88	110.50
34	BA	876	C	C4'-C3'-C2'	5.08	107.68	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1039	G	C5'-C4'-O4'	5.08	115.19	109.10
34	BA	1052	G	C1'-O4'-C4'	-5.08	105.84	109.90
34	BA	1670	A	C5'-C4'-O4'	5.08	115.19	109.10
35	BB	70	A	C5-C6-N6	5.08	127.76	123.70
35	BB	365	U	C5'-C4'-O4'	5.08	115.19	109.10
39	BF	39	C	P-O5'-C5'	5.08	129.02	120.90
85	AA	807	A	C3'-C2'-C1'	-5.08	97.44	101.50
85	AA	1225	C	C5'-C4'-C3'	-5.08	107.88	116.00
85	AA	1999	C	P-O3'-C3'	-5.08	113.61	119.70
85	AA	2059	A	C1'-O4'-C4'	-5.08	105.84	109.90
23	AP	226	TYR	CB-CG-CD2	-5.08	117.95	121.00
34	BA	548	G	C1'-O4'-C4'	5.08	113.96	109.90
34	BA	636	G	OP2-P-O3'	5.08	116.36	105.20
34	BA	1553	G	O4'-C1'-N9	5.08	112.26	108.20
35	BB	609	G	C1'-O4'-C4'	-5.08	105.84	109.90
35	BB	694	C	C6-N1-C2	-5.08	118.27	120.30
35	BB	716	G	N3-C4-C5	-5.08	126.06	128.60
35	BB	1076	U	P-O5'-C5'	-5.08	112.78	120.90
35	BB	1263	A	C6-N1-C2	-5.08	115.56	118.60
35	BB	1272	G	N1-C2-N2	-5.08	111.63	116.20
35	BB	1314	G	O5'-C5'-C4'	-5.08	102.06	111.70
35	BB	1347	C	N1-C2-N3	5.08	122.75	119.20
36	BC	9	G	C5-C6-N1	5.08	114.04	111.50
40	BG	161	C	C6-N1-C2	-5.08	118.27	120.30
44	BK	69	ARG	CD-NE-CZ	-5.08	116.49	123.60
53	BT	120	TYR	CA-CB-CG	5.08	123.04	113.40
53	BT	190	ARG	NE-CZ-NH1	5.08	122.84	120.30
77	Br	368	ALA	CB-CA-C	5.08	117.71	110.10
85	AA	336	C	O4'-C1'-N1	5.08	112.26	108.20
85	AA	1291	A	C5-C6-N6	5.08	127.76	123.70
85	AA	1684	U	C4'-C3'-C2'	-5.08	97.53	102.60
85	AA	1692	U	C2-N1-C1'	-5.08	111.61	117.70
85	AA	1967	A	P-O5'-C5'	5.08	129.02	120.90
85	AA	2082	C	C4-C5-C6	5.08	119.94	117.40
85	AA	2162	G	P-O3'-C3'	-5.08	113.61	119.70
85	AA	2193	A	P-O5'-C5'	-5.08	112.78	120.90
85	AA	2195	A	C3'-C2'-C1'	-5.08	97.44	101.50
15	AG	10	GLY	N-CA-C	-5.07	100.42	113.10
15	AG	123	HIS	CB-CA-C	-5.07	100.25	110.40
34	BA	644	C	O5'-P-OP2	5.07	116.79	110.70
34	BA	803	U	P-O5'-C5'	-5.07	112.78	120.90
34	BA	1039	G	C1'-O4'-C4'	-5.07	105.84	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1145	U	C2-N3-C4	-5.07	123.95	127.00
34	BA	1634	A	N9-C1'-C2'	5.07	120.60	114.00
34	BA	1713	U	C5'-C4'-C3'	5.07	124.12	116.00
35	BB	8	U	O5'-C5'-C4'	-5.07	102.06	111.70
35	BB	428	G	P-O5'-C5'	5.07	129.02	120.90
35	BB	486	G	O4'-C1'-C2'	5.07	112.17	107.60
35	BB	653	G	N9-C4-C5	5.07	107.43	105.40
35	BB	682	U	C3'-C2'-C1'	-5.07	97.44	101.50
35	BB	1074	U	N3-C2-O2	-5.07	118.65	122.20
35	BB	1266	A	C1'-O4'-C4'	-5.07	105.84	109.90
36	BC	100	U	N3-C2-O2	-5.07	118.65	122.20
37	BD	1	G	C2-N3-C4	5.07	114.44	111.90
37	BD	94	C	N3-C4-N4	5.07	121.55	118.00
38	BE	6	A	OP2-P-O3'	5.07	116.36	105.20
38	BE	10	G	C5-C6-N1	-5.07	108.96	111.50
39	BF	1	C	C6-N1-C2	-5.07	118.27	120.30
41	BH	28	U	C4'-C3'-C2'	5.07	107.67	102.60
80	Bu	299	VAL	N-CA-C	-5.07	97.30	111.00
81	Bv	80	TYR	CA-CB-CG	-5.07	103.76	113.40
85	AA	12	U	C2-N1-C1'	-5.07	111.61	117.70
85	AA	24	U	C6-N1-C1'	5.07	128.30	121.20
85	AA	146	U	C5-C6-N1	-5.07	120.16	122.70
85	AA	168	A	C3'-C2'-C1'	-5.07	97.44	101.50
85	AA	1065	G	O4'-C1'-N9	5.07	112.26	108.20
85	AA	1143	C	O5'-C5'-C4'	-5.07	102.06	111.70
85	AA	1207	C	O4'-C4'-C3'	5.07	110.16	106.10
85	AA	1668	G	O4'-C1'-N9	5.07	112.26	108.20
85	AA	2188	C	C5'-C4'-O4'	5.07	115.19	109.10
85	AA	2211	G	O4'-C1'-N9	5.07	112.26	108.20
5	A4	94	ASN	CA-CB-CG	-5.07	102.24	113.40
34	BA	771	A	OP1-P-OP2	-5.07	111.99	119.60
34	BA	1054	U	C6-N1-C1'	5.07	128.30	121.20
35	BB	718	G	C4-N9-C1'	-5.07	119.91	126.50
35	BB	1490	G	P-O5'-C5'	5.07	129.02	120.90
57	BX	51	ARG	NE-CZ-NH1	5.07	122.84	120.30
66	Bg	107	GLY	C-N-CA	5.07	134.38	121.70
85	AA	35	U	O5'-C5'-C4'	-5.07	102.06	111.70
85	AA	2045	U	C5'-C4'-C3'	-5.07	107.88	116.00
86	AB	48	C	C5'-C4'-O4'	5.07	115.19	109.10
22	AO	111	ARG	CB-CA-C	-5.07	100.26	110.40
34	BA	229	C	C5'-C4'-C3'	-5.07	107.89	116.00
34	BA	351	A	C6-N1-C2	-5.07	115.56	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	397	A	P-O5'-C5'	-5.07	112.79	120.90
34	BA	483	A	O4'-C1'-C2'	-5.07	100.73	105.80
34	BA	571	G	C3'-C2'-C1'	5.07	105.56	101.50
34	BA	670	U	P-O3'-C3'	-5.07	113.62	119.70
34	BA	812	A	C1'-O4'-C4'	-5.07	105.84	109.90
34	BA	870	C	P-O3'-C3'	-5.07	113.61	119.70
34	BA	909	G	C4-C5-C6	-5.07	115.76	118.80
34	BA	1240	G	O3'-P-O5'	-5.07	94.36	104.00
34	BA	1717	C	C5'-C4'-C3'	-5.07	107.89	116.00
35	BB	561	C	O4'-C4'-C3'	-5.07	98.93	104.00
35	BB	753	A	C1'-O4'-C4'	-5.07	105.84	109.90
35	BB	835	C	C4'-C3'-O3'	-5.07	98.75	109.40
35	BB	1387	C	N1-C2-N3	5.07	122.75	119.20
36	BC	155	C	C6-N1-C2	5.07	122.33	120.30
37	BD	70	C	C3'-C2'-C1'	-5.07	97.44	101.50
41	BH	48	G	N7-C8-N9	5.07	115.64	113.10
41	BH	121	A	C5-N7-C8	-5.07	101.36	103.90
47	BN	124	TYR	CB-CG-CD2	-5.07	117.96	121.00
50	BQ	89	LYS	CB-CA-C	-5.07	100.26	110.40
67	Bh	126	ARG	NE-CZ-NH1	5.07	122.83	120.30
85	AA	308	U	O4'-C4'-C3'	-5.07	98.93	104.00
85	AA	863	C	C6-N1-C2	-5.07	118.27	120.30
85	AA	1483	A	C4-N9-C1'	-5.07	117.17	126.30
85	AA	1973	G	C8-N9-C1'	5.07	133.59	127.00
8	A7	206	PRO	C-N-CA	5.07	134.37	121.70
25	AR	47	ASN	C-N-CA	-5.07	111.66	122.30
34	BA	550	U	N3-C2-O2	-5.07	118.65	122.20
34	BA	910	U	C5-C6-N1	-5.07	120.17	122.70
35	BB	366	G	P-O3'-C3'	-5.07	113.62	119.70
35	BB	703	U	C2-N1-C1'	-5.07	111.62	117.70
35	BB	1154	C	N1-C2-O2	5.07	121.94	118.90
36	BC	88	A	OP1-P-O3'	5.07	116.35	105.20
40	BG	137	G	C6-N1-C2	-5.07	122.06	125.10
41	BH	69	C	N3-C2-O2	-5.07	118.35	121.90
62	Bc	18	PHE	CB-CG-CD1	5.07	124.35	120.80
85	AA	74	U	O4'-C1'-N1	5.07	112.26	108.20
85	AA	735	G	O4'-C1'-N9	5.07	112.26	108.20
85	AA	1627	U	O4'-C1'-N1	5.07	112.25	108.20
11	AC	240	TYR	CB-CG-CD1	-5.07	117.96	121.00
34	BA	136	A	C2'-C3'-O3'	5.07	121.81	113.70
34	BA	1426	A	OP2-P-O3'	5.07	116.35	105.20
35	BB	522	A	P-O3'-C3'	-5.07	113.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	778	A	C4-N9-C1'	-5.07	117.18	126.30
35	BB	1003	G	N1-C2-N3	5.07	126.94	123.90
35	BB	1156	U	C5'-C4'-C3'	-5.07	107.89	116.00
35	BB	1452	U	C2-N3-C4	-5.07	123.96	127.00
38	BE	48	G	OP1-P-O3'	5.07	116.35	105.20
39	BF	56	C	N1-C2-N3	-5.07	115.65	119.20
85	AA	121	C	O3'-P-O5'	5.07	113.63	104.00
85	AA	166	C	C5'-C4'-C3'	5.07	124.11	116.00
85	AA	686	U	C1'-O4'-C4'	-5.07	105.85	109.90
85	AA	1372	C	C2-N1-C1'	-5.07	113.23	118.80
85	AA	1648	G	O3'-P-O5'	-5.07	94.37	104.00
85	AA	1674	G	P-O3'-C3'	-5.07	113.62	119.70
85	AA	1841	G	N3-C4-C5	-5.07	126.07	128.60
85	AA	1882	U	O5'-C5'-C4'	-5.07	102.07	111.70
2	A1	206	ARG	CG-CD-NE	-5.07	101.16	111.80
12	AD	15	ARG	NE-CZ-NH1	5.07	122.83	120.30
34	BA	281	C	OP2-P-O3'	5.07	116.35	105.20
34	BA	329	G	N3-C4-C5	-5.07	126.07	128.60
34	BA	768	G	C4'-C3'-C2'	-5.07	97.53	102.60
34	BA	1042	U	OP1-P-OP2	-5.07	112.00	119.60
34	BA	1307	U	OP2-P-O3'	5.07	116.34	105.20
34	BA	1693	U	C4'-C3'-C2'	5.07	107.67	102.60
35	BB	129	U	C5-C4-O4	-5.07	122.86	125.90
35	BB	130	G	N1-C2-N2	-5.07	111.64	116.20
35	BB	497	C	C4'-C3'-C2'	5.07	107.67	102.60
35	BB	1193	G	N9-C1'-C2'	-5.07	106.43	112.00
35	BB	1312	U	C6-N1-C2	5.07	124.04	121.00
39	BF	7	G	C3'-C2'-C1'	-5.07	97.45	101.50
39	BF	65	U	O4'-C1'-N1	-5.07	104.15	108.20
39	BF	70	A	O4'-C4'-C3'	-5.07	98.93	104.00
41	BH	64	U	O3'-P-O5'	-5.07	94.38	104.00
77	Br	209	VAL	CA-CB-CG2	-5.07	103.30	110.90
82	Bw	177	LYS	N-CA-CB	5.07	119.72	110.60
85	AA	127	U	O4'-C4'-C3'	-5.07	98.94	104.00
85	AA	369	A	C4-C5-C6	-5.07	114.47	117.00
85	AA	424	A	C5'-C4'-C3'	5.07	124.10	116.00
85	AA	534	A	P-O5'-C5'	-5.07	112.79	120.90
85	AA	862	U	C4'-C3'-O3'	-5.07	98.76	109.40
85	AA	926	C	O3'-P-O5'	5.07	113.62	104.00
85	AA	1067	G	N1-C6-O6	-5.07	116.86	119.90
85	AA	1552	U	P-O3'-C3'	-5.07	113.62	119.70
34	BA	513	U	C5'-C4'-O4'	5.06	115.18	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	762	A	C8-N9-C4	5.06	107.83	105.80
35	BB	558	U	P-O3'-C3'	-5.06	113.62	119.70
35	BB	805	G	C6-N1-C2	-5.06	122.06	125.10
35	BB	1205	A	C4'-C3'-C2'	-5.06	97.54	102.60
38	BE	10	G	C1'-O4'-C4'	-5.06	105.85	109.90
85	AA	492	C	N1-C2-O2	5.06	121.94	118.90
85	AA	788	G	N1-C6-O6	-5.06	116.86	119.90
85	AA	1810	C	O4'-C4'-C3'	-5.06	98.94	104.00
85	AA	1828	C	O4'-C1'-N1	5.06	112.25	108.20
85	AA	1887	G	C4-N9-C1'	-5.06	119.92	126.50
85	AA	2084	U	C5'-C4'-O4'	5.06	115.18	109.10
9	A8	26	SER	C-N-CA	5.06	134.35	121.70
34	BA	4	A	C3'-C2'-C1'	-5.06	97.45	101.50
34	BA	72	U	C5'-C4'-O4'	5.06	115.17	109.10
34	BA	194	G	C8-N9-C1'	5.06	133.58	127.00
34	BA	374	U	O5'-C5'-C4'	-5.06	102.08	111.70
34	BA	383	G	C5'-C4'-O4'	5.06	115.18	109.10
34	BA	403	A	C8-N9-C4	5.06	107.83	105.80
34	BA	696	A	C6-N1-C2	-5.06	115.56	118.60
34	BA	740	A	C5'-C4'-C3'	5.06	124.10	116.00
34	BA	1215	U	O4'-C1'-C2'	5.06	112.16	107.60
34	BA	1221	A	C5'-C4'-O4'	-5.06	103.03	109.10
34	BA	1270	G	O4'-C1'-C2'	5.06	112.16	107.60
35	BB	130	G	C8-N9-C1'	5.06	133.58	127.00
35	BB	404	A	C5'-C4'-O4'	-5.06	103.03	109.10
35	BB	418	G	C4-N9-C1'	-5.06	119.92	126.50
35	BB	503	G	O4'-C1'-N9	5.06	112.25	108.20
35	BB	557	C	N3-C4-N4	-5.06	114.46	118.00
35	BB	614	U	N1-C2-O2	5.06	126.34	122.80
35	BB	1019	C	C2-N3-C4	-5.06	117.37	119.90
35	BB	1235	A	O5'-P-OP1	-5.06	101.14	105.70
35	BB	1313	C	C4'-C3'-C2'	5.06	107.66	102.60
35	BB	1463	A	O4'-C1'-N9	5.06	112.25	108.20
35	BB	1543	C	P-O3'-C3'	-5.06	113.62	119.70
36	BC	38	U	C5-C6-N1	-5.06	120.17	122.70
38	BE	196	C	P-O3'-C3'	5.06	125.78	119.70
38	BE	198	A	N7-C8-N9	-5.06	111.27	113.80
40	BG	94	G	C6-N1-C2	5.06	128.14	125.10
77	Br	308	LYS	C-N-CA	5.06	134.35	121.70
85	AA	106	G	C1'-O4'-C4'	-5.06	105.85	109.90
85	AA	361	U	N3-C2-O2	-5.06	118.66	122.20
85	AA	740	A	N1-C2-N3	5.06	131.83	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1270	C	C4'-C3'-C2'	-5.06	97.54	102.60
85	AA	1295	G	C3'-C2'-C1'	-5.06	97.45	101.50
85	AA	1388	G	O4'-C1'-N9	5.06	112.25	108.20
85	AA	1463	A	C5-C6-N1	5.06	120.23	117.70
85	AA	1954	C	C5-C6-N1	5.06	123.53	121.00
86	AB	4	C	N1-C2-O2	-5.06	115.86	118.90
34	BA	13	U	O5'-C5'-C4'	-5.06	102.08	111.70
34	BA	202	A	C6-N1-C2	5.06	121.64	118.60
34	BA	339	G	C5-C6-N1	5.06	114.03	111.50
34	BA	341	U	P-O3'-C3'	-5.06	113.63	119.70
34	BA	348	U	C5-C6-N1	-5.06	120.17	122.70
34	BA	936	A	C8-N9-C4	5.06	107.82	105.80
34	BA	1622	U	O4'-C4'-C3'	-5.06	98.94	104.00
34	BA	1729	G	C5'-C4'-C3'	5.06	124.10	116.00
35	BB	1065	G	C4-N9-C1'	5.06	133.08	126.50
35	BB	1486	C	C6-N1-C1'	5.06	126.87	120.80
35	BB	1542	C	N3-C2-O2	-5.06	118.36	121.90
49	BP	168	ARG	NE-CZ-NH2	5.06	122.83	120.30
50	BQ	88	ARG	CG-CD-NE	-5.06	101.17	111.80
85	AA	396	U	C4'-C3'-C2'	5.06	107.66	102.60
85	AA	1302	A	C8-N9-C4	-5.06	103.78	105.80
85	AA	1469	G	C2'-C3'-O3'	5.06	121.80	113.70
85	AA	1766	G	P-O3'-C3'	-5.06	113.63	119.70
85	AA	1962	U	O4'-C1'-N1	5.06	112.25	108.20
1	A0	88	PHE	CA-CB-CG	-5.06	101.76	113.90
34	BA	283	U	C5-C4-O4	5.06	128.94	125.90
34	BA	711	C	O5'-C5'-C4'	5.06	121.31	111.70
34	BA	866	C	C6-N1-C2	-5.06	118.28	120.30
34	BA	892	C	O4'-C1'-C2'	5.06	112.15	107.60
34	BA	1562	G	N3-C2-N2	5.06	123.44	119.90
36	BC	146	U	C2-N1-C1'	-5.06	111.63	117.70
52	BS	114	SER	CB-CA-C	-5.06	100.49	110.10
85	AA	112	A	C4'-C3'-O3'	-5.06	98.77	109.40
85	AA	167	A	C4'-C3'-C2'	-5.06	97.54	102.60
85	AA	889	G	O3'-P-O5'	5.06	113.61	104.00
85	AA	906	U	P-O3'-C3'	5.06	125.77	119.70
85	AA	926	C	C1'-O4'-C4'	-5.06	105.85	109.90
85	AA	1228	A	C1'-O4'-C4'	-5.06	105.85	109.90
85	AA	1240	A	N9-C4-C5	-5.06	103.78	105.80
85	AA	2156	C	O4'-C1'-N1	5.06	112.25	108.20
85	AA	2210	C	N1-C2-N3	5.06	122.74	119.20
3	A2	54	ILE	N-CA-CB	-5.06	99.17	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	A6	15	ARG	N-CA-C	5.06	124.65	111.00
13	AE	51	SER	N-CA-C	-5.06	97.34	111.00
14	AF	114	SER	N-CA-CB	5.06	118.09	110.50
34	BA	39	C	C4'-C3'-C2'	5.06	107.66	102.60
34	BA	104	A	P-O5'-C5'	-5.06	112.81	120.90
34	BA	156	U	C2'-C3'-O3'	5.06	121.79	113.70
34	BA	196	A	N1-C6-N6	5.06	121.63	118.60
34	BA	591	G	C4-C5-C6	-5.06	115.77	118.80
34	BA	661	C	N3-C2-O2	-5.06	118.36	121.90
34	BA	810	A	C8-N9-C1'	5.06	136.80	127.70
34	BA	847	U	P-O3'-C3'	5.06	125.77	119.70
34	BA	1612	C	C2'-C3'-O3'	5.06	121.79	113.70
35	BB	7	C	C6-N1-C1'	5.06	126.87	120.80
35	BB	822	G	C4'-C3'-O3'	5.06	123.11	113.00
35	BB	998	G	N1-C2-N2	-5.06	111.65	116.20
35	BB	1434	G	N1-C6-O6	5.06	122.93	119.90
35	BB	1454	G	O4'-C4'-C3'	-5.06	98.94	104.00
37	BD	65	G	C1'-O4'-C4'	-5.06	105.86	109.90
41	BH	30	C	C3'-C2'-C1'	5.06	105.55	101.50
50	BQ	79	PHE	CB-CG-CD1	-5.06	117.26	120.80
54	BU	65	TRP	CB-CG-CD1	5.06	133.57	127.00
58	BY	70	ARG	NE-CZ-NH1	5.06	122.83	120.30
60	Ba	35	ARG	N-CA-C	-5.06	97.34	111.00
69	Bj	145	ALA	C-N-CA	5.06	134.34	121.70
71	Bl	62	ARG	N-CA-CB	5.06	119.70	110.60
85	AA	5	U	P-O5'-C5'	5.06	128.99	120.90
85	AA	79	G	C5-C6-O6	-5.06	125.57	128.60
85	AA	702	G	N3-C2-N2	5.06	123.44	119.90
85	AA	716	G	C1'-O4'-C4'	-5.06	105.86	109.90
85	AA	1272	G	C4'-C3'-C2'	-5.06	97.54	102.60
85	AA	1325	C	O4'-C1'-N1	5.06	112.25	108.20
34	BA	56	G	C5-C6-N1	5.06	114.03	111.50
34	BA	575	U	O5'-C5'-C4'	5.06	121.31	111.70
34	BA	578	C	C2'-C3'-O3'	5.06	121.79	113.70
34	BA	591	G	C8-N9-C4	5.06	108.42	106.40
34	BA	626	G	N9-C1'-C2'	-5.06	106.44	112.00
34	BA	757	G	O4'-C1'-N9	5.06	112.25	108.20
34	BA	1776	G	N9-C1'-C2'	-5.06	106.44	112.00
35	BB	1485	G	C3'-C2'-C1'	-5.06	97.45	101.50
54	BU	18	LYS	N-CA-C	5.06	124.65	111.00
65	Bf	382	LEU	CB-CA-C	-5.06	100.59	110.20
85	AA	35	U	O4'-C1'-N1	5.06	112.25	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	487	G	O3'-P-O5'	5.06	113.61	104.00
85	AA	1782	C	O4'-C1'-N1	5.06	112.25	108.20
85	AA	2043	A	N1-C6-N6	5.06	121.63	118.60
86	AB	36	A	O3'-P-O5'	-5.06	94.39	104.00
34	BA	292	C	C5'-C4'-C3'	-5.05	107.91	116.00
34	BA	400	A	C5'-C4'-O4'	5.05	115.17	109.10
34	BA	462	C	C5'-C4'-C3'	-5.05	107.91	116.00
34	BA	663	U	P-O5'-C5'	5.05	128.99	120.90
34	BA	690	G	O3'-P-O5'	5.05	113.60	104.00
34	BA	1026	C	C2-N3-C4	-5.05	117.37	119.90
34	BA	1074	C	OP1-P-OP2	-5.05	112.02	119.60
34	BA	1122	G	C1'-O4'-C4'	-5.05	105.86	109.90
34	BA	1305	A	C8-N9-C4	-5.05	103.78	105.80
35	BB	1356	G	N3-C4-N9	5.05	129.03	126.00
36	BC	15	G	C8-N9-C4	5.05	108.42	106.40
38	BE	204	U	P-O3'-C3'	-5.05	113.64	119.70
40	BG	73	U	C4'-C3'-C2'	5.05	107.65	102.60
41	BH	47	G	P-O5'-C5'	-5.05	112.81	120.90
77	Br	315	GLN	CB-CG-CD	-5.05	98.46	111.60
82	Bw	103	ARG	NE-CZ-NH1	5.05	122.83	120.30
85	AA	88	G	C4'-C3'-C2'	-5.05	97.55	102.60
85	AA	890	U	O3'-P-O5'	5.05	113.60	104.00
85	AA	1458	G	C1'-O4'-C4'	-5.05	105.86	109.90
85	AA	1848	G	N1-C6-O6	5.05	122.93	119.90
85	AA	2073	U	C5-C4-O4	5.05	128.93	125.90
34	BA	1428	G	C1'-O4'-C4'	-5.05	105.86	109.90
35	BB	38	C	C5'-C4'-O4'	5.05	115.16	109.10
35	BB	851	U	OP2-P-O3'	5.05	116.32	105.20
35	BB	1042	U	N1-C1'-C2'	-5.05	106.44	112.00
35	BB	1522	G	C4-N9-C1'	-5.05	119.93	126.50
85	AA	344	U	O5'-C5'-C4'	5.05	121.30	111.70
85	AA	627	A	C8-N9-C4	5.05	107.82	105.80
85	AA	788	G	O5'-C5'-C4'	-5.05	102.10	111.70
85	AA	884	A	C4'-C3'-C2'	-5.05	97.55	102.60
85	AA	1594	G	C3'-C2'-C1'	-5.05	97.46	101.50
85	AA	1621	U	P-O5'-C5'	5.05	128.99	120.90
85	AA	1865	C	N3-C2-O2	-5.05	118.36	121.90
85	AA	2154	C	C6-N1-C2	-5.05	118.28	120.30
1	A0	106	ASP	CB-CA-C	5.05	120.50	110.40
34	BA	74	A	C5'-C4'-O4'	5.05	115.16	109.10
34	BA	201	A	C5'-C4'-O4'	5.05	115.16	109.10
34	BA	470	C	O5'-P-OP1	5.05	116.76	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	498	A	C4-N9-C1'	-5.05	117.21	126.30
34	BA	997	U	N3-C4-O4	-5.05	115.86	119.40
34	BA	1119	A	C6-N1-C2	-5.05	115.57	118.60
34	BA	1133	A	C5-C6-N6	-5.05	119.66	123.70
34	BA	1626	U	O4'-C1'-N1	5.05	112.24	108.20
34	BA	1811	A	OP1-P-O3'	5.05	116.31	105.20
35	BB	683	U	N3-C2-O2	-5.05	118.66	122.20
35	BB	1040	C	C5'-C4'-C3'	5.05	124.08	116.00
35	BB	1051	U	C2-N1-C1'	-5.05	111.64	117.70
35	BB	1254	G	C8-N9-C4	5.05	108.42	106.40
35	BB	1372	G	C5-C6-N1	5.05	114.03	111.50
35	BB	1493	A	P-O3'-C3'	-5.05	113.64	119.70
38	BE	105	A	P-O5'-C5'	-5.05	112.82	120.90
40	BG	34	A	C1'-O4'-C4'	-5.05	105.86	109.90
41	BH	18	C	C5-C6-N1	-5.05	118.47	121.00
41	BH	97	C	O3'-P-O5'	-5.05	94.40	104.00
41	BH	98	U	C3'-C2'-C1'	-5.05	97.46	101.50
48	BO	143	GLN	CB-CA-C	5.05	120.50	110.40
48	BO	166	TRP	CA-CB-CG	-5.05	104.10	113.70
62	Bc	66	SER	N-CA-CB	5.05	118.08	110.50
75	Bp	72	ARG	NE-CZ-NH1	5.05	122.83	120.30
85	AA	367	A	C8-N9-C4	-5.05	103.78	105.80
85	AA	740	A	N7-C8-N9	5.05	116.33	113.80
85	AA	819	G	C6-C5-N7	-5.05	127.37	130.40
85	AA	1199	C	N3-C2-O2	-5.05	118.36	121.90
85	AA	1228	A	C5-N7-C8	-5.05	101.37	103.90
85	AA	1256	C	O4'-C1'-N1	5.05	112.24	108.20
85	AA	1600	G	O4'-C1'-N9	5.05	112.24	108.20
85	AA	1673	A	C4-N9-C1'	-5.05	117.21	126.30
85	AA	1906	C	C3'-C2'-C1'	-5.05	97.46	101.50
2	A1	54	ASN	CA-CB-CG	5.05	124.51	113.40
34	BA	149	G	C5'-C4'-C3'	-5.05	107.92	116.00
34	BA	809	U	C5-C6-N1	-5.05	120.17	122.70
34	BA	1123	G	C8-N9-C4	-5.05	104.38	106.40
34	BA	1488	C	P-O3'-C3'	-5.05	113.64	119.70
35	BB	387	G	C3'-C2'-C1'	-5.05	97.46	101.50
35	BB	830	G	C4-N9-C1'	-5.05	119.94	126.50
35	BB	1543	C	N3-C2-O2	-5.05	118.37	121.90
37	BD	3	G	C1'-O4'-C4'	-5.05	105.86	109.90
38	BE	89	G	N1-C2-N2	-5.05	111.66	116.20
79	Bt	80	ILE	CA-CB-CG1	-5.05	101.41	111.00
85	AA	47	A	C6-C5-N7	-5.05	128.77	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	67	C	N3-C4-C5	-5.05	119.88	121.90
85	AA	70	U	C1'-O4'-C4'	-5.05	105.86	109.90
85	AA	141	A	N1-C2-N3	-5.05	126.78	129.30
85	AA	455	G	C5'-C4'-O4'	5.05	115.16	109.10
85	AA	511	A	C5'-C4'-C3'	-5.05	107.92	116.00
85	AA	864	C	C5'-C4'-C3'	-5.05	107.92	116.00
85	AA	880	A	N1-C6-N6	-5.05	115.57	118.60
85	AA	1091	C	N3-C4-N4	5.05	121.53	118.00
85	AA	1355	U	C1'-O4'-C4'	5.05	113.94	109.90
85	AA	1884	A	C1'-O4'-C4'	-5.05	105.86	109.90
85	AA	2174	G	C4-N9-C1'	-5.05	119.94	126.50
4	A3	163	ARG	CG-CD-NE	-5.05	101.20	111.80
34	BA	429	G	C2'-C3'-O3'	5.05	121.78	113.70
34	BA	1233	U	C6-N1-C1'	5.05	128.27	121.20
35	BB	364	U	P-O3'-C3'	-5.05	113.64	119.70
35	BB	538	A	O5'-C5'-C4'	-5.05	102.11	111.70
35	BB	829	C	N1-C2-O2	5.05	121.93	118.90
35	BB	838	G	N3-C2-N2	5.05	123.43	119.90
35	BB	889	U	C5'-C4'-C3'	-5.05	107.92	116.00
35	BB	916	U	C2-N1-C1'	5.05	123.76	117.70
35	BB	1414	A	C8-N9-C4	5.05	107.82	105.80
38	BE	18	U	N3-C2-O2	-5.05	118.67	122.20
38	BE	169	C	C2'-C3'-O3'	5.05	121.78	113.70
39	BF	45	G	N9-C1'-C2'	-5.05	106.45	112.00
63	Bd	58	ALA	CA-C-O	5.05	130.70	120.10
85	AA	30	G	O4'-C1'-N9	5.05	112.24	108.20
85	AA	525	C	C3'-C2'-C1'	-5.05	97.46	101.50
85	AA	1016	G	O4'-C1'-N9	5.05	112.24	108.20
85	AA	2208	G	C1'-O4'-C4'	-5.05	105.86	109.90
34	BA	709	C	C5'-C4'-O4'	5.05	115.16	109.10
34	BA	1113	A	C6-N1-C2	-5.05	115.57	118.60
34	BA	1602	A	N1-C6-N6	5.05	121.63	118.60
34	BA	1718	C	C5'-C4'-C3'	5.05	124.08	116.00
34	BA	1735	G	N1-C2-N3	-5.05	120.87	123.90
35	BB	47	C	P-O3'-C3'	5.05	125.76	119.70
35	BB	579	A	O4'-C1'-N9	5.05	112.24	108.20
35	BB	822	G	C4'-C3'-C2'	5.05	107.65	102.60
35	BB	1048	A	N7-C8-N9	-5.05	111.28	113.80
35	BB	1157	G	C5-C6-N1	5.05	114.02	111.50
35	BB	1209	A	P-O5'-C5'	5.05	128.98	120.90
35	BB	1532	C	C6-N1-C1'	5.05	126.86	120.80
36	BC	28	C	C2-N1-C1'	5.05	124.35	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	58	G	C8-N9-C1'	5.05	133.56	127.00
36	BC	113	G	C3'-C2'-C1'	-5.05	97.46	101.50
36	BC	127	C	N1-C2-O2	5.05	121.93	118.90
38	BE	162	U	C6-N1-C1'	5.05	128.26	121.20
65	Bf	265	PHE	CA-CB-CG	-5.05	101.79	113.90
81	Bv	179	PHE	N-CA-C	-5.05	97.37	111.00
85	AA	63	G	C5'-C4'-O4'	5.05	115.16	109.10
85	AA	226	C	O4'-C1'-N1	5.05	112.24	108.20
85	AA	261	U	O4'-C1'-N1	5.05	112.24	108.20
85	AA	455	G	N3-C4-N9	-5.05	122.97	126.00
85	AA	844	C	C2-N1-C1'	5.05	124.35	118.80
85	AA	937	G	C3'-C2'-C1'	-5.05	97.46	101.50
85	AA	1612	C	N3-C4-N4	5.05	121.53	118.00
85	AA	1666	U	O5'-C5'-C4'	-5.05	102.11	111.70
85	AA	1876	U	C6-N1-C2	-5.05	117.97	121.00
85	AA	2066	C	C5'-C4'-C3'	5.05	124.07	116.00
85	AA	2135	A	P-O3'-C3'	5.05	125.75	119.70
31	AX	66	ARG	N-CA-CB	-5.04	101.52	110.60
34	BA	649	A	C5-C6-N6	-5.04	119.66	123.70
34	BA	1315	C	N1-C1'-C2'	-5.04	106.45	112.00
35	BB	458	U	C3'-C2'-C1'	-5.04	97.46	101.50
35	BB	533	U	C2-N3-C4	-5.04	123.97	127.00
35	BB	901	U	P-O3'-C3'	-5.04	113.65	119.70
35	BB	1364	C	O4'-C1'-N1	5.04	112.24	108.20
80	Bu	118	LYS	CA-CB-CG	5.04	124.50	113.40
85	AA	25	C	C2'-C3'-O3'	5.04	121.77	113.70
85	AA	34	G	O4'-C1'-N9	5.04	112.24	108.20
85	AA	243	A	P-O5'-C5'	-5.04	112.83	120.90
85	AA	694	A	C4'-C3'-C2'	5.04	107.64	102.60
85	AA	869	A	O4'-C1'-N9	-5.04	104.16	108.20
85	AA	1471	G	N1-C6-O6	5.04	122.93	119.90
85	AA	1820	G	N1-C6-O6	5.04	122.93	119.90
85	AA	1981	A	C4'-C3'-C2'	-5.04	97.56	102.60
21	AM	27	VAL	CA-CB-CG1	5.04	118.47	110.90
34	BA	191	G	C5-C6-N1	5.04	114.02	111.50
34	BA	630	U	P-O5'-C5'	5.04	128.97	120.90
34	BA	1050	A	C5'-C4'-C3'	5.04	124.07	116.00
34	BA	1130	U	C4'-C3'-C2'	-5.04	97.56	102.60
34	BA	1433	U	OP1-P-O3'	5.04	116.29	105.20
34	BA	1498	A	O3'-P-O5'	-5.04	94.42	104.00
34	BA	1500	G	N1-C6-O6	-5.04	116.87	119.90
35	BB	25	A	C4-C5-C6	-5.04	114.48	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	123	U	C2-N3-C4	-5.04	123.97	127.00
35	BB	314	A	P-O5'-C5'	-5.04	112.83	120.90
35	BB	409	U	O5'-C5'-C4'	-5.04	102.12	111.70
35	BB	1446	C	C2-N3-C4	-5.04	117.38	119.90
36	BC	9	G	N9-C1'-C2'	-5.04	106.45	112.00
37	BD	98	G	P-O5'-C5'	-5.04	112.83	120.90
38	BE	113	C	C2'-C3'-O3'	5.04	121.77	113.70
40	BG	132	U	C4'-C3'-C2'	-5.04	97.56	102.60
40	BG	139	U	C6-N1-C2	-5.04	117.97	121.00
45	BL	67	ARG	NE-CZ-NH2	-5.04	117.78	120.30
51	BR	56	ARG	CD-NE-CZ	5.04	130.66	123.60
73	Bn	34	CYS	N-CA-C	-5.04	97.39	111.00
85	AA	87	C	C2'-C3'-O3'	5.04	121.77	113.70
85	AA	247	G	C8-N9-C1'	5.04	133.56	127.00
85	AA	308	U	O5'-C5'-C4'	5.04	121.28	111.70
85	AA	636	G	N3-C2-N2	5.04	123.43	119.90
85	AA	773	G	N3-C2-N2	-5.04	116.37	119.90
85	AA	1341	U	O4'-C1'-N1	5.04	112.23	108.20
85	AA	1376	U	C6-N1-C2	-5.04	117.97	121.00
7	A6	17	PRO	N-CA-C	5.04	125.21	112.10
17	AI	121	HIS	CA-CB-CG	-5.04	105.03	113.60
34	BA	338	U	O4'-C1'-N1	5.04	112.23	108.20
34	BA	527	C	N1-C1'-C2'	-5.04	106.45	112.00
34	BA	697	A	O3'-P-O5'	5.04	113.58	104.00
34	BA	1294	C	C5'-C4'-C3'	-5.04	107.94	116.00
34	BA	1428	G	N9-C1'-C2'	-5.04	106.45	112.00
34	BA	1591	G	C2'-C3'-O3'	5.04	121.77	113.70
34	BA	1615	A	C3'-C2'-C1'	-5.04	97.47	101.50
34	BA	1617	U	N3-C2-O2	-5.04	118.67	122.20
35	BB	38	C	C5-C4-N4	5.04	123.73	120.20
35	BB	393	A	C4-N9-C1'	-5.04	117.23	126.30
35	BB	565	U	C6-N1-C1'	-5.04	114.14	121.20
35	BB	853	U	P-O5'-C5'	-5.04	112.83	120.90
37	BD	91	U	C4'-C3'-C2'	5.04	107.64	102.60
38	BE	196	C	C5'-C4'-C3'	5.04	124.07	116.00
45	BL	62	ARG	N-CA-CB	5.04	119.67	110.60
59	BZ	51	ASP	N-CA-C	5.04	124.61	111.00
80	Bu	133	ARG	CG-CD-NE	-5.04	101.22	111.80
85	AA	267	U	N3-C4-O4	5.04	122.93	119.40
85	AA	694	A	O5'-P-OP2	5.04	116.75	110.70
85	AA	1043	U	P-O3'-C3'	-5.04	113.65	119.70
85	AA	1140	G	C6-N1-C2	5.04	128.12	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1198	U	N1-C2-O2	5.04	126.33	122.80
85	AA	1517	G	C5-C6-N1	5.04	114.02	111.50
85	AA	1650	G	C4-N9-C1'	-5.04	119.95	126.50
85	AA	1913	G	O5'-C5'-C4'	-5.04	102.12	111.70
85	AA	2009	A	C8-N9-C4	-5.04	103.78	105.80
85	AA	2076	C	C5'-C4'-O4'	-5.04	103.05	109.10
85	AA	2140	U	C6-N1-C1'	5.04	128.26	121.20
34	BA	589	A	C8-N9-C1'	-5.04	118.63	127.70
34	BA	1596	C	P-O3'-C3'	5.04	125.75	119.70
35	BB	1060	U	P-O3'-C3'	5.04	125.75	119.70
37	BD	47	U	O3'-P-O5'	5.04	113.58	104.00
40	BG	70	C	P-O3'-C3'	-5.04	113.65	119.70
41	BH	113	G	P-O5'-C5'	-5.04	112.84	120.90
73	Bn	80	THR	CA-CB-CG2	-5.04	105.34	112.40
77	Br	256	GLU	N-CA-CB	-5.04	101.53	110.60
85	AA	526	G	C1'-O4'-C4'	-5.04	105.87	109.90
24	AQ	89	ARG	N-CA-C	-5.04	97.39	111.00
34	BA	95	C	C5-C4-N4	5.04	123.73	120.20
34	BA	816	G	O4'-C4'-C3'	-5.04	98.96	104.00
34	BA	954	U	C6-N1-C2	-5.04	117.98	121.00
34	BA	1287	G	C5-C6-O6	-5.04	125.58	128.60
34	BA	1840	C	C5'-C4'-O4'	5.04	115.15	109.10
35	BB	25	A	P-O5'-C5'	-5.04	112.84	120.90
35	BB	379	U	C4-C5-C6	-5.04	116.68	119.70
35	BB	640	A	O5'-P-OP1	5.04	116.75	110.70
35	BB	1054	G	N1-C6-O6	5.04	122.92	119.90
35	BB	1517	G	N3-C4-N9	-5.04	122.98	126.00
36	BC	132	U	P-O3'-C3'	-5.04	113.66	119.70
40	BG	14	G	P-O3'-C3'	5.04	125.75	119.70
41	BH	22	A	C2'-C3'-O3'	5.04	121.76	113.70
41	BH	108	U	O3'-P-O5'	-5.04	94.43	104.00
65	Bf	364	THR	CA-CB-CG2	-5.04	105.35	112.40
85	AA	37	U	P-O5'-C5'	-5.04	112.84	120.90
85	AA	147	G	N9-C1'-C2'	-5.04	106.46	112.00
85	AA	420	C	C3'-C2'-C1'	-5.04	97.47	101.50
85	AA	830	A	O3'-P-O5'	5.04	113.57	104.00
85	AA	1028	C	C1'-O4'-C4'	-5.04	105.87	109.90
85	AA	1567	C	P-O3'-C3'	-5.04	113.65	119.70
85	AA	1758	C	O4'-C1'-N1	5.04	112.23	108.20
85	AA	2184	A	O5'-C5'-C4'	-5.04	102.13	111.70
85	AA	2241	C	C6-N1-C2	-5.04	118.28	120.30
34	BA	633	G	O4'-C1'-N9	5.04	112.23	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	803	U	N3-C2-O2	-5.04	118.67	122.20
34	BA	1038	U	C3'-C2'-C1'	-5.04	97.47	101.50
34	BA	1131	G	O4'-C1'-N9	5.04	112.23	108.20
34	BA	1165	A	C3'-C2'-C1'	-5.04	97.47	101.50
34	BA	1436	A	C8-N9-C1'	5.04	136.77	127.70
34	BA	1507	C	P-O3'-C3'	5.04	125.74	119.70
34	BA	1746	G	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	77	A	N1-C6-N6	-5.04	115.58	118.60
35	BB	387	G	O4'-C1'-N9	5.04	112.23	108.20
35	BB	1091	C	N3-C2-O2	-5.04	118.37	121.90
35	BB	1542	C	O4'-C4'-C3'	-5.04	98.96	104.00
41	BH	16	A	N3-C4-N9	-5.04	123.37	127.40
41	BH	17	A	O5'-C5'-C4'	-5.04	102.13	111.70
85	AA	290	G	O4'-C1'-N9	5.04	112.23	108.20
85	AA	1371	C	C1'-O4'-C4'	-5.04	105.87	109.90
85	AA	2227	A	O4'-C1'-C2'	5.04	112.13	107.60
34	BA	216	C	C3'-C2'-C1'	-5.04	97.47	101.50
34	BA	406	G	N1-C6-O6	5.04	122.92	119.90
34	BA	422	C	O5'-C5'-C4'	-5.04	102.13	111.70
34	BA	490	A	O3'-P-O5'	5.04	113.57	104.00
34	BA	493	G	C5-C6-N1	5.04	114.02	111.50
34	BA	618	G	N3-C4-C5	-5.04	126.08	128.60
34	BA	622	G	C4-N9-C1'	-5.04	119.95	126.50
34	BA	691	A	O5'-C5'-C4'	5.04	121.27	111.70
34	BA	1034	U	N1-C2-N3	5.04	117.92	114.90
34	BA	1167	A	C2-N3-C4	-5.04	108.08	110.60
34	BA	1531	G	N1-C2-N2	-5.04	111.67	116.20
35	BB	268	G	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	504	C	N3-C2-O2	5.04	125.42	121.90
35	BB	576	A	P-O3'-C3'	-5.04	113.66	119.70
35	BB	613	C	N3-C2-O2	-5.04	118.38	121.90
35	BB	806	U	N1-C2-N3	5.04	117.92	114.90
35	BB	956	G	C5-C6-O6	-5.04	125.58	128.60
35	BB	1047	C	C4'-C3'-C2'	5.04	107.64	102.60
35	BB	1195	A	C3'-C2'-C1'	-5.04	97.47	101.50
35	BB	1202	G	O5'-C5'-C4'	5.04	121.27	111.70
35	BB	1410	G	C8-N9-C1'	-5.04	120.45	127.00
35	BB	1512	C	C5-C4-N4	-5.04	116.67	120.20
37	BD	54	A	C5-C6-N6	-5.04	119.67	123.70
38	BE	131	C	O5'-C5'-C4'	-5.04	102.13	111.70
39	BF	37	C	C1'-O4'-C4'	-5.04	105.87	109.90
40	BG	179	C	C2-N3-C4	-5.04	117.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	103	C	N1-C1'-C2'	-5.04	106.46	112.00
47	BN	158	TYR	CB-CG-CD1	-5.04	117.98	121.00
57	BX	72	VAL	N-CA-C	-5.04	97.40	111.00
65	Bf	454	LYS	CB-CG-CD	5.04	124.69	111.60
69	Bj	22	ARG	NE-CZ-NH1	5.04	122.82	120.30
85	AA	33	U	O5'-C5'-C4'	-5.04	102.13	111.70
85	AA	315	U	O4'-C4'-C3'	-5.04	98.97	104.00
85	AA	436	G	C8-N9-C1'	5.04	133.55	127.00
85	AA	617	C	C2-N1-C1'	5.04	124.34	118.80
85	AA	671	G	O4'-C1'-N9	5.04	112.23	108.20
85	AA	797	C	P-O5'-C5'	5.04	128.96	120.90
85	AA	986	U	P-O5'-C5'	5.04	128.96	120.90
85	AA	999	A	N1-C6-N6	-5.04	115.58	118.60
85	AA	1063	U	C5'-C4'-C3'	-5.04	107.94	116.00
85	AA	1155	A	C6-N1-C2	-5.04	115.58	118.60
85	AA	1538	C	P-O3'-C3'	-5.04	113.66	119.70
85	AA	2007	G	C4-C5-C6	-5.04	115.78	118.80
85	AA	2131	C	C5'-C4'-O4'	5.04	115.14	109.10
34	BA	27	G	C1'-O4'-C4'	-5.03	105.87	109.90
34	BA	345	G	N1-C6-O6	-5.03	116.88	119.90
34	BA	494	A	N9-C1'-C2'	-5.03	106.46	112.00
34	BA	754	G	OP1-P-O3'	5.03	116.27	105.20
34	BA	1251	A	C4-N9-C1'	-5.03	117.24	126.30
34	BA	1452	U	C5'-C4'-C3'	-5.03	107.95	116.00
35	BB	45	A	P-O5'-C5'	-5.03	112.84	120.90
35	BB	1038	G	C8-N9-C4	5.03	108.41	106.40
35	BB	1536	G	C4-N9-C1'	5.03	133.04	126.50
36	BC	113	G	O4'-C1'-N9	5.03	112.23	108.20
38	BE	107	U	N1-C2-N3	-5.03	111.88	114.90
40	BG	76	C	C2-N1-C1'	5.03	124.34	118.80
61	Bb	76	ASP	C-N-CA	5.03	134.29	121.70
82	Bw	26	SER	C-N-CA	5.03	134.28	121.70
85	AA	191	C	C5-C4-N4	-5.03	116.68	120.20
85	AA	244	G	O5'-C5'-C4'	-5.03	102.14	111.70
85	AA	336	C	C1'-O4'-C4'	-5.03	105.87	109.90
85	AA	427	G	N9-C1'-C2'	-5.03	106.46	112.00
85	AA	450	A	P-O3'-C3'	-5.03	113.66	119.70
85	AA	641	A	O4'-C1'-N9	5.03	112.23	108.20
85	AA	736	U	C5-C6-N1	5.03	125.22	122.70
85	AA	1429	U	C2-N1-C1'	-5.03	111.66	117.70
85	AA	1586	C	C5-C6-N1	5.03	123.52	121.00
85	AA	1887	G	N3-C2-N2	5.03	123.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	2030	U	O4'-C1'-N1	5.03	112.23	108.20
85	AA	2032	G	C5-C6-O6	-5.03	125.58	128.60
85	AA	2222	G	C5'-C4'-C3'	-5.03	107.94	116.00
16	AH	117	MET	CG-SD-CE	-5.03	92.15	100.20
34	BA	376	U	N1-C1'-C2'	-5.03	106.47	112.00
34	BA	554	A	N1-C2-N3	5.03	131.82	129.30
34	BA	1223	C	N1-C2-N3	-5.03	115.68	119.20
34	BA	1423	U	OP2-P-O3'	5.03	116.27	105.20
34	BA	1593	U	P-O5'-C5'	5.03	128.95	120.90
35	BB	306	U	C2-N3-C4	5.03	130.02	127.00
35	BB	1094	A	C8-N9-C4	5.03	107.81	105.80
85	AA	892	C	C6-N1-C2	-5.03	118.29	120.30
85	AA	1964	A	O4'-C4'-C3'	-5.03	98.97	104.00
2	A1	129	GLY	N-CA-C	-5.03	100.52	113.10
34	BA	34	U	C6-N1-C2	-5.03	117.98	121.00
34	BA	91	C	C4'-C3'-C2'	-5.03	97.57	102.60
34	BA	202	A	N1-C6-N6	5.03	121.62	118.60
34	BA	412	G	P-O3'-C3'	5.03	125.74	119.70
34	BA	754	G	P-O3'-C3'	-5.03	113.66	119.70
34	BA	807	U	O5'-C5'-C4'	5.03	121.26	111.70
34	BA	951	C	N1-C2-N3	5.03	122.72	119.20
34	BA	1078	U	C2'-C3'-O3'	5.03	121.75	113.70
34	BA	1306	U	C6-N1-C2	-5.03	117.98	121.00
35	BB	56	U	P-O3'-C3'	-5.03	113.66	119.70
35	BB	613	C	O5'-C5'-C4'	-5.03	102.14	111.70
35	BB	960	C	P-O5'-C5'	-5.03	112.85	120.90
35	BB	1063	C	O5'-C5'-C4'	-5.03	102.14	111.70
35	BB	1197	G	N1-C2-N3	-5.03	120.88	123.90
35	BB	1352	C	C5-C6-N1	5.03	123.52	121.00
35	BB	1376	G	C5-C6-N1	5.03	114.02	111.50
37	BD	14	C	C5'-C4'-C3'	5.03	124.05	116.00
38	BE	2	G	C8-N9-C4	-5.03	104.39	106.40
38	BE	171	U	C2-N3-C4	-5.03	123.98	127.00
62	Bc	36	ALA	C-N-CA	5.03	134.28	121.70
64	Be	230	PRO	N-CA-CB	5.03	109.34	103.30
65	Bf	204	PHE	CB-CG-CD1	5.03	124.32	120.80
70	Bk	71	ARG	NE-CZ-NH1	5.03	122.82	120.30
74	Bo	33	GLN	N-CA-CB	-5.03	101.55	110.60
85	AA	445	U	O4'-C4'-C3'	-5.03	98.97	104.00
85	AA	506	G	C5'-C4'-C3'	-5.03	107.95	116.00
85	AA	687	G	C8-N9-C4	-5.03	104.39	106.40
85	AA	783	C	C3'-C2'-C1'	-5.03	97.47	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	960	G	C3'-C2'-C1'	-5.03	97.48	101.50
85	AA	1673	A	C8-N9-C4	5.03	107.81	105.80
85	AA	1733	G	N1-C6-O6	-5.03	116.88	119.90
85	AA	1901	G	C5-C6-O6	-5.03	125.58	128.60
85	AA	2004	U	C2'-C3'-O3'	5.03	121.75	113.70
85	AA	2099	C	P-O3'-C3'	5.03	125.74	119.70
34	BA	289	A	N7-C8-N9	-5.03	111.28	113.80
34	BA	549	G	C5-C6-O6	5.03	131.62	128.60
34	BA	550	U	OP2-P-O3'	5.03	116.26	105.20
34	BA	1602	A	C8-N9-C4	5.03	107.81	105.80
35	BB	806	U	C5'-C4'-C3'	5.03	124.05	116.00
35	BB	1021	C	C2-N3-C4	-5.03	117.39	119.90
35	BB	1372	G	C5'-C4'-O4'	5.03	115.14	109.10
38	BE	39	U	N1-C1'-C2'	-5.03	106.47	112.00
38	BE	172	U	C5'-C4'-O4'	5.03	115.14	109.10
38	BE	202	C	N3-C4-N4	-5.03	114.48	118.00
39	BF	15	U	C1'-O4'-C4'	-5.03	105.88	109.90
39	BF	34	C	OP1-P-OP2	-5.03	112.06	119.60
79	Bt	100	GLY	N-CA-C	5.03	125.67	113.10
84	By	104	GLU	C-N-CA	5.03	134.27	121.70
85	AA	773	G	C2-N3-C4	5.03	114.42	111.90
85	AA	1961	U	N3-C2-O2	-5.03	118.68	122.20
34	BA	20	A	C6-C5-N7	-5.03	128.78	132.30
34	BA	480	G	O3'-P-O5'	-5.03	94.45	104.00
34	BA	543	A	N1-C2-N3	5.03	131.81	129.30
34	BA	646	C	O5'-P-OP1	5.03	116.73	110.70
34	BA	777	C	N3-C4-N4	5.03	121.52	118.00
35	BB	45	A	P-O3'-C3'	5.03	125.73	119.70
35	BB	66	G	C4-C5-N7	5.03	112.81	110.80
35	BB	379	U	P-O3'-C3'	-5.03	113.67	119.70
35	BB	461	U	N3-C2-O2	-5.03	118.68	122.20
35	BB	755	A	C2-N3-C4	5.03	113.11	110.60
35	BB	1221	G	N3-C4-N9	-5.03	122.98	126.00
65	Bf	72	ARG	N-CA-C	-5.03	97.43	111.00
70	Bk	46	GLY	C-N-CA	5.03	134.27	121.70
70	Bk	92	THR	N-CA-CB	5.03	119.85	110.30
85	AA	874	A	N9-C1'-C2'	-5.03	106.47	112.00
85	AA	1191	G	N1-C2-N3	-5.03	120.88	123.90
85	AA	1735	U	O4'-C4'-C3'	-5.03	98.97	104.00
85	AA	1812	C	C6-N1-C1'	5.03	126.83	120.80
85	AA	1818	C	P-O3'-C3'	5.03	125.73	119.70
86	AB	68	C	C4'-C3'-C2'	5.03	107.63	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	175	G	C5'-C4'-C3'	5.03	124.04	116.00
34	BA	201	A	C1'-O4'-C4'	-5.03	105.88	109.90
34	BA	308	C	C6-N1-C1'	5.03	126.83	120.80
34	BA	543	A	C5'-C4'-O4'	5.03	115.13	109.10
34	BA	1203	G	N3-C2-N2	5.03	123.42	119.90
34	BA	1446	G	C5'-C4'-C3'	-5.03	107.96	116.00
35	BB	938	G	C5-C6-O6	-5.03	125.58	128.60
35	BB	1147	G	C1'-O4'-C4'	-5.03	105.88	109.90
35	BB	1386	C	P-O3'-C3'	-5.03	113.67	119.70
36	BC	42	G	C8-N9-C4	5.03	108.41	106.40
37	BD	29	C	C5'-C4'-O4'	5.03	115.13	109.10
38	BE	32	U	C5-C6-N1	-5.03	120.19	122.70
40	BG	61	A	N9-C1'-C2'	-5.03	106.47	112.00
40	BG	88	G	N9-C1'-C2'	-5.03	106.47	112.00
65	Bf	339	TYR	N-CA-CB	-5.03	101.55	110.60
70	Bk	120	ARG	NE-CZ-NH2	-5.03	117.79	120.30
85	AA	58	C	C4-C5-C6	-5.03	114.89	117.40
85	AA	114	C	N3-C2-O2	-5.03	118.38	121.90
85	AA	180	A	C5'-C4'-C3'	-5.03	107.96	116.00
85	AA	247	G	N1-C6-O6	5.03	122.92	119.90
85	AA	933	U	C5-C4-O4	-5.03	122.89	125.90
85	AA	2204	A	C4'-C3'-C2'	5.03	107.63	102.60
25	AR	45	ASP	N-CA-C	-5.02	97.44	111.00
34	BA	61	G	N9-C4-C5	5.02	107.41	105.40
34	BA	550	U	O5'-P-OP1	-5.02	101.18	105.70
34	BA	1064	A	P-O3'-C3'	-5.02	113.67	119.70
34	BA	1072	U	O4'-C1'-N1	5.02	112.22	108.20
36	BC	119	G	C8-N9-C4	5.02	108.41	106.40
39	BF	52	A	O4'-C4'-C3'	-5.02	98.98	104.00
41	BH	125	U	C1'-O4'-C4'	-5.02	105.88	109.90
41	BH	135	U	N3-C4-O4	-5.02	115.88	119.40
59	BZ	91	THR	N-CA-CB	5.02	119.84	110.30
77	Br	107	PHE	N-CA-CB	5.02	119.64	110.60
85	AA	372	U	C5-C4-O4	5.02	128.91	125.90
85	AA	2213	A	P-O5'-C5'	-5.02	112.86	120.90
34	BA	107	C	C5'-C4'-O4'	5.02	115.13	109.10
34	BA	274	C	C2-N3-C4	5.02	122.41	119.90
34	BA	375	C	C5-C6-N1	5.02	123.51	121.00
34	BA	793	A	C5-C6-N6	-5.02	119.68	123.70
34	BA	878	G	N3-C2-N2	5.02	123.42	119.90
34	BA	963	G	C6-N1-C2	-5.02	122.09	125.10
34	BA	1297	G	O4'-C1'-N9	5.02	112.22	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	1460	U	C2-N1-C1'	5.02	123.73	117.70
34	BA	1818	A	N9-C1'-C2'	5.02	120.53	114.00
35	BB	68	G	O4'-C4'-C3'	5.02	110.12	106.10
35	BB	423	G	C5-C6-O6	5.02	131.61	128.60
35	BB	603	U	OP1-P-OP2	-5.02	112.07	119.60
35	BB	856	U	O4'-C1'-N1	5.02	112.22	108.20
35	BB	923	U	O4'-C1'-N1	5.02	112.22	108.20
35	BB	1232	A	C8-N9-C4	-5.02	103.79	105.80
35	BB	1252	G	O4'-C1'-N9	-5.02	104.18	108.20
37	BD	41	G	O4'-C1'-C2'	5.02	112.12	107.60
41	BH	46	C	C3'-C2'-C1'	-5.02	97.48	101.50
68	Bi	128	ARG	CA-C-N	5.02	128.25	117.20
85	AA	363	A	O5'-C5'-C4'	-5.02	102.16	111.70
85	AA	725	G	N3-C2-N2	5.02	123.42	119.90
85	AA	902	A	O5'-C5'-C4'	-5.02	102.16	111.70
85	AA	1093	C	C2-N1-C1'	-5.02	113.28	118.80
85	AA	1226	A	C2-N3-C4	5.02	113.11	110.60
85	AA	1253	G	C5-C6-O6	-5.02	125.59	128.60
85	AA	1270	C	C1'-O4'-C4'	-5.02	105.88	109.90
85	AA	1510	A	N1-C6-N6	-5.02	115.59	118.60
85	AA	1574	C	OP1-P-O3'	5.02	116.25	105.20
85	AA	1668	G	N3-C2-N2	-5.02	116.39	119.90
85	AA	1975	G	P-O5'-C5'	5.02	128.94	120.90
85	AA	1992	A	C4'-C3'-C2'	-5.02	97.58	102.60
23	AP	136	ARG	CG-CD-NE	-5.02	101.25	111.80
34	BA	533	U	C1'-O4'-C4'	-5.02	105.88	109.90
34	BA	1574	C	N1-C2-O2	5.02	121.91	118.90
35	BB	83	G	C8-N9-C1'	5.02	133.53	127.00
35	BB	634	A	C1'-O4'-C4'	-5.02	105.88	109.90
36	BC	122	A	N9-C1'-C2'	-5.02	106.48	112.00
85	AA	807	A	C8-N9-C4	-5.02	103.79	105.80
86	AB	67	C	C5-C4-N4	5.02	123.72	120.20
34	BA	200	C	C3'-C2'-C1'	-5.02	97.48	101.50
34	BA	437	G	N3-C4-N9	5.02	129.01	126.00
34	BA	469	C	C2'-C3'-O3'	5.02	121.73	113.70
34	BA	636	G	O4'-C1'-N9	5.02	112.22	108.20
34	BA	1194	G	C8-N9-C4	5.02	108.41	106.40
34	BA	1468	U	C1'-O4'-C4'	-5.02	105.89	109.90
34	BA	1611	A	C4-N9-C1'	-5.02	117.26	126.30
35	BB	475	A	OP1-P-OP2	-5.02	112.07	119.60
35	BB	708	C	C5'-C4'-C3'	-5.02	107.97	116.00
35	BB	811	C	N3-C2-O2	-5.02	118.39	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	866	A	N9-C1'-C2'	-5.02	106.48	112.00
35	BB	1242	C	C5-C4-N4	-5.02	116.69	120.20
35	BB	1406	C	C2-N3-C4	-5.02	117.39	119.90
35	BB	1421	C	O5'-C5'-C4'	-5.02	102.17	111.70
40	BG	126	G	C6-N1-C2	-5.02	122.09	125.10
40	BG	168	A	N1-C2-N3	-5.02	126.79	129.30
41	BH	18	C	P-O5'-C5'	-5.02	112.87	120.90
41	BH	30	C	C2-N3-C4	-5.02	117.39	119.90
52	BS	110	ASN	CA-CB-CG	-5.02	102.36	113.40
53	BT	117	ARG	NE-CZ-NH2	-5.02	117.79	120.30
85	AA	270	A	C8-N9-C4	-5.02	103.79	105.80
85	AA	553	G	N3-C4-C5	-5.02	126.09	128.60
85	AA	630	A	C5'-C4'-O4'	-5.02	103.08	109.10
85	AA	737	G	O5'-P-OP2	5.02	116.72	110.70
85	AA	869	A	O4'-C4'-C3'	5.02	110.12	106.10
85	AA	1442	U	O4'-C1'-N1	5.02	112.22	108.20
85	AA	1835	U	C5'-C4'-O4'	5.02	115.12	109.10
85	AA	1836	U	C4'-C3'-C2'	-5.02	97.58	102.60
85	AA	2100	A	C2'-C3'-O3'	5.02	121.73	113.70
11	AC	66	SER	N-CA-C	-5.02	97.45	111.00
34	BA	19	G	C1'-O4'-C4'	-5.02	105.89	109.90
34	BA	1174	A	O3'-P-O5'	-5.02	94.47	104.00
34	BA	1216	G	C5'-C4'-O4'	5.02	115.12	109.10
34	BA	1627	U	C5'-C4'-O4'	5.02	115.12	109.10
34	BA	1695	G	C5'-C4'-O4'	5.02	115.12	109.10
35	BB	347	G	P-O5'-C5'	5.02	128.93	120.90
35	BB	690	C	C2-N3-C4	5.02	122.41	119.90
35	BB	864	U	O4'-C1'-N1	5.02	112.21	108.20
36	BC	114	C	N1-C1'-C2'	-5.02	106.48	112.00
36	BC	122	A	C3'-C2'-C1'	-5.02	97.49	101.50
37	BD	31	U	C2-N3-C4	-5.02	123.99	127.00
38	BE	30	C	C5'-C4'-O4'	-5.02	103.08	109.10
38	BE	99	C	O4'-C1'-N1	5.02	112.21	108.20
64	Be	193	ARG	NE-CZ-NH2	-5.02	117.79	120.30
66	Bg	52	LEU	CB-CG-CD1	5.02	119.53	111.00
77	Br	295	GLU	CA-C-N	-5.02	106.16	117.20
85	AA	329	G	OP1-P-OP2	-5.02	112.08	119.60
85	AA	373	G	C4-N9-C1'	-5.02	119.98	126.50
85	AA	385	A	P-O3'-C3'	-5.02	113.68	119.70
85	AA	766	G	C8-N9-C4	-5.02	104.39	106.40
85	AA	883	A	O5'-P-OP1	5.02	116.72	110.70
85	AA	986	U	C2'-C3'-O3'	5.02	121.73	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	AA	1185	G	C4'-C3'-C2'	5.02	107.62	102.60
85	AA	1466	U	C2'-C3'-O3'	5.02	121.73	113.70
85	AA	1685	G	N9-C1'-C2'	-5.02	106.48	112.00
85	AA	1695	G	P-O5'-C5'	-5.02	112.87	120.90
85	AA	2090	C	C3'-C2'-C1'	-5.02	97.48	101.50
2	A1	197	ARG	NE-CZ-NH1	5.02	122.81	120.30
12	AD	24	SER	N-CA-CB	5.02	118.03	110.50
34	BA	115	U	P-O5'-C5'	5.02	128.93	120.90
34	BA	125	G	C3'-C2'-C1'	-5.02	97.49	101.50
34	BA	408	U	C1'-O4'-C4'	-5.02	105.89	109.90
34	BA	680	C	C2'-C3'-O3'	5.02	121.73	113.70
35	BB	434	A	P-O3'-C3'	-5.02	113.68	119.70
35	BB	703	U	O4'-C1'-C2'	5.02	112.11	107.60
35	BB	1005	A	C8-N9-C1'	5.02	136.73	127.70
37	BD	92	G	C1'-O4'-C4'	-5.02	105.89	109.90
85	AA	420	C	P-O3'-C3'	-5.02	113.68	119.70
85	AA	1782	C	C6-N1-C2	-5.02	118.29	120.30
85	AA	2149	C	O3'-P-O5'	-5.02	94.47	104.00
10	A9	103	TYR	CB-CG-CD2	-5.01	117.99	121.00
34	BA	588	C	C5'-C4'-O4'	5.01	115.12	109.10
34	BA	599	U	C1'-O4'-C4'	-5.01	105.89	109.90
34	BA	880	G	C8-N9-C4	-5.01	104.39	106.40
34	BA	1384	G	N3-C2-N2	5.01	123.41	119.90
34	BA	1645	C	C1'-O4'-C4'	-5.01	105.89	109.90
35	BB	3	C	C4'-C3'-C2'	-5.01	97.59	102.60
35	BB	465	C	P-O5'-C5'	5.01	128.92	120.90
35	BB	712	U	O3'-P-O5'	-5.01	94.47	104.00
35	BB	1269	A	C5-C6-N1	5.01	120.21	117.70
35	BB	1287	U	P-O5'-C5'	5.01	128.93	120.90
35	BB	1545	U	O3'-P-O5'	-5.01	94.47	104.00
36	BC	69	U	N3-C4-C5	5.01	117.61	114.60
37	BD	106	G	C4'-C3'-C2'	-5.01	97.58	102.60
38	BE	173	G	C6-C5-N7	-5.01	127.39	130.40
40	BG	168	A	C5-C6-N1	5.01	120.21	117.70
51	BR	118	GLN	N-CA-C	-5.01	97.46	111.00
65	Bf	272	ASP	CB-CG-OD1	5.01	122.81	118.30
65	Bf	315	ARG	CD-NE-CZ	-5.01	116.58	123.60
77	Br	350	GLU	N-CA-CB	-5.01	101.58	110.60
83	Bx	120	ASP	N-CA-CB	-5.01	101.57	110.60
85	AA	778	C	N1-C2-N3	5.01	122.71	119.20
85	AA	1775	U	C6-N1-C2	-5.01	117.99	121.00
85	AA	1920	A	C2'-C3'-O3'	5.01	121.72	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A5	121	LEU	C-N-CA	-5.01	111.77	122.30
34	BA	11	U	C5'-C4'-O4'	-5.01	103.08	109.10
34	BA	1634	A	O5'-P-OP1	5.01	116.72	110.70
35	BB	77	A	C4-C5-C6	-5.01	114.49	117.00
40	BG	135	C	N1-C1'-C2'	-5.01	106.48	112.00
50	BQ	29	LYS	CA-CB-CG	-5.01	102.37	113.40
60	Ba	84	TYR	CB-CG-CD1	-5.01	117.99	121.00
74	Bo	59	GLY	CA-C-N	-5.01	106.17	117.20
85	AA	239	G	C5-C6-O6	-5.01	125.59	128.60
85	AA	449	G	C1'-O4'-C4'	-5.01	105.89	109.90
85	AA	1196	C	C6-N1-C1'	5.01	126.82	120.80
85	AA	1469	G	OP1-P-OP2	-5.01	112.08	119.60
85	AA	2243	G	C8-N9-C4	-5.01	104.39	106.40
86	AB	49	C	P-O3'-C3'	5.01	125.72	119.70
34	BA	69	C	C4'-C3'-C2'	5.01	107.61	102.60
34	BA	421	G	C5'-C4'-C3'	-5.01	107.98	116.00
34	BA	432	A	C8-N9-C4	5.01	107.81	105.80
34	BA	919	A	C8-N9-C4	5.01	107.80	105.80
35	BB	16	G	O3'-P-O5'	5.01	113.52	104.00
35	BB	34	G	N1-C2-N2	-5.01	111.69	116.20
35	BB	63	A	O5'-P-OP2	-5.01	101.19	105.70
35	BB	89	C	C3'-C2'-C1'	-5.01	97.49	101.50
35	BB	645	C	C4'-C3'-C2'	5.01	107.61	102.60
35	BB	813	C	C6-N1-C1'	5.01	126.81	120.80
35	BB	979	G	P-O3'-C3'	-5.01	113.69	119.70
36	BC	7	U	O3'-P-O5'	-5.01	94.48	104.00
37	BD	95	G	N9-C4-C5	5.01	107.40	105.40
41	BH	20	A	P-O5'-C5'	-5.01	112.88	120.90
42	BI	103	PRO	C-N-CA	5.01	134.23	121.70
64	Be	155	LYS	N-CA-CB	5.01	119.62	110.60
65	Bf	294	LEU	CB-CA-C	5.01	119.72	110.20
74	Bo	85	ARG	CD-NE-CZ	-5.01	116.58	123.60
85	AA	334	A	N1-C2-N3	-5.01	126.79	129.30
85	AA	743	C	C5-C6-N1	-5.01	118.49	121.00
85	AA	815	G	C5-C6-N1	5.01	114.01	111.50
85	AA	1157	U	O3'-P-O5'	5.01	113.52	104.00
85	AA	1199	C	C6-N1-C2	-5.01	118.30	120.30
85	AA	1376	U	P-O3'-C3'	5.01	125.71	119.70
85	AA	1501	A	C6-N1-C2	-5.01	115.59	118.60
85	AA	2170	G	N9-C1'-C2'	-5.01	106.49	112.00
86	AB	67	C	C1'-O4'-C4'	-5.01	105.89	109.90
34	BA	290	G	N1-C2-N2	-5.01	111.69	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	359	G	C3'-C2'-C1'	-5.01	97.49	101.50
34	BA	661	C	N1-C1'-C2'	-5.01	106.49	112.00
34	BA	901	C	C2-N3-C4	-5.01	117.40	119.90
34	BA	1724	G	C5'-C4'-O4'	-5.01	103.09	109.10
35	BB	612	A	C1'-O4'-C4'	-5.01	105.89	109.90
35	BB	1154	C	N3-C2-O2	-5.01	118.39	121.90
35	BB	1169	A	C1'-O4'-C4'	-5.01	105.89	109.90
35	BB	1331	U	C2-N1-C1'	5.01	123.71	117.70
36	BC	117	A	C5'-C4'-C3'	-5.01	107.98	116.00
37	BD	119	U	C5'-C4'-O4'	5.01	115.11	109.10
39	BF	12	U	C2-N3-C4	5.01	130.01	127.00
39	BF	54	U	N1-C2-N3	5.01	117.91	114.90
41	BH	100	A	C6-N1-C2	-5.01	115.59	118.60
41	BH	126	C	C1'-O4'-C4'	-5.01	105.89	109.90
85	AA	18	C	N3-C2-O2	-5.01	118.39	121.90
85	AA	29	U	N1-C1'-C2'	-5.01	106.49	112.00
85	AA	520	A	C1'-O4'-C4'	-5.01	105.89	109.90
85	AA	1026	U	P-O5'-C5'	-5.01	112.88	120.90
85	AA	1105	G	C2-N3-C4	-5.01	109.39	111.90
85	AA	1207	C	P-O5'-C5'	-5.01	112.89	120.90
85	AA	1998	A	OP1-P-OP2	-5.01	112.09	119.60
85	AA	2221	A	C5'-C4'-C3'	5.01	124.01	116.00
19	AK	31	PRO	CA-N-CD	-5.01	104.49	111.50
34	BA	101	G	C1'-O4'-C4'	-5.01	105.89	109.90
34	BA	196	A	C3'-C2'-C1'	-5.01	97.49	101.50
34	BA	501	U	O4'-C1'-C2'	-5.01	100.79	105.80
34	BA	622	G	C1'-O4'-C4'	-5.01	105.89	109.90
34	BA	1103	G	C5-C6-N1	5.01	114.00	111.50
34	BA	1151	A	OP2-P-O3'	5.01	116.22	105.20
35	BB	499	A	P-O5'-C5'	-5.01	112.89	120.90
35	BB	640	A	C5'-C4'-C3'	5.01	124.01	116.00
40	BG	173	C	C2-N3-C4	-5.01	117.40	119.90
84	By	7	ASP	N-CA-CB	-5.01	101.59	110.60
85	AA	354	C	C5-C4-N4	5.01	123.71	120.20
85	AA	1120	G	C1'-O4'-C4'	-5.01	105.89	109.90
85	AA	1146	C	N3-C4-N4	-5.01	114.49	118.00
85	AA	1484	G	O4'-C1'-N9	5.01	112.21	108.20
21	AM	25	ARG	N-CA-CB	5.01	119.61	110.60
34	BA	308	C	C6-N1-C2	-5.01	118.30	120.30
34	BA	643	U	N3-C4-O4	-5.01	115.90	119.40
34	BA	929	A	C2-N3-C4	-5.01	108.10	110.60
34	BA	997	U	C5-C4-O4	5.01	128.90	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	323	C	C1'-O4'-C4'	-5.01	105.89	109.90
35	BB	804	U	N3-C2-O2	-5.01	118.69	122.20
35	BB	1254	G	C5'-C4'-C3'	-5.01	107.99	116.00
35	BB	1412	U	C4'-C3'-C2'	-5.01	97.59	102.60
35	BB	1434	G	C5-C6-N1	5.01	114.00	111.50
35	BB	1439	U	O4'-C1'-N1	5.01	112.21	108.20
37	BD	5	A	C4'-C3'-C2'	5.01	107.61	102.60
40	BG	165	C	C5-C6-N1	5.01	123.50	121.00
71	Bl	95	TRP	N-CA-CB	-5.01	101.59	110.60
85	AA	139	G	C5-C6-O6	-5.01	125.60	128.60
85	AA	334	A	C5'-C4'-O4'	5.01	115.11	109.10
85	AA	364	C	C5'-C4'-O4'	5.01	115.11	109.10
85	AA	1299	A	O4'-C1'-C2'	5.01	112.11	107.60
85	AA	1490	A	N3-C4-N9	-5.01	123.39	127.40
85	AA	1491	G	C5-C6-O6	-5.01	125.60	128.60
85	AA	1679	U	O5'-C5'-C4'	-5.01	102.19	111.70
85	AA	1998	A	N9-C1'-C2'	-5.01	106.49	112.00
34	BA	160	G	C5-C6-N1	5.00	114.00	111.50
34	BA	321	G	C3'-C2'-C1'	-5.00	97.50	101.50
34	BA	433	G	C4'-C3'-C2'	5.00	107.61	102.60
34	BA	1073	G	C8-N9-C4	-5.00	104.40	106.40
34	BA	1291	A	C1'-O4'-C4'	-5.00	105.90	109.90
34	BA	1560	U	C5-C6-N1	-5.00	120.20	122.70
35	BB	738	G	C5'-C4'-C3'	-5.00	107.99	116.00
35	BB	1156	U	N3-C2-O2	-5.00	118.70	122.20
41	BH	112	U	N3-C4-C5	5.00	117.60	114.60
48	BO	23	ASP	O-C-N	-5.00	114.69	122.70
85	AA	1056	C	N1-C1'-C2'	-5.00	106.49	112.00
85	AA	1574	C	N1-C2-N3	5.00	122.70	119.20
85	AA	1877	G	C5'-C4'-O4'	5.00	115.11	109.10
27	AT	68	LYS	N-CA-C	-5.00	97.49	111.00
34	BA	155	U	O5'-C5'-C4'	5.00	121.21	111.70
34	BA	313	C	C2-N1-C1'	-5.00	113.30	118.80
34	BA	999	G	N9-C4-C5	5.00	107.40	105.40
34	BA	1152	A	C2-N3-C4	-5.00	108.10	110.60
34	BA	1325	G	N3-C2-N2	5.00	123.40	119.90
34	BA	1556	A	O4'-C1'-C2'	5.00	112.10	107.60
34	BA	1794	A	O4'-C4'-C3'	-5.00	99.00	104.00
35	BB	574	G	O5'-C5'-C4'	-5.00	102.19	111.70
35	BB	754	U	C2-N3-C4	-5.00	124.00	127.00
37	BD	48	G	C4-C5-C6	-5.00	115.80	118.80
38	BE	89	G	O4'-C1'-N9	5.00	112.20	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	179	A	P-O5'-C5'	5.00	128.91	120.90
40	BG	15	G	O4'-C4'-C3'	-5.00	99.00	104.00
40	BG	61	A	C8-N9-C4	5.00	107.80	105.80
85	AA	71	G	C5'-C4'-C3'	-5.00	107.99	116.00
85	AA	619	A	N1-C6-N6	-5.00	115.60	118.60
85	AA	932	A	N9-C4-C5	-5.00	103.80	105.80
85	AA	1652	A	N9-C1'-C2'	-5.00	106.50	112.00
85	AA	1871	U	O5'-C5'-C4'	-5.00	102.19	111.70
85	AA	1895	C	P-O3'-C3'	-5.00	113.69	119.70
85	AA	2059	A	P-O3'-C3'	5.00	125.70	119.70
85	AA	2151	U	C3'-C2'-C1'	-5.00	97.50	101.50
10	A9	125	ASN	CA-C-N	5.00	131.10	117.10
34	BA	478	G	C5'-C4'-O4'	5.00	115.10	109.10
34	BA	843	G	C3'-C2'-C1'	-5.00	97.50	101.50
34	BA	1015	G	C5-C6-O6	-5.00	125.60	128.60
34	BA	1122	G	P-O3'-C3'	-5.00	113.70	119.70
34	BA	1342	C	C3'-C2'-C1'	-5.00	97.50	101.50
34	BA	1551	G	N1-C6-O6	-5.00	116.90	119.90
35	BB	6	A	C4-N9-C1'	-5.00	117.30	126.30
35	BB	899	C	N1-C2-N3	5.00	122.70	119.20
35	BB	967	G	O4'-C1'-N9	5.00	112.20	108.20
35	BB	1336	G	N3-C2-N2	5.00	123.40	119.90
36	BC	58	G	N9-C1'-C2'	-5.00	106.50	112.00
36	BC	120	G	C2-N3-C4	-5.00	109.40	111.90
37	BD	17	G	N1-C6-O6	5.00	122.90	119.90
39	BF	24	G	N9-C1'-C2'	-5.00	106.50	112.00
39	BF	58	U	C2-N1-C1'	-5.00	111.70	117.70
44	BK	195	LEU	C-N-CA	5.00	134.20	121.70
63	Bd	28	TYR	C-N-CA	5.00	134.21	121.70
81	Bv	178	VAL	N-CA-C	-5.00	97.50	111.00
85	AA	1267	A	C5'-C4'-O4'	5.00	115.10	109.10
85	AA	1446	U	C6-N1-C2	-5.00	118.00	121.00
85	AA	2191	C	P-O3'-C3'	-5.00	113.70	119.70
85	AA	2192	A	C4-N9-C1'	-5.00	117.30	126.30
85	AA	2198	G	N1-C2-N3	5.00	126.90	123.90

All (3) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
47	BN	66	PRO	CA
69	Bj	5	ARG	CA
84	By	7	ASP	CA

All (5934) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A0	103	HIS	Sidechain
1	A0	111	ARG	Sidechain
1	A0	114	TYR	Sidechain
1	A0	138	ARG	Sidechain
1	A0	155	ASN	Mainchain
1	A0	157	TYR	Sidechain
1	A0	167	ARG	Sidechain
1	A0	169	ARG	Sidechain
1	A0	176	ARG	Sidechain
1	A0	192	ARG	Sidechain
1	A0	202	ARG	Sidechain
1	A0	210	ARG	Sidechain
1	A0	211	ASP	Peptide
1	A0	213	ARG	Sidechain
1	A0	221	ARG	Sidechain
1	A0	41	ARG	Sidechain
1	A0	43	PHE	Sidechain
1	A0	64	ARG	Sidechain
1	A0	83	TYR	Sidechain
2	A1	10	TYR	Sidechain
2	A1	100	TYR	Sidechain
2	A1	127	TYR	Sidechain
2	A1	132	ARG	Sidechain
2	A1	139	HIS	Sidechain
2	A1	153	ARG	Sidechain
2	A1	159	TYR	Sidechain
2	A1	186	ARG	Sidechain
2	A1	188	ARG	Sidechain
2	A1	206	ARG	Sidechain
2	A1	218	ARG	Sidechain
2	A1	27	ARG	Sidechain
2	A1	29	ARG	Sidechain
2	A1	33	HIS	Sidechain
2	A1	51	TYR	Sidechain
2	A1	87	VAL	Mainchain
2	A1	96	PHE	Sidechain
2	A1	97	ARG	Sidechain
3	A2	122	ARG	Sidechain
3	A2	131	ARG	Sidechain
3	A2	145	ARG	Sidechain
3	A2	190	ARG	Sidechain
3	A2	27	TYR	Sidechain

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Mol	Chain	Res	Type	Group
3	A2	46	ARG	Sidechain
3	A2	48	ARG	Sidechain
3	A2	57	ARG	Sidechain
3	A2	64	PHE	Sidechain
3	A2	80	ARG	Sidechain
3	A2	9	PHE	Sidechain
4	A3	101	ARG	Sidechain
4	A3	104	ILE	Peptide
4	A3	124	ILE	Peptide
4	A3	134	ARG	Sidechain
4	A3	152	ARG	Sidechain
4	A3	162	ARG	Sidechain
4	A3	170	LYS	Peptide
4	A3	173	ARG	Sidechain
4	A3	190	ARG	Sidechain
4	A3	209	ARG	Sidechain
4	A3	212	TYR	Sidechain
4	A3	224	ARG	Sidechain
4	A3	226	ARG	Sidechain
4	A3	25	ARG	Sidechain
4	A3	29	GLY	Peptide
4	A3	31	TYR	Sidechain
4	A3	32	ARG	Sidechain
4	A3	47	ARG	Sidechain
4	A3	59	LYS	Mainchain
4	A3	73	ARG	Sidechain
4	A3	85	PHE	Sidechain
4	A3	89	ARG	Sidechain
4	A3	91	TYR	Sidechain
5	A4	11	ARG	Sidechain
5	A4	114	LEU	Mainchain
5	A4	12	LYS	Mainchain
5	A4	135	ILE	Peptide
5	A4	143	ARG	Sidechain
5	A4	144	ARG	Sidechain
5	A4	146	ARG	Sidechain
5	A4	15	ARG	Sidechain
5	A4	163	ASP	Mainchain,Peptide
5	A4	166	ARG	Sidechain
5	A4	178	TYR	Sidechain
5	A4	184	ARG	Sidechain
5	A4	188	PHE	Sidechain

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Mol	Chain	Res	Type	Group
5	A4	27	ARG	Sidechain
5	A4	35	SER	Mainchain
5	A4	40	ARG	Sidechain
5	A4	45	ARG	Sidechain
5	A4	46	PHE	Sidechain
5	A4	52	ARG	Sidechain
5	A4	60	LYS	Peptide
5	A4	66	ILE	Mainchain
5	A4	68	TYR	Sidechain
5	A4	81	ARG	Sidechain
5	A4	9	LYS	Mainchain
5	A4	90	ARG	Sidechain
5	A4	91	PHE	Sidechain
6	A5	11	ARG	Sidechain
6	A5	110	ARG	Sidechain
6	A5	113	TYR	Sidechain
6	A5	12	LYS	Mainchain
6	A5	13	ILE	Mainchain
6	A5	157	LYS	Mainchain,Peptide
6	A5	160	ARG	Sidechain
6	A5	164	TYR	Sidechain
6	A5	165	ARG	Sidechain
6	A5	172	GLU	Peptide
6	A5	183	ARG	Sidechain
6	A5	187	ARG	Sidechain
6	A5	197	ARG	Sidechain
6	A5	21	HIS	Sidechain
6	A5	22	ARG	Sidechain
6	A5	24	ARG	Sidechain
6	A5	31	ARG	Sidechain
6	A5	42	ARG	Sidechain
6	A5	49	ARG	Sidechain
6	A5	5	ARG	Sidechain
6	A5	7	ARG	Sidechain
6	A5	77	ARG	Sidechain
7	A6	106	ARG	Sidechain
7	A6	113	PHE	Sidechain
7	A6	122	HIS	Sidechain
7	A6	125	ARG	Sidechain
7	A6	131	ARG	Sidechain
7	A6	132	HIS	Sidechain
7	A6	139	ILE	Mainchain

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Mol	Chain	Res	Type	Group
7	A6	15	ARG	Sidechain
7	A6	157	PHE	Sidechain,Mainchain,Peptide
7	A6	170	ARG	Sidechain
7	A6	176	ARG	Sidechain
7	A6	33	TYR	Sidechain
7	A6	36	ARG	Sidechain
7	A6	39	ARG	Sidechain
7	A6	4	TYR	Sidechain
7	A6	52	ARG	Sidechain
7	A6	65	HIS	Sidechain
7	A6	68	ARG	Sidechain
7	A6	77	ARG	Sidechain
7	A6	78	ARG	Sidechain
7	A6	82	TYR	Sidechain
7	A6	84	PHE	Sidechain
7	A6	9	ARG	Sidechain
7	A6	94	TYR	Sidechain
8	A7	103	TYR	Sidechain
8	A7	117	PHE	Sidechain
8	A7	134	ARG	Sidechain
8	A7	159	ARG	Sidechain
8	A7	187	ARG	Sidechain
8	A7	205	SER	Mainchain
8	A7	249	ARG	Sidechain
8	A7	261	ARG	Sidechain
8	A7	284	ILE	Peptide
8	A7	301	TYR	Sidechain
8	A7	310	ARG	Sidechain
8	A7	46	ASN	Peptide
8	A7	49	ARG	Sidechain
8	A7	50	HIS	Sidechain
8	A7	56	TYR	Sidechain
8	A7	62	ARG	Sidechain
8	A7	92	ARG	Sidechain
9	A8	20	ARG	Sidechain
9	A8	33	ARG	Sidechain
9	A8	41	ARG	Sidechain
9	A8	44	PHE	Sidechain
10	A9	103	TYR	Sidechain
10	A9	121	ASP	Peptide
10	A9	150	TYR	Sidechain
10	A9	99	ARG	Peptide

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Mol	Chain	Res	Type	Group
85	AA	1	G	Sidechain
85	AA	10	G	Sidechain
85	AA	100	A	Sidechain
85	AA	1000	U	Sidechain
85	AA	1001	G	Sidechain
85	AA	1002	G	Sidechain
85	AA	1003	G	Sidechain
85	AA	1007	G	Sidechain
85	AA	101	C	Sidechain
85	AA	1010	U	Sidechain
85	AA	1011	G	Sidechain
85	AA	1015	U	Sidechain
85	AA	1016	G	Sidechain
85	AA	1018	G	Sidechain
85	AA	1019	U	Sidechain
85	AA	102	A	Sidechain
85	AA	1021	G	Sidechain
85	AA	1022	G	Sidechain
85	AA	1023	U	Sidechain
85	AA	1024	G	Sidechain
85	AA	1027	U	Sidechain
85	AA	1028	C	Sidechain
85	AA	1030	U	Sidechain
85	AA	1033	C	Sidechain
85	AA	1034	U	Sidechain
85	AA	1037	U	Sidechain
85	AA	104	C	Sidechain
85	AA	1042	G	Sidechain
85	AA	1043	U	Sidechain
85	AA	1044	G	Sidechain
85	AA	105	A	Sidechain
85	AA	1050	C	Sidechain
85	AA	1051	A	Sidechain
85	AA	1053	A	Sidechain
85	AA	1055	U	Sidechain
85	AA	1056	C	Sidechain
85	AA	1058	G	Sidechain
85	AA	106	G	Sidechain
85	AA	1060	U	Sidechain
85	AA	1063	U	Sidechain
85	AA	1064	C	Sidechain
85	AA	1065	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1066	U	Sidechain
85	AA	1067	G	Sidechain
85	AA	1070	G	Sidechain
85	AA	1071	U	Sidechain
85	AA	1072	U	Sidechain
85	AA	1077	U	Sidechain
85	AA	108	C	Sidechain
85	AA	1081	U	Sidechain
85	AA	1082	U	Sidechain
85	AA	1083	C	Sidechain
85	AA	1086	U	Sidechain
85	AA	1089	G	Sidechain
85	AA	109	G	Sidechain
85	AA	1090	A	Sidechain
85	AA	1091	C	Sidechain
85	AA	1092	G	Sidechain
85	AA	1093	C	Sidechain
85	AA	1094	G	Sidechain
85	AA	1096	G	Sidechain
85	AA	1097	G	Sidechain
85	AA	1098	C	Sidechain
85	AA	1099	U	Sidechain
85	AA	110	U	Sidechain
85	AA	1100	U	Sidechain
85	AA	1101	C	Sidechain
85	AA	1102	C	Sidechain
85	AA	1103	A	Sidechain
85	AA	1104	G	Sidechain
85	AA	1105	G	Sidechain
85	AA	1106	A	Sidechain
85	AA	1107	A	Sidechain
85	AA	1108	U	Sidechain
85	AA	1109	G	Sidechain
85	AA	1110	A	Sidechain
85	AA	1111	A	Sidechain
85	AA	1112	G	Sidechain
85	AA	1114	A	Sidechain
85	AA	1116	G	Sidechain
85	AA	1117	G	Sidechain
85	AA	1118	U	Sidechain
85	AA	1119	A	Sidechain
85	AA	1120	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1121	U	Sidechain
85	AA	1122	U	Sidechain
85	AA	1123	C	Sidechain
85	AA	1124	G	Sidechain
85	AA	1125	G	Sidechain
85	AA	1127	G	Sidechain
85	AA	1128	G	Sidechain
85	AA	1129	A	Sidechain
85	AA	113	U	Sidechain
85	AA	1130	G	Sidechain
85	AA	1131	A	Sidechain
85	AA	1132	A	Sidechain
85	AA	1133	C	Sidechain
85	AA	1134	G	Sidechain
85	AA	1135	U	Sidechain
85	AA	1136	A	Sidechain
85	AA	1137	C	Sidechain
85	AA	1139	G	Sidechain
85	AA	114	C	Sidechain
85	AA	1140	G	Sidechain
85	AA	1141	U	Sidechain
85	AA	1143	C	Sidechain
85	AA	1145	U	Sidechain
85	AA	1146	C	Sidechain
85	AA	1147	A	Sidechain
85	AA	1148	G	Sidechain
85	AA	1149	A	Sidechain
85	AA	115	U	Sidechain
85	AA	1151	G	Sidechain
85	AA	1152	U	Sidechain
85	AA	1153	G	Sidechain
85	AA	1155	A	Sidechain
85	AA	1157	U	Sidechain
85	AA	1158	U	Sidechain
85	AA	1159	C	Sidechain
85	AA	116	G	Sidechain
85	AA	1160	U	Sidechain
85	AA	1161	U	Sidechain
85	AA	1162	A	Sidechain
85	AA	1163	G	Sidechain
85	AA	1165	C	Sidechain
85	AA	1166	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1167	G	Sidechain
85	AA	1168	C	Sidechain
85	AA	117	C	Sidechain
85	AA	1170	C	Sidechain
85	AA	1171	C	Sidechain
85	AA	1172	A	Sidechain
85	AA	1173	A	Sidechain
85	AA	1174	G	Sidechain
85	AA	1175	A	Sidechain
85	AA	1176	C	Sidechain
85	AA	1177	G	Sidechain
85	AA	118	C	Sidechain
85	AA	1180	C	Sidechain
85	AA	1181	U	Sidechain
85	AA	1182	A	Sidechain
85	AA	1184	A	Sidechain
85	AA	1185	G	Sidechain
85	AA	1187	G	Sidechain
85	AA	1188	A	Sidechain
85	AA	1189	A	Sidechain
85	AA	119	G	Sidechain
85	AA	1190	G	Sidechain
85	AA	1191	G	Sidechain
85	AA	1193	A	Sidechain
85	AA	1194	U	Sidechain
85	AA	1195	U	Sidechain
85	AA	1196	C	Sidechain
85	AA	1197	U	Sidechain
85	AA	1199	C	Sidechain
85	AA	12	U	Sidechain
85	AA	120	C	Sidechain
85	AA	1200	A	Sidechain
85	AA	1201	A	Sidechain
85	AA	1202	G	Sidechain
85	AA	1205	U	Sidechain
85	AA	1206	A	Sidechain
85	AA	1207	C	Sidechain
85	AA	1209	U	Sidechain
85	AA	121	C	Sidechain
85	AA	1210	U	Sidechain
85	AA	1211	C	Sidechain
85	AA	1212	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1213	U	Sidechain
85	AA	1214	C	Sidechain
85	AA	1215	A	Sidechain
85	AA	1218	C	Sidechain
85	AA	1219	A	Sidechain
85	AA	122	A	Sidechain
85	AA	1220	A	Sidechain
85	AA	1221	G	Sidechain
85	AA	1224	C	Sidechain
85	AA	1225	C	Sidechain
85	AA	1226	A	Sidechain
85	AA	1227	A	Sidechain
85	AA	1228	A	Sidechain
85	AA	1229	G	Sidechain
85	AA	1230	U	Sidechain
85	AA	1231	G	Sidechain
85	AA	1233	G	Sidechain
85	AA	1234	G	Sidechain
85	AA	1235	G	Sidechain
85	AA	1236	G	Sidechain
85	AA	1237	A	Sidechain
85	AA	1238	U	Sidechain
85	AA	1239	C	Sidechain
85	AA	124	A	Sidechain
85	AA	1240	A	Sidechain
85	AA	1241	A	Sidechain
85	AA	1242	A	Sidechain
85	AA	1243	G	Sidechain
85	AA	1244	A	Sidechain
85	AA	1245	U	Sidechain
85	AA	1246	G	Sidechain
85	AA	1248	U	Sidechain
85	AA	1251	G	Sidechain
85	AA	1253	G	Sidechain
85	AA	1257	A	Sidechain
85	AA	1258	U	Sidechain
85	AA	1259	U	Sidechain
85	AA	126	U	Sidechain
85	AA	1260	G	Sidechain
85	AA	1261	U	Sidechain
85	AA	1265	C	Sidechain
85	AA	1268	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	127	U	Sidechain
85	AA	1270	C	Sidechain
85	AA	1272	G	Sidechain
85	AA	1273	C	Sidechain
85	AA	1275	A	Sidechain
85	AA	1277	C	Sidechain
85	AA	1278	C	Sidechain
85	AA	1279	A	Sidechain
85	AA	128	U	Sidechain
85	AA	1280	U	Sidechain
85	AA	1281	G	Sidechain
85	AA	1282	A	Sidechain
85	AA	1283	C	Sidechain
85	AA	1284	A	Sidechain
85	AA	1285	C	Sidechain
85	AA	1287	C	Sidechain
85	AA	1288	A	Sidechain
85	AA	1289	U	Sidechain
85	AA	129	U	Sidechain
85	AA	1290	G	Sidechain
85	AA	1291	A	Sidechain
85	AA	1292	A	Sidechain
85	AA	1293	U	Sidechain
85	AA	1294	U	Sidechain
85	AA	1295	G	Sidechain
85	AA	1297	G	Sidechain
85	AA	1299	A	Sidechain
85	AA	13	U	Sidechain
85	AA	130	G	Sidechain
85	AA	1301	C	Sidechain
85	AA	1302	A	Sidechain
85	AA	1304	C	Sidechain
85	AA	1305	A	Sidechain
85	AA	1306	U	Sidechain
85	AA	1310	G	Sidechain
85	AA	1317	U	Sidechain
85	AA	1318	G	Sidechain
85	AA	132	G	Sidechain
85	AA	1324	G	Sidechain
85	AA	1328	U	Sidechain
85	AA	133	G	Sidechain
85	AA	1338	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1341	U	Sidechain
85	AA	1346	C	Sidechain
85	AA	135	C	Sidechain
85	AA	1351	U	Sidechain
85	AA	1352	U	Sidechain
85	AA	1355	U	Sidechain
85	AA	1356	U	Sidechain
85	AA	1357	U	Sidechain
85	AA	1359	U	Sidechain
85	AA	136	U	Sidechain
85	AA	1361	A	Sidechain
85	AA	1363	U	Sidechain
85	AA	1365	U	Sidechain
85	AA	1366	A	Sidechain
85	AA	1367	C	Sidechain
85	AA	1368	G	Sidechain
85	AA	1369	U	Sidechain
85	AA	137	C	Sidechain
85	AA	1371	C	Sidechain
85	AA	1373	U	Sidechain
85	AA	1374	A	Sidechain
85	AA	1375	U	Sidechain
85	AA	1378	U	Sidechain
85	AA	138	C	Sidechain
85	AA	1380	U	Sidechain
85	AA	1383	C	Sidechain
85	AA	139	G	Sidechain
85	AA	1390	U	Sidechain
85	AA	14	C	Sidechain
85	AA	1409	U	Sidechain
85	AA	1413	G	Sidechain
85	AA	1419	U	Sidechain
85	AA	142	U	Sidechain
85	AA	1421	U	Sidechain
85	AA	1422	A	Sidechain
85	AA	1423	C	Sidechain
85	AA	1427	A	Sidechain
85	AA	1429	U	Sidechain
85	AA	143	U	Sidechain
85	AA	1430	A	Sidechain
85	AA	1431	U	Sidechain
85	AA	1432	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1433	C	Sidechain
85	AA	1434	U	Sidechain
85	AA	1435	C	Sidechain
85	AA	1438	C	Sidechain
85	AA	1441	G	Sidechain
85	AA	1442	U	Sidechain
85	AA	1443	U	Sidechain
85	AA	1444	U	Sidechain
85	AA	1445	C	Sidechain
85	AA	1446	U	Sidechain
85	AA	1447	U	Sidechain
85	AA	1448	A	Sidechain
85	AA	145	C	Sidechain
85	AA	1450	U	Sidechain
85	AA	1451	U	Sidechain
85	AA	1452	C	Sidechain
85	AA	1453	U	Sidechain
85	AA	1455	C	Sidechain
85	AA	1456	A	Sidechain
85	AA	1458	G	Sidechain
85	AA	1459	C	Sidechain
85	AA	146	U	Sidechain
85	AA	1460	G	Sidechain
85	AA	1462	A	Sidechain
85	AA	1464	G	Sidechain
85	AA	1465	C	Sidechain
85	AA	1466	U	Sidechain
85	AA	1467	U	Sidechain
85	AA	1468	G	Sidechain
85	AA	1469	G	Sidechain
85	AA	147	G	Sidechain
85	AA	1470	A	Sidechain
85	AA	1471	G	Sidechain
85	AA	1473	U	Sidechain
85	AA	1474	U	Sidechain
85	AA	1476	C	Sidechain
85	AA	1477	A	Sidechain
85	AA	1478	G	Sidechain
85	AA	1479	U	Sidechain
85	AA	148	G	Sidechain
85	AA	1480	C	Sidechain
85	AA	1481	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1482	C	Sidechain
85	AA	1483	A	Sidechain
85	AA	1484	G	Sidechain
85	AA	1485	G	Sidechain
85	AA	1487	G	Sidechain
85	AA	1488	G	Sidechain
85	AA	1489	G	Sidechain
85	AA	1490	A	Sidechain
85	AA	1491	G	Sidechain
85	AA	1492	U	Sidechain
85	AA	1493	A	Sidechain
85	AA	1495	G	Sidechain
85	AA	1497	U	Sidechain
85	AA	1498	C	Sidechain
85	AA	1499	G	Sidechain
85	AA	15	U	Sidechain
85	AA	150	U	Sidechain
85	AA	1501	A	Sidechain
85	AA	1502	A	Sidechain
85	AA	1503	G	Sidechain
85	AA	1505	G	Sidechain
85	AA	1506	U	Sidechain
85	AA	1507	G	Sidechain
85	AA	1508	A	Sidechain
85	AA	1509	A	Sidechain
85	AA	151	A	Sidechain
85	AA	1510	A	Sidechain
85	AA	1511	C	Sidechain
85	AA	1512	U	Sidechain
85	AA	1513	U	Sidechain
85	AA	1515	A	Sidechain
85	AA	1516	A	Sidechain
85	AA	1517	G	Sidechain
85	AA	1518	A	Sidechain
85	AA	1519	A	Sidechain
85	AA	152	A	Sidechain
85	AA	1521	U	Sidechain
85	AA	1522	U	Sidechain
85	AA	1523	G	Sidechain
85	AA	1524	A	Sidechain
85	AA	1525	C	Sidechain
85	AA	1526	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1529	A	Sidechain
85	AA	153	C	Sidechain
85	AA	1530	U	Sidechain
85	AA	1531	G	Sidechain
85	AA	1532	G	Sidechain
85	AA	1533	C	Sidechain
85	AA	1535	C	Sidechain
85	AA	1536	C	Sidechain
85	AA	1538	C	Sidechain
85	AA	1539	A	Sidechain
85	AA	154	U	Sidechain
85	AA	1540	A	Sidechain
85	AA	1541	G	Sidechain
85	AA	1542	A	Sidechain
85	AA	1543	C	Sidechain
85	AA	1544	G	Sidechain
85	AA	1545	U	Sidechain
85	AA	1546	G	Sidechain
85	AA	1548	A	Sidechain
85	AA	1549	G	Sidechain
85	AA	155	U	Sidechain
85	AA	1551	G	Sidechain
85	AA	1552	U	Sidechain
85	AA	1553	G	Sidechain
85	AA	1554	C	Sidechain
85	AA	1555	G	Sidechain
85	AA	1556	G	Sidechain
85	AA	1557	U	Sidechain
85	AA	1559	U	Sidechain
85	AA	156	G	Sidechain
85	AA	1560	A	Sidechain
85	AA	1561	A	Sidechain
85	AA	1562	U	Sidechain
85	AA	1563	U	Sidechain
85	AA	1564	U	Sidechain
85	AA	1565	G	Sidechain
85	AA	1566	A	Sidechain
85	AA	1569	C	Sidechain
85	AA	157	G	Sidechain
85	AA	1572	C	Sidechain
85	AA	1573	A	Sidechain
85	AA	1574	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1575	G	Sidechain
85	AA	1576	G	Sidechain
85	AA	1577	G	Sidechain
85	AA	1578	G	Sidechain
85	AA	1579	A	Sidechain
85	AA	158	C	Sidechain
85	AA	1580	A	Sidechain
85	AA	1581	C	Sidechain
85	AA	1582	U	Sidechain
85	AA	1583	U	Sidechain
85	AA	1584	U	Sidechain
85	AA	1585	A	Sidechain
85	AA	1589	G	Sidechain
85	AA	159	G	Sidechain
85	AA	1590	A	Sidechain
85	AA	1591	U	Sidechain
85	AA	1592	C	Sidechain
85	AA	1593	C	Sidechain
85	AA	1594	G	Sidechain
85	AA	1595	G	Sidechain
85	AA	1597	C	Sidechain
85	AA	1598	A	Sidechain
85	AA	1599	G	Sidechain
85	AA	160	A	Sidechain
85	AA	1600	G	Sidechain
85	AA	1601	G	Sidechain
85	AA	1603	G	Sidechain
85	AA	1604	A	Sidechain
85	AA	1605	G	Sidechain
85	AA	1606	G	Sidechain
85	AA	1608	U	Sidechain
85	AA	1609	U	Sidechain
85	AA	161	A	Sidechain
85	AA	1612	C	Sidechain
85	AA	1613	A	Sidechain
85	AA	1614	G	Sidechain
85	AA	1617	G	Sidechain
85	AA	1618	G	Sidechain
85	AA	1619	A	Sidechain
85	AA	162	A	Sidechain
85	AA	1620	G	Sidechain
85	AA	1621	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1622	G	Sidechain
85	AA	1623	U	Sidechain
85	AA	1624	U	Sidechain
85	AA	1626	U	Sidechain
85	AA	1629	C	Sidechain
85	AA	163	C	Sidechain
85	AA	1630	U	Sidechain
85	AA	1631	C	Sidechain
85	AA	1632	G	Sidechain
85	AA	1634	U	Sidechain
85	AA	1635	C	Sidechain
85	AA	1636	C	Sidechain
85	AA	1637	C	Sidechain
85	AA	164	G	Sidechain
85	AA	1641	A	Sidechain
85	AA	1642	A	Sidechain
85	AA	1643	U	Sidechain
85	AA	1644	G	Sidechain
85	AA	1645	G	Sidechain
85	AA	1649	U	Sidechain
85	AA	1650	G	Sidechain
85	AA	1653	U	Sidechain
85	AA	1655	G	Sidechain
85	AA	1656	C	Sidechain
85	AA	1657	C	Sidechain
85	AA	166	C	Sidechain
85	AA	1660	U	Sidechain
85	AA	1661	U	Sidechain
85	AA	1662	U	Sidechain
85	AA	1663	U	Sidechain
85	AA	1666	U	Sidechain
85	AA	1667	C	Sidechain
85	AA	1668	G	Sidechain
85	AA	1669	G	Sidechain
85	AA	1670	U	Sidechain
85	AA	1671	G	Sidechain
85	AA	1672	G	Sidechain
85	AA	1673	A	Sidechain
85	AA	1674	G	Sidechain
85	AA	1676	G	Sidechain
85	AA	1677	A	Sidechain
85	AA	1679	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1680	U	Sidechain
85	AA	1681	G	Sidechain
85	AA	1682	U	Sidechain
85	AA	1683	U	Sidechain
85	AA	1684	U	Sidechain
85	AA	1685	G	Sidechain
85	AA	1686	G	Sidechain
85	AA	1687	U	Sidechain
85	AA	1688	U	Sidechain
85	AA	1689	G	Sidechain
85	AA	169	G	Sidechain
85	AA	1690	A	Sidechain
85	AA	1691	U	Sidechain
85	AA	1693	C	Sidechain
85	AA	1694	C	Sidechain
85	AA	1696	U	Sidechain
85	AA	1698	A	Sidechain
85	AA	1699	A	Sidechain
85	AA	17	C	Sidechain
85	AA	1700	C	Sidechain
85	AA	1703	A	Sidechain
85	AA	1704	C	Sidechain
85	AA	1705	G	Sidechain
85	AA	1706	A	Sidechain
85	AA	1707	G	Sidechain
85	AA	1708	A	Sidechain
85	AA	1709	U	Sidechain
85	AA	171	U	Sidechain
85	AA	1710	C	Sidechain
85	AA	1711	C	Sidechain
85	AA	1712	A	Sidechain
85	AA	1713	A	Sidechain
85	AA	1714	G	Sidechain
85	AA	1715	C	Sidechain
85	AA	1716	U	Sidechain
85	AA	1717	G	Sidechain
85	AA	1718	C	Sidechain
85	AA	1719	C	Sidechain
85	AA	1720	C	Sidechain
85	AA	1721	A	Sidechain
85	AA	1726	G	Sidechain
85	AA	1727	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1728	G	Sidechain
85	AA	1729	C	Sidechain
85	AA	173	A	Sidechain
85	AA	1730	C	Sidechain
85	AA	1731	G	Sidechain
85	AA	1732	G	Sidechain
85	AA	1733	G	Sidechain
85	AA	1734	A	Sidechain
85	AA	1735	U	Sidechain
85	AA	1736	U	Sidechain
85	AA	174	U	Sidechain
85	AA	175	A	Sidechain
85	AA	1751	G	Sidechain
85	AA	1752	C	Sidechain
85	AA	1754	G	Sidechain
85	AA	1755	U	Sidechain
85	AA	1756	C	Sidechain
85	AA	1759	U	Sidechain
85	AA	176	C	Sidechain
85	AA	1762	G	Sidechain
85	AA	1766	G	Sidechain
85	AA	1768	G	Sidechain
85	AA	1771	U	Sidechain
85	AA	1779	C	Sidechain
85	AA	178	U	Sidechain
85	AA	1781	A	Sidechain
85	AA	1782	C	Sidechain
85	AA	1784	G	Sidechain
85	AA	1785	U	Sidechain
85	AA	1786	G	Sidechain
85	AA	1787	G	Sidechain
85	AA	1789	C	Sidechain
85	AA	179	G	Sidechain
85	AA	1790	G	Sidechain
85	AA	1791	U	Sidechain
85	AA	1793	A	Sidechain
85	AA	1794	U	Sidechain
85	AA	1795	C	Sidechain
85	AA	1797	U	Sidechain
85	AA	1799	C	Sidechain
85	AA	18	C	Sidechain
85	AA	180	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1800	U	Sidechain
85	AA	1802	U	Sidechain
85	AA	1805	A	Sidechain
85	AA	1806	C	Sidechain
85	AA	1808	G	Sidechain
85	AA	1809	G	Sidechain
85	AA	181	A	Sidechain
85	AA	1811	C	Sidechain
85	AA	1812	C	Sidechain
85	AA	1814	U	Sidechain
85	AA	1815	U	Sidechain
85	AA	1816	C	Sidechain
85	AA	1817	U	Sidechain
85	AA	1819	U	Sidechain
85	AA	182	C	Sidechain
85	AA	1820	G	Sidechain
85	AA	1822	G	Sidechain
85	AA	1824	G	Sidechain
85	AA	1825	A	Sidechain
85	AA	1826	U	Sidechain
85	AA	1829	C	Sidechain
85	AA	1830	U	Sidechain
85	AA	1831	U	Sidechain
85	AA	1833	C	Sidechain
85	AA	1835	U	Sidechain
85	AA	1836	U	Sidechain
85	AA	1839	G	Sidechain
85	AA	184	A	Sidechain
85	AA	1840	C	Sidechain
85	AA	1842	C	Sidechain
85	AA	1844	A	Sidechain
85	AA	1845	G	Sidechain
85	AA	1846	G	Sidechain
85	AA	1848	G	Sidechain
85	AA	1849	A	Sidechain
85	AA	185	A	Sidechain
85	AA	1850	G	Sidechain
85	AA	1851	A	Sidechain
85	AA	1852	U	Sidechain
85	AA	1853	U	Sidechain
85	AA	1854	U	Sidechain
85	AA	1858	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1860	A	Sidechain
85	AA	1861	A	Sidechain
85	AA	1862	C	Sidechain
85	AA	1863	A	Sidechain
85	AA	1864	G	Sidechain
85	AA	1865	C	Sidechain
85	AA	1866	A	Sidechain
85	AA	1869	U	Sidechain
85	AA	187	C	Sidechain
85	AA	1872	G	Sidechain
85	AA	1873	U	Sidechain
85	AA	1874	G	Sidechain
85	AA	1875	A	Sidechain
85	AA	1876	U	Sidechain
85	AA	1878	C	Sidechain
85	AA	1879	U	Sidechain
85	AA	188	G	Sidechain
85	AA	1881	C	Sidechain
85	AA	1882	U	Sidechain
85	AA	1883	C	Sidechain
85	AA	1885	A	Sidechain
85	AA	1887	G	Sidechain
85	AA	1888	U	Sidechain
85	AA	1889	U	Sidechain
85	AA	1890	C	Sidechain
85	AA	1893	G	Sidechain
85	AA	1894	G	Sidechain
85	AA	1896	G	Sidechain
85	AA	1898	C	Sidechain
85	AA	1899	A	Sidechain
85	AA	190	A	Sidechain
85	AA	1900	C	Sidechain
85	AA	1902	C	Sidechain
85	AA	1904	C	Sidechain
85	AA	1906	C	Sidechain
85	AA	1907	U	Sidechain
85	AA	1908	A	Sidechain
85	AA	191	C	Sidechain
85	AA	1910	A	Sidechain
85	AA	1913	G	Sidechain
85	AA	1918	U	Sidechain
85	AA	1919	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	192	G	Sidechain
85	AA	1920	A	Sidechain
85	AA	1921	G	Sidechain
85	AA	1922	A	Sidechain
85	AA	1923	A	Sidechain
85	AA	1924	C	Sidechain
85	AA	1925	A	Sidechain
85	AA	1926	A	Sidechain
85	AA	1927	G	Sidechain
85	AA	1929	G	Sidechain
85	AA	193	C	Sidechain
85	AA	1930	U	Sidechain
85	AA	1931	C	Sidechain
85	AA	1933	G	Sidechain
85	AA	1935	G	Sidechain
85	AA	1938	G	Sidechain
85	AA	194	U	Sidechain
85	AA	1940	A	Sidechain
85	AA	1943	U	Sidechain
85	AA	1947	A	Sidechain
85	AA	1948	A	Sidechain
85	AA	1949	U	Sidechain
85	AA	195	C	Sidechain
85	AA	1951	U	Sidechain
85	AA	1953	G	Sidechain
85	AA	1954	C	Sidechain
85	AA	1955	U	Sidechain
85	AA	1956	C	Sidechain
85	AA	1959	G	Sidechain
85	AA	196	U	Sidechain
85	AA	1960	C	Sidechain
85	AA	1961	U	Sidechain
85	AA	1962	U	Sidechain
85	AA	1963	G	Sidechain
85	AA	1964	A	Sidechain
85	AA	1968	A	Sidechain
85	AA	1969	A	Sidechain
85	AA	197	C	Sidechain
85	AA	1972	A	Sidechain
85	AA	1973	G	Sidechain
85	AA	1976	G	Sidechain
85	AA	1978	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	1979	A	Sidechain
85	AA	198	U	Sidechain
85	AA	1981	A	Sidechain
85	AA	1982	C	Sidechain
85	AA	1983	C	Sidechain
85	AA	1984	A	Sidechain
85	AA	1985	C	Sidechain
85	AA	1986	G	Sidechain
85	AA	1987	G	Sidechain
85	AA	1989	A	Sidechain
85	AA	199	U	Sidechain
85	AA	1991	C	Sidechain
85	AA	1992	A	Sidechain
85	AA	1993	C	Sidechain
85	AA	1995	U	Sidechain
85	AA	1996	A	Sidechain
85	AA	1997	G	Sidechain
85	AA	1999	C	Sidechain
85	AA	2	A	Sidechain
85	AA	20	G	Sidechain
85	AA	200	U	Sidechain
85	AA	2000	C	Sidechain
85	AA	2001	C	Sidechain
85	AA	2002	A	Sidechain
85	AA	2003	C	Sidechain
85	AA	2004	U	Sidechain
85	AA	2005	U	Sidechain
85	AA	2006	G	Sidechain
85	AA	2007	G	Sidechain
85	AA	2008	G	Sidechain
85	AA	201	U	Sidechain
85	AA	2010	C	Sidechain
85	AA	2011	C	Sidechain
85	AA	2013	A	Sidechain
85	AA	2014	G	Sidechain
85	AA	2015	U	Sidechain
85	AA	2017	U	Sidechain
85	AA	2018	U	Sidechain
85	AA	2019	G	Sidechain
85	AA	202	U	Sidechain
85	AA	2020	C	Sidechain
85	AA	2021	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	2022	A	Sidechain
85	AA	2023	U	Sidechain
85	AA	2024	U	Sidechain
85	AA	2026	U	Sidechain
85	AA	2029	G	Sidechain
85	AA	203	C	Sidechain
85	AA	2030	U	Sidechain
85	AA	2031	C	Sidechain
85	AA	2032	G	Sidechain
85	AA	2034	G	Sidechain
85	AA	2035	C	Sidechain
85	AA	2036	A	Sidechain
85	AA	2038	C	Sidechain
85	AA	2039	G	Sidechain
85	AA	204	U	Sidechain
85	AA	2041	G	Sidechain
85	AA	2042	G	Sidechain
85	AA	2044	A	Sidechain
85	AA	2045	U	Sidechain
85	AA	2046	G	Sidechain
85	AA	2047	U	Sidechain
85	AA	2048	C	Sidechain
85	AA	205	A	Sidechain
85	AA	2052	U	Sidechain
85	AA	2053	A	Sidechain
85	AA	2054	G	Sidechain
85	AA	2055	G	Sidechain
85	AA	2057	G	Sidechain
85	AA	2058	C	Sidechain
85	AA	2059	A	Sidechain
85	AA	206	U	Sidechain
85	AA	2060	G	Sidechain
85	AA	2061	C	Sidechain
85	AA	2062	U	Sidechain
85	AA	2063	C	Sidechain
85	AA	2067	A	Sidechain
85	AA	207	G	Sidechain
85	AA	2073	U	Sidechain
85	AA	2074	G	Sidechain
85	AA	2075	C	Sidechain
85	AA	2077	G	Sidechain
85	AA	2078	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	2079	U	Sidechain
85	AA	2080	U	Sidechain
85	AA	2082	C	Sidechain
85	AA	2084	U	Sidechain
85	AA	2085	C	Sidechain
85	AA	2086	C	Sidechain
85	AA	2087	C	Sidechain
85	AA	2088	U	Sidechain
85	AA	2089	G	Sidechain
85	AA	209	C	Sidechain
85	AA	2090	C	Sidechain
85	AA	2094	U	Sidechain
85	AA	2095	U	Sidechain
85	AA	2096	G	Sidechain
85	AA	2098	A	Sidechain
85	AA	2099	C	Sidechain
85	AA	21	U	Sidechain
85	AA	210	G	Sidechain
85	AA	2100	A	Sidechain
85	AA	2102	A	Sidechain
85	AA	2104	C	Sidechain
85	AA	2106	C	Sidechain
85	AA	2107	C	Sidechain
85	AA	2109	G	Sidechain
85	AA	211	C	Sidechain
85	AA	2110	U	Sidechain
85	AA	2112	G	Sidechain
85	AA	2114	U	Sidechain
85	AA	2116	U	Sidechain
85	AA	2117	U	Sidechain
85	AA	2118	U	Sidechain
85	AA	2119	C	Sidechain
85	AA	2120	C	Sidechain
85	AA	2121	G	Sidechain
85	AA	2122	A	Sidechain
85	AA	2123	U	Sidechain
85	AA	2124	G	Sidechain
85	AA	2125	A	Sidechain
85	AA	2126	U	Sidechain
85	AA	2128	G	Sidechain
85	AA	2129	U	Sidechain
85	AA	2130	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	2135	A	Sidechain
85	AA	2136	C	Sidechain
85	AA	2138	G	Sidechain
85	AA	2140	U	Sidechain
85	AA	2141	G	Sidechain
85	AA	2142	A	Sidechain
85	AA	2143	U	Sidechain
85	AA	2144	C	Sidechain
85	AA	2145	G	Sidechain
85	AA	2146	G	Sidechain
85	AA	2148	C	Sidechain
85	AA	2149	C	Sidechain
85	AA	215	U	Sidechain
85	AA	2150	G	Sidechain
85	AA	2152	C	Sidechain
85	AA	2153	G	Sidechain
85	AA	2155	U	Sidechain
85	AA	2156	C	Sidechain
85	AA	2158	U	Sidechain
85	AA	2159	C	Sidechain
85	AA	2161	C	Sidechain
85	AA	2162	G	Sidechain
85	AA	2163	G	Sidechain
85	AA	2164	G	Sidechain
85	AA	2166	G	Sidechain
85	AA	2167	A	Sidechain
85	AA	2169	C	Sidechain
85	AA	2170	G	Sidechain
85	AA	2171	A	Sidechain
85	AA	2172	A	Sidechain
85	AA	2174	G	Sidechain
85	AA	2175	U	Sidechain
85	AA	2176	U	Sidechain
85	AA	2178	A	Sidechain
85	AA	2179	C	Sidechain
85	AA	218	U	Sidechain
85	AA	2180	C	Sidechain
85	AA	2181	G	Sidechain
85	AA	2182	A	Sidechain
85	AA	2183	U	Sidechain
85	AA	2185	U	Sidechain
85	AA	2186	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	2189	U	Sidechain
85	AA	219	G	Sidechain
85	AA	2190	U	Sidechain
85	AA	2192	A	Sidechain
85	AA	2193	A	Sidechain
85	AA	2194	U	Sidechain
85	AA	2195	A	Sidechain
85	AA	2196	G	Sidechain
85	AA	2199	G	Sidechain
85	AA	22	A	Sidechain
85	AA	2201	A	Sidechain
85	AA	2202	G	Sidechain
85	AA	2206	A	Sidechain
85	AA	2207	A	Sidechain
85	AA	2208	G	Sidechain
85	AA	2209	U	Sidechain
85	AA	2211	G	Sidechain
85	AA	2213	A	Sidechain
85	AA	2214	A	Sidechain
85	AA	2216	A	Sidechain
85	AA	2217	A	Sidechain
85	AA	2218	G	Sidechain
85	AA	2219	G	Sidechain
85	AA	2222	G	Sidechain
85	AA	2223	C	Sidechain
85	AA	2224	U	Sidechain
85	AA	2226	U	Sidechain
85	AA	2227	A	Sidechain
85	AA	2228	G	Sidechain
85	AA	2229	G	Sidechain
85	AA	2230	U	Sidechain
85	AA	2231	G	Sidechain
85	AA	2232	A	Sidechain
85	AA	2233	A	Sidechain
85	AA	2234	C	Sidechain
85	AA	2236	U	Sidechain
85	AA	2237	G	Sidechain
85	AA	2238	C	Sidechain
85	AA	2240	G	Sidechain
85	AA	2241	C	Sidechain
85	AA	2245	A	Sidechain
85	AA	2246	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	2248	A	Sidechain
85	AA	2250	U	Sidechain
85	AA	228	C	Sidechain
85	AA	229	U	Sidechain
85	AA	23	G	Sidechain
85	AA	233	C	Sidechain
85	AA	234	G	Sidechain
85	AA	236	G	Sidechain
85	AA	237	G	Sidechain
85	AA	239	G	Sidechain
85	AA	24	U	Sidechain
85	AA	240	A	Sidechain
85	AA	242	G	Sidechain
85	AA	243	A	Sidechain
85	AA	244	G	Sidechain
85	AA	245	A	Sidechain
85	AA	246	C	Sidechain
85	AA	248	U	Sidechain
85	AA	249	C	Sidechain
85	AA	250	C	Sidechain
85	AA	251	A	Sidechain
85	AA	252	G	Sidechain
85	AA	253	C	Sidechain
85	AA	254	G	Sidechain
85	AA	255	A	Sidechain
85	AA	259	A	Sidechain
85	AA	26	A	Sidechain
85	AA	260	A	Sidechain
85	AA	261	U	Sidechain
85	AA	264	A	Sidechain
85	AA	265	A	Sidechain
85	AA	266	U	Sidechain
85	AA	267	U	Sidechain
85	AA	268	A	Sidechain
85	AA	269	G	Sidechain
85	AA	27	U	Sidechain
85	AA	270	A	Sidechain
85	AA	271	A	Sidechain
85	AA	275	A	Sidechain
85	AA	276	C	Sidechain
85	AA	277	G	Sidechain
85	AA	281	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	282	C	Sidechain
85	AA	283	A	Sidechain
85	AA	286	C	Sidechain
85	AA	287	G	Sidechain
85	AA	288	G	Sidechain
85	AA	289	G	Sidechain
85	AA	290	G	Sidechain
85	AA	293	A	Sidechain
85	AA	294	G	Sidechain
85	AA	296	A	Sidechain
85	AA	297	A	Sidechain
85	AA	298	C	Sidechain
85	AA	299	A	Sidechain
85	AA	30	G	Sidechain
85	AA	300	C	Sidechain
85	AA	301	U	Sidechain
85	AA	302	C	Sidechain
85	AA	303	A	Sidechain
85	AA	304	G	Sidechain
85	AA	306	C	Sidechain
85	AA	307	G	Sidechain
85	AA	308	U	Sidechain
85	AA	309	G	Sidechain
85	AA	311	U	Sidechain
85	AA	312	G	Sidechain
85	AA	313	A	Sidechain
85	AA	314	C	Sidechain
85	AA	316	C	Sidechain
85	AA	318	A	Sidechain
85	AA	319	U	Sidechain
85	AA	32	U	Sidechain
85	AA	321	C	Sidechain
85	AA	322	A	Sidechain
85	AA	323	U	Sidechain
85	AA	325	C	Sidechain
85	AA	326	C	Sidechain
85	AA	327	G	Sidechain
85	AA	328	U	Sidechain
85	AA	329	G	Sidechain
85	AA	33	U	Sidechain
85	AA	330	C	Sidechain
85	AA	331	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	332	A	Sidechain
85	AA	333	A	Sidechain
85	AA	334	A	Sidechain
85	AA	335	G	Sidechain
85	AA	336	C	Sidechain
85	AA	337	C	Sidechain
85	AA	339	A	Sidechain
85	AA	34	G	Sidechain
85	AA	342	C	Sidechain
85	AA	343	U	Sidechain
85	AA	345	U	Sidechain
85	AA	346	U	Sidechain
85	AA	35	U	Sidechain
85	AA	351	C	Sidechain
85	AA	353	G	Sidechain
85	AA	354	C	Sidechain
85	AA	355	G	Sidechain
85	AA	356	U	Sidechain
85	AA	358	U	Sidechain
85	AA	359	A	Sidechain
85	AA	36	U	Sidechain
85	AA	362	G	Sidechain
85	AA	363	A	Sidechain
85	AA	364	C	Sidechain
85	AA	366	A	Sidechain
85	AA	368	C	Sidechain
85	AA	369	A	Sidechain
85	AA	37	U	Sidechain
85	AA	371	C	Sidechain
85	AA	375	C	Sidechain
85	AA	376	C	Sidechain
85	AA	377	U	Sidechain
85	AA	378	A	Sidechain
85	AA	379	U	Sidechain
85	AA	380	C	Sidechain
85	AA	381	A	Sidechain
85	AA	383	C	Sidechain
85	AA	384	C	Sidechain
85	AA	387	U	Sidechain
85	AA	388	G	Sidechain
85	AA	389	A	Sidechain
85	AA	39	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	390	U	Sidechain
85	AA	391	G	Sidechain
85	AA	392	G	Sidechain
85	AA	393	C	Sidechain
85	AA	396	U	Sidechain
85	AA	397	G	Sidechain
85	AA	398	U	Sidechain
85	AA	399	A	Sidechain
85	AA	4	C	Sidechain
85	AA	400	G	Sidechain
85	AA	401	U	Sidechain
85	AA	402	G	Sidechain
85	AA	403	G	Sidechain
85	AA	404	A	Sidechain
85	AA	405	C	Sidechain
85	AA	407	G	Sidechain
85	AA	409	C	Sidechain
85	AA	41	G	Sidechain
85	AA	410	A	Sidechain
85	AA	411	U	Sidechain
85	AA	412	G	Sidechain
85	AA	413	G	Sidechain
85	AA	414	C	Sidechain
85	AA	416	U	Sidechain
85	AA	417	U	Sidechain
85	AA	418	G	Sidechain
85	AA	419	A	Sidechain
85	AA	42	G	Sidechain
85	AA	422	G	Sidechain
85	AA	424	A	Sidechain
85	AA	425	G	Sidechain
85	AA	426	C	Sidechain
85	AA	427	G	Sidechain
85	AA	428	G	Sidechain
85	AA	429	G	Sidechain
85	AA	430	G	Sidechain
85	AA	431	G	Sidechain
85	AA	432	A	Sidechain
85	AA	433	U	Sidechain
85	AA	436	G	Sidechain
85	AA	437	G	Sidechain
85	AA	438	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	439	U	Sidechain
85	AA	44	C	Sidechain
85	AA	440	U	Sidechain
85	AA	441	C	Sidechain
85	AA	443	A	Sidechain
85	AA	444	U	Sidechain
85	AA	445	U	Sidechain
85	AA	447	C	Sidechain
85	AA	448	G	Sidechain
85	AA	45	U	Sidechain
85	AA	450	A	Sidechain
85	AA	451	G	Sidechain
85	AA	453	G	Sidechain
85	AA	454	G	Sidechain
85	AA	455	G	Sidechain
85	AA	457	G	Sidechain
85	AA	46	U	Sidechain
85	AA	460	U	Sidechain
85	AA	461	G	Sidechain
85	AA	462	A	Sidechain
85	AA	463	G	Sidechain
85	AA	464	A	Sidechain
85	AA	465	A	Sidechain
85	AA	466	A	Sidechain
85	AA	467	U	Sidechain
85	AA	469	G	Sidechain
85	AA	470	C	Sidechain
85	AA	471	U	Sidechain
85	AA	472	A	Sidechain
85	AA	475	A	Sidechain
85	AA	476	C	Sidechain
85	AA	478	U	Sidechain
85	AA	48	G	Sidechain
85	AA	480	U	Sidechain
85	AA	481	A	Sidechain
85	AA	482	C	Sidechain
85	AA	483	G	Sidechain
85	AA	485	A	Sidechain
85	AA	486	G	Sidechain
85	AA	487	G	Sidechain
85	AA	488	G	Sidechain
85	AA	489	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	490	A	Sidechain
85	AA	491	G	Sidechain
85	AA	492	C	Sidechain
85	AA	494	G	Sidechain
85	AA	495	G	Sidechain
85	AA	496	C	Sidechain
85	AA	498	C	Sidechain
85	AA	499	G	Sidechain
85	AA	50	C	Sidechain
85	AA	500	C	Sidechain
85	AA	501	A	Sidechain
85	AA	502	A	Sidechain
85	AA	503	A	Sidechain
85	AA	504	U	Sidechain
85	AA	506	G	Sidechain
85	AA	507	C	Sidechain
85	AA	508	C	Sidechain
85	AA	509	C	Sidechain
85	AA	51	A	Sidechain
85	AA	510	A	Sidechain
85	AA	511	A	Sidechain
85	AA	512	U	Sidechain
85	AA	513	G	Sidechain
85	AA	514	U	Sidechain
85	AA	515	C	Sidechain
85	AA	516	G	Sidechain
85	AA	517	A	Sidechain
85	AA	52	U	Sidechain
85	AA	520	A	Sidechain
85	AA	521	A	Sidechain
85	AA	523	U	Sidechain
85	AA	526	G	Sidechain
85	AA	527	A	Sidechain
85	AA	528	U	Sidechain
85	AA	529	G	Sidechain
85	AA	53	G	Sidechain
85	AA	530	A	Sidechain
85	AA	531	G	Sidechain
85	AA	532	G	Sidechain
85	AA	533	C	Sidechain
85	AA	534	A	Sidechain
85	AA	535	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	536	C	Sidechain
85	AA	537	G	Sidechain
85	AA	538	A	Sidechain
85	AA	539	A	Sidechain
85	AA	54	C	Sidechain
85	AA	540	A	Sidechain
85	AA	541	A	Sidechain
85	AA	542	G	Sidechain
85	AA	544	A	Sidechain
85	AA	545	A	Sidechain
85	AA	546	U	Sidechain
85	AA	547	A	Sidechain
85	AA	548	G	Sidechain
85	AA	550	G	Sidechain
85	AA	552	C	Sidechain
85	AA	555	C	Sidechain
85	AA	556	C	Sidechain
85	AA	557	G	Sidechain
85	AA	559	G	Sidechain
85	AA	561	C	Sidechain
85	AA	563	U	Sidechain
85	AA	564	A	Sidechain
85	AA	565	G	Sidechain
85	AA	566	U	Sidechain
85	AA	567	G	Sidechain
85	AA	569	A	Sidechain
85	AA	57	G	Sidechain
85	AA	570	U	Sidechain
85	AA	571	G	Sidechain
85	AA	572	G	Sidechain
85	AA	573	U	Sidechain
85	AA	575	G	Sidechain
85	AA	576	U	Sidechain
85	AA	577	U	Sidechain
85	AA	578	U	Sidechain
85	AA	579	U	Sidechain
85	AA	582	A	Sidechain
85	AA	584	G	Sidechain
85	AA	585	G	Sidechain
85	AA	586	G	Sidechain
85	AA	587	G	Sidechain
85	AA	588	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	589	A	Sidechain
85	AA	59	C	Sidechain
85	AA	590	U	Sidechain
85	AA	591	A	Sidechain
85	AA	592	C	Sidechain
85	AA	593	U	Sidechain
85	AA	595	A	Sidechain
85	AA	596	A	Sidechain
85	AA	597	A	Sidechain
85	AA	6	G	Sidechain
85	AA	60	U	Sidechain
85	AA	600	C	Sidechain
85	AA	601	A	Sidechain
85	AA	602	U	Sidechain
85	AA	603	C	Sidechain
85	AA	604	C	Sidechain
85	AA	605	A	Sidechain
85	AA	609	U	Sidechain
85	AA	61	C	Sidechain
85	AA	610	C	Sidechain
85	AA	611	G	Sidechain
85	AA	613	G	Sidechain
85	AA	614	U	Sidechain
85	AA	615	A	Sidechain
85	AA	616	A	Sidechain
85	AA	617	C	Sidechain
85	AA	618	A	Sidechain
85	AA	62	A	Sidechain
85	AA	620	U	Sidechain
85	AA	621	U	Sidechain
85	AA	623	G	Sidechain
85	AA	624	A	Sidechain
85	AA	625	G	Sidechain
85	AA	626	G	Sidechain
85	AA	628	C	Sidechain
85	AA	629	A	Sidechain
85	AA	63	G	Sidechain
85	AA	630	A	Sidechain
85	AA	631	G	Sidechain
85	AA	634	U	Sidechain
85	AA	635	G	Sidechain
85	AA	636	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	637	U	Sidechain
85	AA	638	G	Sidechain
85	AA	64	A	Sidechain
85	AA	640	C	Sidechain
85	AA	641	A	Sidechain
85	AA	642	G	Sidechain
85	AA	646	C	Sidechain
85	AA	647	C	Sidechain
85	AA	648	G	Sidechain
85	AA	65	A	Sidechain
85	AA	650	G	Sidechain
85	AA	651	G	Sidechain
85	AA	652	U	Sidechain
85	AA	654	A	Sidechain
85	AA	655	U	Sidechain
85	AA	656	U	Sidechain
85	AA	657	C	Sidechain
85	AA	658	C	Sidechain
85	AA	659	A	Sidechain
85	AA	66	U	Sidechain
85	AA	661	C	Sidechain
85	AA	662	U	Sidechain
85	AA	664	C	Sidechain
85	AA	665	A	Sidechain
85	AA	666	A	Sidechain
85	AA	667	A	Sidechain
85	AA	668	A	Sidechain
85	AA	669	G	Sidechain
85	AA	67	C	Sidechain
85	AA	672	U	Sidechain
85	AA	673	A	Sidechain
85	AA	674	U	Sidechain
85	AA	675	A	Sidechain
85	AA	676	U	Sidechain
85	AA	677	U	Sidechain
85	AA	679	A	Sidechain
85	AA	68	A	Sidechain
85	AA	680	U	Sidechain
85	AA	681	G	Sidechain
85	AA	682	C	Sidechain
85	AA	683	U	Sidechain
85	AA	684	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	685	U	Sidechain
85	AA	686	U	Sidechain
85	AA	687	G	Sidechain
85	AA	688	C	Sidechain
85	AA	689	U	Sidechain
85	AA	69	C	Sidechain
85	AA	691	U	Sidechain
85	AA	692	U	Sidechain
85	AA	693	A	Sidechain
85	AA	694	A	Sidechain
85	AA	695	A	Sidechain
85	AA	696	G	Sidechain
85	AA	697	G	Sidechain
85	AA	698	G	Sidechain
85	AA	699	U	Sidechain
85	AA	7	G	Sidechain
85	AA	70	U	Sidechain
85	AA	700	U	Sidechain
85	AA	702	G	Sidechain
85	AA	703	U	Sidechain
85	AA	704	A	Sidechain
85	AA	706	U	Sidechain
85	AA	707	U	Sidechain
85	AA	708	G	Sidechain
85	AA	710	A	Sidechain
85	AA	711	C	Sidechain
85	AA	712	U	Sidechain
85	AA	713	G	Sidechain
85	AA	714	U	Sidechain
85	AA	72	C	Sidechain
85	AA	721	C	Sidechain
85	AA	722	G	Sidechain
85	AA	723	U	Sidechain
85	AA	725	G	Sidechain
85	AA	726	U	Sidechain
85	AA	727	U	Sidechain
85	AA	728	U	Sidechain
85	AA	730	G	Sidechain
85	AA	731	U	Sidechain
85	AA	732	G	Sidechain
85	AA	733	C	Sidechain
85	AA	735	G	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	736	U	Sidechain
85	AA	737	G	Sidechain
85	AA	738	C	Sidechain
85	AA	739	C	Sidechain
85	AA	740	A	Sidechain
85	AA	741	G	Sidechain
85	AA	742	U	Sidechain
85	AA	743	C	Sidechain
85	AA	744	C	Sidechain
85	AA	747	U	Sidechain
85	AA	748	C	Sidechain
85	AA	750	A	Sidechain
85	AA	751	C	Sidechain
85	AA	752	C	Sidechain
85	AA	754	C	Sidechain
85	AA	755	G	Sidechain
85	AA	756	G	Sidechain
85	AA	757	A	Sidechain
85	AA	758	C	Sidechain
85	AA	759	G	Sidechain
85	AA	76	G	Sidechain
85	AA	760	U	Sidechain
85	AA	761	G	Sidechain
85	AA	762	U	Sidechain
85	AA	764	U	Sidechain
85	AA	765	U	Sidechain
85	AA	766	G	Sidechain
85	AA	767	A	Sidechain
85	AA	768	C	Sidechain
85	AA	769	C	Sidechain
85	AA	77	C	Sidechain
85	AA	770	C	Sidechain
85	AA	771	A	Sidechain
85	AA	772	C	Sidechain
85	AA	773	G	Sidechain
85	AA	774	C	Sidechain
85	AA	775	C	Sidechain
85	AA	776	C	Sidechain
85	AA	777	U	Sidechain
85	AA	778	C	Sidechain
85	AA	779	G	Sidechain
85	AA	78	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	780	U	Sidechain
85	AA	781	G	Sidechain
85	AA	782	G	Sidechain
85	AA	785	C	Sidechain
85	AA	787	U	Sidechain
85	AA	788	G	Sidechain
85	AA	789	A	Sidechain
85	AA	79	G	Sidechain
85	AA	790	A	Sidechain
85	AA	792	A	Sidechain
85	AA	793	C	Sidechain
85	AA	794	A	Sidechain
85	AA	795	C	Sidechain
85	AA	796	U	Sidechain
85	AA	797	C	Sidechain
85	AA	799	G	Sidechain
85	AA	8	U	Sidechain
85	AA	800	A	Sidechain
85	AA	801	U	Sidechain
85	AA	802	A	Sidechain
85	AA	803	C	Sidechain
85	AA	804	A	Sidechain
85	AA	805	A	Sidechain
85	AA	806	G	Sidechain
85	AA	809	A	Sidechain
85	AA	812	C	Sidechain
85	AA	814	G	Sidechain
85	AA	815	G	Sidechain
85	AA	816	A	Sidechain
85	AA	817	G	Sidechain
85	AA	818	C	Sidechain
85	AA	819	G	Sidechain
85	AA	82	A	Sidechain
85	AA	820	G	Sidechain
85	AA	821	U	Sidechain
85	AA	822	U	Sidechain
85	AA	825	U	Sidechain
85	AA	827	C	Sidechain
85	AA	828	U	Sidechain
85	AA	83	U	Sidechain
85	AA	830	A	Sidechain
85	AA	832	U	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	833	U	Sidechain
85	AA	834	U	Sidechain
85	AA	836	A	Sidechain
85	AA	837	C	Sidechain
85	AA	838	G	Sidechain
85	AA	839	C	Sidechain
85	AA	84	C	Sidechain
85	AA	841	U	Sidechain
85	AA	842	G	Sidechain
85	AA	845	A	Sidechain
85	AA	846	U	Sidechain
85	AA	847	G	Sidechain
85	AA	848	C	Sidechain
85	AA	85	U	Sidechain
85	AA	850	U	Sidechain
85	AA	851	G	Sidechain
85	AA	852	C	Sidechain
85	AA	853	G	Sidechain
85	AA	854	A	Sidechain
85	AA	855	G	Sidechain
85	AA	856	G	Sidechain
85	AA	857	G	Sidechain
85	AA	858	G	Sidechain
85	AA	859	G	Sidechain
85	AA	86	G	Sidechain
85	AA	860	C	Sidechain
85	AA	861	G	Sidechain
85	AA	862	U	Sidechain
85	AA	863	C	Sidechain
85	AA	864	C	Sidechain
85	AA	866	U	Sidechain
85	AA	867	G	Sidechain
85	AA	868	A	Sidechain
85	AA	869	A	Sidechain
85	AA	87	C	Sidechain
85	AA	871	U	Sidechain
85	AA	872	U	Sidechain
85	AA	873	U	Sidechain
85	AA	875	C	Sidechain
85	AA	878	U	Sidechain
85	AA	879	G	Sidechain
85	AA	880	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	881	C	Sidechain
85	AA	882	C	Sidechain
85	AA	883	A	Sidechain
85	AA	884	A	Sidechain
85	AA	885	A	Sidechain
85	AA	887	A	Sidechain
85	AA	888	A	Sidechain
85	AA	889	G	Sidechain
85	AA	89	C	Sidechain
85	AA	890	U	Sidechain
85	AA	891	G	Sidechain
85	AA	892	C	Sidechain
85	AA	893	G	Sidechain
85	AA	894	A	Sidechain
85	AA	896	C	Sidechain
85	AA	897	A	Sidechain
85	AA	898	A	Sidechain
85	AA	899	A	Sidechain
85	AA	9	U	Sidechain
85	AA	90	A	Sidechain
85	AA	900	G	Sidechain
85	AA	901	C	Sidechain
85	AA	902	A	Sidechain
85	AA	903	G	Sidechain
85	AA	906	U	Sidechain
85	AA	908	C	Sidechain
85	AA	91	U	Sidechain
85	AA	910	G	Sidechain
85	AA	911	A	Sidechain
85	AA	912	C	Sidechain
85	AA	913	U	Sidechain
85	AA	914	U	Sidechain
85	AA	916	A	Sidechain
85	AA	917	A	Sidechain
85	AA	918	U	Sidechain
85	AA	92	G	Sidechain
85	AA	920	A	Sidechain
85	AA	921	C	Sidechain
85	AA	922	A	Sidechain
85	AA	924	A	Sidechain
85	AA	925	G	Sidechain
85	AA	926	C	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	929	G	Sidechain
85	AA	93	G	Sidechain
85	AA	930	G	Sidechain
85	AA	931	G	Sidechain
85	AA	932	A	Sidechain
85	AA	933	U	Sidechain
85	AA	934	A	Sidechain
85	AA	935	A	Sidechain
85	AA	936	C	Sidechain
85	AA	937	G	Sidechain
85	AA	939	A	Sidechain
85	AA	94	C	Sidechain
85	AA	940	G	Sidechain
85	AA	941	C	Sidechain
85	AA	943	U	Sidechain
85	AA	944	C	Sidechain
85	AA	945	A	Sidechain
85	AA	95	U	Sidechain
85	AA	957	A	Sidechain
85	AA	958	C	Sidechain
85	AA	959	C	Sidechain
85	AA	96	C	Sidechain
85	AA	960	G	Sidechain
85	AA	961	U	Sidechain
85	AA	963	U	Sidechain
85	AA	964	C	Sidechain
85	AA	966	G	Sidechain
85	AA	968	U	Sidechain
85	AA	969	U	Sidechain
85	AA	97	A	Sidechain
85	AA	970	U	Sidechain
85	AA	971	U	Sidechain
85	AA	972	G	Sidechain
85	AA	973	U	Sidechain
85	AA	974	U	Sidechain
85	AA	976	G	Sidechain
85	AA	977	U	Sidechain
85	AA	978	U	Sidechain
85	AA	979	U	Sidechain
85	AA	98	U	Sidechain
85	AA	980	U	Sidechain
85	AA	981	A	Sidechain

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Mol	Chain	Res	Type	Group
85	AA	982	G	Sidechain
85	AA	983	A	Sidechain
85	AA	985	G	Sidechain
85	AA	986	U	Sidechain
85	AA	987	C	Sidechain
85	AA	989	U	Sidechain
85	AA	99	U	Sidechain
85	AA	991	G	Sidechain
85	AA	993	G	Sidechain
85	AA	994	A	Sidechain
85	AA	995	G	Sidechain
85	AA	997	U	Sidechain
85	AA	998	U	Sidechain
86	AB	1	G	Sidechain
86	AB	11	C	Sidechain
86	AB	12	U	Sidechain
86	AB	14	A	Sidechain
86	AB	18	G	Sidechain
86	AB	2	C	Sidechain
86	AB	20	U	Sidechain
86	AB	21	A	Sidechain
86	AB	22	G	Sidechain
86	AB	23	A	Sidechain
86	AB	24	G	Sidechain
86	AB	25	C	Sidechain
86	AB	26	A	Sidechain
86	AB	27	G	Sidechain
86	AB	28	G	Sidechain
86	AB	32	U	Sidechain
86	AB	37	A	Sidechain
86	AB	39	U	Sidechain
86	AB	40	C	Sidechain
86	AB	43	C	Sidechain
86	AB	45	U	Sidechain
86	AB	46	G	Sidechain
86	AB	49	C	Sidechain
86	AB	5	G	Sidechain
86	AB	50	U	Sidechain
86	AB	51	U	Sidechain
86	AB	54	U	Sidechain
86	AB	56	C	Sidechain
86	AB	57	G	Sidechain

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Mol	Chain	Res	Type	Group
86	AB	58	A	Sidechain
86	AB	6	G	Sidechain
86	AB	61	C	Sidechain
86	AB	62	C	Sidechain
86	AB	63	G	Sidechain
86	AB	65	G	Sidechain
86	AB	66	U	Sidechain
86	AB	67	C	Sidechain
86	AB	68	C	Sidechain
86	AB	69	G	Sidechain
86	AB	7	A	Sidechain
86	AB	70	G	Sidechain
86	AB	72	C	Sidechain
86	AB	73	A	Sidechain
86	AB	8	U	Sidechain
86	AB	9	A	Sidechain
11	AC	118	PHE	Sidechain
11	AC	139	PHE	Sidechain
11	AC	144	PHE	Sidechain
11	AC	156	ARG	Sidechain,Mainchain
11	AC	193	VAL	Mainchain
11	AC	202	ARG	Sidechain
11	AC	204	ARG	Sidechain
11	AC	211	TYR	Sidechain
11	AC	216	ARG	Sidechain
11	AC	222	ARG	Peptide
11	AC	225	ILE	Mainchain
11	AC	228	SER	Mainchain
11	AC	229	VAL	Peptide
11	AC	238	PHE	Mainchain
11	AC	240	TYR	Sidechain
11	AC	241	ARG	Sidechain
11	AC	73	TYR	Sidechain
11	AC	74	ILE	Peptide
11	AC	77	ARG	Mainchain
11	AC	99	ARG	Sidechain
12	AD	14	TYR	Sidechain
12	AD	18	PHE	Sidechain
12	AD	3	THR	Mainchain
12	AD	4	TYR	Sidechain
12	AD	54	ARG	Sidechain
12	AD	59	ARG	Sidechain

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Mol	Chain	Res	Type	Group
12	AD	66	PHE	Sidechain
12	AD	69	ARG	Sidechain
12	AD	88	TYR	Sidechain
12	AD	94	VAL	Peptide
13	AE	103	ARG	Sidechain
13	AE	104	ARG	Sidechain
13	AE	106	TYR	Sidechain
13	AE	113	TYR	Sidechain
13	AE	116	TYR	Sidechain
13	AE	119	ARG	Sidechain
13	AE	120	HIS	Sidechain
13	AE	121	ARG	Sidechain
13	AE	131	PHE	Sidechain
13	AE	145	ARG	Sidechain
13	AE	152	ARG	Sidechain
13	AE	153	TYR	Sidechain
13	AE	171	PHE	Sidechain
13	AE	24	TYR	Sidechain
13	AE	44	ARG	Sidechain
13	AE	45	SER	Peptide
13	AE	50	TYR	Sidechain
13	AE	58	PHE	Sidechain
13	AE	69	TYR	Sidechain
13	AE	72	ARG	Sidechain
13	AE	76	PHE	Sidechain
13	AE	83	ARG	Sidechain
13	AE	88	ARG	Sidechain
13	AE	97	ARG	Sidechain
13	AE	98	ARG	Sidechain
14	AF	108	ARG	Sidechain
14	AF	116	ARG	Sidechain
14	AF	132	ARG	Sidechain
14	AF	41	ARG	Sidechain
14	AF	55	ARG	Sidechain
14	AF	60	ARG	Sidechain
15	AG	104	ARG	Sidechain
15	AG	113	PHE	Sidechain
15	AG	121	ARG	Sidechain
15	AG	124	ARG	Sidechain
15	AG	129	TYR	Sidechain
15	AG	131	ARG	Sidechain
15	AG	134	GLN	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
15	AG	18	TYR	Sidechain
15	AG	21	THR	Peptide
15	AG	3	ARG	Sidechain
15	AG	31	ARG	Sidechain
15	AG	55	ARG	Sidechain
15	AG	69	ARG	Sidechain
15	AG	77	HIS	Sidechain
15	AG	89	TYR	Sidechain
15	AG	94	ARG	Sidechain
16	AH	10	TYR	Sidechain
16	AH	114	ARG	Sidechain
16	AH	13	SER	Peptide
16	AH	21	TYR	Sidechain
16	AH	27	TYR	Sidechain
16	AH	36	HIS	Sidechain
16	AH	60	ASP	Mainchain
16	AH	65	TYR	Sidechain
17	AI	104	TYR	Sidechain
17	AI	122	TYR	Sidechain
17	AI	126	PHE	Sidechain
17	AI	130	TYR	Sidechain
17	AI	144	HIS	Peptide
17	AI	19	PHE	Sidechain
17	AI	25	ARG	Sidechain
17	AI	58	ARG	Sidechain
17	AI	66	ARG	Sidechain
17	AI	68	ARG	Sidechain
18	AJ	12	ARG	Sidechain
18	AJ	128	PHE	Sidechain
18	AJ	129	PHE	Sidechain
18	AJ	19	ARG	Sidechain
18	AJ	20	ARG	Sidechain
18	AJ	46	TYR	Sidechain
18	AJ	54	ASP	Peptide
18	AJ	56	HIS	Sidechain
18	AJ	57	ARG	Sidechain
18	AJ	68	ARG	Sidechain
18	AJ	78	ARG	Sidechain
19	AK	115	TYR	Sidechain
19	AK	126	ASP	Mainchain,Peptide
19	AK	128	ARG	Sidechain
19	AK	129	ARG	Sidechain,Mainchain

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Mol	Chain	Res	Type	Group
19	AK	137	ARG	Sidechain
19	AK	141	ARG	Sidechain
19	AK	148	TYR	Sidechain
19	AK	149	ARG	Sidechain
19	AK	33	CYS	Peptide
19	AK	36	ARG	Sidechain
19	AK	47	PRO	Mainchain
19	AK	65	TYR	Sidechain
19	AK	68	ARG	Sidechain
19	AK	70	ARG	Sidechain
19	AK	74	ARG	Sidechain
19	AK	78	SER	Peptide
19	AK	9	LEU	Peptide
19	AK	98	TYR	Sidechain
20	AL	29	TYR	Sidechain
20	AL	33	ARG	Sidechain
20	AL	53	TYR	Sidechain
20	AL	78	ARG	Sidechain
20	AL	84	TYR	Sidechain
20	AL	90	HIS	Sidechain
21	AM	107	ARG	Sidechain
21	AM	119	ARG	Peptide
21	AM	12	HIS	Peptide
21	AM	121	HIS	Sidechain
21	AM	125	ARG	Sidechain
21	AM	128	TYR	Sidechain
21	AM	131	ARG	Sidechain
21	AM	133	ARG	Peptide
21	AM	142	ARG	Sidechain
21	AM	25	ARG	Sidechain
21	AM	29	PHE	Sidechain
21	AM	38	GLY	Peptide
21	AM	39	ILE	Peptide
21	AM	42	ALA	Peptide
21	AM	80	ILE	Peptide
21	AM	89	ARG	Sidechain
21	AM	9	SER	Peptide
21	AM	90	ASP	Peptide
22	AO	104	SER	Mainchain
22	AO	107	GLU	Mainchain
22	AO	111	ARG	Sidechain
22	AO	118	HIS	Sidechain

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Mol	Chain	Res	Type	Group
22	AO	138	HIS	Sidechain
22	AO	139	ARG	Sidechain
22	AO	158	ARG	Sidechain
22	AO	163	GLU	Peptide
22	AO	27	HIS	Sidechain
22	AO	29	TRP	Mainchain
22	AO	58	HIS	Sidechain
22	AO	60	ARG	Sidechain
22	AO	70	TYR	Sidechain
22	AO	79	ARG	Sidechain
22	AO	84	ARG	Sidechain
22	AO	89	TYR	Sidechain
22	AO	95	ARG	Sidechain
23	AP	108	PHE	Sidechain
23	AP	120	HIS	Sidechain
23	AP	136	ARG	Sidechain
23	AP	153	TYR	Sidechain
23	AP	179	LEU	Mainchain
23	AP	184	ARG	Sidechain
23	AP	207	TYR	Sidechain
23	AP	214	THR	Mainchain
23	AP	215	ARG	Sidechain
23	AP	247	ARG	Sidechain
23	AP	253	HIS	Sidechain
23	AP	59	THR	Mainchain
23	AP	68	SER	Mainchain
23	AP	82	ARG	Sidechain
24	AQ	101	PHE	Peptide
24	AQ	41	ARG	Sidechain,Mainchain
24	AQ	48	ARG	Sidechain
24	AQ	66	PRO	Peptide
24	AQ	67	CYS	Peptide
24	AQ	77	TYR	Sidechain
25	AR	17	TYR	Sidechain
25	AR	20	ARG	Sidechain
25	AR	26	ASN	Mainchain,Peptide
25	AR	34	HIS	Sidechain
25	AR	45	ASP	Mainchain
25	AR	50	ILE	Mainchain
25	AR	62	TYR	Sidechain
25	AR	69	SER	Mainchain
25	AR	7	TYR	Sidechain

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Mol	Chain	Res	Type	Group
25	AR	71	HIS	Sidechain
25	AR	84	ARG	Sidechain
26	AS	119	ARG	Sidechain
26	AS	131	TYR	Sidechain
26	AS	17	ARG	Sidechain
26	AS	18	ARG	Sidechain
26	AS	21	ARG	Sidechain
26	AS	42	GLY	Peptide
26	AS	71	ARG	Sidechain
27	AT	111	ARG	Sidechain
27	AT	114	VAL	Peptide
27	AT	118	ARG	Sidechain
27	AT	120	ARG	Sidechain
27	AT	123	LYS	Peptide
27	AT	125	ARG	Sidechain
27	AT	13	ARG	Sidechain
27	AT	132	MET	Peptide
27	AT	17	PHE	Sidechain
27	AT	25	ARG	Sidechain
27	AT	34	HIS	Sidechain
27	AT	35	PRO	Peptide
27	AT	36	GLY	Mainchain,Peptide
27	AT	37	TRP	Peptide
27	AT	38	CYS	Peptide
27	AT	40	THR	Peptide
27	AT	41	VAL	Peptide
27	AT	54	TYR	Sidechain
27	AT	58	ASP	Mainchain,Peptide
27	AT	65	PHE	Sidechain,Mainchain,Peptide
27	AT	8	ALA	Peptide
27	AT	83	TYR	Sidechain
27	AT	97	ARG	Sidechain
28	AU	105	ARG	Sidechain
28	AU	48	PHE	Sidechain
28	AU	60	VAL	Peptide
28	AU	63	TYR	Sidechain
28	AU	88	HIS	Sidechain
28	AU	91	ARG	Sidechain
28	AU	99	SER	Peptide
29	AV	10	ARG	Sidechain
29	AV	100	TYR	Sidechain
29	AV	17	ARG	Sidechain

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Mol	Chain	Res	Type	Group
29	AV	19	ARG	Sidechain
29	AV	21	ARG	Sidechain
29	AV	30	ARG	Sidechain
29	AV	40	ARG	Sidechain
29	AV	44	ARG	Sidechain
29	AV	5	ARG	Sidechain
29	AV	66	PHE	Sidechain,Peptide
29	AV	72	TYR	Sidechain
29	AV	98	ARG	Sidechain
30	AW	10	TYR	Mainchain,Peptide
30	AW	14	ARG	Sidechain,Mainchain,Peptide
30	AW	17	ARG	Sidechain
30	AW	22	ARG	Sidechain
30	AW	23	ARG	Peptide
30	AW	24	ARG	Sidechain
30	AW	43	ASN	Peptide
30	AW	5	ASP	Peptide
30	AW	58	ASN	Mainchain
30	AW	80	PHE	Sidechain
31	AX	155	TYR	Sidechain
31	AX	166	PHE	Sidechain
31	AX	17	TYR	Sidechain
31	AX	177	ARG	Sidechain
31	AX	191	GLN	Peptide
31	AX	39	ARG	Sidechain
31	AX	55	ARG	Sidechain
31	AX	63	ARG	Sidechain
31	AX	78	TYR	Peptide
31	AX	8	ARG	Sidechain
32	AY	31	ARG	Sidechain
32	AY	33	ARG	Sidechain
32	AY	40	TYR	Sidechain
32	AY	44	TYR	Sidechain,Peptide
32	AY	46	ALA	Mainchain
32	AY	47	LYS	Mainchain
32	AY	55	LEU	Peptide
32	AY	56	ARG	Sidechain
32	AY	59	LYS	Mainchain,Peptide
32	AY	60	GLN	Peptide
32	AY	64	LYS	Peptide
33	AZ	49	ARG	Sidechain
33	AZ	60	ARG	Sidechain

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Mol	Chain	Res	Type	Group
33	AZ	78	ARG	Sidechain
34	BA	1	C	Sidechain
34	BA	10	G	Sidechain
34	BA	100	A	Sidechain
34	BA	1001	G	Sidechain
34	BA	1004	U	Sidechain
34	BA	1005	C	Sidechain
34	BA	1006	G	Sidechain
34	BA	1007	G	Sidechain
34	BA	1009	G	Sidechain
34	BA	101	G	Sidechain
34	BA	1011	G	Sidechain
34	BA	1013	A	Sidechain
34	BA	1014	A	Sidechain
34	BA	1015	G	Sidechain
34	BA	1018	U	Sidechain
34	BA	1019	C	Sidechain
34	BA	102	G	Sidechain
34	BA	1020	A	Sidechain
34	BA	1021	U	Sidechain
34	BA	1022	C	Sidechain
34	BA	1023	G	Sidechain
34	BA	1024	A	Sidechain
34	BA	1027	C	Sidechain
34	BA	1028	A	Sidechain
34	BA	1029	C	Sidechain
34	BA	103	G	Sidechain
34	BA	1030	C	Sidechain
34	BA	1032	A	Sidechain
34	BA	1033	G	Sidechain
34	BA	1035	A	Sidechain
34	BA	1036	G	Sidechain
34	BA	1037	C	Sidechain
34	BA	1038	U	Sidechain
34	BA	1039	G	Sidechain
34	BA	1040	G	Sidechain
34	BA	1041	U	Sidechain
34	BA	1042	U	Sidechain
34	BA	1044	A	Sidechain
34	BA	1045	C	Sidechain
34	BA	1046	G	Sidechain
34	BA	1049	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	105	U	Sidechain
34	BA	1050	A	Sidechain
34	BA	1051	A	Sidechain
34	BA	1052	G	Sidechain
34	BA	1053	U	Sidechain
34	BA	1054	U	Sidechain
34	BA	1055	U	Sidechain
34	BA	1056	C	Sidechain
34	BA	1057	C	Sidechain
34	BA	1058	C	Sidechain
34	BA	1059	U	Sidechain
34	BA	106	U	Sidechain
34	BA	1062	G	Sidechain
34	BA	1063	G	Sidechain
34	BA	1064	A	Sidechain
34	BA	1065	U	Sidechain
34	BA	1066	A	Sidechain
34	BA	1068	C	Sidechain
34	BA	1069	U	Sidechain
34	BA	107	C	Sidechain
34	BA	1070	G	Sidechain
34	BA	1071	G	Sidechain
34	BA	1072	U	Sidechain
34	BA	1073	G	Sidechain
34	BA	1075	U	Sidechain
34	BA	1077	G	Sidechain
34	BA	1078	U	Sidechain
34	BA	1079	C	Sidechain
34	BA	108	A	Sidechain
34	BA	1080	U	Sidechain
34	BA	1081	U	Sidechain
34	BA	1082	U	Sidechain
34	BA	1083	A	Sidechain
34	BA	1084	A	Sidechain
34	BA	1085	G	Sidechain
34	BA	1086	A	Sidechain
34	BA	1087	A	Sidechain
34	BA	1088	G	Sidechain
34	BA	1089	U	Sidechain
34	BA	109	A	Sidechain
34	BA	1091	U	Sidechain
34	BA	1092	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1093	G	Sidechain
34	BA	1094	U	Sidechain
34	BA	1095	G	Sidechain
34	BA	1096	C	Sidechain
34	BA	1097	G	Sidechain
34	BA	1098	G	Sidechain
34	BA	1099	U	Sidechain
34	BA	11	U	Sidechain
34	BA	110	C	Sidechain
34	BA	1105	A	Sidechain
34	BA	1106	A	Sidechain
34	BA	1107	A	Sidechain
34	BA	1108	U	Sidechain
34	BA	1109	G	Sidechain
34	BA	111	U	Sidechain
34	BA	1110	A	Sidechain
34	BA	1111	U	Sidechain
34	BA	1112	U	Sidechain
34	BA	1113	A	Sidechain
34	BA	1114	G	Sidechain
34	BA	1116	G	Sidechain
34	BA	1117	G	Sidechain
34	BA	1119	A	Sidechain
34	BA	112	C	Sidechain
34	BA	1120	U	Sidechain
34	BA	1122	G	Sidechain
34	BA	1127	U	Sidechain
34	BA	1128	C	Sidechain
34	BA	1129	U	Sidechain
34	BA	113	G	Sidechain
34	BA	1130	U	Sidechain
34	BA	1131	G	Sidechain
34	BA	1133	A	Sidechain
34	BA	1134	A	Sidechain
34	BA	1136	A	Sidechain
34	BA	1137	U	Sidechain
34	BA	1138	C	Sidechain
34	BA	1139	G	Sidechain
34	BA	114	U	Sidechain
34	BA	1140	A	Sidechain
34	BA	1142	C	Sidechain
34	BA	1143	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1144	A	Sidechain
34	BA	1145	U	Sidechain
34	BA	1146	U	Sidechain
34	BA	1148	U	Sidechain
34	BA	1149	C	Sidechain
34	BA	115	U	Sidechain
34	BA	1151	A	Sidechain
34	BA	1152	A	Sidechain
34	BA	1153	C	Sidechain
34	BA	1154	U	Sidechain
34	BA	1155	U	Sidechain
34	BA	1156	U	Sidechain
34	BA	1157	A	Sidechain
34	BA	1159	A	Sidechain
34	BA	1161	G	Sidechain
34	BA	1162	U	Sidechain
34	BA	1165	A	Sidechain
34	BA	1167	A	Sidechain
34	BA	1168	C	Sidechain
34	BA	1170	A	Sidechain
34	BA	1171	C	Sidechain
34	BA	1173	C	Sidechain
34	BA	1174	A	Sidechain
34	BA	1175	G	Sidechain
34	BA	1176	C	Sidechain
34	BA	1177	C	Sidechain
34	BA	1178	U	Sidechain
34	BA	1179	U	Sidechain
34	BA	118	C	Sidechain
34	BA	1180	A	Sidechain
34	BA	1182	U	Sidechain
34	BA	1183	U	Sidechain
34	BA	1184	A	Sidechain
34	BA	1186	U	Sidechain
34	BA	1187	U	Sidechain
34	BA	1188	U	Sidechain
34	BA	1189	A	Sidechain
34	BA	1190	A	Sidechain
34	BA	1192	A	Sidechain
34	BA	1193	A	Sidechain
34	BA	1194	G	Sidechain
34	BA	1195	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1196	C	Sidechain
34	BA	1197	U	Sidechain
34	BA	1198	U	Sidechain
34	BA	1199	U	Sidechain
34	BA	12	G	Sidechain
34	BA	120	A	Sidechain
34	BA	1203	G	Sidechain
34	BA	1204	U	Sidechain
34	BA	1205	A	Sidechain
34	BA	1206	C	Sidechain
34	BA	1208	U	Sidechain
34	BA	1209	A	Sidechain
34	BA	121	A	Sidechain
34	BA	1210	A	Sidechain
34	BA	1211	G	Sidechain
34	BA	1212	A	Sidechain
34	BA	1214	U	Sidechain
34	BA	1215	U	Sidechain
34	BA	1216	G	Sidechain
34	BA	1217	A	Sidechain
34	BA	1219	G	Sidechain
34	BA	122	U	Sidechain
34	BA	1220	C	Sidechain
34	BA	1222	C	Sidechain
34	BA	1224	A	Sidechain
34	BA	1225	A	Sidechain
34	BA	1226	G	Sidechain
34	BA	1227	U	Sidechain
34	BA	1229	G	Sidechain
34	BA	123	C	Sidechain
34	BA	1230	G	Sidechain
34	BA	1231	C	Sidechain
34	BA	1232	C	Sidechain
34	BA	1233	U	Sidechain
34	BA	1236	U	Sidechain
34	BA	1239	G	Sidechain
34	BA	124	G	Sidechain
34	BA	1240	G	Sidechain
34	BA	1241	U	Sidechain
34	BA	1242	A	Sidechain
34	BA	1243	A	Sidechain
34	BA	1244	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1245	C	Sidechain
34	BA	1246	G	Sidechain
34	BA	1247	G	Sidechain
34	BA	1248	A	Sidechain
34	BA	125	G	Sidechain
34	BA	1250	C	Sidechain
34	BA	1252	G	Sidechain
34	BA	1253	G	Sidechain
34	BA	1255	G	Sidechain
34	BA	1256	A	Sidechain
34	BA	1257	U	Sidechain
34	BA	1258	G	Sidechain
34	BA	1259	C	Sidechain
34	BA	126	G	Sidechain
34	BA	1260	G	Sidechain
34	BA	1261	G	Sidechain
34	BA	1263	A	Sidechain
34	BA	1264	U	Sidechain
34	BA	1265	G	Sidechain
34	BA	1267	A	Sidechain
34	BA	1271	C	Sidechain
34	BA	1272	U	Sidechain
34	BA	1273	U	Sidechain
34	BA	1274	A	Sidechain
34	BA	1276	G	Sidechain
34	BA	1279	U	Sidechain
34	BA	128	C	Sidechain
34	BA	1280	A	Sidechain
34	BA	1281	U	Sidechain
34	BA	1282	G	Sidechain
34	BA	1283	U	Sidechain
34	BA	1284	G	Sidechain
34	BA	1285	G	Sidechain
34	BA	1287	G	Sidechain
34	BA	1288	U	Sidechain
34	BA	1289	C	Sidechain
34	BA	129	U	Sidechain
34	BA	1290	A	Sidechain
34	BA	1291	A	Sidechain
34	BA	1293	A	Sidechain
34	BA	1294	C	Sidechain
34	BA	1295	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1296	U	Sidechain
34	BA	1297	G	Sidechain
34	BA	1298	U	Sidechain
34	BA	1299	G	Sidechain
34	BA	13	U	Sidechain
34	BA	130	U	Sidechain
34	BA	1300	G	Sidechain
34	BA	1302	C	Sidechain
34	BA	1303	U	Sidechain
34	BA	1305	A	Sidechain
34	BA	1306	U	Sidechain
34	BA	1307	U	Sidechain
34	BA	1310	C	Sidechain
34	BA	1311	G	Sidechain
34	BA	1312	A	Sidechain
34	BA	1314	A	Sidechain
34	BA	1315	C	Sidechain
34	BA	1316	G	Sidechain
34	BA	1317	U	Sidechain
34	BA	1318	G	Sidechain
34	BA	1319	A	Sidechain
34	BA	132	U	Sidechain
34	BA	1320	A	Sidechain
34	BA	1321	A	Sidechain
34	BA	1323	G	Sidechain
34	BA	1324	G	Sidechain
34	BA	1325	G	Sidechain
34	BA	1326	U	Sidechain
34	BA	1329	U	Sidechain
34	BA	133	A	Sidechain
34	BA	1330	G	Sidechain
34	BA	1331	G	Sidechain
34	BA	1332	U	Sidechain
34	BA	1333	G	Sidechain
34	BA	1334	G	Sidechain
34	BA	1335	A	Sidechain
34	BA	1336	U	Sidechain
34	BA	1339	G	Sidechain
34	BA	134	U	Sidechain
34	BA	1340	G	Sidechain
34	BA	1342	C	Sidechain
34	BA	1343	A	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1345	U	Sidechain
34	BA	1346	U	Sidechain
34	BA	1347	G	Sidechain
34	BA	1348	G	Sidechain
34	BA	1349	A	Sidechain
34	BA	135	G	Sidechain
34	BA	1352	G	Sidechain
34	BA	1353	U	Sidechain
34	BA	1354	G	Sidechain
34	BA	1355	G	Sidechain
34	BA	1357	C	Sidechain
34	BA	1359	U	Sidechain
34	BA	1362	A	Sidechain
34	BA	1363	A	Sidechain
34	BA	1366	C	Sidechain
34	BA	1370	A	Sidechain
34	BA	1371	U	Sidechain
34	BA	1372	C	Sidechain
34	BA	1373	C	Sidechain
34	BA	1374	G	Sidechain
34	BA	1377	A	Sidechain
34	BA	1378	A	Sidechain
34	BA	1379	G	Sidechain
34	BA	138	C	Sidechain
34	BA	1380	G	Sidechain
34	BA	1382	G	Sidechain
34	BA	1383	U	Sidechain
34	BA	1384	G	Sidechain
34	BA	1385	U	Sidechain
34	BA	1386	G	Sidechain
34	BA	1387	U	Sidechain
34	BA	139	U	Sidechain
34	BA	1390	C	Sidechain
34	BA	1392	A	Sidechain
34	BA	1395	C	Sidechain
34	BA	1396	A	Sidechain
34	BA	1397	C	Sidechain
34	BA	1399	A	Sidechain
34	BA	14	G	Sidechain
34	BA	140	C	Sidechain
34	BA	1402	C	Sidechain
34	BA	1403	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1406	U	Sidechain
34	BA	1407	C	Sidechain
34	BA	1409	A	Sidechain
34	BA	141	G	Sidechain
34	BA	1410	C	Sidechain
34	BA	1411	C	Sidechain
34	BA	1412	G	Sidechain
34	BA	1413	G	Sidechain
34	BA	1414	C	Sidechain
34	BA	1415	C	Sidechain
34	BA	1416	C	Sidechain
34	BA	1417	C	Sidechain
34	BA	1418	G	Sidechain
34	BA	1419	A	Sidechain
34	BA	142	A	Sidechain
34	BA	1420	A	Sidechain
34	BA	1421	A	Sidechain
34	BA	1422	A	Sidechain
34	BA	1423	U	Sidechain
34	BA	1424	G	Sidechain
34	BA	1425	G	Sidechain
34	BA	1426	A	Sidechain
34	BA	1427	U	Sidechain
34	BA	143	A	Sidechain
34	BA	1430	C	Sidechain
34	BA	1431	G	Sidechain
34	BA	1432	C	Sidechain
34	BA	1433	U	Sidechain
34	BA	1434	U	Sidechain
34	BA	1435	A	Sidechain
34	BA	1437	G	Sidechain
34	BA	1439	C	Sidechain
34	BA	144	C	Sidechain
34	BA	1440	C	Sidechain
34	BA	1441	C	Sidechain
34	BA	1442	A	Sidechain
34	BA	1443	U	Sidechain
34	BA	1444	G	Sidechain
34	BA	1446	G	Sidechain
34	BA	1448	G	Sidechain
34	BA	145	U	Sidechain
34	BA	1450	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1451	A	Sidechain
34	BA	1453	U	Sidechain
34	BA	1454	G	Sidechain
34	BA	1455	C	Sidechain
34	BA	1456	C	Sidechain
34	BA	1458	A	Sidechain
34	BA	1459	U	Sidechain
34	BA	146	G	Sidechain
34	BA	1460	U	Sidechain
34	BA	1461	A	Sidechain
34	BA	1462	U	Sidechain
34	BA	1463	U	Sidechain
34	BA	1464	C	Sidechain
34	BA	1466	U	Sidechain
34	BA	1467	U	Sidechain
34	BA	1468	U	Sidechain
34	BA	1469	G	Sidechain
34	BA	147	U	Sidechain
34	BA	1470	G	Sidechain
34	BA	1472	G	Sidechain
34	BA	1474	G	Sidechain
34	BA	1476	G	Sidechain
34	BA	1477	C	Sidechain
34	BA	1478	G	Sidechain
34	BA	148	G	Sidechain
34	BA	1482	A	Sidechain
34	BA	1483	U	Sidechain
34	BA	1485	U	Sidechain
34	BA	1486	U	Sidechain
34	BA	1487	U	Sidechain
34	BA	1488	C	Sidechain
34	BA	149	G	Sidechain
34	BA	1490	U	Sidechain
34	BA	1491	U	Sidechain
34	BA	1492	G	Sidechain
34	BA	1493	U	Sidechain
34	BA	1494	G	Sidechain
34	BA	1496	G	Sidechain
34	BA	1497	A	Sidechain
34	BA	1498	A	Sidechain
34	BA	15	G	Sidechain
34	BA	150	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1500	G	Sidechain
34	BA	1501	U	Sidechain
34	BA	1502	G	Sidechain
34	BA	1503	U	Sidechain
34	BA	1504	A	Sidechain
34	BA	1505	G	Sidechain
34	BA	1506	C	Sidechain
34	BA	1507	C	Sidechain
34	BA	1508	C	Sidechain
34	BA	1509	U	Sidechain
34	BA	151	A	Sidechain
34	BA	1511	C	Sidechain
34	BA	1512	C	Sidechain
34	BA	1513	G	Sidechain
34	BA	1514	A	Sidechain
34	BA	1515	U	Sidechain
34	BA	1516	G	Sidechain
34	BA	1517	U	Sidechain
34	BA	1518	A	Sidechain
34	BA	1519	G	Sidechain
34	BA	152	C	Sidechain
34	BA	1522	G	Sidechain
34	BA	1523	U	Sidechain
34	BA	1524	G	Sidechain
34	BA	1525	G	Sidechain
34	BA	1526	C	Sidechain
34	BA	1527	G	Sidechain
34	BA	1530	G	Sidechain
34	BA	1534	U	Sidechain
34	BA	1536	A	Sidechain
34	BA	1537	G	Sidechain
34	BA	1538	G	Sidechain
34	BA	154	A	Sidechain
34	BA	1540	C	Sidechain
34	BA	1541	G	Sidechain
34	BA	1542	A	Sidechain
34	BA	1544	G	Sidechain
34	BA	1546	C	Sidechain
34	BA	1549	U	Sidechain
34	BA	155	U	Sidechain
34	BA	1550	G	Sidechain
34	BA	1551	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1552	C	Sidechain
34	BA	1553	G	Sidechain
34	BA	1554	C	Sidechain
34	BA	1555	G	Sidechain
34	BA	1556	A	Sidechain
34	BA	1557	G	Sidechain
34	BA	156	U	Sidechain
34	BA	1561	C	Sidechain
34	BA	1562	G	Sidechain
34	BA	1563	G	Sidechain
34	BA	1564	A	Sidechain
34	BA	1565	U	Sidechain
34	BA	1566	G	Sidechain
34	BA	1567	G	Sidechain
34	BA	1569	C	Sidechain
34	BA	157	U	Sidechain
34	BA	1570	C	Sidechain
34	BA	1571	C	Sidechain
34	BA	1572	G	Sidechain
34	BA	1573	C	Sidechain
34	BA	1577	U	Sidechain
34	BA	1579	G	Sidechain
34	BA	1580	U	Sidechain
34	BA	1582	C	Sidechain
34	BA	1585	A	Sidechain
34	BA	1586	U	Sidechain
34	BA	1587	C	Sidechain
34	BA	1588	U	Sidechain
34	BA	1589	U	Sidechain
34	BA	159	U	Sidechain
34	BA	1590	G	Sidechain
34	BA	1591	G	Sidechain
34	BA	1592	U	Sidechain
34	BA	1595	G	Sidechain
34	BA	1596	C	Sidechain
34	BA	1597	G	Sidechain
34	BA	1598	U	Sidechain
34	BA	1599	A	Sidechain
34	BA	16	C	Sidechain
34	BA	160	G	Sidechain
34	BA	1600	G	Sidechain
34	BA	1601	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1603	A	Sidechain
34	BA	1604	A	Sidechain
34	BA	1605	G	Sidechain
34	BA	1606	A	Sidechain
34	BA	1607	U	Sidechain
34	BA	1609	U	Sidechain
34	BA	161	U	Sidechain
34	BA	1611	A	Sidechain
34	BA	1612	C	Sidechain
34	BA	1613	G	Sidechain
34	BA	1614	G	Sidechain
34	BA	1615	A	Sidechain
34	BA	1616	A	Sidechain
34	BA	1617	U	Sidechain
34	BA	1618	A	Sidechain
34	BA	1619	U	Sidechain
34	BA	162	G	Sidechain
34	BA	1621	U	Sidechain
34	BA	1623	U	Sidechain
34	BA	1624	U	Sidechain
34	BA	1626	U	Sidechain
34	BA	1627	U	Sidechain
34	BA	1628	A	Sidechain
34	BA	163	G	Sidechain
34	BA	1630	A	Sidechain
34	BA	1631	U	Sidechain
34	BA	1632	G	Sidechain
34	BA	1633	C	Sidechain
34	BA	1634	A	Sidechain
34	BA	1636	C	Sidechain
34	BA	1637	G	Sidechain
34	BA	1638	U	Sidechain
34	BA	1639	U	Sidechain
34	BA	1640	G	Sidechain
34	BA	1641	G	Sidechain
34	BA	1642	A	Sidechain
34	BA	1643	U	Sidechain
34	BA	1646	U	Sidechain
34	BA	1647	G	Sidechain
34	BA	1648	G	Sidechain
34	BA	1649	A	Sidechain
34	BA	1650	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1652	G	Sidechain
34	BA	1653	G	Sidechain
34	BA	1654	G	Sidechain
34	BA	1655	G	Sidechain
34	BA	1659	G	Sidechain
34	BA	166	G	Sidechain
34	BA	1660	A	Sidechain
34	BA	1661	U	Sidechain
34	BA	1662	U	Sidechain
34	BA	1663	U	Sidechain
34	BA	1664	C	Sidechain
34	BA	1666	U	Sidechain
34	BA	1668	C	Sidechain
34	BA	1669	C	Sidechain
34	BA	167	U	Sidechain
34	BA	1671	A	Sidechain
34	BA	1672	C	Sidechain
34	BA	1673	G	Sidechain
34	BA	1674	G	Sidechain
34	BA	1675	C	Sidechain
34	BA	1676	A	Sidechain
34	BA	1677	C	Sidechain
34	BA	1678	U	Sidechain
34	BA	1679	C	Sidechain
34	BA	168	U	Sidechain
34	BA	1680	G	Sidechain
34	BA	1681	U	Sidechain
34	BA	1683	C	Sidechain
34	BA	1684	A	Sidechain
34	BA	1685	C	Sidechain
34	BA	1686	G	Sidechain
34	BA	1687	A	Sidechain
34	BA	1688	G	Sidechain
34	BA	1689	U	Sidechain
34	BA	1690	U	Sidechain
34	BA	1691	G	Sidechain
34	BA	1692	U	Sidechain
34	BA	1693	U	Sidechain
34	BA	1694	C	Sidechain
34	BA	1695	G	Sidechain
34	BA	1696	G	Sidechain
34	BA	1697	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1699	A	Sidechain
34	BA	17	A	Sidechain
34	BA	170	U	Sidechain
34	BA	1700	C	Sidechain
34	BA	1701	U	Sidechain
34	BA	1702	G	Sidechain
34	BA	1703	A	Sidechain
34	BA	1704	G	Sidechain
34	BA	1705	C	Sidechain
34	BA	1707	C	Sidechain
34	BA	1708	A	Sidechain
34	BA	1709	A	Sidechain
34	BA	171	U	Sidechain
34	BA	1710	C	Sidechain
34	BA	1711	G	Sidechain
34	BA	1712	U	Sidechain
34	BA	1713	U	Sidechain
34	BA	1716	A	Sidechain
34	BA	1718	C	Sidechain
34	BA	1719	G	Sidechain
34	BA	1720	U	Sidechain
34	BA	1721	U	Sidechain
34	BA	1722	U	Sidechain
34	BA	1723	U	Sidechain
34	BA	1724	G	Sidechain
34	BA	1726	U	Sidechain
34	BA	1727	A	Sidechain
34	BA	1728	G	Sidechain
34	BA	1729	G	Sidechain
34	BA	173	U	Sidechain
34	BA	1730	A	Sidechain
34	BA	1731	A	Sidechain
34	BA	1732	A	Sidechain
34	BA	1733	G	Sidechain
34	BA	1734	U	Sidechain
34	BA	1735	G	Sidechain
34	BA	1738	G	Sidechain
34	BA	1739	G	Sidechain
34	BA	174	A	Sidechain
34	BA	1740	U	Sidechain
34	BA	1741	G	Sidechain
34	BA	1742	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1743	U	Sidechain
34	BA	1744	C	Sidechain
34	BA	1745	G	Sidechain
34	BA	1746	G	Sidechain
34	BA	1747	C	Sidechain
34	BA	1748	G	Sidechain
34	BA	175	G	Sidechain
34	BA	1754	C	Sidechain
34	BA	1756	C	Sidechain
34	BA	1759	U	Sidechain
34	BA	1765	G	Sidechain
34	BA	177	G	Sidechain
34	BA	1771	U	Sidechain
34	BA	1772	G	Sidechain
34	BA	1775	U	Sidechain
34	BA	1779	U	Sidechain
34	BA	178	C	Sidechain
34	BA	1780	U	Sidechain
34	BA	1781	A	Sidechain
34	BA	1783	C	Sidechain
34	BA	1784	G	Sidechain
34	BA	1785	G	Sidechain
34	BA	1786	C	Sidechain
34	BA	1787	U	Sidechain
34	BA	1788	U	Sidechain
34	BA	179	U	Sidechain
34	BA	1790	U	Sidechain
34	BA	1792	U	Sidechain
34	BA	1793	G	Sidechain
34	BA	1795	A	Sidechain
34	BA	1796	A	Sidechain
34	BA	1797	A	Sidechain
34	BA	1798	G	Sidechain
34	BA	1799	G	Sidechain
34	BA	18	G	Sidechain
34	BA	180	G	Sidechain
34	BA	1800	G	Sidechain
34	BA	1801	G	Sidechain
34	BA	1802	C	Sidechain
34	BA	1803	A	Sidechain
34	BA	1806	A	Sidechain
34	BA	1807	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1808	A	Sidechain
34	BA	1809	G	Sidechain
34	BA	181	G	Sidechain
34	BA	1814	U	Sidechain
34	BA	1815	G	Sidechain
34	BA	1816	G	Sidechain
34	BA	1817	G	Sidechain
34	BA	1818	A	Sidechain
34	BA	1819	U	Sidechain
34	BA	182	U	Sidechain
34	BA	1820	G	Sidechain
34	BA	1821	A	Sidechain
34	BA	1822	U	Sidechain
34	BA	1823	A	Sidechain
34	BA	1824	U	Sidechain
34	BA	1825	U	Sidechain
34	BA	1826	C	Sidechain
34	BA	1827	C	Sidechain
34	BA	1828	A	Sidechain
34	BA	1829	A	Sidechain
34	BA	183	G	Sidechain
34	BA	1831	A	Sidechain
34	BA	1833	G	Sidechain
34	BA	1834	A	Sidechain
34	BA	1836	A	Sidechain
34	BA	1837	U	Sidechain
34	BA	1838	U	Sidechain
34	BA	1839	G	Sidechain
34	BA	1841	A	Sidechain
34	BA	1842	U	Sidechain
34	BA	1844	U	Sidechain
34	BA	1845	G	Sidechain
34	BA	1846	G	Sidechain
34	BA	1847	G	Sidechain
34	BA	185	A	Sidechain
34	BA	186	G	Sidechain
34	BA	188	C	Sidechain
34	BA	189	G	Sidechain
34	BA	19	G	Sidechain
34	BA	190	U	Sidechain
34	BA	192	G	Sidechain
34	BA	193	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	194	G	Sidechain
34	BA	195	G	Sidechain
34	BA	197	A	Sidechain
34	BA	198	U	Sidechain
34	BA	199	U	Sidechain
34	BA	2	A	Sidechain
34	BA	20	A	Sidechain
34	BA	201	A	Sidechain
34	BA	202	A	Sidechain
34	BA	203	U	Sidechain
34	BA	204	U	Sidechain
34	BA	205	G	Sidechain
34	BA	206	C	Sidechain
34	BA	207	A	Sidechain
34	BA	208	A	Sidechain
34	BA	209	A	Sidechain
34	BA	21	C	Sidechain
34	BA	210	G	Sidechain
34	BA	211	C	Sidechain
34	BA	212	A	Sidechain
34	BA	213	A	Sidechain
34	BA	214	A	Sidechain
34	BA	215	C	Sidechain
34	BA	216	C	Sidechain
34	BA	217	C	Sidechain
34	BA	218	G	Sidechain
34	BA	22	C	Sidechain
34	BA	220	U	Sidechain
34	BA	221	G	Sidechain
34	BA	222	C	Sidechain
34	BA	224	G	Sidechain
34	BA	225	A	Sidechain
34	BA	226	A	Sidechain
34	BA	227	C	Sidechain
34	BA	228	A	Sidechain
34	BA	229	C	Sidechain
34	BA	23	A	Sidechain
34	BA	230	A	Sidechain
34	BA	231	U	Sidechain
34	BA	232	U	Sidechain
34	BA	233	U	Sidechain
34	BA	235	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	236	A	Sidechain
34	BA	237	A	Sidechain
34	BA	238	C	Sidechain
34	BA	24	C	Sidechain
34	BA	240	C	Sidechain
34	BA	241	U	Sidechain
34	BA	242	U	Sidechain
34	BA	243	C	Sidechain
34	BA	244	A	Sidechain
34	BA	245	U	Sidechain
34	BA	246	G	Sidechain
34	BA	247	U	Sidechain
34	BA	248	G	Sidechain
34	BA	249	A	Sidechain
34	BA	25	C	Sidechain
34	BA	250	G	Sidechain
34	BA	251	U	Sidechain
34	BA	252	A	Sidechain
34	BA	253	U	Sidechain
34	BA	254	U	Sidechain
34	BA	255	G	Sidechain
34	BA	256	A	Sidechain
34	BA	257	G	Sidechain
34	BA	259	C	Sidechain
34	BA	26	C	Sidechain
34	BA	260	A	Sidechain
34	BA	261	A	Sidechain
34	BA	262	A	Sidechain
34	BA	263	G	Sidechain
34	BA	264	A	Sidechain
34	BA	265	A	Sidechain
34	BA	266	G	Sidechain
34	BA	267	G	Sidechain
34	BA	268	U	Sidechain
34	BA	269	G	Sidechain
34	BA	270	U	Sidechain
34	BA	271	C	Sidechain
34	BA	273	G	Sidechain
34	BA	275	C	Sidechain
34	BA	277	A	Sidechain
34	BA	278	U	Sidechain
34	BA	279	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	280	A	Sidechain
34	BA	281	C	Sidechain
34	BA	282	A	Sidechain
34	BA	283	U	Sidechain
34	BA	284	U	Sidechain
34	BA	285	C	Sidechain
34	BA	286	C	Sidechain
34	BA	288	U	Sidechain
34	BA	289	A	Sidechain
34	BA	29	U	Sidechain
34	BA	290	G	Sidechain
34	BA	291	C	Sidechain
34	BA	293	A	Sidechain
34	BA	294	C	Sidechain
34	BA	295	G	Sidechain
34	BA	296	G	Sidechain
34	BA	297	A	Sidechain
34	BA	298	G	Sidechain
34	BA	299	C	Sidechain
34	BA	3	G	Sidechain
34	BA	30	A	Sidechain
34	BA	300	C	Sidechain
34	BA	301	U	Sidechain
34	BA	302	A	Sidechain
34	BA	303	C	Sidechain
34	BA	304	G	Sidechain
34	BA	309	U	Sidechain
34	BA	31	A	Sidechain
34	BA	312	U	Sidechain
34	BA	313	C	Sidechain
34	BA	314	A	Sidechain
34	BA	315	U	Sidechain
34	BA	316	G	Sidechain
34	BA	318	U	Sidechain
34	BA	319	C	Sidechain
34	BA	32	A	Sidechain
34	BA	320	G	Sidechain
34	BA	321	G	Sidechain
34	BA	322	U	Sidechain
34	BA	323	C	Sidechain
34	BA	324	C	Sidechain
34	BA	325	A	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	326	A	Sidechain
34	BA	327	G	Sidechain
34	BA	328	A	Sidechain
34	BA	329	G	Sidechain
34	BA	331	G	Sidechain
34	BA	332	U	Sidechain
34	BA	334	G	Sidechain
34	BA	335	C	Sidechain
34	BA	336	A	Sidechain
34	BA	338	U	Sidechain
34	BA	339	G	Sidechain
34	BA	34	U	Sidechain
34	BA	340	U	Sidechain
34	BA	341	U	Sidechain
34	BA	342	U	Sidechain
34	BA	343	G	Sidechain
34	BA	344	G	Sidechain
34	BA	345	G	Sidechain
34	BA	348	U	Sidechain
34	BA	349	G	Sidechain
34	BA	35	U	Sidechain
34	BA	352	G	Sidechain
34	BA	353	U	Sidechain
34	BA	355	U	Sidechain
34	BA	358	A	Sidechain
34	BA	359	G	Sidechain
34	BA	36	A	Sidechain
34	BA	360	C	Sidechain
34	BA	361	C	Sidechain
34	BA	362	G	Sidechain
34	BA	363	G	Sidechain
34	BA	364	C	Sidechain
34	BA	365	A	Sidechain
34	BA	366	G	Sidechain
34	BA	367	G	Sidechain
34	BA	368	U	Sidechain
34	BA	369	A	Sidechain
34	BA	370	U	Sidechain
34	BA	371	U	Sidechain
34	BA	372	U	Sidechain
34	BA	376	U	Sidechain
34	BA	377	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	378	C	Sidechain
34	BA	379	C	Sidechain
34	BA	38	G	Sidechain
34	BA	382	G	Sidechain
34	BA	383	G	Sidechain
34	BA	384	U	Sidechain
34	BA	385	U	Sidechain
34	BA	386	A	Sidechain
34	BA	387	A	Sidechain
34	BA	388	A	Sidechain
34	BA	39	C	Sidechain
34	BA	390	A	Sidechain
34	BA	391	U	Sidechain
34	BA	393	G	Sidechain
34	BA	395	G	Sidechain
34	BA	396	U	Sidechain
34	BA	397	A	Sidechain
34	BA	398	G	Sidechain
34	BA	399	G	Sidechain
34	BA	400	A	Sidechain
34	BA	401	A	Sidechain
34	BA	402	G	Sidechain
34	BA	403	A	Sidechain
34	BA	405	C	Sidechain
34	BA	406	G	Sidechain
34	BA	407	A	Sidechain
34	BA	408	U	Sidechain
34	BA	409	A	Sidechain
34	BA	41	U	Sidechain
34	BA	410	G	Sidechain
34	BA	411	C	Sidechain
34	BA	413	A	Sidechain
34	BA	415	C	Sidechain
34	BA	416	A	Sidechain
34	BA	417	A	Sidechain
34	BA	418	G	Sidechain
34	BA	419	U	Sidechain
34	BA	42	A	Sidechain
34	BA	420	A	Sidechain
34	BA	422	C	Sidechain
34	BA	423	G	Sidechain
34	BA	424	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	425	G	Sidechain
34	BA	426	A	Sidechain
34	BA	427	G	Sidechain
34	BA	429	G	Sidechain
34	BA	43	U	Sidechain
34	BA	431	A	Sidechain
34	BA	433	G	Sidechain
34	BA	434	U	Sidechain
34	BA	435	U	Sidechain
34	BA	436	U	Sidechain
34	BA	437	G	Sidechain
34	BA	438	A	Sidechain
34	BA	441	A	Sidechain
34	BA	442	G	Sidechain
34	BA	443	U	Sidechain
34	BA	445	C	Sidechain
34	BA	446	U	Sidechain
34	BA	448	U	Sidechain
34	BA	449	G	Sidechain
34	BA	453	A	Sidechain
34	BA	454	G	Sidechain
34	BA	455	A	Sidechain
34	BA	457	A	Sidechain
34	BA	458	G	Sidechain
34	BA	46	C	Sidechain
34	BA	460	G	Sidechain
34	BA	462	C	Sidechain
34	BA	463	A	Sidechain
34	BA	464	U	Sidechain
34	BA	466	G	Sidechain
34	BA	467	A	Sidechain
34	BA	469	C	Sidechain
34	BA	471	U	Sidechain
34	BA	472	G	Sidechain
34	BA	473	A	Sidechain
34	BA	474	A	Sidechain
34	BA	475	A	Sidechain
34	BA	476	U	Sidechain
34	BA	477	C	Sidechain
34	BA	478	G	Sidechain
34	BA	479	U	Sidechain
34	BA	48	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	480	G	Sidechain
34	BA	481	A	Sidechain
34	BA	484	A	Sidechain
34	BA	485	C	Sidechain
34	BA	486	G	Sidechain
34	BA	488	C	Sidechain
34	BA	49	A	Sidechain
34	BA	490	A	Sidechain
34	BA	491	U	Sidechain
34	BA	492	G	Sidechain
34	BA	495	A	Sidechain
34	BA	496	G	Sidechain
34	BA	498	A	Sidechain
34	BA	499	C	Sidechain
34	BA	500	C	Sidechain
34	BA	501	U	Sidechain
34	BA	502	U	Sidechain
34	BA	503	C	Sidechain
34	BA	504	A	Sidechain
34	BA	505	U	Sidechain
34	BA	506	U	Sidechain
34	BA	507	U	Sidechain
34	BA	51	C	Sidechain
34	BA	510	U	Sidechain
34	BA	511	U	Sidechain
34	BA	512	U	Sidechain
34	BA	513	U	Sidechain
34	BA	514	U	Sidechain
34	BA	515	U	Sidechain
34	BA	516	U	Sidechain
34	BA	517	A	Sidechain
34	BA	518	C	Sidechain
34	BA	519	G	Sidechain
34	BA	52	G	Sidechain
34	BA	520	G	Sidechain
34	BA	521	C	Sidechain
34	BA	522	C	Sidechain
34	BA	523	A	Sidechain
34	BA	525	A	Sidechain
34	BA	526	C	Sidechain
34	BA	527	C	Sidechain
34	BA	528	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	529	A	Sidechain
34	BA	53	G	Sidechain
34	BA	530	A	Sidechain
34	BA	531	C	Sidechain
34	BA	532	C	Sidechain
34	BA	533	U	Sidechain
34	BA	534	C	Sidechain
34	BA	535	G	Sidechain
34	BA	537	C	Sidechain
34	BA	538	G	Sidechain
34	BA	539	C	Sidechain
34	BA	540	G	Sidechain
34	BA	541	C	Sidechain
34	BA	542	A	Sidechain
34	BA	543	A	Sidechain
34	BA	544	U	Sidechain
34	BA	546	U	Sidechain
34	BA	548	G	Sidechain
34	BA	549	G	Sidechain
34	BA	55	G	Sidechain
34	BA	550	U	Sidechain
34	BA	555	C	Sidechain
34	BA	556	A	Sidechain
34	BA	557	U	Sidechain
34	BA	559	C	Sidechain
34	BA	56	G	Sidechain
34	BA	560	U	Sidechain
34	BA	563	A	Sidechain
34	BA	564	C	Sidechain
34	BA	565	U	Sidechain
34	BA	566	G	Sidechain
34	BA	567	U	Sidechain
34	BA	568	G	Sidechain
34	BA	569	C	Sidechain
34	BA	57	A	Sidechain
34	BA	570	G	Sidechain
34	BA	571	G	Sidechain
34	BA	572	G	Sidechain
34	BA	573	U	Sidechain
34	BA	574	U	Sidechain
34	BA	575	U	Sidechain
34	BA	578	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	579	U	Sidechain
34	BA	58	A	Sidechain
34	BA	581	U	Sidechain
34	BA	582	U	Sidechain
34	BA	583	G	Sidechain
34	BA	584	A	Sidechain
34	BA	585	G	Sidechain
34	BA	586	G	Sidechain
34	BA	588	C	Sidechain
34	BA	589	A	Sidechain
34	BA	59	A	Sidechain
34	BA	590	U	Sidechain
34	BA	591	G	Sidechain
34	BA	592	G	Sidechain
34	BA	593	G	Sidechain
34	BA	594	G	Sidechain
34	BA	595	U	Sidechain
34	BA	596	G	Sidechain
34	BA	597	C	Sidechain
34	BA	598	G	Sidechain
34	BA	599	U	Sidechain
34	BA	6	C	Sidechain
34	BA	60	A	Sidechain
34	BA	600	G	Sidechain
34	BA	601	A	Sidechain
34	BA	602	G	Sidechain
34	BA	605	G	Sidechain
34	BA	606	G	Sidechain
34	BA	607	C	Sidechain
34	BA	608	G	Sidechain
34	BA	61	G	Sidechain
34	BA	610	A	Sidechain
34	BA	611	A	Sidechain
34	BA	613	A	Sidechain
34	BA	615	A	Sidechain
34	BA	616	G	Sidechain
34	BA	621	G	Sidechain
34	BA	622	G	Sidechain
34	BA	623	U	Sidechain
34	BA	624	G	Sidechain
34	BA	625	U	Sidechain
34	BA	626	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	627	U	Sidechain
34	BA	628	U	Sidechain
34	BA	629	G	Sidechain
34	BA	63	A	Sidechain
34	BA	630	U	Sidechain
34	BA	631	G	Sidechain
34	BA	633	G	Sidechain
34	BA	641	U	Sidechain
34	BA	649	A	Sidechain
34	BA	651	U	Sidechain
34	BA	652	C	Sidechain
34	BA	653	U	Sidechain
34	BA	654	C	Sidechain
34	BA	656	U	Sidechain
34	BA	657	C	Sidechain
34	BA	659	U	Sidechain
34	BA	660	C	Sidechain
34	BA	661	C	Sidechain
34	BA	662	U	Sidechain
34	BA	663	U	Sidechain
34	BA	664	C	Sidechain
34	BA	665	C	Sidechain
34	BA	666	C	Sidechain
34	BA	667	U	Sidechain
34	BA	668	G	Sidechain
34	BA	669	U	Sidechain
34	BA	67	A	Sidechain
34	BA	670	U	Sidechain
34	BA	671	C	Sidechain
34	BA	672	G	Sidechain
34	BA	673	U	Sidechain
34	BA	674	G	Sidechain
34	BA	675	C	Sidechain
34	BA	676	G	Sidechain
34	BA	677	U	Sidechain
34	BA	678	C	Sidechain
34	BA	679	U	Sidechain
34	BA	68	A	Sidechain
34	BA	680	C	Sidechain
34	BA	681	G	Sidechain
34	BA	682	A	Sidechain
34	BA	683	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	684	G	Sidechain
34	BA	685	C	Sidechain
34	BA	686	U	Sidechain
34	BA	687	G	Sidechain
34	BA	688	G	Sidechain
34	BA	689	C	Sidechain
34	BA	69	C	Sidechain
34	BA	690	G	Sidechain
34	BA	691	A	Sidechain
34	BA	692	U	Sidechain
34	BA	693	G	Sidechain
34	BA	695	A	Sidechain
34	BA	696	A	Sidechain
34	BA	697	A	Sidechain
34	BA	699	G	Sidechain
34	BA	7	U	Sidechain
34	BA	70	C	Sidechain
34	BA	700	G	Sidechain
34	BA	701	G	Sidechain
34	BA	703	U	Sidechain
34	BA	704	G	Sidechain
34	BA	705	C	Sidechain
34	BA	706	C	Sidechain
34	BA	707	C	Sidechain
34	BA	708	C	Sidechain
34	BA	709	C	Sidechain
34	BA	71	G	Sidechain
34	BA	710	A	Sidechain
34	BA	711	C	Sidechain
34	BA	712	C	Sidechain
34	BA	713	C	Sidechain
34	BA	714	G	Sidechain
34	BA	715	U	Sidechain
34	BA	716	C	Sidechain
34	BA	717	U	Sidechain
34	BA	718	U	Sidechain
34	BA	719	G	Sidechain
34	BA	72	U	Sidechain
34	BA	721	A	Sidechain
34	BA	723	C	Sidechain
34	BA	725	C	Sidechain
34	BA	726	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	727	G	Sidechain
34	BA	728	A	Sidechain
34	BA	73	G	Sidechain
34	BA	730	C	Sidechain
34	BA	731	A	Sidechain
34	BA	732	A	Sidechain
34	BA	733	G	Sidechain
34	BA	736	G	Sidechain
34	BA	738	C	Sidechain
34	BA	739	A	Sidechain
34	BA	740	A	Sidechain
34	BA	741	A	Sidechain
34	BA	742	C	Sidechain
34	BA	743	A	Sidechain
34	BA	744	G	Sidechain
34	BA	745	A	Sidechain
34	BA	746	C	Sidechain
34	BA	747	G	Sidechain
34	BA	75	U	Sidechain
34	BA	751	A	Sidechain
34	BA	753	G	Sidechain
34	BA	755	G	Sidechain
34	BA	756	A	Sidechain
34	BA	757	G	Sidechain
34	BA	758	G	Sidechain
34	BA	759	A	Sidechain
34	BA	76	U	Sidechain
34	BA	761	U	Sidechain
34	BA	762	A	Sidechain
34	BA	763	U	Sidechain
34	BA	764	G	Sidechain
34	BA	765	U	Sidechain
34	BA	766	A	Sidechain
34	BA	767	U	Sidechain
34	BA	769	U	Sidechain
34	BA	77	C	Sidechain
34	BA	770	G	Sidechain
34	BA	771	A	Sidechain
34	BA	772	G	Sidechain
34	BA	773	A	Sidechain
34	BA	774	A	Sidechain
34	BA	775	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	776	U	Sidechain
34	BA	777	C	Sidechain
34	BA	779	U	Sidechain
34	BA	78	U	Sidechain
34	BA	780	U	Sidechain
34	BA	781	U	Sidechain
34	BA	782	C	Sidechain
34	BA	783	U	Sidechain
34	BA	785	G	Sidechain
34	BA	786	U	Sidechain
34	BA	787	A	Sidechain
34	BA	788	C	Sidechain
34	BA	789	U	Sidechain
34	BA	79	C	Sidechain
34	BA	790	G	Sidechain
34	BA	792	A	Sidechain
34	BA	794	G	Sidechain
34	BA	796	G	Sidechain
34	BA	798	G	Sidechain
34	BA	799	A	Sidechain
34	BA	8	G	Sidechain
34	BA	80	U	Sidechain
34	BA	800	G	Sidechain
34	BA	801	U	Sidechain
34	BA	802	G	Sidechain
34	BA	803	U	Sidechain
34	BA	804	G	Sidechain
34	BA	805	A	Sidechain
34	BA	806	U	Sidechain
34	BA	807	U	Sidechain
34	BA	808	U	Sidechain
34	BA	812	A	Sidechain
34	BA	814	C	Sidechain
34	BA	815	C	Sidechain
34	BA	816	G	Sidechain
34	BA	817	U	Sidechain
34	BA	819	G	Sidechain
34	BA	82	A	Sidechain
34	BA	820	C	Sidechain
34	BA	821	G	Sidechain
34	BA	822	U	Sidechain
34	BA	823	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	824	C	Sidechain
34	BA	825	G	Sidechain
34	BA	828	A	Sidechain
34	BA	829	U	Sidechain
34	BA	83	G	Sidechain
34	BA	830	U	Sidechain
34	BA	832	C	Sidechain
34	BA	833	U	Sidechain
34	BA	834	C	Sidechain
34	BA	835	U	Sidechain
34	BA	836	U	Sidechain
34	BA	837	U	Sidechain
34	BA	838	U	Sidechain
34	BA	839	U	Sidechain
34	BA	84	U	Sidechain
34	BA	840	U	Sidechain
34	BA	842	U	Sidechain
34	BA	844	U	Sidechain
34	BA	845	U	Sidechain
34	BA	847	U	Sidechain
34	BA	848	U	Sidechain
34	BA	849	G	Sidechain
34	BA	852	C	Sidechain
34	BA	853	A	Sidechain
34	BA	854	A	Sidechain
34	BA	855	C	Sidechain
34	BA	858	C	Sidechain
34	BA	859	G	Sidechain
34	BA	86	A	Sidechain
34	BA	860	G	Sidechain
34	BA	862	C	Sidechain
34	BA	863	G	Sidechain
34	BA	864	G	Sidechain
34	BA	87	G	Sidechain
34	BA	870	C	Sidechain
34	BA	871	G	Sidechain
34	BA	872	U	Sidechain
34	BA	873	G	Sidechain
34	BA	874	G	Sidechain
34	BA	875	G	Sidechain
34	BA	876	C	Sidechain
34	BA	877	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	878	G	Sidechain
34	BA	879	C	Sidechain
34	BA	88	C	Sidechain
34	BA	880	G	Sidechain
34	BA	882	G	Sidechain
34	BA	883	C	Sidechain
34	BA	884	G	Sidechain
34	BA	886	G	Sidechain
34	BA	887	U	Sidechain
34	BA	889	U	Sidechain
34	BA	89	G	Sidechain
34	BA	890	G	Sidechain
34	BA	893	U	Sidechain
34	BA	894	G	Sidechain
34	BA	895	U	Sidechain
34	BA	896	U	Sidechain
34	BA	897	U	Sidechain
34	BA	898	G	Sidechain
34	BA	899	G	Sidechain
34	BA	9	A	Sidechain
34	BA	90	G	Sidechain
34	BA	900	A	Sidechain
34	BA	901	C	Sidechain
34	BA	902	C	Sidechain
34	BA	903	C	Sidechain
34	BA	904	G	Sidechain
34	BA	905	A	Sidechain
34	BA	906	A	Sidechain
34	BA	909	G	Sidechain
34	BA	91	C	Sidechain
34	BA	910	U	Sidechain
34	BA	912	G	Sidechain
34	BA	913	U	Sidechain
34	BA	914	G	Sidechain
34	BA	915	A	Sidechain
34	BA	916	A	Sidechain
34	BA	917	C	Sidechain
34	BA	918	U	Sidechain
34	BA	919	A	Sidechain
34	BA	92	G	Sidechain
34	BA	920	U	Sidechain
34	BA	921	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	923	C	Sidechain
34	BA	924	U	Sidechain
34	BA	925	G	Sidechain
34	BA	926	A	Sidechain
34	BA	928	C	Sidechain
34	BA	929	A	Sidechain
34	BA	93	A	Sidechain
34	BA	930	A	Sidechain
34	BA	931	G	Sidechain
34	BA	932	G	Sidechain
34	BA	933	U	Sidechain
34	BA	934	G	Sidechain
34	BA	937	G	Sidechain
34	BA	939	C	Sidechain
34	BA	94	G	Sidechain
34	BA	940	C	Sidechain
34	BA	941	G	Sidechain
34	BA	942	G	Sidechain
34	BA	944	G	Sidechain
34	BA	945	A	Sidechain
34	BA	946	A	Sidechain
34	BA	947	A	Sidechain
34	BA	95	C	Sidechain
34	BA	950	C	Sidechain
34	BA	952	G	Sidechain
34	BA	953	G	Sidechain
34	BA	954	U	Sidechain
34	BA	956	G	Sidechain
34	BA	957	A	Sidechain
34	BA	959	G	Sidechain
34	BA	96	G	Sidechain
34	BA	960	C	Sidechain
34	BA	961	C	Sidechain
34	BA	962	U	Sidechain
34	BA	963	G	Sidechain
34	BA	964	U	Sidechain
34	BA	965	A	Sidechain
34	BA	968	G	Sidechain
34	BA	97	A	Sidechain
34	BA	970	U	Sidechain
34	BA	972	C	Sidechain
34	BA	974	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	975	A	Sidechain
34	BA	976	C	Sidechain
34	BA	977	G	Sidechain
34	BA	98	A	Sidechain
34	BA	980	C	Sidechain
34	BA	982	A	Sidechain
34	BA	984	U	Sidechain
34	BA	985	C	Sidechain
34	BA	986	G	Sidechain
34	BA	987	C	Sidechain
34	BA	99	G	Sidechain
34	BA	991	U	Sidechain
34	BA	992	A	Sidechain
34	BA	993	C	Sidechain
34	BA	994	G	Sidechain
34	BA	996	U	Sidechain
34	BA	997	U	Sidechain
34	BA	998	U	Sidechain
34	BA	999	G	Sidechain
35	BB	1	U	Sidechain
35	BB	100	A	Sidechain
35	BB	1001	G	Sidechain
35	BB	1003	G	Sidechain
35	BB	1004	A	Sidechain
35	BB	1005	A	Sidechain
35	BB	1007	U	Sidechain
35	BB	101	U	Sidechain
35	BB	1012	G	Sidechain
35	BB	1014	U	Sidechain
35	BB	1015	U	Sidechain
35	BB	1016	C	Sidechain
35	BB	1017	U	Sidechain
35	BB	1018	U	Sidechain
35	BB	1019	C	Sidechain
35	BB	102	G	Sidechain
35	BB	1020	U	Sidechain
35	BB	1021	C	Sidechain
35	BB	1022	C	Sidechain
35	BB	1023	G	Sidechain
35	BB	1024	G	Sidechain
35	BB	1025	A	Sidechain
35	BB	1026	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1027	U	Sidechain
35	BB	1028	C	Sidechain
35	BB	1029	U	Sidechain
35	BB	1030	U	Sidechain
35	BB	1031	G	Sidechain
35	BB	1032	U	Sidechain
35	BB	1033	U	Sidechain
35	BB	1034	U	Sidechain
35	BB	1035	C	Sidechain
35	BB	1036	G	Sidechain
35	BB	1037	A	Sidechain
35	BB	1038	G	Sidechain
35	BB	104	G	Sidechain
35	BB	1040	C	Sidechain
35	BB	1041	A	Sidechain
35	BB	1042	U	Sidechain
35	BB	1044	U	Sidechain
35	BB	1045	G	Sidechain
35	BB	1048	A	Sidechain
35	BB	1049	G	Sidechain
35	BB	105	U	Sidechain
35	BB	1051	U	Sidechain
35	BB	1053	G	Sidechain
35	BB	1054	G	Sidechain
35	BB	1055	G	Sidechain
35	BB	1056	A	Sidechain
35	BB	1057	G	Sidechain
35	BB	1058	U	Sidechain
35	BB	1059	U	Sidechain
35	BB	1060	U	Sidechain
35	BB	1062	G	Sidechain
35	BB	1063	C	Sidechain
35	BB	1064	U	Sidechain
35	BB	1066	G	Sidechain
35	BB	1068	G	Sidechain
35	BB	1070	G	Sidechain
35	BB	1071	G	Sidechain
35	BB	1072	C	Sidechain
35	BB	1073	A	Sidechain
35	BB	1074	U	Sidechain
35	BB	1075	A	Sidechain
35	BB	1078	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1079	G	Sidechain
35	BB	108	G	Sidechain
35	BB	1081	U	Sidechain
35	BB	1082	A	Sidechain
35	BB	1083	C	Sidechain
35	BB	1084	A	Sidechain
35	BB	1085	C	Sidechain
35	BB	1086	G	Sidechain
35	BB	1087	A	Sidechain
35	BB	1088	C	Sidechain
35	BB	109	U	Sidechain
35	BB	1090	A	Sidechain
35	BB	1092	G	Sidechain
35	BB	1093	C	Sidechain
35	BB	1094	A	Sidechain
35	BB	1095	G	Sidechain
35	BB	1097	U	Sidechain
35	BB	1098	G	Sidechain
35	BB	1099	U	Sidechain
35	BB	110	U	Sidechain
35	BB	1100	C	Sidechain
35	BB	1102	U	Sidechain
35	BB	1103	A	Sidechain
35	BB	1104	A	Sidechain
35	BB	1105	G	Sidechain
35	BB	1106	G	Sidechain
35	BB	1107	C	Sidechain
35	BB	1108	G	Sidechain
35	BB	1109	A	Sidechain
35	BB	111	C	Sidechain
35	BB	1110	G	Sidechain
35	BB	1112	U	Sidechain
35	BB	1114	A	Sidechain
35	BB	1115	G	Sidechain
35	BB	1116	U	Sidechain
35	BB	112	G	Sidechain
35	BB	1120	A	Sidechain
35	BB	1122	C	Sidechain
35	BB	1123	A	Sidechain
35	BB	1124	G	Sidechain
35	BB	1125	A	Sidechain
35	BB	1126	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1128	U	Sidechain
35	BB	1129	C	Sidechain
35	BB	1130	U	Sidechain
35	BB	1131	C	Sidechain
35	BB	1132	A	Sidechain
35	BB	1134	G	Sidechain
35	BB	1136	G	Sidechain
35	BB	1137	G	Sidechain
35	BB	1138	A	Sidechain
35	BB	114	A	Sidechain
35	BB	1140	C	Sidechain
35	BB	1142	C	Sidechain
35	BB	1143	A	Sidechain
35	BB	1144	A	Sidechain
35	BB	1145	G	Sidechain
35	BB	1148	U	Sidechain
35	BB	1149	A	Sidechain
35	BB	115	A	Sidechain
35	BB	1151	A	Sidechain
35	BB	1152	U	Sidechain
35	BB	1153	G	Sidechain
35	BB	1154	C	Sidechain
35	BB	1155	U	Sidechain
35	BB	1156	U	Sidechain
35	BB	1159	U	Sidechain
35	BB	116	G	Sidechain
35	BB	1160	U	Sidechain
35	BB	1161	G	Sidechain
35	BB	1163	U	Sidechain
35	BB	1164	U	Sidechain
35	BB	1165	A	Sidechain
35	BB	1166	A	Sidechain
35	BB	1167	C	Sidechain
35	BB	1168	G	Sidechain
35	BB	1169	A	Sidechain
35	BB	1170	U	Sidechain
35	BB	1172	U	Sidechain
35	BB	1174	C	Sidechain
35	BB	1175	A	Sidechain
35	BB	1177	U	Sidechain
35	BB	1178	A	Sidechain
35	BB	1180	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1181	A	Sidechain
35	BB	1183	U	Sidechain
35	BB	1184	C	Sidechain
35	BB	1185	G	Sidechain
35	BB	1186	A	Sidechain
35	BB	1187	G	Sidechain
35	BB	119	G	Sidechain
35	BB	1190	U	Sidechain
35	BB	1192	C	Sidechain
35	BB	1193	G	Sidechain
35	BB	1194	A	Sidechain
35	BB	1195	A	Sidechain
35	BB	1196	A	Sidechain
35	BB	1197	G	Sidechain
35	BB	12	G	Sidechain
35	BB	1200	A	Sidechain
35	BB	1201	G	Sidechain
35	BB	1202	G	Sidechain
35	BB	1203	C	Sidechain
35	BB	1205	A	Sidechain
35	BB	1207	C	Sidechain
35	BB	1208	G	Sidechain
35	BB	1209	A	Sidechain
35	BB	121	A	Sidechain
35	BB	1210	U	Sidechain
35	BB	1211	C	Sidechain
35	BB	1212	C	Sidechain
35	BB	1213	U	Sidechain
35	BB	1214	U	Sidechain
35	BB	1215	U	Sidechain
35	BB	1216	G	Sidechain
35	BB	1217	C	Sidechain
35	BB	1218	G	Sidechain
35	BB	122	U	Sidechain
35	BB	1220	A	Sidechain
35	BB	1221	G	Sidechain
35	BB	1222	A	Sidechain
35	BB	1223	A	Sidechain
35	BB	1225	A	Sidechain
35	BB	1226	G	Sidechain
35	BB	1227	G	Sidechain
35	BB	1229	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	123	U	Sidechain
35	BB	1230	A	Sidechain
35	BB	1232	A	Sidechain
35	BB	1233	U	Sidechain
35	BB	1234	G	Sidechain
35	BB	1236	A	Sidechain
35	BB	1240	A	Sidechain
35	BB	1241	U	Sidechain
35	BB	1243	A	Sidechain
35	BB	1244	U	Sidechain
35	BB	1246	C	Sidechain
35	BB	1248	A	Sidechain
35	BB	1249	G	Sidechain
35	BB	125	G	Sidechain
35	BB	1251	G	Sidechain
35	BB	1252	G	Sidechain
35	BB	1253	U	Sidechain
35	BB	1254	G	Sidechain
35	BB	1256	C	Sidechain
35	BB	1257	A	Sidechain
35	BB	1258	G	Sidechain
35	BB	1259	A	Sidechain
35	BB	1261	U	Sidechain
35	BB	1262	A	Sidechain
35	BB	1265	U	Sidechain
35	BB	1266	A	Sidechain
35	BB	1267	C	Sidechain
35	BB	127	U	Sidechain
35	BB	1270	C	Sidechain
35	BB	1271	A	Sidechain
35	BB	1272	G	Sidechain
35	BB	1273	G	Sidechain
35	BB	1274	G	Sidechain
35	BB	1276	U	Sidechain
35	BB	1279	C	Sidechain
35	BB	128	C	Sidechain
35	BB	1280	U	Sidechain
35	BB	1281	G	Sidechain
35	BB	1282	G	Sidechain
35	BB	1283	C	Sidechain
35	BB	1284	U	Sidechain
35	BB	1285	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1286	G	Sidechain
35	BB	1287	U	Sidechain
35	BB	1289	G	Sidechain
35	BB	129	U	Sidechain
35	BB	1290	C	Sidechain
35	BB	1291	G	Sidechain
35	BB	1292	G	Sidechain
35	BB	1293	C	Sidechain
35	BB	1295	A	Sidechain
35	BB	1297	G	Sidechain
35	BB	1299	G	Sidechain
35	BB	13	A	Sidechain
35	BB	1300	U	Sidechain
35	BB	1301	U	Sidechain
35	BB	1302	C	Sidechain
35	BB	1304	U	Sidechain
35	BB	1305	A	Sidechain
35	BB	1307	C	Sidechain
35	BB	1310	C	Sidechain
35	BB	1312	U	Sidechain
35	BB	1315	C	Sidechain
35	BB	1316	U	Sidechain
35	BB	1317	U	Sidechain
35	BB	1318	U	Sidechain
35	BB	1319	U	Sidechain
35	BB	132	G	Sidechain
35	BB	1320	U	Sidechain
35	BB	1321	G	Sidechain
35	BB	1323	U	Sidechain
35	BB	1324	C	Sidechain
35	BB	1326	U	Sidechain
35	BB	1327	U	Sidechain
35	BB	133	G	Sidechain
35	BB	1330	A	Sidechain
35	BB	1331	U	Sidechain
35	BB	1332	G	Sidechain
35	BB	1333	U	Sidechain
35	BB	1334	C	Sidechain
35	BB	1335	G	Sidechain
35	BB	1337	C	Sidechain
35	BB	1338	U	Sidechain
35	BB	1339	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1340	U	Sidechain
35	BB	1341	U	Sidechain
35	BB	1342	C	Sidechain
35	BB	1343	C	Sidechain
35	BB	1345	A	Sidechain
35	BB	1346	A	Sidechain
35	BB	1348	C	Sidechain
35	BB	135	C	Sidechain
35	BB	1350	A	Sidechain
35	BB	1353	G	Sidechain
35	BB	1354	C	Sidechain
35	BB	1356	G	Sidechain
35	BB	1357	C	Sidechain
35	BB	1360	A	Sidechain
35	BB	1361	A	Sidechain
35	BB	1362	G	Sidechain
35	BB	1364	C	Sidechain
35	BB	1367	U	Sidechain
35	BB	1368	A	Sidechain
35	BB	1369	A	Sidechain
35	BB	137	A	Sidechain
35	BB	1370	G	Sidechain
35	BB	1372	G	Sidechain
35	BB	1374	U	Sidechain
35	BB	1375	G	Sidechain
35	BB	1376	G	Sidechain
35	BB	1377	A	Sidechain
35	BB	1378	U	Sidechain
35	BB	1379	U	Sidechain
35	BB	138	A	Sidechain
35	BB	1381	U	Sidechain
35	BB	1382	U	Sidechain
35	BB	1383	C	Sidechain
35	BB	1384	A	Sidechain
35	BB	1385	C	Sidechain
35	BB	1386	C	Sidechain
35	BB	1387	C	Sidechain
35	BB	1388	A	Sidechain
35	BB	139	G	Sidechain
35	BB	1390	U	Sidechain
35	BB	1391	G	Sidechain
35	BB	1392	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1393	C	Sidechain
35	BB	1394	A	Sidechain
35	BB	1395	G	Sidechain
35	BB	1396	G	Sidechain
35	BB	1397	G	Sidechain
35	BB	1399	A	Sidechain
35	BB	14	C	Sidechain
35	BB	1400	C	Sidechain
35	BB	1401	G	Sidechain
35	BB	1402	U	Sidechain
35	BB	1403	G	Sidechain
35	BB	1404	A	Sidechain
35	BB	1406	C	Sidechain
35	BB	1407	U	Sidechain
35	BB	1408	G	Sidechain
35	BB	1409	G	Sidechain
35	BB	1410	G	Sidechain
35	BB	1411	U	Sidechain
35	BB	1413	U	Sidechain
35	BB	1415	G	Sidechain
35	BB	1416	A	Sidechain
35	BB	1417	C	Sidechain
35	BB	1418	C	Sidechain
35	BB	1419	G	Sidechain
35	BB	142	G	Sidechain
35	BB	1420	U	Sidechain
35	BB	1422	G	Sidechain
35	BB	1423	U	Sidechain
35	BB	1424	G	Sidechain
35	BB	1425	A	Sidechain
35	BB	1426	G	Sidechain
35	BB	1427	A	Sidechain
35	BB	1429	A	Sidechain
35	BB	143	G	Sidechain
35	BB	1430	G	Sidechain
35	BB	1432	U	Sidechain
35	BB	1433	U	Sidechain
35	BB	1434	G	Sidechain
35	BB	1435	G	Sidechain
35	BB	1436	U	Sidechain
35	BB	1437	U	Sidechain
35	BB	1438	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1439	U	Sidechain
35	BB	144	G	Sidechain
35	BB	1441	C	Sidechain
35	BB	1442	C	Sidechain
35	BB	1443	C	Sidechain
35	BB	1445	A	Sidechain
35	BB	1446	C	Sidechain
35	BB	1447	U	Sidechain
35	BB	1448	U	Sidechain
35	BB	1452	U	Sidechain
35	BB	1453	G	Sidechain
35	BB	1454	G	Sidechain
35	BB	1455	A	Sidechain
35	BB	1456	G	Sidechain
35	BB	1458	U	Sidechain
35	BB	1459	U	Sidechain
35	BB	1461	C	Sidechain
35	BB	1462	G	Sidechain
35	BB	1464	G	Sidechain
35	BB	1465	U	Sidechain
35	BB	1466	A	Sidechain
35	BB	1467	A	Sidechain
35	BB	1468	A	Sidechain
35	BB	1469	A	Sidechain
35	BB	1470	G	Sidechain
35	BB	1472	U	Sidechain
35	BB	1473	U	Sidechain
35	BB	1474	A	Sidechain
35	BB	1475	U	Sidechain
35	BB	1477	C	Sidechain
35	BB	1478	G	Sidechain
35	BB	148	C	Sidechain
35	BB	1480	G	Sidechain
35	BB	1481	C	Sidechain
35	BB	1482	A	Sidechain
35	BB	1484	A	Sidechain
35	BB	1485	G	Sidechain
35	BB	1487	G	Sidechain
35	BB	1488	G	Sidechain
35	BB	1489	A	Sidechain
35	BB	149	A	Sidechain
35	BB	1490	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1492	C	Sidechain
35	BB	1494	G	Sidechain
35	BB	1495	U	Sidechain
35	BB	1496	C	Sidechain
35	BB	1497	C	Sidechain
35	BB	1498	G	Sidechain
35	BB	15	C	Sidechain
35	BB	1500	U	Sidechain
35	BB	1501	U	Sidechain
35	BB	1502	U	Sidechain
35	BB	1503	U	Sidechain
35	BB	1505	U	Sidechain
35	BB	1506	C	Sidechain
35	BB	1507	U	Sidechain
35	BB	1508	G	Sidechain
35	BB	1509	G	Sidechain
35	BB	1510	G	Sidechain
35	BB	1511	U	Sidechain
35	BB	1512	C	Sidechain
35	BB	1513	U	Sidechain
35	BB	1517	G	Sidechain
35	BB	1518	U	Sidechain
35	BB	152	G	Sidechain
35	BB	1520	C	Sidechain
35	BB	1521	G	Sidechain
35	BB	1523	U	Sidechain
35	BB	1527	A	Sidechain
35	BB	1528	U	Sidechain
35	BB	1529	G	Sidechain
35	BB	1530	U	Sidechain
35	BB	1532	C	Sidechain
35	BB	1533	U	Sidechain
35	BB	1534	U	Sidechain
35	BB	1538	G	Sidechain
35	BB	1539	C	Sidechain
35	BB	154	A	Sidechain
35	BB	1541	G	Sidechain
35	BB	1542	C	Sidechain
35	BB	1543	C	Sidechain
35	BB	1547	U	Sidechain
35	BB	1548	C	Sidechain
35	BB	156	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	157	G	Sidechain
35	BB	16	G	Sidechain
35	BB	163	G	Sidechain
35	BB	164	U	Sidechain
35	BB	168	U	Sidechain
35	BB	17	U	Sidechain
35	BB	2	C	Sidechain
35	BB	20	U	Sidechain
35	BB	21	C	Sidechain
35	BB	23	U	Sidechain
35	BB	24	C	Sidechain
35	BB	25	A	Sidechain
35	BB	256	G	Sidechain
35	BB	265	C	Sidechain
35	BB	266	C	Sidechain
35	BB	267	C	Sidechain
35	BB	27	C	Sidechain
35	BB	273	G	Sidechain
35	BB	274	U	Sidechain
35	BB	278	U	Sidechain
35	BB	279	A	Sidechain
35	BB	281	U	Sidechain
35	BB	285	C	Sidechain
35	BB	289	U	Sidechain
35	BB	29	C	Sidechain
35	BB	292	U	Sidechain
35	BB	298	G	Sidechain
35	BB	3	C	Sidechain
35	BB	30	A	Sidechain
35	BB	305	U	Sidechain
35	BB	307	A	Sidechain
35	BB	31	U	Sidechain
35	BB	311	C	Sidechain
35	BB	314	A	Sidechain
35	BB	315	C	Sidechain
35	BB	317	C	Sidechain
35	BB	32	C	Sidechain
35	BB	323	C	Sidechain
35	BB	325	G	Sidechain
35	BB	326	G	Sidechain
35	BB	328	G	Sidechain
35	BB	33	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	332	U	Sidechain
35	BB	339	C	Sidechain
35	BB	34	G	Sidechain
35	BB	341	U	Sidechain
35	BB	345	U	Sidechain
35	BB	348	G	Sidechain
35	BB	353	G	Sidechain
35	BB	357	C	Sidechain
35	BB	358	U	Sidechain
35	BB	359	A	Sidechain
35	BB	36	U	Sidechain
35	BB	361	A	Sidechain
35	BB	362	A	Sidechain
35	BB	364	U	Sidechain
35	BB	365	U	Sidechain
35	BB	366	G	Sidechain
35	BB	367	C	Sidechain
35	BB	368	C	Sidechain
35	BB	369	A	Sidechain
35	BB	37	C	Sidechain
35	BB	370	A	Sidechain
35	BB	371	C	Sidechain
35	BB	372	U	Sidechain
35	BB	373	C	Sidechain
35	BB	374	A	Sidechain
35	BB	375	G	Sidechain
35	BB	376	A	Sidechain
35	BB	377	A	Sidechain
35	BB	38	C	Sidechain
35	BB	380	G	Sidechain
35	BB	382	U	Sidechain
35	BB	383	U	Sidechain
35	BB	384	A	Sidechain
35	BB	386	G	Sidechain
35	BB	387	G	Sidechain
35	BB	388	C	Sidechain
35	BB	389	G	Sidechain
35	BB	39	C	Sidechain
35	BB	390	G	Sidechain
35	BB	391	G	Sidechain
35	BB	392	G	Sidechain
35	BB	393	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	395	U	Sidechain
35	BB	396	C	Sidechain
35	BB	398	A	Sidechain
35	BB	399	A	Sidechain
35	BB	40	C	Sidechain
35	BB	400	C	Sidechain
35	BB	401	U	Sidechain
35	BB	402	G	Sidechain
35	BB	403	U	Sidechain
35	BB	404	A	Sidechain
35	BB	405	U	Sidechain
35	BB	406	A	Sidechain
35	BB	407	A	Sidechain
35	BB	409	U	Sidechain
35	BB	41	A	Sidechain
35	BB	413	A	Sidechain
35	BB	414	C	Sidechain
35	BB	415	A	Sidechain
35	BB	416	U	Sidechain
35	BB	417	A	Sidechain
35	BB	418	G	Sidechain
35	BB	419	G	Sidechain
35	BB	42	A	Sidechain
35	BB	420	U	Sidechain
35	BB	421	U	Sidechain
35	BB	423	G	Sidechain
35	BB	424	U	Sidechain
35	BB	425	G	Sidechain
35	BB	427	U	Sidechain
35	BB	428	G	Sidechain
35	BB	429	C	Sidechain
35	BB	43	G	Sidechain
35	BB	431	U	Sidechain
35	BB	432	C	Sidechain
35	BB	433	C	Sidechain
35	BB	434	A	Sidechain
35	BB	435	A	Sidechain
35	BB	436	G	Sidechain
35	BB	437	U	Sidechain
35	BB	439	G	Sidechain
35	BB	440	U	Sidechain
35	BB	441	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	442	U	Sidechain
35	BB	443	A	Sidechain
35	BB	444	U	Sidechain
35	BB	445	G	Sidechain
35	BB	448	G	Sidechain
35	BB	449	C	Sidechain
35	BB	45	A	Sidechain
35	BB	450	A	Sidechain
35	BB	451	A	Sidechain
35	BB	452	A	Sidechain
35	BB	454	U	Sidechain
35	BB	455	G	Sidechain
35	BB	456	A	Sidechain
35	BB	457	U	Sidechain
35	BB	458	U	Sidechain
35	BB	459	U	Sidechain
35	BB	46	U	Sidechain
35	BB	460	C	Sidechain
35	BB	461	U	Sidechain
35	BB	462	G	Sidechain
35	BB	464	C	Sidechain
35	BB	466	A	Sidechain
35	BB	469	G	Sidechain
35	BB	47	C	Sidechain
35	BB	471	U	Sidechain
35	BB	472	C	Sidechain
35	BB	473	U	Sidechain
35	BB	474	G	Sidechain
35	BB	475	A	Sidechain
35	BB	476	A	Sidechain
35	BB	477	U	Sidechain
35	BB	478	G	Sidechain
35	BB	48	G	Sidechain
35	BB	481	A	Sidechain
35	BB	484	G	Sidechain
35	BB	486	G	Sidechain
35	BB	487	A	Sidechain
35	BB	488	G	Sidechain
35	BB	489	A	Sidechain
35	BB	490	G	Sidechain
35	BB	491	A	Sidechain
35	BB	492	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	493	U	Sidechain
35	BB	497	C	Sidechain
35	BB	498	G	Sidechain
35	BB	499	A	Sidechain
35	BB	5	A	Sidechain
35	BB	50	A	Sidechain
35	BB	502	C	Sidechain
35	BB	503	G	Sidechain
35	BB	504	C	Sidechain
35	BB	507	G	Sidechain
35	BB	508	U	Sidechain
35	BB	51	U	Sidechain
35	BB	510	A	Sidechain
35	BB	512	C	Sidechain
35	BB	514	G	Sidechain
35	BB	515	C	Sidechain
35	BB	516	G	Sidechain
35	BB	517	G	Sidechain
35	BB	519	A	Sidechain
35	BB	52	G	Sidechain
35	BB	522	A	Sidechain
35	BB	524	C	Sidechain
35	BB	525	U	Sidechain
35	BB	526	A	Sidechain
35	BB	528	G	Sidechain
35	BB	53	C	Sidechain
35	BB	530	C	Sidechain
35	BB	533	U	Sidechain
35	BB	534	C	Sidechain
35	BB	536	U	Sidechain
35	BB	537	A	Sidechain
35	BB	538	A	Sidechain
35	BB	539	G	Sidechain
35	BB	54	U	Sidechain
35	BB	540	G	Sidechain
35	BB	544	C	Sidechain
35	BB	545	C	Sidechain
35	BB	546	A	Sidechain
35	BB	547	A	Sidechain
35	BB	549	U	Sidechain
35	BB	550	G	Sidechain
35	BB	551	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	553	U	Sidechain
35	BB	555	G	Sidechain
35	BB	556	U	Sidechain
35	BB	557	C	Sidechain
35	BB	558	U	Sidechain
35	BB	559	U	Sidechain
35	BB	56	U	Sidechain
35	BB	560	C	Sidechain
35	BB	561	C	Sidechain
35	BB	563	A	Sidechain
35	BB	564	U	Sidechain
35	BB	565	U	Sidechain
35	BB	57	G	Sidechain
35	BB	571	C	Sidechain
35	BB	572	G	Sidechain
35	BB	574	G	Sidechain
35	BB	575	C	Sidechain
35	BB	576	A	Sidechain
35	BB	577	U	Sidechain
35	BB	578	G	Sidechain
35	BB	579	A	Sidechain
35	BB	58	G	Sidechain
35	BB	580	A	Sidechain
35	BB	581	U	Sidechain
35	BB	582	G	Sidechain
35	BB	583	G	Sidechain
35	BB	585	U	Sidechain
35	BB	587	A	Sidechain
35	BB	588	A	Sidechain
35	BB	589	U	Sidechain
35	BB	59	U	Sidechain
35	BB	590	G	Sidechain
35	BB	591	A	Sidechain
35	BB	592	G	Sidechain
35	BB	593	A	Sidechain
35	BB	594	U	Sidechain
35	BB	595	U	Sidechain
35	BB	597	C	Sidechain
35	BB	598	C	Sidechain
35	BB	599	U	Sidechain
35	BB	6	A	Sidechain
35	BB	60	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	600	C	Sidechain
35	BB	601	U	Sidechain
35	BB	603	U	Sidechain
35	BB	604	C	Sidechain
35	BB	606	C	Sidechain
35	BB	607	G	Sidechain
35	BB	608	A	Sidechain
35	BB	61	A	Sidechain
35	BB	610	U	Sidechain
35	BB	611	U	Sidechain
35	BB	612	A	Sidechain
35	BB	614	U	Sidechain
35	BB	615	A	Sidechain
35	BB	616	U	Sidechain
35	BB	618	U	Sidechain
35	BB	62	C	Sidechain
35	BB	621	C	Sidechain
35	BB	622	G	Sidechain
35	BB	623	A	Sidechain
35	BB	624	A	Sidechain
35	BB	626	C	Sidechain
35	BB	628	A	Sidechain
35	BB	629	C	Sidechain
35	BB	631	G	Sidechain
35	BB	632	U	Sidechain
35	BB	633	C	Sidechain
35	BB	634	A	Sidechain
35	BB	638	G	Sidechain
35	BB	639	A	Sidechain
35	BB	64	U	Sidechain
35	BB	641	C	Sidechain
35	BB	643	G	Sidechain
35	BB	644	A	Sidechain
35	BB	645	C	Sidechain
35	BB	646	U	Sidechain
35	BB	647	U	Sidechain
35	BB	649	A	Sidechain
35	BB	650	A	Sidechain
35	BB	651	G	Sidechain
35	BB	652	G	Sidechain
35	BB	653	G	Sidechain
35	BB	654	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	655	U	Sidechain
35	BB	658	G	Sidechain
35	BB	659	C	Sidechain
35	BB	66	G	Sidechain
35	BB	660	G	Sidechain
35	BB	661	G	Sidechain
35	BB	663	G	Sidechain
35	BB	664	A	Sidechain
35	BB	665	A	Sidechain
35	BB	666	A	Sidechain
35	BB	667	G	Sidechain
35	BB	668	A	Sidechain
35	BB	67	A	Sidechain
35	BB	670	G	Sidechain
35	BB	671	A	Sidechain
35	BB	672	C	Sidechain
35	BB	674	C	Sidechain
35	BB	675	U	Sidechain
35	BB	676	G	Sidechain
35	BB	677	U	Sidechain
35	BB	678	U	Sidechain
35	BB	680	A	Sidechain
35	BB	681	G	Sidechain
35	BB	682	U	Sidechain
35	BB	683	U	Sidechain
35	BB	684	U	Sidechain
35	BB	685	G	Sidechain
35	BB	686	A	Sidechain
35	BB	687	C	Sidechain
35	BB	688	U	Sidechain
35	BB	69	A	Sidechain
35	BB	692	G	Sidechain
35	BB	693	U	Sidechain
35	BB	694	C	Sidechain
35	BB	695	U	Sidechain
35	BB	696	G	Sidechain
35	BB	697	G	Sidechain
35	BB	698	C	Sidechain
35	BB	699	U	Sidechain
35	BB	70	A	Sidechain
35	BB	700	C	Sidechain
35	BB	701	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	702	G	Sidechain
35	BB	703	U	Sidechain
35	BB	706	G	Sidechain
35	BB	709	G	Sidechain
35	BB	71	A	Sidechain
35	BB	711	C	Sidechain
35	BB	713	U	Sidechain
35	BB	714	U	Sidechain
35	BB	715	G	Sidechain
35	BB	716	G	Sidechain
35	BB	717	A	Sidechain
35	BB	719	G	Sidechain
35	BB	72	G	Sidechain
35	BB	723	A	Sidechain
35	BB	724	G	Sidechain
35	BB	726	A	Sidechain
35	BB	728	A	Sidechain
35	BB	729	G	Sidechain
35	BB	734	A	Sidechain
35	BB	736	G	Sidechain
35	BB	737	C	Sidechain
35	BB	738	G	Sidechain
35	BB	74	U	Sidechain
35	BB	741	A	Sidechain
35	BB	744	U	Sidechain
35	BB	746	A	Sidechain
35	BB	748	A	Sidechain
35	BB	749	U	Sidechain
35	BB	750	G	Sidechain
35	BB	751	A	Sidechain
35	BB	753	A	Sidechain
35	BB	754	U	Sidechain
35	BB	756	C	Sidechain
35	BB	757	C	Sidechain
35	BB	760	C	Sidechain
35	BB	762	C	Sidechain
35	BB	763	U	Sidechain
35	BB	764	C	Sidechain
35	BB	766	G	Sidechain
35	BB	767	A	Sidechain
35	BB	768	A	Sidechain
35	BB	769	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	770	G	Sidechain
35	BB	772	U	Sidechain
35	BB	773	G	Sidechain
35	BB	774	C	Sidechain
35	BB	775	U	Sidechain
35	BB	776	U	Sidechain
35	BB	777	C	Sidechain
35	BB	778	A	Sidechain
35	BB	779	C	Sidechain
35	BB	780	U	Sidechain
35	BB	781	U	Sidechain
35	BB	782	A	Sidechain
35	BB	783	U	Sidechain
35	BB	785	G	Sidechain
35	BB	786	A	Sidechain
35	BB	788	U	Sidechain
35	BB	789	G	Sidechain
35	BB	790	A	Sidechain
35	BB	791	A	Sidechain
35	BB	792	G	Sidechain
35	BB	793	A	Sidechain
35	BB	794	G	Sidechain
35	BB	795	A	Sidechain
35	BB	797	C	Sidechain
35	BB	798	A	Sidechain
35	BB	799	A	Sidechain
35	BB	8	U	Sidechain
35	BB	80	C	Sidechain
35	BB	800	U	Sidechain
35	BB	801	G	Sidechain
35	BB	802	G	Sidechain
35	BB	803	U	Sidechain
35	BB	804	U	Sidechain
35	BB	805	G	Sidechain
35	BB	807	U	Sidechain
35	BB	808	U	Sidechain
35	BB	809	U	Sidechain
35	BB	81	A	Sidechain
35	BB	810	G	Sidechain
35	BB	812	G	Sidechain
35	BB	815	G	Sidechain
35	BB	816	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	818	U	Sidechain
35	BB	822	G	Sidechain
35	BB	825	U	Sidechain
35	BB	826	G	Sidechain
35	BB	827	U	Sidechain
35	BB	828	G	Sidechain
35	BB	83	G	Sidechain
35	BB	830	G	Sidechain
35	BB	831	C	Sidechain
35	BB	832	C	Sidechain
35	BB	833	G	Sidechain
35	BB	834	U	Sidechain
35	BB	835	C	Sidechain
35	BB	836	U	Sidechain
35	BB	837	A	Sidechain
35	BB	838	G	Sidechain
35	BB	84	G	Sidechain
35	BB	840	C	Sidechain
35	BB	842	G	Sidechain
35	BB	843	G	Sidechain
35	BB	844	G	Sidechain
35	BB	845	C	Sidechain
35	BB	846	A	Sidechain
35	BB	847	U	Sidechain
35	BB	85	A	Sidechain
35	BB	850	U	Sidechain
35	BB	851	U	Sidechain
35	BB	852	G	Sidechain
35	BB	853	U	Sidechain
35	BB	854	G	Sidechain
35	BB	855	G	Sidechain
35	BB	856	U	Sidechain
35	BB	859	U	Sidechain
35	BB	860	U	Sidechain
35	BB	862	U	Sidechain
35	BB	864	U	Sidechain
35	BB	866	A	Sidechain
35	BB	868	C	Sidechain
35	BB	869	G	Sidechain
35	BB	870	C	Sidechain
35	BB	877	A	Sidechain
35	BB	878	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	879	G	Sidechain
35	BB	88	U	Sidechain
35	BB	881	G	Sidechain
35	BB	882	U	Sidechain
35	BB	884	U	Sidechain
35	BB	885	U	Sidechain
35	BB	886	G	Sidechain
35	BB	891	U	Sidechain
35	BB	893	U	Sidechain
35	BB	894	A	Sidechain
35	BB	895	U	Sidechain
35	BB	896	C	Sidechain
35	BB	897	C	Sidechain
35	BB	898	U	Sidechain
35	BB	899	C	Sidechain
35	BB	90	G	Sidechain
35	BB	901	U	Sidechain
35	BB	903	U	Sidechain
35	BB	91	G	Sidechain
35	BB	910	C	Sidechain
35	BB	915	U	Sidechain
35	BB	93	A	Sidechain
35	BB	931	U	Sidechain
35	BB	934	U	Sidechain
35	BB	94	A	Sidechain
35	BB	943	U	Sidechain
35	BB	95	A	Sidechain
35	BB	953	G	Sidechain
35	BB	956	G	Sidechain
35	BB	958	C	Sidechain
35	BB	959	C	Sidechain
35	BB	96	A	Sidechain
35	BB	964	G	Sidechain
35	BB	965	G	Sidechain
35	BB	966	C	Sidechain
35	BB	967	G	Sidechain
35	BB	968	C	Sidechain
35	BB	97	U	Sidechain
35	BB	971	A	Sidechain
35	BB	972	C	Sidechain
35	BB	973	G	Sidechain
35	BB	975	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	976	U	Sidechain
35	BB	977	G	Sidechain
35	BB	978	C	Sidechain
35	BB	979	G	Sidechain
35	BB	98	A	Sidechain
35	BB	981	A	Sidechain
35	BB	984	U	Sidechain
35	BB	986	C	Sidechain
35	BB	987	U	Sidechain
35	BB	988	G	Sidechain
35	BB	989	C	Sidechain
35	BB	99	G	Sidechain
35	BB	991	C	Sidechain
35	BB	992	C	Sidechain
35	BB	993	A	Sidechain
35	BB	994	A	Sidechain
35	BB	995	C	Sidechain
35	BB	996	G	Sidechain
35	BB	997	G	Sidechain
35	BB	998	G	Sidechain
36	BC	1	A	Sidechain
36	BC	100	U	Sidechain
36	BC	101	U	Sidechain
36	BC	102	G	Sidechain
36	BC	103	A	Sidechain
36	BC	104	A	Sidechain
36	BC	106	G	Sidechain
36	BC	107	C	Sidechain
36	BC	109	A	Sidechain
36	BC	11	G	Sidechain
36	BC	111	C	Sidechain
36	BC	119	G	Sidechain
36	BC	12	A	Sidechain
36	BC	120	G	Sidechain
36	BC	121	G	Sidechain
36	BC	123	G	Sidechain
36	BC	125	A	Sidechain
36	BC	126	G	Sidechain
36	BC	128	U	Sidechain
36	BC	129	C	Sidechain
36	BC	13	U	Sidechain
36	BC	130	U	Sidechain

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Mol	Chain	Res	Type	Group
36	BC	131	C	Sidechain
36	BC	134	G	Sidechain
36	BC	136	G	Sidechain
36	BC	138	C	Sidechain
36	BC	139	A	Sidechain
36	BC	14	G	Sidechain
36	BC	140	U	Sidechain
36	BC	141	C	Sidechain
36	BC	142	C	Sidechain
36	BC	143	C	Sidechain
36	BC	144	C	Sidechain
36	BC	145	G	Sidechain
36	BC	146	U	Sidechain
36	BC	147	G	Sidechain
36	BC	148	C	Sidechain
36	BC	149	A	Sidechain
36	BC	15	G	Sidechain
36	BC	150	U	Sidechain
36	BC	151	G	Sidechain
36	BC	152	C	Sidechain
36	BC	154	A	Sidechain
36	BC	155	C	Sidechain
36	BC	156	A	Sidechain
36	BC	157	U	Sidechain
36	BC	158	U	Sidechain
36	BC	159	U	Sidechain
36	BC	16	A	Sidechain
36	BC	160	C	Sidechain
36	BC	163	A	Sidechain
36	BC	164	G	Sidechain
36	BC	165	U	Sidechain
36	BC	166	G	Sidechain
36	BC	167	U	Sidechain
36	BC	168	C	Sidechain
36	BC	169	G	Sidechain
36	BC	17	U	Sidechain
36	BC	18	G	Sidechain
36	BC	19	A	Sidechain
36	BC	2	A	Sidechain
36	BC	20	C	Sidechain
36	BC	21	U	Sidechain
36	BC	22	U	Sidechain

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Mol	Chain	Res	Type	Group
36	BC	23	G	Sidechain
36	BC	25	C	Sidechain
36	BC	26	U	Sidechain
36	BC	27	U	Sidechain
36	BC	28	C	Sidechain
36	BC	3	C	Sidechain
36	BC	30	U	Sidechain
36	BC	31	A	Sidechain
36	BC	33	U	Sidechain
36	BC	34	U	Sidechain
36	BC	36	G	Sidechain
36	BC	37	U	Sidechain
36	BC	38	U	Sidechain
36	BC	4	G	Sidechain
36	BC	40	A	Sidechain
36	BC	41	A	Sidechain
36	BC	42	G	Sidechain
36	BC	43	A	Sidechain
36	BC	44	A	Sidechain
36	BC	45	C	Sidechain
36	BC	47	C	Sidechain
36	BC	48	A	Sidechain
36	BC	49	G	Sidechain
36	BC	5	U	Sidechain
36	BC	50	C	Sidechain
36	BC	51	A	Sidechain
36	BC	53	A	Sidechain
36	BC	54	G	Sidechain
36	BC	56	G	Sidechain
36	BC	58	G	Sidechain
36	BC	59	A	Sidechain
36	BC	6	G	Sidechain
36	BC	60	U	Sidechain
36	BC	61	A	Sidechain
36	BC	62	A	Sidechain
36	BC	63	G	Sidechain
36	BC	64	U	Sidechain
36	BC	68	A	Sidechain
36	BC	69	U	Sidechain
36	BC	7	U	Sidechain
36	BC	70	C	Sidechain
36	BC	71	A	Sidechain

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Mol	Chain	Res	Type	Group
36	BC	74	U	Sidechain
36	BC	75	G	Sidechain
36	BC	76	C	Sidechain
36	BC	78	G	Sidechain
36	BC	79	A	Sidechain
36	BC	8	C	Sidechain
36	BC	80	A	Sidechain
36	BC	81	U	Sidechain
36	BC	82	C	Sidechain
36	BC	83	A	Sidechain
36	BC	84	U	Sidechain
36	BC	86	U	Sidechain
36	BC	88	A	Sidechain
36	BC	89	U	Sidechain
36	BC	9	G	Sidechain
36	BC	90	U	Sidechain
36	BC	91	G	Sidechain
36	BC	92	C	Sidechain
36	BC	94	C	Sidechain
36	BC	95	A	Sidechain
36	BC	97	U	Sidechain
36	BC	99	U	Sidechain
37	BD	1	G	Sidechain
37	BD	100	A	Sidechain
37	BD	101	A	Sidechain
37	BD	102	C	Sidechain
37	BD	103	C	Sidechain
37	BD	104	C	Sidechain
37	BD	105	G	Sidechain
37	BD	106	G	Sidechain
37	BD	108	G	Sidechain
37	BD	109	U	Sidechain
37	BD	11	A	Sidechain
37	BD	110	G	Sidechain
37	BD	112	U	Sidechain
37	BD	113	G	Sidechain
37	BD	117	U	Sidechain
37	BD	118	C	Sidechain
37	BD	119	U	Sidechain
37	BD	12	U	Sidechain
37	BD	14	C	Sidechain
37	BD	15	U	Sidechain

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Mol	Chain	Res	Type	Group
37	BD	16	U	Sidechain
37	BD	17	G	Sidechain
37	BD	18	G	Sidechain
37	BD	2	G	Sidechain
37	BD	22	A	Sidechain
37	BD	24	U	Sidechain
37	BD	25	G	Sidechain
37	BD	27	A	Sidechain
37	BD	28	C	Sidechain
37	BD	29	C	Sidechain
37	BD	3	G	Sidechain
37	BD	30	A	Sidechain
37	BD	31	U	Sidechain
37	BD	32	A	Sidechain
37	BD	34	C	Sidechain
37	BD	35	C	Sidechain
37	BD	36	C	Sidechain
37	BD	37	G	Sidechain
37	BD	38	U	Sidechain
37	BD	4	U	Sidechain
37	BD	41	G	Sidechain
37	BD	46	G	Sidechain
37	BD	47	U	Sidechain
37	BD	48	G	Sidechain
37	BD	49	A	Sidechain
37	BD	5	A	Sidechain
37	BD	52	U	Sidechain
37	BD	53	U	Sidechain
37	BD	54	A	Sidechain
37	BD	56	G	Sidechain
37	BD	57	C	Sidechain
37	BD	58	G	Sidechain
37	BD	61	C	Sidechain
37	BD	63	C	Sidechain
37	BD	64	A	Sidechain
37	BD	65	G	Sidechain
37	BD	66	G	Sidechain
37	BD	68	C	Sidechain
37	BD	69	U	Sidechain
37	BD	7	G	Sidechain
37	BD	70	C	Sidechain
37	BD	71	G	Sidechain

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Mol	Chain	Res	Type	Group
37	BD	72	U	Sidechain
37	BD	73	U	Sidechain
37	BD	74	A	Sidechain
37	BD	75	G	Sidechain
37	BD	76	U	Sidechain
37	BD	77	A	Sidechain
37	BD	78	C	Sidechain
37	BD	8	A	Sidechain
37	BD	80	G	Sidechain
37	BD	81	C	Sidechain
37	BD	82	G	Sidechain
37	BD	83	A	Sidechain
37	BD	84	U	Sidechain
37	BD	85	C	Sidechain
37	BD	86	A	Sidechain
37	BD	87	G	Sidechain
37	BD	88	U	Sidechain
37	BD	89	G	Sidechain
37	BD	9	C	Sidechain
37	BD	90	A	Sidechain
37	BD	92	G	Sidechain
37	BD	93	G	Sidechain
37	BD	94	C	Sidechain
37	BD	95	G	Sidechain
37	BD	96	C	Sidechain
37	BD	97	U	Sidechain
37	BD	99	G	Sidechain
38	BE	1	U	Sidechain
38	BE	10	G	Sidechain
38	BE	100	U	Sidechain
38	BE	101	C	Sidechain
38	BE	102	U	Sidechain
38	BE	104	G	Sidechain
38	BE	105	A	Sidechain
38	BE	106	C	Sidechain
38	BE	107	U	Sidechain
38	BE	108	U	Sidechain
38	BE	109	C	Sidechain
38	BE	11	A	Sidechain
38	BE	110	U	Sidechain
38	BE	111	C	Sidechain
38	BE	112	G	Sidechain

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Mol	Chain	Res	Type	Group
38	BE	113	C	Sidechain
38	BE	114	G	Sidechain
38	BE	115	U	Sidechain
38	BE	116	U	Sidechain
38	BE	117	A	Sidechain
38	BE	119	U	Sidechain
38	BE	120	C	Sidechain
38	BE	121	G	Sidechain
38	BE	122	G	Sidechain
38	BE	123	A	Sidechain
38	BE	124	G	Sidechain
38	BE	125	C	Sidechain
38	BE	126	G	Sidechain
38	BE	127	G	Sidechain
38	BE	128	G	Sidechain
38	BE	129	G	Sidechain
38	BE	13	A	Sidechain
38	BE	130	G	Sidechain
38	BE	132	U	Sidechain
38	BE	133	C	Sidechain
38	BE	134	A	Sidechain
38	BE	135	A	Sidechain
38	BE	136	G	Sidechain
38	BE	14	C	Sidechain
38	BE	140	G	Sidechain
38	BE	141	A	Sidechain
38	BE	142	A	Sidechain
38	BE	143	A	Sidechain
38	BE	145	A	Sidechain
38	BE	146	U	Sidechain
38	BE	147	G	Sidechain
38	BE	149	A	Sidechain
38	BE	15	A	Sidechain
38	BE	150	G	Sidechain
38	BE	152	U	Sidechain
38	BE	153	C	Sidechain
38	BE	154	A	Sidechain
38	BE	155	C	Sidechain
38	BE	158	U	Sidechain
38	BE	159	A	Sidechain
38	BE	160	C	Sidechain
38	BE	161	G	Sidechain

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Mol	Chain	Res	Type	Group
38	BE	163	A	Sidechain
38	BE	164	C	Sidechain
38	BE	165	U	Sidechain
38	BE	167	U	Sidechain
38	BE	168	C	Sidechain
38	BE	169	C	Sidechain
38	BE	17	U	Sidechain
38	BE	170	U	Sidechain
38	BE	171	U	Sidechain
38	BE	172	U	Sidechain
38	BE	173	G	Sidechain
38	BE	174	U	Sidechain
38	BE	175	U	Sidechain
38	BE	176	G	Sidechain
38	BE	177	U	Sidechain
38	BE	178	G	Sidechain
38	BE	179	A	Sidechain
38	BE	18	U	Sidechain
38	BE	180	G	Sidechain
38	BE	181	U	Sidechain
38	BE	182	U	Sidechain
38	BE	183	C	Sidechain
38	BE	184	G	Sidechain
38	BE	185	G	Sidechain
38	BE	186	C	Sidechain
38	BE	187	G	Sidechain
38	BE	188	C	Sidechain
38	BE	19	G	Sidechain
38	BE	190	U	Sidechain
38	BE	191	U	Sidechain
38	BE	192	A	Sidechain
38	BE	193	A	Sidechain
38	BE	194	A	Sidechain
38	BE	195	G	Sidechain
38	BE	196	C	Sidechain
38	BE	198	A	Sidechain
38	BE	20	C	Sidechain
38	BE	200	A	Sidechain
38	BE	201	A	Sidechain
38	BE	202	C	Sidechain
38	BE	203	C	Sidechain
38	BE	204	U	Sidechain

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Mol	Chain	Res	Type	Group
38	BE	205	G	Sidechain
38	BE	206	G	Sidechain
38	BE	207	G	Sidechain
38	BE	208	G	Sidechain
38	BE	21	C	Sidechain
38	BE	22	A	Sidechain
38	BE	23	G	Sidechain
38	BE	24	G	Sidechain
38	BE	25	U	Sidechain
38	BE	26	G	Sidechain
38	BE	27	A	Sidechain
38	BE	29	C	Sidechain
38	BE	30	C	Sidechain
38	BE	31	A	Sidechain
38	BE	32	U	Sidechain
38	BE	33	C	Sidechain
38	BE	35	A	Sidechain
38	BE	36	U	Sidechain
38	BE	37	C	Sidechain
38	BE	4	A	Sidechain
38	BE	40	C	Sidechain
38	BE	41	C	Sidechain
38	BE	43	A	Sidechain
38	BE	44	C	Sidechain
38	BE	46	G	Sidechain
38	BE	47	U	Sidechain
38	BE	48	G	Sidechain
38	BE	49	A	Sidechain
38	BE	5	A	Sidechain
38	BE	51	C	Sidechain
38	BE	52	U	Sidechain
38	BE	53	U	Sidechain
38	BE	54	U	Sidechain
38	BE	55	C	Sidechain
38	BE	57	U	Sidechain
38	BE	58	U	Sidechain
38	BE	59	U	Sidechain
38	BE	6	A	Sidechain
38	BE	60	C	Sidechain
38	BE	61	A	Sidechain
38	BE	63	C	Sidechain
38	BE	64	A	Sidechain

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Mol	Chain	Res	Type	Group
38	BE	65	U	Sidechain
38	BE	67	A	Sidechain
38	BE	68	U	Sidechain
38	BE	69	C	Sidechain
38	BE	7	U	Sidechain
38	BE	70	C	Sidechain
38	BE	71	A	Sidechain
38	BE	72	C	Sidechain
38	BE	74	U	Sidechain
38	BE	75	C	Sidechain
38	BE	76	U	Sidechain
38	BE	79	G	Sidechain
38	BE	80	G	Sidechain
38	BE	82	C	Sidechain
38	BE	83	U	Sidechain
38	BE	86	C	Sidechain
38	BE	87	U	Sidechain
38	BE	88	G	Sidechain
38	BE	89	G	Sidechain
38	BE	9	C	Sidechain
38	BE	90	G	Sidechain
38	BE	91	G	Sidechain
38	BE	92	C	Sidechain
38	BE	93	U	Sidechain
38	BE	94	U	Sidechain
38	BE	96	G	Sidechain
38	BE	97	G	Sidechain
38	BE	98	C	Sidechain
39	BF	10	A	Sidechain
39	BF	12	U	Sidechain
39	BF	13	U	Sidechain
39	BF	14	C	Sidechain
39	BF	15	U	Sidechain
39	BF	16	C	Sidechain
39	BF	17	U	Sidechain
39	BF	19	A	Sidechain
39	BF	2	G	Sidechain
39	BF	20	U	Sidechain
39	BF	21	C	Sidechain
39	BF	22	U	Sidechain
39	BF	23	G	Sidechain
39	BF	24	G	Sidechain

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Mol	Chain	Res	Type	Group
39	BF	25	G	Sidechain
39	BF	26	U	Sidechain
39	BF	27	G	Sidechain
39	BF	28	C	Sidechain
39	BF	29	U	Sidechain
39	BF	3	A	Sidechain
39	BF	30	C	Sidechain
39	BF	32	G	Sidechain
39	BF	33	C	Sidechain
39	BF	34	C	Sidechain
39	BF	38	C	Sidechain
39	BF	39	C	Sidechain
39	BF	4	A	Sidechain
39	BF	40	U	Sidechain
39	BF	41	U	Sidechain
39	BF	43	U	Sidechain
39	BF	44	C	Sidechain
39	BF	46	G	Sidechain
39	BF	48	G	Sidechain
39	BF	5	U	Sidechain
39	BF	50	C	Sidechain
39	BF	51	C	Sidechain
39	BF	52	A	Sidechain
39	BF	53	G	Sidechain
39	BF	54	U	Sidechain
39	BF	55	A	Sidechain
39	BF	56	C	Sidechain
39	BF	57	C	Sidechain
39	BF	58	U	Sidechain
39	BF	59	U	Sidechain
39	BF	6	C	Sidechain
39	BF	60	C	Sidechain
39	BF	61	A	Sidechain
39	BF	62	U	Sidechain
39	BF	63	U	Sidechain
39	BF	64	U	Sidechain
39	BF	65	U	Sidechain
39	BF	66	C	Sidechain
39	BF	67	A	Sidechain
39	BF	68	C	Sidechain
39	BF	69	A	Sidechain
39	BF	7	G	Sidechain

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Mol	Chain	Res	Type	Group
39	BF	70	A	Sidechain
39	BF	71	G	Sidechain
39	BF	72	A	Sidechain
39	BF	8	C	Sidechain
39	BF	9	C	Sidechain
40	BG	1	G	Sidechain
40	BG	10	U	Sidechain
40	BG	100	G	Sidechain
40	BG	101	G	Sidechain
40	BG	102	G	Sidechain
40	BG	103	C	Sidechain
40	BG	104	A	Sidechain
40	BG	106	G	Sidechain
40	BG	107	U	Sidechain
40	BG	11	G	Sidechain
40	BG	110	U	Sidechain
40	BG	111	C	Sidechain
40	BG	112	C	Sidechain
40	BG	113	G	Sidechain
40	BG	114	A	Sidechain
40	BG	115	C	Sidechain
40	BG	118	U	Sidechain
40	BG	119	A	Sidechain
40	BG	12	A	Sidechain
40	BG	120	U	Sidechain
40	BG	121	C	Sidechain
40	BG	122	G	Sidechain
40	BG	123	C	Sidechain
40	BG	124	A	Sidechain
40	BG	125	C	Sidechain
40	BG	126	G	Sidechain
40	BG	127	G	Sidechain
40	BG	128	U	Sidechain
40	BG	129	G	Sidechain
40	BG	13	A	Sidechain
40	BG	130	G	Sidechain
40	BG	131	U	Sidechain
40	BG	132	U	Sidechain
40	BG	133	C	Sidechain
40	BG	135	C	Sidechain
40	BG	136	G	Sidechain
40	BG	137	G	Sidechain

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Mol	Chain	Res	Type	Group
40	BG	138	C	Sidechain
40	BG	139	U	Sidechain
40	BG	140	G	Sidechain
40	BG	143	C	Sidechain
40	BG	144	G	Sidechain
40	BG	145	C	Sidechain
40	BG	146	C	Sidechain
40	BG	147	U	Sidechain
40	BG	148	C	Sidechain
40	BG	149	U	Sidechain
40	BG	15	G	Sidechain
40	BG	150	A	Sidechain
40	BG	151	A	Sidechain
40	BG	152	G	Sidechain
40	BG	153	C	Sidechain
40	BG	154	C	Sidechain
40	BG	155	A	Sidechain
40	BG	156	G	Sidechain
40	BG	157	A	Sidechain
40	BG	158	A	Sidechain
40	BG	159	A	Sidechain
40	BG	160	C	Sidechain
40	BG	163	G	Sidechain
40	BG	164	U	Sidechain
40	BG	166	C	Sidechain
40	BG	167	C	Sidechain
40	BG	168	A	Sidechain
40	BG	169	A	Sidechain
40	BG	17	A	Sidechain
40	BG	170	G	Sidechain
40	BG	171	A	Sidechain
40	BG	172	C	Sidechain
40	BG	173	C	Sidechain
40	BG	174	G	Sidechain
40	BG	176	G	Sidechain
40	BG	177	U	Sidechain
40	BG	178	G	Sidechain
40	BG	181	C	Sidechain
40	BG	182	G	Sidechain
40	BG	2	U	Sidechain
40	BG	20	U	Sidechain
40	BG	21	C	Sidechain

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Mol	Chain	Res	Type	Group
40	BG	22	G	Sidechain
40	BG	24	A	Sidechain
40	BG	25	G	Sidechain
40	BG	26	G	Sidechain
40	BG	27	C	Sidechain
40	BG	29	U	Sidechain
40	BG	31	G	Sidechain
40	BG	32	U	Sidechain
40	BG	33	G	Sidechain
40	BG	34	A	Sidechain
40	BG	35	G	Sidechain
40	BG	36	G	Sidechain
40	BG	37	G	Sidechain
40	BG	39	A	Sidechain
40	BG	4	A	Sidechain
40	BG	40	G	Sidechain
40	BG	41	U	Sidechain
40	BG	42	A	Sidechain
40	BG	43	U	Sidechain
40	BG	45	G	Sidechain
40	BG	47	G	Sidechain
40	BG	48	U	Sidechain
40	BG	49	A	Sidechain
40	BG	5	G	Sidechain
40	BG	50	G	Sidechain
40	BG	53	C	Sidechain
40	BG	54	G	Sidechain
40	BG	56	G	Sidechain
40	BG	58	G	Sidechain
40	BG	60	A	Sidechain
40	BG	61	A	Sidechain
40	BG	62	C	Sidechain
40	BG	63	U	Sidechain
40	BG	64	C	Sidechain
40	BG	65	C	Sidechain
40	BG	66	C	Sidechain
40	BG	68	U	Sidechain
40	BG	69	G	Sidechain
40	BG	70	C	Sidechain
40	BG	71	C	Sidechain
40	BG	72	G	Sidechain
40	BG	73	U	Sidechain

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Mol	Chain	Res	Type	Group
40	BG	74	G	Sidechain
40	BG	75	C	Sidechain
40	BG	76	C	Sidechain
40	BG	77	U	Sidechain
40	BG	78	C	Sidechain
40	BG	79	U	Sidechain
40	BG	8	U	Sidechain
40	BG	80	G	Sidechain
40	BG	81	G	Sidechain
40	BG	83	U	Sidechain
40	BG	84	U	Sidechain
40	BG	85	C	Sidechain
40	BG	86	U	Sidechain
40	BG	89	A	Sidechain
40	BG	9	G	Sidechain
40	BG	90	G	Sidechain
40	BG	93	U	Sidechain
40	BG	94	G	Sidechain
40	BG	95	U	Sidechain
40	BG	96	C	Sidechain
40	BG	97	G	Sidechain
40	BG	98	A	Sidechain
40	BG	99	A	Sidechain
41	BH	10	U	Sidechain
41	BH	100	A	Sidechain
41	BH	101	A	Sidechain
41	BH	102	C	Sidechain
41	BH	104	U	Sidechain
41	BH	105	U	Sidechain
41	BH	106	G	Sidechain
41	BH	107	A	Sidechain
41	BH	108	U	Sidechain
41	BH	109	G	Sidechain
41	BH	11	C	Sidechain
41	BH	110	C	Sidechain
41	BH	113	G	Sidechain
41	BH	114	G	Sidechain
41	BH	115	A	Sidechain
41	BH	116	A	Sidechain
41	BH	117	U	Sidechain
41	BH	118	U	Sidechain
41	BH	119	U	Sidechain

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Mol	Chain	Res	Type	Group
41	BH	12	U	Sidechain
41	BH	120	C	Sidechain
41	BH	121	A	Sidechain
41	BH	123	G	Sidechain
41	BH	124	C	Sidechain
41	BH	126	C	Sidechain
41	BH	127	A	Sidechain
41	BH	128	G	Sidechain
41	BH	130	G	Sidechain
41	BH	132	C	Sidechain
41	BH	133	U	Sidechain
41	BH	134	U	Sidechain
41	BH	135	U	Sidechain
41	BH	15	A	Sidechain
41	BH	16	A	Sidechain
41	BH	19	G	Sidechain
41	BH	2	U	Sidechain
41	BH	21	G	Sidechain
41	BH	22	A	Sidechain
41	BH	23	G	Sidechain
41	BH	24	U	Sidechain
41	BH	25	A	Sidechain
41	BH	26	C	Sidechain
41	BH	27	A	Sidechain
41	BH	28	U	Sidechain
41	BH	29	G	Sidechain
41	BH	3	U	Sidechain
41	BH	30	C	Sidechain
41	BH	31	A	Sidechain
41	BH	32	U	Sidechain
41	BH	33	G	Sidechain
41	BH	34	G	Sidechain
41	BH	36	C	Sidechain
41	BH	37	U	Sidechain
41	BH	38	G	Sidechain
41	BH	39	G	Sidechain
41	BH	4	U	Sidechain
41	BH	41	A	Sidechain
41	BH	42	U	Sidechain
41	BH	43	G	Sidechain
41	BH	44	A	Sidechain
41	BH	48	G	Sidechain

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Mol	Chain	Res	Type	Group
41	BH	49	C	Sidechain
41	BH	5	G	Sidechain
41	BH	50	A	Sidechain
41	BH	51	C	Sidechain
41	BH	52	G	Sidechain
41	BH	54	U	Sidechain
41	BH	6	U	Sidechain
41	BH	62	C	Sidechain
41	BH	63	G	Sidechain
41	BH	65	G	Sidechain
41	BH	7	C	Sidechain
41	BH	70	U	Sidechain
41	BH	71	C	Sidechain
41	BH	74	G	Sidechain
41	BH	75	G	Sidechain
41	BH	76	G	Sidechain
41	BH	79	A	Sidechain
41	BH	8	C	Sidechain
41	BH	81	U	Sidechain
41	BH	82	U	Sidechain
41	BH	84	A	Sidechain
41	BH	93	G	Sidechain
41	BH	94	G	Sidechain
41	BH	96	G	Sidechain
41	BH	98	U	Sidechain
41	BH	99	G	Sidechain
42	BI	101	ARG	Sidechain
42	BI	119	ARG	Sidechain
42	BI	147	ARG	Sidechain
42	BI	149	ARG	Sidechain
42	BI	15	VAL	Mainchain,Peptide
42	BI	16	ARG	Sidechain
42	BI	20	TYR	Sidechain
42	BI	25	TYR	Sidechain
42	BI	33	TYR	Sidechain
42	BI	39	ARG	Mainchain
42	BI	49	HIS	Sidechain
42	BI	51	ARG	Sidechain
42	BI	66	ARG	Sidechain
42	BI	71	MET	Peptide
42	BI	73	ARG	Sidechain
42	BI	77	TRP	Mainchain

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Mol	Chain	Res	Type	Group
42	BI	79	LYS	Peptide
42	BI	94	LEU	Mainchain
43	BJ	104	TYR	Sidechain
43	BJ	20	ARG	Sidechain
43	BJ	25	PHE	Peptide
43	BJ	45	ARG	Sidechain
43	BJ	57	ARG	Sidechain
43	BJ	59	ARG	Peptide
43	BJ	9	LEU	Peptide
44	BK	116	ARG	Sidechain
44	BK	119	TYR	Sidechain
44	BK	139	ARG	Sidechain
44	BK	168	SER	Peptide
44	BK	17	TYR	Sidechain
44	BK	174	THR	Peptide
44	BK	181	TYR	Sidechain
44	BK	185	ARG	Sidechain
44	BK	193	ARG	Sidechain
44	BK	196	HIS	Sidechain
44	BK	206	ILE	Peptide
44	BK	209	TYR	Sidechain
44	BK	21	ARG	Sidechain
44	BK	4	ARG	Sidechain
44	BK	40	ARG	Sidechain
44	BK	51	HIS	Sidechain
44	BK	56	GLU	Peptide
44	BK	69	ARG	Sidechain
44	BK	7	ARG	Sidechain
44	BK	75	TYR	Sidechain
44	BK	79	ARG	Sidechain
44	BK	85	PHE	Sidechain
44	BK	86	HIS	Sidechain
44	BK	88	ARG	Sidechain
44	BK	95	HIS	Sidechain
44	BK	99	ILE	Peptide
45	BL	113	ILE	Peptide
45	BL	116	HIS	Sidechain
45	BL	123	TYR	Sidechain
45	BL	140	ARG	Sidechain
45	BL	148	ARG	Sidechain
45	BL	15	PRO	Peptide
45	BL	151	ARG	Sidechain

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Mol	Chain	Res	Type	Group
45	BL	154	ARG	Sidechain
45	BL	159	HIS	Sidechain
45	BL	17	ARG	Sidechain
45	BL	174	HIS	Mainchain
45	BL	58	ARG	Sidechain
45	BL	62	ARG	Sidechain
45	BL	64	PHE	Sidechain
45	BL	67	ARG	Sidechain
47	BN	10	HIS	Sidechain
47	BN	101	ARG	Sidechain
47	BN	104	ARG	Sidechain
47	BN	105	ARG	Sidechain,Mainchain
47	BN	12	HIS	Sidechain
47	BN	124	TYR	Sidechain
47	BN	135	ARG	Sidechain
47	BN	14	ARG	Sidechain
47	BN	143	ALA	Peptide
47	BN	154	ASP	Peptide
47	BN	155	ARG	Mainchain
47	BN	157	ARG	Sidechain
47	BN	18	ASN	Mainchain
47	BN	187	TYR	Sidechain
47	BN	203	ARG	Sidechain
47	BN	204	ASN	Peptide
47	BN	214	GLU	Mainchain
47	BN	42	ARG	Sidechain
47	BN	44	ARG	Sidechain
47	BN	51	ILE	Mainchain,Peptide
47	BN	54	ARG	Sidechain
47	BN	60	ARG	Sidechain
47	BN	63	VAL	Peptide
47	BN	67	THR	Mainchain,Peptide
47	BN	69	ARG	Sidechain
47	BN	74	ARG	Sidechain
47	BN	80	PHE	Sidechain
47	BN	96	ARG	Sidechain
48	BO	108	ARG	Sidechain
48	BO	109	TYR	Sidechain
48	BO	118	ARG	Sidechain
48	BO	119	GLN	Mainchain
48	BO	123	TYR	Sidechain
48	BO	127	PRO	Peptide

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Mol	Chain	Res	Type	Group
48	BO	144	ARG	Sidechain
48	BO	153	ARG	Sidechain
48	BO	154	PHE	Sidechain
48	BO	179	ARG	Sidechain
48	BO	186	HIS	Sidechain
48	BO	201	ARG	Sidechain
48	BO	219	PHE	Sidechain
48	BO	23	ASP	Peptide
48	BO	24	ILE	Mainchain
48	BO	55	ARG	Sidechain
48	BO	67	ARG	Sidechain
48	BO	72	TYR	Sidechain
48	BO	89	PHE	Sidechain,Mainchain
48	BO	91	HIS	Sidechain
49	BP	11	ARG	Sidechain
49	BP	110	ARG	Sidechain
49	BP	120	ARG	Sidechain
49	BP	122	TYR	Sidechain
49	BP	127	ILE	Peptide
49	BP	135	ASN	Peptide
49	BP	14	ARG	Sidechain
49	BP	140	HIS	Sidechain
49	BP	150	ASN	Mainchain
49	BP	151	ALA	Mainchain
49	BP	155	ASP	Peptide
49	BP	157	THR	Mainchain,Peptide
49	BP	158	PRO	Peptide
49	BP	17	ARG	Sidechain
49	BP	171	ARG	Sidechain
49	BP	20	ARG	Sidechain
49	BP	3	LYS	Peptide
49	BP	35	ARG	Sidechain
49	BP	6	TYR	Sidechain
49	BP	8	ARG	Sidechain
49	BP	87	TYR	Sidechain
49	BP	96	HIS	Sidechain
49	BP	97	ARG	Sidechain
50	BQ	101	PRO	Mainchain,Peptide
50	BQ	109	ARG	Sidechain,Peptide
50	BQ	116	ARG	Sidechain
50	BQ	129	ASN	Mainchain
50	BQ	147	TYR	Sidechain

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Mol	Chain	Res	Type	Group
50	BQ	160	ARG	Sidechain
50	BQ	179	ARG	Sidechain
50	BQ	186	ARG	Sidechain
50	BQ	188	HIS	Sidechain
50	BQ	189	ARG	Sidechain
50	BQ	192	ARG	Sidechain
50	BQ	194	LYS	Peptide
50	BQ	204	SER	Mainchain
50	BQ	205	ARG	Sidechain
50	BQ	206	ARG	Sidechain
50	BQ	221	ARG	Sidechain
50	BQ	48	ARG	Sidechain
50	BQ	61	ARG	Sidechain
50	BQ	66	ARG	Sidechain
50	BQ	70	TYR	Sidechain
50	BQ	76	TYR	Sidechain
50	BQ	80	ARG	Sidechain
50	BQ	82	ARG	Sidechain
50	BQ	85	ARG	Sidechain
50	BQ	88	ARG	Sidechain
50	BQ	98	TYR	Sidechain
51	BR	102	ALA	Mainchain
51	BR	127	ARG	Sidechain
51	BR	131	ARG	Sidechain
51	BR	133	HIS	Sidechain
51	BR	141	ARG	Sidechain
51	BR	145	HIS	Sidechain
51	BR	149	PHE	Sidechain
51	BR	154	GLN	Mainchain,Peptide
51	BR	26	TYR	Sidechain
51	BR	39	MET	Peptide
51	BR	4	TYR	Sidechain
51	BR	48	TYR	Sidechain
51	BR	49	ARG	Sidechain
51	BR	56	ARG	Sidechain
51	BR	58	ILE	Mainchain
51	BR	6	ARG	Sidechain
51	BR	60	PHE	Sidechain
51	BR	63	TYR	Sidechain
51	BR	65	GLY	Mainchain,Peptide
52	BS	116	HIS	Sidechain
52	BS	119	ARG	Sidechain

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Mol	Chain	Res	Type	Group
52	BS	121	HIS	Sidechain
52	BS	134	HIS	Sidechain
52	BS	137	ARG	Sidechain
52	BS	138	ARG	Sidechain
52	BS	14	ARG	Sidechain
52	BS	156	ARG	Sidechain
52	BS	170	LYS	Peptide
52	BS	2	VAL	Peptide
52	BS	24	PRO	Peptide
52	BS	27	TYR	Sidechain
52	BS	29	PHE	Peptide
52	BS	3	ARG	Sidechain
52	BS	4	PRO	Peptide
52	BS	42	ARG	Sidechain
52	BS	57	HIS	Sidechain
52	BS	76	TYR	Sidechain
52	BS	89	TYR	Sidechain
52	BS	9	TYR	Sidechain
52	BS	96	PHE	Sidechain
53	BT	100	ARG	Sidechain
53	BT	103	ARG	Sidechain
53	BT	104	ARG	Sidechain
53	BT	117	ARG	Sidechain
53	BT	120	TYR	Sidechain
53	BT	121	ARG	Sidechain
53	BT	131	VAL	Mainchain
53	BT	153	ARG	Sidechain
53	BT	16	ARG	Sidechain
53	BT	160	ALA	Peptide
53	BT	171	ARG	Sidechain
53	BT	179	LYS	Mainchain,Peptide
53	BT	185	ARG	Sidechain
53	BT	189	ARG	Sidechain
53	BT	191	ASP	Peptide
53	BT	21	ARG	Sidechain
53	BT	38	ARG	Sidechain
53	BT	62	ARG	Sidechain
53	BT	74	ARG	Sidechain
53	BT	75	HIS	Sidechain
53	BT	80	ARG	Sidechain
53	BT	81	ARG	Sidechain
53	BT	97	ARG	Sidechain

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Mol	Chain	Res	Type	Group
54	BU	12	ARG	Sidechain
54	BU	120	LYS	Peptide
54	BU	123	THR	Peptide
54	BU	133	ARG	Sidechain,Peptide
54	BU	141	LYS	Peptide
54	BU	148	ARG	Sidechain
54	BU	150	THR	Peptide
54	BU	157	ILE	Peptide
54	BU	19	PHE	Sidechain
54	BU	20	ARG	Sidechain
54	BU	34	PHE	Sidechain
54	BU	39	TYR	Sidechain
54	BU	49	ARG	Sidechain
54	BU	56	TYR	Sidechain,Peptide
54	BU	57	TYR	Sidechain
54	BU	7	TYR	Sidechain
54	BU	81	ARG	Sidechain
54	BU	83	ARG	Sidechain
54	BU	88	ARG	Sidechain
55	BV	108	ARG	Sidechain
55	BV	121	TYR	Sidechain
55	BV	43	ILE	Peptide
55	BV	50	TYR	Sidechain
55	BV	51	PHE	Sidechain
55	BV	92	TYR	Sidechain
56	BW	134	HIS	Sidechain
56	BW	135	ALA	Peptide
56	BW	37	TYR	Sidechain
56	BW	44	TYR	Sidechain
56	BW	6	ALA	Peptide
56	BW	72	ARG	Sidechain
56	BW	73	ARG	Mainchain,Peptide
56	BW	84	ARG	Sidechain
56	BW	89	ARG	Sidechain
57	BX	125	TYR	Sidechain
57	BX	147	ARG	Sidechain
57	BX	46	ARG	Sidechain
57	BX	49	TYR	Sidechain
57	BX	60	TYR	Sidechain
57	BX	61	ARG	Sidechain,Mainchain
58	BY	17	HIS	Sidechain
58	BY	19	ARG	Sidechain

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Mol	Chain	Res	Type	Group
58	BY	2	ARG	Sidechain
58	BY	21	TYR	Sidechain
58	BY	29	THR	Peptide
58	BY	46	ARG	Sidechain
58	BY	53	ILE	Mainchain
58	BY	57	ARG	Sidechain
58	BY	59	TYR	Sidechain
58	BY	61	ARG	Sidechain
58	BY	62	ILE	Mainchain
58	BY	63	HIS	Sidechain
58	BY	66	THR	Peptide
58	BY	70	ARG	Sidechain
58	BY	84	ARG	Sidechain
59	BZ	111	ARG	Sidechain
59	BZ	121	ARG	Sidechain
59	BZ	13	ARG	Sidechain
59	BZ	24	ARG	Sidechain
59	BZ	25	ARG	Sidechain
59	BZ	54	ARG	Sidechain
59	BZ	57	ARG	Sidechain
59	BZ	7	ARG	Sidechain,Mainchain
59	BZ	71	TYR	Sidechain
59	BZ	72	ARG	Sidechain
59	BZ	78	HIS	Sidechain
60	Ba	100	ASP	Peptide
60	Ba	113	ARG	Sidechain
60	Ba	127	PHE	Sidechain
60	Ba	130	ARG	Sidechain
60	Ba	16	ARG	Sidechain
60	Ba	17	TYR	Sidechain
60	Ba	3	PHE	Sidechain
60	Ba	37	TYR	Sidechain
60	Ba	59	ARG	Peptide
60	Ba	62	THR	Mainchain
60	Ba	64	ARG	Sidechain
60	Ba	70	PHE	Sidechain
60	Ba	72	ARG	Sidechain
60	Ba	76	HIS	Sidechain
60	Ba	78	HIS	Sidechain
60	Ba	79	PHE	Sidechain
60	Ba	84	TYR	Sidechain
60	Ba	90	ARG	Sidechain

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Mol	Chain	Res	Type	Group
60	Ba	91	GLU	Peptide
60	Ba	95	ARG	Sidechain
61	Bb	106	TYR	Sidechain
61	Bb	110	LEU	Mainchain
61	Bb	117	ALA	Peptide
61	Bb	12	ARG	Sidechain
61	Bb	122	LYS	Mainchain
61	Bb	14	SER	Peptide
61	Bb	19	TYR	Sidechain
61	Bb	26	ARG	Sidechain
61	Bb	32	ARG	Sidechain
61	Bb	42	ARG	Sidechain
61	Bb	48	TYR	Sidechain
61	Bb	53	PHE	Sidechain
61	Bb	61	TYR	Sidechain
61	Bb	69	TRP	Mainchain
61	Bb	9	ARG	Sidechain
62	Bc	107	TYR	Sidechain
62	Bc	109	ARG	Sidechain
62	Bc	127	ARG	Sidechain
62	Bc	13	ARG	Sidechain
62	Bc	130	ARG	Sidechain
62	Bc	135	HIS	Peptide
62	Bc	137	HIS	Sidechain
62	Bc	142	ARG	Sidechain
62	Bc	18	PHE	Sidechain
62	Bc	22	ARG	Sidechain
62	Bc	26	ARG	Mainchain
62	Bc	27	LEU	Mainchain
62	Bc	32	PHE	Sidechain
62	Bc	34	ASN	Peptide
62	Bc	41	ARG	Sidechain
62	Bc	45	PHE	Sidechain
62	Bc	51	ALA	Mainchain
62	Bc	59	ARG	Sidechain,Peptide
62	Bc	83	GLU	Peptide
62	Bc	93	ARG	Sidechain,Mainchain,Peptide
62	Bc	96	ALA	Mainchain,Peptide
62	Bc	97	ASP	Peptide
62	Bc	99	ARG	Peptide
63	Bd	10	HIS	Sidechain
63	Bd	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
63	Bd	19	ASN	Peptide
63	Bd	28	TYR	Sidechain
63	Bd	31	ASN	Mainchain,Peptide
63	Bd	34	ARG	Sidechain
63	Bd	49	LYS	Peptide
63	Bd	59	ARG	Sidechain
63	Bd	61	GLU	Sidechain
64	Be	128	ARG	Sidechain
64	Be	133	TYR	Sidechain
64	Be	145	ARG	Sidechain
64	Be	147	ARG	Sidechain
64	Be	163	ARG	Sidechain
64	Be	186	PHE	Sidechain
64	Be	189	PHE	Mainchain
64	Be	200	ARG	Sidechain
64	Be	204	ARG	Sidechain,Mainchain
64	Be	207	VAL	Mainchain
64	Be	211	HIS	Sidechain
64	Be	221	HIS	Sidechain
64	Be	245	ARG	Sidechain
64	Be	250	ARG	Sidechain
64	Be	253	ARG	Sidechain
64	Be	71	ARG	Sidechain
64	Be	72	VAL	Mainchain
64	Be	83	PHE	Sidechain
64	Be	89	LEU	Mainchain,Peptide
65	Bf	100	TYR	Sidechain
65	Bf	106	HIS	Sidechain
65	Bf	111	VAL	Mainchain
65	Bf	150	HIS	Sidechain
65	Bf	167	ARG	Sidechain
65	Bf	168	ARG	Sidechain
65	Bf	173	TRP	Peptide
65	Bf	184	ARG	Sidechain
65	Bf	189	ARG	Sidechain
65	Bf	212	ARG	Sidechain
65	Bf	216	HIS	Sidechain
65	Bf	223	ARG	Sidechain
65	Bf	226	ARG	Sidechain
65	Bf	260	ARG	Sidechain
65	Bf	265	PHE	Sidechain
65	Bf	295	PRO	Mainchain

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Mol	Chain	Res	Type	Group
65	Bf	296	ARG	Sidechain
65	Bf	299	HIS	Sidechain
65	Bf	300	ARG	Sidechain
65	Bf	312	HIS	Sidechain
65	Bf	315	ARG	Sidechain
65	Bf	318	TYR	Sidechain
65	Bf	339	TYR	Sidechain
65	Bf	343	ARG	Sidechain
65	Bf	348	GLU	Mainchain
65	Bf	356	TYR	Sidechain
65	Bf	373	GLY	Peptide
65	Bf	376	ARG	Sidechain
65	Bf	392	ARG	Sidechain
65	Bf	397	ARG	Sidechain
65	Bf	404	THR	Peptide
65	Bf	407	LYS	Peptide
65	Bf	412	ILE	Mainchain
65	Bf	416	PHE	Sidechain
65	Bf	425	HIS	Sidechain
65	Bf	427	ARG	Sidechain
65	Bf	428	PHE	Sidechain
65	Bf	438	TYR	Sidechain
65	Bf	445	ARG	Sidechain
65	Bf	447	ARG	Sidechain,Mainchain
65	Bf	451	ARG	Sidechain
65	Bf	453	ARG	Sidechain
65	Bf	54	HIS	Sidechain
65	Bf	57	PHE	Sidechain
65	Bf	62	HIS	Sidechain
65	Bf	77	ARG	Sidechain
65	Bf	79	ARG	Sidechain
66	Bg	105	ASP	Mainchain,Peptide
66	Bg	34	TYR	Sidechain
66	Bg	46	ARG	Sidechain
66	Bg	59	CYS	Mainchain
66	Bg	79	HIS	Sidechain
66	Bg	81	TYR	Sidechain
66	Bg	99	CYS	Mainchain
67	Bh	121	LYS	Peptide
67	Bh	134	PHE	Sidechain
67	Bh	146	ARG	Sidechain
67	Bh	148	ARG	Sidechain

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Mol	Chain	Res	Type	Group
67	Bh	164	LYS	Mainchain,Peptide
67	Bh	167	TYR	Sidechain
67	Bh	175	VAL	Mainchain
67	Bh	178	PHE	Sidechain
67	Bh	183	THR	Mainchain
67	Bh	29	ALA	Mainchain
67	Bh	3	ARG	Sidechain
67	Bh	40	ARG	Sidechain
67	Bh	60	ALA	Mainchain,Peptide
67	Bh	64	ARG	Sidechain
67	Bh	71	ALA	Mainchain
67	Bh	73	LEU	Mainchain
67	Bh	74	PHE	Sidechain
67	Bh	79	ARG	Sidechain
67	Bh	82	ASP	Peptide
67	Bh	91	HIS	Sidechain
67	Bh	99	ARG	Sidechain
68	Bi	106	ARG	Sidechain
68	Bi	111	ARG	Sidechain
68	Bi	114	HIS	Sidechain
68	Bi	119	ARG	Sidechain
68	Bi	3	LYS	Peptide
68	Bi	45	ARG	Sidechain
68	Bi	46	ARG	Sidechain
68	Bi	47	TYR	Sidechain
68	Bi	5	PHE	Sidechain
68	Bi	62	ARG	Sidechain
68	Bi	68	THR	Mainchain
68	Bi	84	TYR	Sidechain
68	Bi	99	HIS	Sidechain
69	Bj	10	ARG	Sidechain
69	Bj	14	TYR	Sidechain
69	Bj	17	ARG	Sidechain
69	Bj	2	SER	Mainchain
69	Bj	20	ARG	Sidechain
69	Bj	22	ARG	Sidechain
69	Bj	3	CYS	Peptide
69	Bj	30	ARG	Sidechain
69	Bj	36	ARG	Sidechain
69	Bj	39	ARG	Sidechain
69	Bj	45	THR	Peptide
69	Bj	46	PRO	Mainchain

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Mol	Chain	Res	Type	Group
69	Bj	5	ARG	Sidechain
69	Bj	53	ARG	Sidechain
69	Bj	6	VAL	Mainchain
69	Bj	62	HIS	Sidechain
69	Bj	66	ARG	Sidechain
69	Bj	77	ARG	Sidechain
69	Bj	8	TYR	Sidechain
69	Bj	85	HIS	Sidechain,Mainchain
69	Bj	9	ARG	Sidechain
69	Bj	94	ARG	Sidechain
70	Bk	106	ARG	Sidechain
70	Bk	110	ARG	Sidechain
70	Bk	116	HIS	Sidechain
70	Bk	123	TYR	Sidechain
70	Bk	47	ARG	Sidechain
70	Bk	67	ARG	Sidechain
70	Bk	81	SER	Mainchain,Peptide
70	Bk	87	LEU	Mainchain
70	Bk	88	ARG	Sidechain
70	Bk	94	ARG	Sidechain
70	Bk	95	ARG	Sidechain
71	Bl	101	ARG	Sidechain
71	Bl	102	ARG	Sidechain
71	Bl	103	SER	Peptide
71	Bl	106	ARG	Sidechain
71	Bl	114	ARG	Sidechain
71	Bl	116	HIS	Sidechain
71	Bl	130	SER	Peptide
71	Bl	139	ARG	Sidechain
71	Bl	148	ARG	Sidechain
71	Bl	34	LYS	Peptide
71	Bl	35	SER	Peptide
71	Bl	39	TYR	Sidechain
71	Bl	47	TYR	Sidechain
71	Bl	75	TYR	Sidechain
71	Bl	79	ARG	Sidechain
71	Bl	82	TYR	Sidechain
71	Bl	84	TYR	Sidechain
71	Bl	89	ILE	Peptide
71	Bl	91	ARG	Sidechain
71	Bl	93	VAL	Peptide
71	Bl	94	ARG	Sidechain

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Mol	Chain	Res	Type	Group
71	Bl	98	ALA	Mainchain,Peptide
72	Bm	12	ARG	Sidechain
72	Bm	13	THR	Peptide
72	Bm	27	ARG	Sidechain
72	Bm	28	ARG	Sidechain
72	Bm	31	ARG	Sidechain
72	Bm	37	ARG	Sidechain
72	Bm	38	TYR	Sidechain
72	Bm	42	HIS	Mainchain
72	Bm	63	ARG	Sidechain
72	Bm	70	ARG	Sidechain
72	Bm	76	ARG	Sidechain,Mainchain
72	Bm	77	ALA	Peptide
72	Bm	84	ARG	Sidechain
72	Bm	9	PRO	Peptide
72	Bm	94	ARG	Sidechain
73	Bn	11	ARG	Sidechain
73	Bn	21	ARG	Sidechain
73	Bn	31	TRP	Mainchain
73	Bn	45	ARG	Sidechain
73	Bn	58	ARG	Sidechain
73	Bn	66	TYR	Sidechain
73	Bn	72	ARG	Sidechain
73	Bn	73	ARG	Sidechain
73	Bn	75	ARG	Sidechain
73	Bn	76	ASN	Mainchain,Peptide
73	Bn	78	PHE	Mainchain,Peptide
73	Bn	79	LYS	Mainchain
74	Bo	14	TYR	Sidechain
74	Bo	17	ARG	Sidechain
74	Bo	18	TYR	Sidechain
74	Bo	25	ARG	Sidechain
74	Bo	4	ARG	Sidechain
74	Bo	49	ARG	Sidechain
74	Bo	57	CYS	Mainchain
74	Bo	59	GLY	Mainchain,Peptide
74	Bo	69	TYR	Sidechain
74	Bo	85	ARG	Sidechain
74	Bo	87	ARG	Sidechain
75	Bp	11	PHE	Sidechain
75	Bp	21	ARG	Sidechain
75	Bp	30	LYS	Peptide

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Mol	Chain	Res	Type	Group
75	Bp	37	ARG	Sidechain
75	Bp	72	ARG	Sidechain
75	Bp	79	THR	Peptide
76	Bq	13	TYR	Sidechain
76	Bq	21	ARG	Sidechain
76	Bq	25	TYR	Sidechain
76	Bq	3	ARG	Sidechain
76	Bq	30	ARG	Sidechain
76	Bq	42	ARG	Sidechain
76	Bq	43	HIS	Sidechain
76	Bq	45	ARG	Sidechain,Peptide
77	Br	10	TYR	Sidechain
77	Br	103	PRO	Mainchain,Peptide
77	Br	107	PHE	Peptide
77	Br	109	ARG	Sidechain
77	Br	132	LEU	Mainchain,Peptide
77	Br	139	ARG	Sidechain
77	Br	160	TYR	Sidechain
77	Br	169	PHE	Sidechain
77	Br	174	GLY	Mainchain,Peptide
77	Br	198	ARG	Sidechain
77	Br	203	ARG	Sidechain
77	Br	204	ARG	Sidechain
77	Br	217	ARG	Sidechain,Peptide
77	Br	219	PHE	Sidechain
77	Br	220	ARG	Sidechain
77	Br	225	LEU	Mainchain
77	Br	246	ARG	Sidechain
77	Br	250	TRP	Peptide
77	Br	262	PHE	Sidechain
77	Br	264	THR	Mainchain
77	Br	265	PHE	Sidechain
77	Br	275	PHE	Sidechain
77	Br	289	ARG	Sidechain
77	Br	297	ARG	Sidechain
77	Br	298	ARG	Sidechain
77	Br	299	VAL	Peptide
77	Br	309	ARG	Sidechain
77	Br	313	TYR	Sidechain
77	Br	32	ARG	Sidechain
77	Br	320	ILE	Peptide
77	Br	323	ARG	Sidechain

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Mol	Chain	Res	Type	Group
77	Br	326	ARG	Sidechain
77	Br	328	ARG	Sidechain
77	Br	33	HIS	Sidechain
77	Br	349	ARG	Sidechain,Mainchain
77	Br	364	ARG	Sidechain
77	Br	4	ARG	Sidechain
77	Br	48	ARG	Sidechain
77	Br	55	ARG	Sidechain
77	Br	74	ARG	Sidechain
77	Br	79	HIS	Sidechain
78	Bs	2	MET	Mainchain
78	Bs	21	ARG	Sidechain
78	Bs	22	ARG	Sidechain
78	Bs	24	TYR	Sidechain
78	Bs	41	HIS	Sidechain
79	Bt	15	GLU	Peptide
79	Bt	16	ARG	Sidechain
79	Bt	2	VAL	Mainchain
79	Bt	20	HIS	Sidechain
79	Bt	23	PHE	Sidechain
79	Bt	28	TYR	Sidechain
79	Bt	4	TYR	Sidechain
79	Bt	48	SER	Mainchain
79	Bt	58	PHE	Sidechain
79	Bt	61	LYS	Mainchain
79	Bt	90	HIS	Sidechain,Mainchain
79	Bt	91	PHE	Sidechain
80	Bu	108	ARG	Sidechain
80	Bu	12	TYR	Sidechain
80	Bu	13	TYR	Sidechain
80	Bu	132	VAL	Peptide
80	Bu	133	ARG	Sidechain
80	Bu	145	ARG	Sidechain
80	Bu	146	PHE	Sidechain
80	Bu	147	PRO	Peptide
80	Bu	148	PHE	Sidechain
80	Bu	164	ARG	Sidechain
80	Bu	182	ARG	Sidechain
80	Bu	189	TYR	Sidechain
80	Bu	202	ARG	Sidechain
80	Bu	204	ARG	Sidechain
80	Bu	206	PHE	Sidechain

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Mol	Chain	Res	Type	Group
80	Bu	213	TYR	Sidechain
80	Bu	218	ARG	Sidechain
80	Bu	226	ASP	Peptide
80	Bu	23	ARG	Sidechain
80	Bu	232	PHE	Sidechain
80	Bu	236	ILE	Mainchain
80	Bu	238	ALA	Mainchain
80	Bu	24	ARG	Sidechain
80	Bu	249	TYR	Sidechain
80	Bu	257	ARG	Sidechain
80	Bu	264	ARG	Sidechain
80	Bu	278	TYR	Sidechain
80	Bu	30	TYR	Sidechain
80	Bu	33	ARG	Sidechain
80	Bu	44	PHE	Sidechain
80	Bu	54	ARG	Sidechain
80	Bu	79	TYR	Sidechain
80	Bu	81	HIS	Sidechain
80	Bu	99	TYR	Sidechain
81	Bv	147	ARG	Sidechain
81	Bv	15	LYS	Peptide
81	Bv	170	GLU	Peptide
81	Bv	174	TYR	Sidechain
81	Bv	176	HIS	Sidechain
81	Bv	179	PHE	Sidechain
81	Bv	18	ARG	Sidechain
81	Bv	188	HIS	Sidechain
81	Bv	189	ARG	Sidechain
81	Bv	23	TYR	Sidechain
81	Bv	27	ARG	Sidechain
81	Bv	3	ALA	Peptide
81	Bv	42	ARG	Sidechain
81	Bv	44	ARG	Sidechain
81	Bv	46	ARG	Sidechain
81	Bv	64	GLY	Peptide
81	Bv	68	TYR	Mainchain,Peptide
81	Bv	74	ARG	Sidechain
81	Bv	79	ARG	Sidechain
81	Bv	8	ALA	Peptide
81	Bv	87	ARG	Sidechain
82	Bw	103	ARG	Sidechain
82	Bw	138	MET	Mainchain

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Mol	Chain	Res	Type	Group
82	Bw	151	TYR	Sidechain
82	Bw	160	ARG	Sidechain
82	Bw	164	TYR	Sidechain
82	Bw	166	ARG	Sidechain
82	Bw	168	HIS	Sidechain,Mainchain
82	Bw	18	ALA	Mainchain
82	Bw	188	TYR	Mainchain
82	Bw	204	TYR	Sidechain
82	Bw	224	PRO	Mainchain,Peptide
82	Bw	240	GLY	Peptide
82	Bw	245	ARG	Sidechain
82	Bw	251	ARG	Sidechain
82	Bw	255	ARG	Sidechain
82	Bw	27	ALA	Peptide
82	Bw	30	ARG	Sidechain
82	Bw	36	GLN	Mainchain
82	Bw	40	ASN	Mainchain
82	Bw	41	PHE	Sidechain
82	Bw	42	LYS	Mainchain,Peptide
82	Bw	44	ALA	Mainchain
82	Bw	60	TYR	Sidechain
82	Bw	70	TYR	Sidechain
82	Bw	81	ARG	Sidechain
82	Bw	82	ARG	Sidechain
82	Bw	85	ARG	Sidechain
82	Bw	90	TYR	Sidechain
82	Bw	91	TYR	Sidechain
83	Bx	118	ARG	Sidechain
83	Bx	121	ARG	Sidechain
83	Bx	162	ARG	Sidechain
83	Bx	171	ASP	Peptide
83	Bx	198	ARG	Sidechain
83	Bx	215	ASP	Mainchain
83	Bx	234	ARG	Sidechain
83	Bx	265	ARG	Sidechain
83	Bx	269	ASN	Mainchain
83	Bx	273	ALA	Peptide
83	Bx	38	SER	Peptide
83	Bx	43	ARG	Sidechain
83	Bx	45	LYS	Mainchain,Peptide
83	Bx	47	PHE	Sidechain
83	Bx	57	ARG	Sidechain

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Mol	Chain	Res	Type	Group
83	Bx	61	ARG	Sidechain
83	Bx	64	ARG	Sidechain
83	Bx	91	PHE	Sidechain
84	By	120	ARG	Sidechain
84	By	121	ARG	Sidechain
84	By	127	ASP	Mainchain,Peptide
84	By	131	TYR	Sidechain
84	By	132	ARG	Sidechain
84	By	138	VAL	Mainchain,Peptide
84	By	140	ASP	Mainchain
84	By	154	ARG	Sidechain
84	By	171	ARG	Sidechain
84	By	186	GLU	Mainchain
84	By	2	LYS	Mainchain
84	By	38	ARG	Sidechain
84	By	41	GLN	Peptide
84	By	45	ARG	Sidechain
84	By	47	ASN	Mainchain
84	By	51	ARG	Sidechain
84	By	6	HIS	Sidechain,Peptide
84	By	7	ASP	Mainchain,Peptide
84	By	74	HIS	Sidechain
84	By	76	ARG	Sidechain
84	By	8	GLN	Peptide
84	By	94	TYR	Sidechain
84	By	96	HIS	Sidechain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A0	1782	0	1855	78	0
2	A1	1940	0	2043	92	0
3	A2	1484	0	1547	84	0
4	A3	2003	0	2138	152	0
5	A4	1592	0	1688	137	0
6	A5	1551	0	1660	81	0
7	A6	1518	0	1571	97	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	A7	2412	0	2334	76	0
9	A8	334	0	343	13	0
10	A9	530	0	527	17	0
11	AC	1620	0	1660	81	0
12	AD	853	0	857	36	0
13	AE	1300	0	1359	72	0
14	AF	940	0	962	6	0
15	AG	1148	0	1226	84	0
16	AH	922	0	923	49	0
17	AI	1074	0	1097	48	0
18	AJ	1018	0	1050	60	0
19	AK	1190	0	1254	34	0
20	AL	1021	0	1096	45	0
21	AM	1229	0	1291	92	0
22	AO	1181	0	1240	51	0
23	AP	1731	0	1782	133	0
24	AQ	827	0	883	40	0
25	AR	603	0	592	53	0
26	AS	1116	0	1170	41	0
27	AT	1050	0	1141	96	0
28	AU	673	0	735	25	0
29	AV	809	0	841	36	0
30	AW	636	0	648	34	0
31	AX	1628	0	1695	43	0
32	AY	514	0	571	53	0
33	AZ	526	0	550	22	0
34	BA	39395	0	19108	6136	0
35	BB	31164	0	15283	3845	0
36	BC	3584	0	1759	705	0
37	BD	2533	0	1235	393	0
38	BE	4441	0	2194	692	0
39	BF	1521	0	773	229	0
40	BG	3896	0	1874	616	0
41	BH	2867	0	1408	474	0
42	BI	1527	0	1646	76	0
43	BJ	1717	0	1815	12	0
44	BK	1725	0	1797	129	0
45	BL	1363	0	1402	82	0
46	BM	1022	0	1109	4	0
47	BN	1762	0	1869	216	0
48	BO	1627	0	1761	95	0
49	BP	1484	0	1601	135	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	BQ	1716	0	1796	87	0
51	BR	1245	0	1300	79	0
52	BS	1473	0	1512	83	0
53	BT	1672	0	1799	138	0
54	BU	1260	0	1315	66	0
55	BV	863	0	908	52	0
56	BW	1042	0	1106	55	0
57	BX	990	0	1059	76	0
58	BY	836	0	863	136	0
59	BZ	1008	0	1088	55	0
60	Ba	1091	0	1162	0	0
61	Bb	1137	0	1174	0	0
62	Bc	1129	0	1213	0	0
63	Bd	571	0	595	0	0
64	Be	1390	0	1444	0	0
65	Bf	3317	0	3451	0	0
66	Bg	735	0	754	0	0
67	Bh	1526	0	1654	0	0
68	Bi	1054	0	1112	0	0
69	Bj	1293	0	1420	0	0
70	Bk	719	0	811	0	0
71	Bl	936	0	968	0	0
72	Bm	849	0	934	0	0
73	Bn	699	0	718	0	0
74	Bo	715	0	743	0	0
75	Bp	656	0	717	0	0
76	Bq	457	0	495	0	0
77	Br	2883	0	3011	0	0
78	Bs	427	0	465	0	0
79	Bt	866	0	922	0	0
80	Bu	2354	0	2425	0	0
81	Bv	1222	0	1318	0	0
82	Bw	2066	0	2180	0	0
83	Bx	1908	0	2047	0	0
84	By	1540	0	1608	0	0
85	AA	47370	0	23451	5922	0
86	AB	1557	0	775	109	0
All	All	232955	0	167276	20897	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 58.

All (20897) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:214:A:C6	34:BA:214:A:C5	1.79	1.69
21:AM:13:ILE:HG23	45:BL:123:TYR:CE2	1.20	1.68
34:BA:547:C:C4'	34:BA:547:C:C3'	1.78	1.59
21:AM:13:ILE:CG2	45:BL:123:TYR:HE2	1.06	1.57
34:BA:214:A:N3	34:BA:214:A:C2	1.70	1.56
34:BA:214:A:N1	34:BA:214:A:C2	1.69	1.56
85:AA:469:G:C5	85:AA:469:G:C4	1.94	1.56
34:BA:214:A:C6	34:BA:214:A:N1	1.75	1.53
34:BA:743:A:C8	34:BA:743:A:N9	1.75	1.53
41:BH:98:U:C5	55:BV:59:GLY:HA2	1.40	1.53
85:AA:464:A:C8	85:AA:466:A:H8	1.28	1.51
34:BA:874:G:C2	34:BA:875:G:C5	1.87	1.48
58:BY:79:THR:HG23	85:AA:2163:G:C4'	1.44	1.48
34:BA:743:A:N9	34:BA:743:A:C4	1.82	1.47
3:A2:184:ARG:HH22	86:AB:41:C:C4'	1.28	1.43
35:BB:525:U:O4	85:AA:2113:U:C5'	1.66	1.42
5:A4:6:HIS:CE1	53:BT:191:ASP:O	1.71	1.42
5:A4:6:HIS:CE1	53:BT:191:ASP:C	1.91	1.42
34:BA:214:A:C5	34:BA:214:A:C4	1.77	1.41
58:BY:82:ALA:HB1	85:AA:2159:C:N3	1.30	1.41
34:BA:557:U:C2'	34:BA:557:U:C3'	1.77	1.40
35:BB:525:U:O4	85:AA:2113:U:C4'	1.71	1.39
85:AA:466:A:N3	85:AA:466:A:H3'	1.40	1.36
41:BH:98:U:H5	55:BV:59:GLY:CA	1.34	1.36
34:BA:743:A:C5	47:BN:7:ALA:CA	2.07	1.35
58:BY:79:THR:HG23	85:AA:2163:G:C5'	1.56	1.34
3:A2:184:ARG:NH2	86:AB:41:C:H4'	1.42	1.34
41:BH:98:U:C5	55:BV:59:GLY:CA	2.07	1.34
4:A3:9:ARG:CD	58:BY:84:ARG:CZ	2.04	1.34
41:BH:98:U:OP2	55:BV:63:LYS:HB2	1.27	1.32
41:BH:97:C:OP2	55:BV:63:LYS:HE3	1.28	1.32
58:BY:82:ALA:HB1	85:AA:2159:C:C2	1.66	1.30
58:BY:82:ALA:CB	85:AA:2159:C:N3	1.93	1.29
85:AA:464:A:C8	85:AA:466:A:C8	2.20	1.29
5:A4:6:HIS:HE1	53:BT:192:ASP:CA	1.43	1.29
34:BA:874:G:N1	34:BA:875:G:C5	1.79	1.28
4:A3:9:ARG:HD2	58:BY:84:ARG:NH1	1.48	1.28
34:BA:549:G:H5"	52:BS:147:HIS:O	1.33	1.28
34:BA:743:A:C5	47:BN:7:ALA:C	2.07	1.27
21:AM:13:ILE:CG2	45:BL:123:TYR:CE2	1.91	1.26
5:A4:6:HIS:CE1	53:BT:192:ASP:CA	2.19	1.26
58:BY:98:ARG:NH2	85:AA:2161:C:OP1	1.66	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:81:ARG:HG2	85:AA:2162:G:O5'	1.34	1.25
5:A4:6:HIS:NE2	53:BT:191:ASP:O	1.69	1.25
34:BA:647:U:O2'	34:BA:648:C:C6	1.70	1.24
58:BY:79:THR:CG2	85:AA:2163:G:H4'	1.68	1.24
53:BT:177:GLU:HG2	85:AA:999:A:N7	1.49	1.24
34:BA:874:G:C2	34:BA:875:G:C4	2.26	1.23
34:BA:743:A:C8	47:BN:7:ALA:CA	2.20	1.23
58:BY:79:THR:CG2	85:AA:2163:G:C4'	2.15	1.22
5:A4:6:HIS:NE2	53:BT:191:ASP:HB3	1.54	1.22
4:A3:9:ARG:HD2	58:BY:84:ARG:CZ	1.66	1.22
58:BY:81:ARG:CD	85:AA:2163:G:OP2	1.78	1.21
34:BA:549:G:O4'	52:BS:147:HIS:CB	1.71	1.21
41:BH:98:U:OP2	55:BV:63:LYS:CB	1.86	1.21
4:A3:9:ARG:NH1	58:BY:84:ARG:NH1	1.87	1.21
53:BT:177:GLU:CG	85:AA:999:A:N7	2.07	1.18
15:AG:123:HIS:NE2	34:BA:946:A:H4'	1.54	1.18
53:BT:181:ARG:HD3	85:AA:999:A:O2'	1.25	1.16
3:A2:184:ARG:NH2	86:AB:41:C:C5'	2.08	1.16
4:A3:9:ARG:CD	58:BY:84:ARG:NH1	2.06	1.16
34:BA:549:G:C5'	52:BS:147:HIS:C	2.00	1.16
58:BY:79:THR:CG2	85:AA:2163:G:H5"	1.74	1.15
21:AM:13:ILE:HG21	45:BL:123:TYR:HE2	1.10	1.15
34:BA:743:A:C4	47:BN:7:ALA:CA	2.29	1.15
4:A3:9:ARG:CD	58:BY:84:ARG:NH2	2.10	1.15
85:AA:466:A:N3	85:AA:466:A:C3'	2.09	1.14
85:AA:464:A:N7	85:AA:466:A:C8	2.14	1.14
53:BT:181:ARG:CD	85:AA:999:A:O2'	1.92	1.13
34:BA:561:U:H2'	34:BA:562:C:C6	1.83	1.13
41:BH:99:G:OP1	55:BV:58:ASN:N	1.70	1.12
53:BT:177:GLU:OE2	85:AA:999:A:N7	1.82	1.12
4:A3:9:ARG:HD3	58:BY:84:ARG:CZ	1.79	1.12
34:BA:743:A:C8	47:BN:7:ALA:C	2.23	1.12
35:BB:525:U:O4	85:AA:2113:U:H5'	1.31	1.12
34:BA:862:C:N3	34:BA:874:G:N2	1.96	1.11
85:AA:464:A:N7	85:AA:466:A:H8	1.48	1.11
35:BB:525:U:C4	85:AA:2113:U:H4'	1.84	1.10
34:BA:743:A:N7	47:BN:7:ALA:CA	2.14	1.10
35:BB:525:U:O4	85:AA:2113:U:H4'	1.41	1.09
6:A5:181:GLU:HB2	41:BH:93:G:OP2	1.44	1.09
35:BB:1166:A:H5'	35:BB:1167:C:H5"	1.25	1.09
34:BA:546:U:O3'	34:BA:547:C:P	2.11	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:531:U:H5'	85:AA:2231:G:O6	1.53	1.08
4:A3:75:SER:HB2	58:BY:27:LEU:HD22	1.35	1.08
4:A3:9:ARG:CZ	58:BY:84:ARG:NH1	2.16	1.07
58:BY:81:ARG:HD2	85:AA:2163:G:OP2	1.35	1.07
5:A4:6:HIS:CE1	53:BT:192:ASP:HA	1.82	1.07
35:BB:526:A:N6	85:AA:2112:G:O2'	1.87	1.07
35:BB:970:C:H2'	35:BB:971:A:H5'	1.33	1.07
4:A3:9:ARG:HD2	58:BY:84:ARG:NH2	1.70	1.06
41:BH:97:C:OP2	55:BV:63:LYS:CE	2.02	1.06
35:BB:530:C:H5"	85:AA:2231:G:H2'	1.37	1.06
58:BY:79:THR:CG2	85:AA:2163:G:C5'	2.29	1.06
34:BA:743:A:C4	47:BN:7:ALA:C	2.29	1.05
34:BA:874:G:C6	34:BA:875:G:C6	2.40	1.05
34:BA:549:G:H4'	52:BS:147:HIS:C	1.76	1.05
34:BA:874:G:C6	34:BA:875:G:O6	2.10	1.04
3:A2:184:ARG:NH2	86:AB:41:C:H5"	1.72	1.04
58:BY:83:GLU:HB3	85:AA:2161:C:O4'	1.58	1.04
41:BH:98:U:H5	55:BV:59:GLY:HA3	1.20	1.03
85:AA:466:A:C2	85:AA:466:A:H3'	1.92	1.03
34:BA:799:A:C8	34:BA:857:C:H5"	1.94	1.01
34:BA:862:C:H3'	34:BA:863:G:H5"	1.40	1.01
34:BA:549:G:H4'	52:BS:148:ASN:N	1.75	1.01
6:A5:183:ARG:CD	41:BH:93:G:O5'	2.08	1.01
34:BA:549:G:C4'	52:BS:147:HIS:C	2.28	1.01
53:BT:177:GLU:CD	85:AA:999:A:N7	2.13	1.01
21:AM:13:ILE:HG23	45:BL:123:TYR:CD2	1.96	1.00
58:BY:81:ARG:CG	85:AA:2162:G:O5'	2.10	1.00
56:BW:69:PRO:CD	85:AA:2126:U:OP1	2.09	1.00
4:A3:9:ARG:NH1	58:BY:84:ARG:HH11	1.53	1.00
5:A4:104:ILE:HG22	5:A4:105:THR:H	1.25	1.00
53:BT:170:ARG:N	85:AA:957:A:H61	1.60	1.00
34:BA:561:U:H2'	34:BA:562:C:H6	1.24	1.00
3:A2:184:ARG:CZ	86:AB:41:C:H4'	1.92	0.99
34:BA:874:G:N1	34:BA:875:G:C6	2.29	0.99
3:A2:184:ARG:HH22	86:AB:41:C:C5'	1.73	0.99
5:A4:6:HIS:HE1	53:BT:192:ASP:CB	1.75	0.99
35:BB:530:C:OP2	85:AA:2231:G:H1'	1.59	0.99
4:A3:9:ARG:HD3	58:BY:84:ARG:NH2	1.75	0.98
58:BY:79:THR:HG23	85:AA:2163:G:H4'	0.99	0.98
35:BB:837:A:H5"	35:BB:1026:G:C5	1.99	0.98
3:A2:184:ARG:HH22	86:AB:41:C:H4'	0.82	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A4:6:HIS:NE2	53:BT:191:ASP:CB	2.28	0.97
5:A4:6:HIS:CE1	53:BT:192:ASP:N	2.33	0.97
3:A2:184:ARG:NH2	86:AB:41:C:C4'	2.05	0.96
34:BA:549:G:C5'	52:BS:147:HIS:O	2.07	0.96
4:A3:118:LYS:HE2	58:BY:80:VAL:HG12	1.47	0.96
41:BH:97:C:H4'	55:BV:64:LEU:H	1.29	0.96
34:BA:549:G:O4'	52:BS:147:HIS:HB2	0.81	0.96
41:BH:98:U:OP1	55:BV:63:LYS:O	1.85	0.95
4:A3:9:ARG:HH11	58:BY:84:ARG:HH12	1.07	0.95
34:BA:743:A:N7	47:BN:7:ALA:C	2.19	0.95
4:A3:9:ARG:HH11	58:BY:84:ARG:NH1	1.53	0.95
35:BB:526:A:C2	85:AA:2113:U:H5"	2.01	0.95
6:A5:183:ARG:HD3	41:BH:93:G:P	2.07	0.95
5:A4:6:HIS:HE1	53:BT:192:ASP:N	1.65	0.94
34:BA:862:C:N4	34:BA:863:G:C8	2.34	0.94
38:BE:112:G:H3'	38:BE:113:C:H5"	1.49	0.94
35:BB:529:A:H1'	85:AA:2111:C:H4'	1.50	0.94
56:BW:69:PRO:HG2	85:AA:2126:U:OP1	1.68	0.94
41:BH:99:G:OP1	55:BV:57:LEU:C	2.05	0.94
4:A3:118:LYS:HE2	58:BY:80:VAL:CG1	1.97	0.93
5:A4:13:LEU:HD12	5:A4:47:HIS:CD2	2.03	0.93
5:A4:6:HIS:NE2	53:BT:191:ASP:C	2.13	0.93
85:AA:1139:G:H2'	85:AA:1140:G:H5"	1.48	0.93
4:A3:9:ARG:HD2	58:BY:84:ARG:HH12	1.26	0.93
49:BP:93:ARG:HA	49:BP:96:HIS:CE1	2.02	0.92
35:BB:1166:A:C5'	35:BB:1167:C:H5"	2.00	0.92
13:AE:172:SER:HA	85:AA:941:C:C5	2.04	0.92
53:BT:177:GLU:HG2	85:AA:999:A:C8	2.05	0.92
58:BY:82:ALA:O	85:AA:2162:G:H5'	1.71	0.92
56:BW:69:PRO:CG	85:AA:2126:U:OP1	2.18	0.91
6:A5:181:GLU:CB	41:BH:93:G:OP2	2.13	0.91
20:AL:90:HIS:H	20:AL:90:HIS:CD2	1.85	0.91
85:AA:2044:A:OP2	86:AB:35:A:H4'	1.70	0.91
58:BY:79:THR:HG21	85:AA:2163:G:O3'	1.69	0.91
35:BB:805:G:H1	35:BB:835:C:H42	1.17	0.91
15:AG:140:LYS:NZ	34:BA:946:A:H5"	1.85	0.90
34:BA:743:A:N9	47:BN:7:ALA:CA	2.35	0.90
34:BA:743:A:N9	47:BN:7:ALA:HA	1.87	0.90
34:BA:803:U:H2'	34:BA:804:G:C8	2.07	0.90
58:BY:79:THR:HG23	85:AA:2163:G:H5"	1.35	0.90
41:BH:98:U:OP2	55:BV:58:ASN:O	1.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:197:A:H2'	34:BA:280:A:H61	1.36	0.89
34:BA:744:G:C4	47:BN:6:ASN:HA	2.06	0.89
58:BY:82:ALA:HB2	85:AA:2159:C:N3	1.88	0.89
4:A3:9:ARG:CZ	58:BY:84:ARG:HH11	1.80	0.89
34:BA:1210:A:H4'	54:BU:131:SER:HA	1.53	0.89
6:A5:183:ARG:HD3	41:BH:93:G:O5'	1.71	0.89
34:BA:647:U:O2'	34:BA:648:C:H6	1.49	0.88
38:BE:91:G:H22	38:BE:129:G:H1	1.20	0.88
58:BY:79:THR:CG2	85:AA:2163:G:O3'	2.22	0.88
35:BB:59:U:H3'	35:BB:60:A:H5"	1.55	0.87
34:BA:549:G:H5"	52:BS:147:HIS:C	1.76	0.87
34:BA:675:C:C5	34:BA:676:G:C5	2.62	0.87
53:BT:177:GLU:OE2	85:AA:999:A:C8	2.27	0.86
85:AA:1959:G:H1	85:AA:1978:G:H1	1.20	0.86
35:BB:1404:A:H5"	35:BB:1405:G:H5'	1.57	0.86
4:A3:9:ARG:NE	58:BY:84:ARG:NH1	2.24	0.86
85:AA:495:G:H5'	85:AA:495:G:C8	2.10	0.86
35:BB:525:U:C4	85:AA:2113:U:C5'	2.58	0.86
85:AA:1917:G:H22	85:AA:1995:U:H3	1.20	0.86
56:BW:69:PRO:HD2	85:AA:2126:U:OP1	1.75	0.86
35:BB:837:A:H5"	35:BB:1026:G:C4	2.10	0.86
35:BB:531:U:C5'	85:AA:2231:G:O6	2.24	0.86
34:BA:1696:G:H3'	34:BA:1697:U:C6	2.10	0.86
19:AK:103:HIS:CG	19:AK:104:ASN:H	1.93	0.86
41:BH:97:C:H4'	55:BV:64:LEU:N	1.87	0.86
34:BA:1597:G:H1	51:BR:141:ARG:HH22	1.23	0.86
34:BA:331:G:H1	34:BA:356:C:H3'	1.40	0.86
34:BA:1488:C:H2'	34:BA:1489:U:C6	2.11	0.86
23:AP:158:ILE:HG22	23:AP:159:GLY:H	1.39	0.86
27:AT:42:PRO:HA	85:AA:591:A:H4'	1.57	0.86
34:BA:63:A:C2	34:BA:65:A:H1'	2.11	0.85
23:AP:149:VAL:HG13	23:AP:231:THR:HG21	1.58	0.85
34:BA:862:C:C3'	34:BA:863:G:H5"	2.06	0.85
49:BP:122:TYR:H	49:BP:123:TRP:HD1	1.23	0.85
34:BA:647:U:HO2'	34:BA:648:C:H6	1.18	0.85
5:A4:6:HIS:CE1	53:BT:192:ASP:CB	2.56	0.85
44:BK:146:PRO:HA	44:BK:149:LEU:HD12	1.59	0.85
41:BH:98:U:P	55:BV:58:ASN:O	2.35	0.85
35:BB:1464:G:C6	40:BG:24:A:H5'	2.12	0.84
34:BA:543:A:C2	34:BA:564:C:C5	2.65	0.84
3:A2:184:ARG:NH1	86:AB:41:C:H4'	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:458:C:N4	85:AA:466:A:H62	1.74	0.84
5:A4:6:HIS:ND1	53:BT:192:ASP:HA	1.92	0.84
48:BO:182:LYS:HZ3	48:BO:186:HIS:CE1	1.94	0.84
15:AG:140:LYS:HZ3	34:BA:946:A:C5'	1.91	0.84
4:A3:75:SER:HB2	58:BY:27:LEU:CD2	2.06	0.84
38:BE:27:A:H61	38:BE:192:A:H3'	1.41	0.84
34:BA:237:A:H3'	34:BA:238:C:C6	2.12	0.84
34:BA:757:G:H4'	34:BA:758:G:C4	2.12	0.84
8:A7:249:ARG:HH22	8:A7:315:SER:N	1.76	0.84
34:BA:1011:G:H2'	34:BA:1013:A:C5	2.13	0.83
85:AA:466:A:C2	85:AA:469:G:N7	2.47	0.83
85:AA:466:A:C4	85:AA:469:G:N7	2.45	0.83
85:AA:1139:G:C2'	85:AA:1140:G:H5"	2.07	0.83
34:BA:1299:G:H1	34:BA:1440:C:H42	1.22	0.83
35:BB:404:A:C5	35:BB:410:A:C2	2.67	0.83
3:A2:113:ARG:NH2	86:AB:34:G:OP2	2.12	0.83
23:AP:189:VAL:HG13	85:AA:2:A:H3'	1.59	0.83
58:BY:83:GLU:HA	85:AA:2161:C:H4'	1.60	0.82
85:AA:179:G:H2'	85:AA:180:A:C5	2.14	0.82
35:BB:1511:U:H2'	35:BB:1512:C:H5'	1.61	0.82
41:BH:33:G:HO2'	41:BH:34:G:H8	1.26	0.82
38:BE:32:U:C2	38:BE:183:C:C5	2.68	0.82
34:BA:603:U:C5	34:BA:680:C:C5	2.67	0.82
6:A5:110:ARG:NH2	41:BH:92:A:O2'	2.12	0.82
34:BA:195:G:C8	34:BA:290:G:C2	2.66	0.82
85:AA:249:C:H2'	85:AA:250:C:C6	2.15	0.82
58:BY:83:GLU:HB3	85:AA:2161:C:C4'	2.10	0.82
34:BA:19:G:H1	36:BC:35:C:H42	1.25	0.81
35:BB:1147:G:C5	35:BB:1148:U:C4	2.67	0.81
85:AA:466:A:C2'	85:AA:466:A:N3	2.40	0.81
15:AG:123:HIS:HB2	34:BA:945:A:C2	2.15	0.81
35:BB:138:A:C3'	35:BB:139:G:H5'	2.10	0.81
41:BH:98:U:C4	55:BV:59:GLY:HA2	2.13	0.81
34:BA:603:U:C5	34:BA:680:C:C4	2.68	0.81
8:A7:73:VAL:HG23	8:A7:82:ALA:HB1	1.61	0.81
35:BB:806:U:C5	35:BB:807:U:C4	2.69	0.81
6:A5:123:ALA:HA	41:BH:91:G:O6	1.79	0.81
38:BE:101:C:C4	38:BE:117:A:C5	2.69	0.81
35:BB:805:G:H3'	35:BB:806:U:C5	2.16	0.81
34:BA:1708:A:C6	34:BA:1709:A:H1'	2.16	0.81
34:BA:741:A:N7	47:BN:10:HIS:HD2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:525:U:N3	85:AA:2113:U:H4'	1.95	0.81
34:BA:743:A:N9	47:BN:7:ALA:C	2.34	0.81
5:A4:13:LEU:HD12	5:A4:47:HIS:CG	2.15	0.81
41:BH:20:A:C2	41:BH:21:G:H1'	2.16	0.81
34:BA:237:A:H3'	34:BA:238:C:C5	2.14	0.81
34:BA:862:C:N4	34:BA:863:G:N9	2.29	0.81
35:BB:847:U:H3'	35:BB:848:A:C5'	2.10	0.81
57:BX:158:ALA:HA	57:BX:163:LEU:HD12	1.63	0.81
34:BA:359:G:H3'	34:BA:360:C:H4'	1.63	0.80
34:BA:743:A:N9	34:BA:743:A:C5	2.48	0.80
35:BB:61:A:H2'	35:BB:62:C:C2	2.16	0.80
85:AA:2121:G:H2'	85:AA:2122:A:C8	2.14	0.80
6:A5:183:ARG:CD	41:BH:93:G:P	2.68	0.80
34:BA:195:G:C6	34:BA:289:A:C6	2.69	0.80
58:BY:79:THR:CG2	85:AA:2163:G:C3'	2.59	0.80
34:BA:874:G:O6	34:BA:875:G:O6	1.99	0.80
35:BB:424:U:H3	35:BB:448:G:H1	1.26	0.80
52:BS:131:ILE:HG21	52:BS:136:VAL:H	1.45	0.80
41:BH:38:G:C6	41:BH:114:G:C5	2.69	0.80
85:AA:627:A:H2'	85:AA:628:C:C5	2.16	0.80
58:BY:80:VAL:C	85:AA:2163:G:H5'	2.01	0.80
2:A1:198:HIS:CE1	85:AA:926:C:H5'	2.17	0.80
85:AA:1464:G:C8	85:AA:1464:G:H5"	2.16	0.80
7:A6:111:VAL:HG21	7:A6:147:VAL:HG21	1.64	0.80
85:AA:942:A:H5"	85:AA:943:U:C6	2.17	0.80
34:BA:616:G:H2'	34:BA:617:G:H1'	1.63	0.80
41:BH:32:U:C5	41:BH:33:G:C6	2.70	0.80
34:BA:400:A:C2	34:BA:401:A:H1'	2.16	0.80
27:AT:126:GLY:HA3	85:AA:152:A:H4'	1.63	0.80
35:BB:837:A:H5"	35:BB:1026:G:C6	2.16	0.80
34:BA:296:G:H2'	34:BA:297:A:H4'	1.63	0.80
34:BA:763:U:C6	34:BA:770:G:H1'	2.17	0.80
38:BE:23:G:C2	38:BE:25:U:C6	2.69	0.80
53:BT:181:ARG:NH1	85:AA:999:A:N9	2.19	0.80
34:BA:1287:G:C6	34:BA:1436:A:C2	2.70	0.79
51:BR:51:VAL:HA	51:BR:55:THR:HG22	1.63	0.79
35:BB:71:A:H61	35:BB:615:A:H1'	1.47	0.79
34:BA:1648:G:H5'	34:BA:1648:G:C8	2.17	0.79
35:BB:1298:C:H3'	35:BB:1299:G:C8	2.17	0.79
34:BA:1043:C:C5	34:BA:1581:G:C6	2.71	0.79
85:AA:2119:C:H42	85:AA:2199:G:H1	1.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:152:LEU:HD21	85:AA:1911:A:C5	2.17	0.79
38:BE:73:A:C2	38:BE:88:G:C2	2.70	0.79
85:AA:1226:A:C5	85:AA:1227:A:C8	2.70	0.79
85:AA:959:C:H3'	85:AA:960:G:C8	2.18	0.79
17:AI:51:ARG:HH12	17:AI:55:HIS:CG	2.00	0.79
34:BA:1732:A:H61	34:BA:1792:U:H3	1.30	0.79
34:BA:17:A:H2'	34:BA:18:G:C8	2.17	0.79
85:AA:310:U:H3	85:AA:316:C:H42	1.30	0.79
34:BA:769:U:H3'	34:BA:770:G:H21	1.48	0.79
34:BA:938:C:H2'	34:BA:939:C:C6	2.17	0.79
35:BB:526:A:C2	85:AA:2113:U:C5'	2.56	0.79
34:BA:1715:C:H4'	34:BA:1718:C:C5	2.18	0.78
35:BB:28:G:C6	35:BB:32:C:C6	2.70	0.78
15:AG:140:LYS:NZ	34:BA:946:A:C5'	2.45	0.78
35:BB:1023:G:H2'	35:BB:1024:G:C8	2.18	0.78
38:BE:112:G:H3'	38:BE:113:C:C5'	2.12	0.78
41:BH:98:U:C5	55:BV:59:GLY:HA3	1.99	0.78
85:AA:1675:U:C5	85:AA:1676:G:C5	2.71	0.78
85:AA:51:A:H2'	85:AA:52:U:H5'	1.65	0.78
85:AA:2139:G:H2'	85:AA:2140:U:C6	2.19	0.78
35:BB:134:G:C5	35:BB:135:C:C5	2.72	0.78
34:BA:483:A:C4	40:BG:17:A:H5'	2.19	0.78
41:BH:127:A:C2	41:BH:128:G:C4	2.71	0.78
41:BH:73:A:H61	55:BV:60:ARG:HG3	1.47	0.78
35:BB:126:C:H4'	41:BH:102:C:H4'	1.66	0.78
35:BB:655:U:H3	35:BB:1449:G:H1	1.30	0.78
85:AA:160:A:H1'	85:AA:481:A:C5	2.18	0.78
10:A9:95:LEU:HD13	85:AA:1628:U:C5	2.19	0.78
34:BA:1557:G:C5	34:BA:1558:C:C5	2.72	0.78
34:BA:756:A:H3'	34:BA:757:G:C8	2.19	0.78
34:BA:855:C:H42	34:BA:882:G:H1	1.30	0.78
41:BH:29:G:C2	41:BH:127:A:C2	2.72	0.78
85:AA:38:C:H1'	85:AA:541:A:C2	2.19	0.78
34:BA:620:C:H42	34:BA:662:U:H3	1.31	0.78
85:AA:1598:A:H61	85:AA:1639:U:H3	1.28	0.78
34:BA:483:A:H5'	34:BA:484:A:C5'	2.14	0.78
34:BA:798:G:C5	34:BA:800:G:C8	2.73	0.78
34:BA:828:A:C2	34:BA:840:U:C2	2.72	0.78
35:BB:700:C:C4	35:BB:701:U:C5	2.72	0.78
38:BE:21:C:H2'	38:BE:23:G:C8	2.18	0.78
85:AA:963:U:H4'	85:AA:964:C:C5	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1711:G:H5”	34:BA:1711:G:C8	2.19	0.77
34:BA:1186:U:H6	34:BA:1189:A:C8	2.02	0.77
85:AA:1457:C:H3’	85:AA:1458:G:C8	2.19	0.77
85:AA:703:U:H3	85:AA:1219:A:H62	1.32	0.77
44:BK:32:ARG:H	44:BK:69:ARG:HH12	1.32	0.77
35:BB:794:G:C6	35:BB:795:A:C5	2.72	0.77
36:BC:125:A:C2	36:BC:126:G:C4	2.73	0.77
34:BA:743:A:C4	47:BN:8:ILE:N	2.52	0.77
85:AA:268:A:H5’	85:AA:981:A:C2	2.19	0.77
4:A3:118:LYS:CE	58:BY:80:VAL:HG13	2.15	0.77
5:A4:6:HIS:CE1	53:BT:192:ASP:HB2	2.18	0.77
85:AA:2215:C:H5’	85:AA:2215:C:H6	1.49	0.77
34:BA:756:A:C5	34:BA:757:G:H1’	2.20	0.77
34:BA:557:U:C3’	34:BA:557:U:C6	2.68	0.77
37:BD:72:U:H3’	37:BD:73:U:C5	2.20	0.77
85:AA:883:A:H3’	85:AA:884:A:H62	1.48	0.77
85:AA:181:A:H3’	85:AA:182:C:H5’	1.66	0.76
85:AA:495:G:H8	85:AA:495:G:H5’	1.47	0.76
58:BY:80:VAL:CA	85:AA:2163:G:H5’	2.15	0.76
85:AA:289:G:H2’	85:AA:290:G:H5’	1.66	0.76
34:BA:2:A:H2’	34:BA:3:G:C8	2.20	0.76
34:BA:216:C:C6	34:BA:217:C:C2	2.74	0.76
35:BB:416:U:H2’	35:BB:417:A:C5	2.19	0.76
35:BB:138:A:H3’	35:BB:139:G:H5’	1.67	0.76
34:BA:696:A:H2’	34:BA:697:A:C8	2.20	0.76
34:BA:631:G:H22	34:BA:651:U:H1’	1.51	0.76
35:BB:850:U:H1’	35:BB:852:G:OP2	1.85	0.76
35:BB:364:U:C5	35:BB:365:U:C4	2.73	0.76
85:AA:561:C:C5	85:AA:562:C:C2	2.74	0.76
35:BB:817:C:C2	35:BB:823:G:C2	2.73	0.76
35:BB:362:A:C6	35:BB:363:A:C8	2.74	0.76
85:AA:2215:C:H5’	85:AA:2215:C:C6	2.21	0.76
3:A2:44:LYS:HA	85:AA:2082:C:C5	2.21	0.76
34:BA:288:U:H2’	34:BA:289:A:C8	2.20	0.76
2:A1:29:ARG:HG2	2:A1:78:LYS:HB2	1.67	0.76
34:BA:9:A:C8	34:BA:9:A:H5”	2.20	0.76
35:BB:1108:G:C6	35:BB:1157:G:C6	2.73	0.76
36:BC:79:A:H2’	36:BC:81:U:C5	2.21	0.76
38:BE:6:A:H5”	38:BE:7:U:OP2	1.85	0.76
26:AS:65:ALA:HA	85:AA:640:C:C5’	2.16	0.76
40:BG:4:A:C2	40:BG:21:C:C5	2.74	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:681:G:C2	85:AA:687:G:C8	2.73	0.76
34:BA:194:G:C6	34:BA:195:G:C6	2.73	0.76
85:AA:721:C:H2'	85:AA:722:G:C8	2.21	0.76
58:BY:79:THR:CB	85:AA:2163:G:H5"	2.17	0.75
34:BA:1527:G:C5	34:BA:1581:G:C6	2.74	0.75
34:BA:160:G:H3'	34:BA:161:U:H5	1.51	0.75
40:BG:181:C:H2'	40:BG:182:G:C8	2.21	0.75
52:BS:121:HIS:H	52:BS:121:HIS:CD2	2.02	0.75
34:BA:12:G:C4	34:BA:13:U:C5	2.74	0.75
38:BE:116:U:H4'	38:BE:119:U:H4'	1.68	0.75
41:BH:30:C:H2'	41:BH:31:A:C8	2.21	0.75
85:AA:39:A:H1'	85:AA:540:A:C6	2.21	0.75
53:BT:170:ARG:N	85:AA:957:A:N6	2.33	0.75
85:AA:1465:C:H2'	85:AA:1469:G:C8	2.21	0.75
24:AQ:15:GLN:HE22	24:AQ:115:HIS:CE1	2.03	0.75
34:BA:1529:G:C6	34:BA:1530:G:C5	2.74	0.75
35:BB:1353:G:C6	35:BB:1365:G:C6	2.74	0.75
27:AT:10:VAL:HG11	27:AT:37:TRP:CH2	2.21	0.75
24:AQ:16:ARG:HH21	24:AQ:116:ASP:N	1.84	0.75
34:BA:780:U:C5	34:BA:781:U:H1'	2.21	0.75
85:AA:1823:G:H3'	85:AA:1824:G:C8	2.22	0.75
35:BB:485:U:H2'	35:BB:486:G:C8	2.21	0.75
37:BD:85:C:H2'	37:BD:86:A:C8	2.21	0.75
34:BA:615:A:C2	34:BA:616:G:C4	2.73	0.75
34:BA:647:U:O2'	34:BA:648:C:C5	2.11	0.75
85:AA:959:C:C4	85:AA:995:G:C2	2.75	0.75
85:AA:1978:G:H1'	85:AA:1984:A:C4	2.21	0.75
34:BA:1292:A:H5'	45:BL:116:HIS:CE1	130.01	0.75
36:BC:59:A:C2	36:BC:61:A:C2	2.75	0.75
34:BA:1143:U:H2'	34:BA:1144:A:C8	2.22	0.75
34:BA:1178:U:H2'	34:BA:1179:U:C6	2.22	0.75
34:BA:359:G:C6	34:BA:362:G:H5"	2.22	0.75
34:BA:610:A:C2	34:BA:670:U:C2	2.75	0.75
85:AA:959:C:C6	85:AA:960:G:C5	2.75	0.75
35:BB:674:C:H2'	35:BB:675:U:C6	2.21	0.75
3:A2:152:LEU:HD21	85:AA:1911:A:C6	2.21	0.75
85:AA:1525:C:H2'	85:AA:1526:G:C8	2.21	0.75
34:BA:387:A:H2'	34:BA:388:A:C8	2.21	0.75
34:BA:141:G:C6	34:BA:142:A:C6	2.75	0.75
38:BE:106:C:H3'	53:BT:121:ARG:HH21	1.52	0.75
26:AS:65:ALA:HA	85:AA:640:C:H5'	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:106:ALA:HB1	6:A5:179:LEU:HD23	1.69	0.75
85:AA:2139:G:H2'	85:AA:2140:U:C5	2.22	0.75
21:AM:13:ILE:HG21	45:BL:125:PRO:HG3	1.68	0.75
15:AG:140:LYS:HZ3	34:BA:946:A:H5"	1.46	0.75
85:AA:1457:C:H2'	85:AA:1458:G:C5'	2.17	0.75
34:BA:399:G:C2	36:BC:29:C:C2	2.75	0.74
34:BA:480:G:C5	34:BA:481:A:C5	2.74	0.74
85:AA:2006:G:C6	85:AA:2007:G:C4	2.75	0.74
35:BB:1062:G:H2'	35:BB:1063:C:C6	2.22	0.74
35:BB:1296:A:C2	35:BB:1297:G:H1'	2.23	0.74
38:BE:111:C:H2'	38:BE:112:G:C4	2.21	0.74
85:AA:573:U:H2'	85:AA:574:U:H6	1.51	0.74
34:BA:1609:U:H2'	34:BA:1610:A:C8	2.23	0.74
34:BA:212:A:C2	34:BA:213:A:C4	2.76	0.74
38:BE:1:U:C2	38:BE:12:A:H1'	2.22	0.74
34:BA:545:U:C5	34:BA:546:U:C5	2.75	0.74
85:AA:466:A:C5	85:AA:469:G:N7	2.53	0.74
34:BA:1677:C:H2'	34:BA:1679:C:C5	2.22	0.74
35:BB:112:G:H3'	35:BB:112:G:N3	2.02	0.74
35:BB:138:A:H3'	35:BB:139:G:C5'	2.15	0.74
85:AA:903:G:H2'	85:AA:904:U:C6	2.22	0.74
38:BE:64:A:C2	38:BE:141:A:C6	2.75	0.74
7:A6:39:ARG:HA	7:A6:42:TRP:CE3	2.23	0.74
85:AA:2003:C:C5	85:AA:2006:G:C6	2.76	0.74
85:AA:573:U:H2'	85:AA:574:U:C6	2.23	0.74
34:BA:1409:A:C2	34:BA:1410:C:C2	2.75	0.74
35:BB:836:U:H2'	35:BB:837:A:C8	2.23	0.74
85:AA:959:C:H3'	85:AA:960:G:H8	1.52	0.74
34:BA:1114:G:H1'	44:BK:195:LEU:HD22	1.68	0.74
34:BA:92:G:C5	34:BA:93:A:C5	2.75	0.74
35:BB:1535:G:H4'	35:BB:1536:G:C8	2.23	0.74
36:BC:146:U:H2'	36:BC:147:G:H5"	1.69	0.74
85:AA:660:G:H2'	85:AA:661:C:C6	2.23	0.74
85:AA:928:U:H2'	85:AA:929:G:C8	2.22	0.74
35:BB:1499:U:C5	35:BB:1500:U:C5	2.76	0.74
85:AA:399:A:H2'	85:AA:400:G:C8	2.23	0.74
34:BA:1547:G:C2	34:BA:1562:G:C5	2.76	0.74
36:BC:96:A:H2'	36:BC:97:U:C6	2.23	0.74
35:BB:805:G:H3'	35:BB:806:U:C6	2.23	0.74
35:BB:1404:A:C6	35:BB:1440:A:C2	2.76	0.74
85:AA:1288:A:C2	85:AA:1289:U:C2	2.76	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:406:U:H2'	85:AA:407:G:C8	2.22	0.74
85:AA:20:G:H4'	85:AA:645:C:C4	2.23	0.74
35:BB:802:G:H2'	35:BB:804:U:C5	2.23	0.74
34:BA:678:C:C5	34:BA:679:U:C5	2.76	0.74
34:BA:603:U:H2'	34:BA:680:C:H1'	1.70	0.74
6:A5:217:LYS:NZ	35:BB:365:U:OP1	2.17	0.74
85:AA:2081:A:C5	85:AA:2082:C:H5	2.06	0.74
34:BA:1343:A:C2	34:BA:1344:G:C4	2.75	0.74
47:BN:200:PHE:CZ	47:BN:207:ALA:HA	2.23	0.74
7:A6:33:TYR:CD2	7:A6:104:LEU:HD13	2.23	0.74
34:BA:325:A:H3'	34:BA:326:A:O4'	1.88	0.73
34:BA:447:U:H2'	34:BA:448:U:C6	2.23	0.73
35:BB:1:U:H3'	35:BB:2:C:H4'	1.70	0.73
85:AA:105:A:H2'	85:AA:106:G:C8	2.23	0.73
85:AA:516:G:H2'	85:AA:517:A:C8	2.23	0.73
34:BA:603:U:C5	34:BA:1492:G:C5	2.76	0.73
85:AA:249:C:H2'	85:AA:250:C:H6	1.52	0.73
85:AA:367:A:H3'	85:AA:368:C:C6	2.23	0.73
51:BR:15:ALA:HB3	51:BR:150:MET:SD	2.28	0.73
40:BG:155:A:C5	40:BG:156:G:C5	2.76	0.73
85:AA:655:U:H3'	85:AA:655:U:C6	2.22	0.73
34:BA:471:U:C5	34:BA:472:G:C5	2.76	0.73
41:BH:29:G:H2'	41:BH:30:C:H5'	1.68	0.73
85:AA:2145:G:C5	85:AA:2146:G:C5	2.75	0.73
85:AA:979:U:H3'	85:AA:980:U:C6	2.21	0.73
34:BA:1557:G:C6	34:BA:1558:C:C4	2.77	0.73
85:AA:147:G:C4	85:AA:177:A:C2	2.76	0.73
34:BA:631:G:C6	34:BA:632:U:C4	2.76	0.73
85:AA:806:G:H1	85:AA:872:U:H3	1.36	0.73
85:AA:2216:A:H5'	85:AA:2218:G:N7	2.03	0.73
85:AA:433:U:O5'	85:AA:433:U:H6	1.71	0.73
35:BB:1215:U:H3	35:BB:1248:A:H61	1.35	0.73
36:BC:129:C:H2'	36:BC:131:C:C5	2.23	0.73
38:BE:101:C:H2'	38:BE:117:A:H61	1.53	0.73
4:A3:9:ARG:HD2	58:BY:84:ARG:HH22	1.50	0.73
85:AA:438:G:H5"	85:AA:438:G:C8	2.24	0.73
85:AA:421:G:C6	85:AA:422:G:C5	2.76	0.73
85:AA:16:G:H2'	85:AA:17:C:C6	2.23	0.73
1:A0:41:ARG:HH22	1:A0:234:HIS:CD2	2.05	0.73
3:A2:184:ARG:HH12	86:AB:41:C:H4'	1.53	0.73
85:AA:1128:G:H2'	85:AA:1129:A:C8	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AG:77:HIS:CD2	85:AA:941:C:H5”	2.24	0.73
85:AA:942:A:H5”	85:AA:943:U:C5	2.23	0.73
85:AA:1150:G:H2’	85:AA:1151:G:C8	2.23	0.73
34:BA:768:G:C4	34:BA:769:U:C5	2.76	0.73
35:BB:1333:U:H3	35:BB:1410:G:H1	1.35	0.73
35:BB:4:C:C4	38:BE:13:A:C8	2.76	0.73
85:AA:986:U:H2’	85:AA:987:C:C6	2.22	0.73
34:BA:1731:A:N7	34:BA:1793:G:H1’	2.04	0.73
34:BA:960:C:H2’	34:BA:961:C:C6	2.23	0.73
35:BB:471:U:H2’	35:BB:472:C:C6	2.23	0.73
53:BT:170:ARG:CA	85:AA:957:A:H61	2.01	0.73
85:AA:547:A:C5	85:AA:582:A:C2	2.77	0.73
33:AZ:78:ARG:HH12	33:AZ:99:ALA:HB2	1.52	0.73
35:BB:1465:U:H3’	35:BB:1466:A:C8	2.24	0.73
34:BA:152:C:H42	34:BA:327:G:H3’	1.53	0.73
35:BB:1220:A:H3’	35:BB:1220:A:C8	2.23	0.73
35:BB:776:U:H3’	35:BB:777:C:C6	2.23	0.73
41:BH:112:U:H2’	41:BH:113:G:C8	2.23	0.73
35:BB:1493:A:C2	35:BB:1494:G:C4	2.76	0.73
34:BA:1287:G:H2’	34:BA:1288:U:C6	2.24	0.73
85:AA:520:A:H4’	85:AA:521:A:H3’	1.70	0.73
35:BB:93:A:C5	35:BB:94:A:C5	2.77	0.73
37:BD:9:C:H3’	37:BD:10:C:C6	2.24	0.73
38:BE:31:A:H2’	38:BE:32:U:C2	2.24	0.73
41:BH:3:U:H3’	41:BH:4:U:C5	2.24	0.73
34:BA:1211:G:H5”	34:BA:1211:G:H8	1.53	0.73
34:BA:1244:G:C5	35:BB:640:A:C2	2.77	0.73
35:BB:1498:G:N2	35:BB:1507:U:H3	1.86	0.73
34:BA:1426:A:OP2	34:BA:1426:A:C8	2.41	0.73
13:AE:125:VAL:HG22	13:AE:155:VAL:HG23	1.70	0.73
56:BW:57:GLY:H	56:BW:80:ILE:HG23	1.53	0.73
34:BA:1418:G:C6	34:BA:1419:A:C6	2.77	0.73
85:AA:136:U:H4’	85:AA:137:C:C5	2.24	0.73
35:BB:1019:C:C4	35:BB:1020:U:C4	2.77	0.73
34:BA:874:G:C2’	34:BA:875:G:H8	2.02	0.72
35:BB:1030:U:H3’	35:BB:1031:G:H5”	1.70	0.72
36:BC:104:A:H4’	36:BC:105:C:C5	2.24	0.72
36:BC:123:G:H22	36:BC:140:U:H3	1.33	0.72
39:BF:30:C:C2	49:BP:2:VAL:HG11	2.24	0.72
34:BA:203:U:H2’	34:BA:204:U:C6	2.24	0.72
85:AA:1157:U:H3’	85:AA:1158:U:H5”	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:89:THR:H	1:A0:103:HIS:CE1	2.07	0.72
34:BA:1735:G:H2'	34:BA:1736:A:C8	2.24	0.72
85:AA:197:C:H42	85:AA:209:C:C5'	2.02	0.72
18:AJ:26:LEU:HD11	18:AJ:60:LYS:HB3	1.71	0.72
34:BA:235:C:H2'	34:BA:236:A:C8	2.24	0.72
34:BA:89:G:H3'	34:BA:91:C:C6	2.25	0.72
35:BB:481:A:C2	35:BB:482:A:C2	2.77	0.72
38:BE:124:G:C5	38:BE:125:C:C5	2.78	0.72
34:BA:685:C:C4	34:BA:1487:U:H5'	2.24	0.72
34:BA:1333:G:C2	34:BA:1409:A:C2	2.77	0.72
85:AA:519:A:H2'	85:AA:521:A:C8	2.23	0.72
35:BB:1351:G:H2'	35:BB:1352:C:C6	2.25	0.72
34:BA:209:A:H61	34:BA:223:U:H3	1.37	0.72
34:BA:743:A:C8	47:BN:7:ALA:HA	2.23	0.72
41:BH:31:A:C2	41:BH:32:U:C5	2.77	0.72
51:BR:26:TYR:OH	51:BR:119:VAL:HG12	1.89	0.72
58:BY:80:VAL:O	85:AA:2162:G:O3'	2.06	0.72
34:BA:544:U:C4	34:BA:545:U:C5	2.76	0.72
34:BA:549:G:O3'	52:BS:148:ASN:HB2	1.90	0.72
34:BA:262:A:C2	34:BA:280:A:C6	2.77	0.72
85:AA:559:G:C6	85:AA:569:A:C2	2.76	0.72
85:AA:714:U:H2'	85:AA:715:G:H5'	1.71	0.72
85:AA:787:U:C5	85:AA:788:G:C6	2.76	0.72
40:BG:136:G:C2	40:BG:137:G:H1'	2.24	0.72
34:BA:1297:G:C2	34:BA:1298:U:C5	2.78	0.72
58:BY:82:ALA:CB	85:AA:2159:C:C4	2.72	0.72
85:AA:160:A:C6	85:AA:161:A:C4	2.77	0.72
85:AA:33:U:C5	85:AA:538:A:C5	2.78	0.72
5:A4:6:HIS:CD2	53:BT:191:ASP:O	2.42	0.72
34:BA:605:G:C6	34:BA:606:G:C5	2.78	0.72
85:AA:278:C:H2'	85:AA:279:C:C6	2.25	0.72
34:BA:1484:A:C2	34:BA:1502:G:C4	2.77	0.72
34:BA:15:G:C2	36:BC:153:C:C2	2.78	0.72
36:BC:18:G:C6	36:BC:19:A:C6	2.78	0.72
38:BE:89:G:H1'	38:BE:134:A:C6	2.24	0.72
6:A5:123:ALA:CA	41:BH:91:G:O6	2.37	0.72
39:BF:18:U:H5	45:BL:141:ARG:HH22	142.32	0.72
35:BB:817:C:C5	35:BB:818:U:C5	2.78	0.72
5:A4:69:PRO:O	5:A4:73:ILE:HG23	1.88	0.72
85:AA:1115:G:H1'	85:AA:1214:C:C5	2.25	0.72
34:BA:674:G:H3'	34:BA:675:C:C6	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:268:A:H3'	85:AA:269:G:H5'	1.70	0.72
85:AA:1260:G:H2'	85:AA:1261:U:C5	2.25	0.72
85:AA:65:A:H3'	85:AA:66:U:C6	2.24	0.72
36:BC:92:C:C4	36:BC:93:C:C4	2.78	0.72
41:BH:30:C:C4	41:BH:31:A:C6	2.78	0.72
85:AA:2127:G:C2	85:AA:2128:G:C4	2.78	0.72
34:BA:603:U:C2	34:BA:680:C:H2'	2.24	0.72
23:AP:238:ASP:OD2	25:AR:6:THR:HG21	1.90	0.72
58:BY:79:THR:OG1	85:AA:2163:G:H5"	1.90	0.72
35:BB:991:C:H3'	35:BB:992:C:C4	2.25	0.72
41:BH:32:U:C5	41:BH:33:G:C5	2.77	0.72
85:AA:2121:G:H1	85:AA:2197:A:H61	1.37	0.72
85:AA:480:U:H3'	85:AA:482:C:C5	2.24	0.72
53:BT:170:ARG:H	85:AA:957:A:H61	1.35	0.72
4:A3:118:LYS:CE	58:BY:80:VAL:CG1	2.67	0.72
36:BC:119:G:H2'	36:BC:120:G:C8	2.24	0.72
41:BH:31:A:C2	41:BH:125:U:C2	2.77	0.72
35:BB:804:U:C5	35:BB:805:G:C8	2.77	0.72
35:BB:665:A:C6	35:BB:666:A:C5	2.78	0.72
85:AA:15:U:H3	85:AA:1516:A:H61	1.37	0.72
34:BA:623:U:H4'	54:BU:137:PHE:CE2	2.25	0.72
35:BB:434:A:H2'	35:BB:435:A:C8	2.24	0.72
35:BB:1208:G:C4	35:BB:1253:U:C6	2.78	0.72
34:BA:126:G:C5	34:BA:127:U:C5	2.78	0.72
34:BA:1533:G:C6	34:BA:1534:U:C4	2.78	0.72
35:BB:1086:G:C6	35:BB:1087:A:C5	2.77	0.72
36:BC:161:U:C4	36:BC:162:C:C5	2.78	0.72
40:BG:169:A:H3'	40:BG:173:C:C5	2.25	0.72
85:AA:270:A:C2	85:AA:271:A:C5	2.77	0.72
34:BA:113:G:H3'	34:BA:113:G:C8	2.25	0.71
36:BC:125:A:C6	36:BC:126:G:C6	2.78	0.71
34:BA:481:A:C2	36:BC:8:C:N3	2.58	0.71
35:BB:798:A:N7	35:BB:976:U:H3'	2.04	0.71
27:AT:10:VAL:HG21	27:AT:37:TRP:CD2	2.24	0.71
85:AA:2053:A:H2'	85:AA:2054:G:H5'	1.72	0.71
34:BA:339:G:H2'	34:BA:340:U:C6	2.25	0.71
34:BA:960:C:H2'	34:BA:961:C:C5	2.25	0.71
36:BC:149:A:C2	36:BC:150:U:C2	2.78	0.71
38:BE:159:A:C2	38:BE:161:G:H1'	2.25	0.71
39:BF:24:G:C5	48:BO:187:HIS:CG	2.78	0.71
85:AA:43:A:C5	85:AA:443:A:C2	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:617:G:C6	34:BA:618:G:C6	2.78	0.71
85:AA:194:U:H2'	85:AA:195:C:C6	2.24	0.71
34:BA:1263:A:C5	34:BA:1264:U:C5	2.78	0.71
49:BP:136:PRO:HB2	49:BP:140:HIS:HB3	1.71	0.71
34:BA:156:U:C4	34:BA:166:G:H4'	2.24	0.71
35:BB:837:A:C5'	35:BB:1026:G:C5	2.72	0.71
52:BS:131:ILE:CG2	52:BS:136:VAL:H	2.02	0.71
85:AA:381:A:N1	85:AA:416:U:C4	2.58	0.71
34:BA:1095:G:C6	34:BA:1096:C:C5	2.78	0.71
34:BA:301:U:H3'	34:BA:303:C:H1'	1.72	0.71
34:BA:758:G:H8	34:BA:759:A:C8	2.08	0.71
34:BA:804:G:H3'	34:BA:805:A:C8	2.24	0.71
35:BB:1130:U:H2'	35:BB:1131:C:C6	2.25	0.71
38:BE:192:A:H2'	38:BE:193:A:C8	2.24	0.71
34:BA:740:A:H5'	47:BN:12:HIS:CE1	2.25	0.71
34:BA:678:C:C5	34:BA:679:U:C4	2.78	0.71
85:AA:197:C:H42	85:AA:209:C:H5"	1.55	0.71
4:A3:177:PRO:HA	85:AA:65:A:C4	2.26	0.71
47:BN:80:PHE:CZ	47:BN:121:LEU:HD21	2.25	0.71
34:BA:862:C:N3	34:BA:874:G:C2	2.33	0.71
35:BB:57:G:C6	35:BB:58:G:C4	2.78	0.71
35:BB:60:A:H4'	35:BB:61:A:H5"	1.72	0.71
35:BB:879:G:H2'	35:BB:880:G:C8	2.25	0.71
85:AA:2182:A:H3'	85:AA:2183:U:C6	2.25	0.71
85:AA:464:A:C5	85:AA:466:A:C8	2.79	0.71
35:BB:1166:A:H3'	35:BB:1167:C:H4'	1.71	0.71
34:BA:1343:A:C2	40:BG:144:G:C5	2.78	0.71
19:AK:128:ARG:HB2	19:AK:128:ARG:HH11	1.55	0.71
11:AC:229:VAL:HG22	11:AC:231:TRP:H	1.55	0.71
85:AA:337:C:H2'	85:AA:338:G:H5'	1.72	0.71
34:BA:412:G:C4	34:BA:418:G:C5	2.79	0.71
34:BA:72:U:H2'	34:BA:73:G:C5	2.26	0.71
35:BB:484:G:C5	35:BB:485:U:C5	2.78	0.71
36:BC:9:G:C5	36:BC:10:C:C6	2.77	0.71
38:BE:101:C:H2'	38:BE:117:A:N6	2.06	0.71
40:BG:28:A:H2'	40:BG:29:U:C6	2.25	0.71
85:AA:454:G:H2'	85:AA:455:G:C8	2.26	0.71
85:AA:985:G:C5	85:AA:986:U:C4	2.78	0.71
85:AA:1150:G:C6	85:AA:1151:G:C6	2.78	0.71
27:AT:61:GLN:HA	27:AT:89:MET:SD	2.30	0.71
35:BB:1415:G:C6	35:BB:1416:A:C5	2.79	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1293:A:C5	34:BA:1295:U:C4	2.79	0.71
34:BA:607:C:C6	34:BA:674:G:H4'	2.26	0.71
35:BB:1404:A:H1'	35:BB:1439:U:C4	2.25	0.71
34:BA:573:U:H4'	34:BA:1448:G:C5'	2.20	0.71
34:BA:102:G:C2	34:BA:103:G:H1'	2.26	0.71
34:BA:1635:A:H2'	34:BA:1636:C:C5	2.26	0.71
34:BA:1687:A:C6	34:BA:1688:G:C6	2.79	0.71
34:BA:214:A:H3'	34:BA:215:C:C6	2.25	0.71
34:BA:758:G:C8	34:BA:759:A:C8	2.79	0.71
35:BB:99:G:C5	35:BB:100:A:C5	2.78	0.71
40:BG:4:A:C2	40:BG:5:G:C4	2.79	0.71
58:BY:54:ALA:HA	58:BY:59:TYR:CD2	2.25	0.71
34:BA:543:A:H2'	34:BA:544:U:H6	1.56	0.71
85:AA:638:G:C6	85:AA:652:U:H1'	2.26	0.71
35:BB:1524:G:C2	35:BB:1544:A:C2	2.78	0.71
85:AA:1839:G:H2'	85:AA:1840:C:C6	2.26	0.71
85:AA:1109:G:C5	85:AA:1110:A:C5	2.79	0.71
34:BA:248:G:C8	34:BA:437:G:C4	2.79	0.71
35:BB:878:G:H4'	35:BB:879:G:OP2	1.90	0.71
36:BC:18:G:C5	36:BC:19:A:C5	2.79	0.71
85:AA:2208:G:H5"	85:AA:2208:G:C8	2.26	0.71
85:AA:1195:U:H2'	85:AA:1196:C:C6	2.26	0.71
85:AA:2150:G:C2	85:AA:2169:C:C2	2.79	0.71
85:AA:555:C:H2'	85:AA:556:C:C6	2.25	0.71
34:BA:1131:G:C5	34:BA:1133:A:H1'	2.25	0.71
34:BA:712:C:H2'	34:BA:713:C:C6	2.26	0.71
34:BA:850:C:H2'	34:BA:851:C:C6	2.26	0.70
38:BE:154:A:C2	38:BE:155:C:H2'	2.26	0.70
85:AA:2132:A:C2	85:AA:2133:A:C4	2.79	0.70
34:BA:262:A:H2	34:BA:279:U:C5	2.09	0.70
35:BB:665:A:C4	35:BB:666:A:C8	2.79	0.70
11:AC:55:LEU:HA	11:AC:60:HIS:CD2	2.26	0.70
34:BA:1346:U:H3	34:BA:1399:A:H61	1.39	0.70
34:BA:874:G:H2'	34:BA:875:G:H8	1.55	0.70
35:BB:101:U:H2'	35:BB:102:G:C8	2.26	0.70
38:BE:115:U:H2'	38:BE:116:U:C6	2.26	0.70
38:BE:60:C:H2'	38:BE:61:A:C8	2.26	0.70
35:BB:815:G:C2	35:BB:825:U:C2	2.80	0.70
35:BB:1002:G:C2	35:BB:1017:U:C2	2.78	0.70
21:AM:99:LEU:HB3	21:AM:104:VAL:HG22	1.72	0.70
34:BA:1083:A:C8	34:BA:1168:C:H2'	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1214:U:H2'	35:BB:1215:U:C6	2.26	0.70
38:BE:13:A:C8	38:BE:13:A:H5"	2.26	0.70
38:BE:149:A:H2	38:BE:164:C:C2	2.10	0.70
34:BA:947:A:C5	34:BA:948:C:H1'	2.25	0.70
35:BB:1274:G:C4	35:BB:1327:U:C5	2.79	0.70
19:AK:130:CYS:SG	85:AA:2074:G:C8	2.83	0.70
85:AA:811:A:C2	85:AA:867:G:C6	2.78	0.70
35:BB:730:G:H21	35:BB:760:C:H41	1.37	0.70
34:BA:1040:G:C6	34:BA:1041:U:C2	2.79	0.70
58:BY:81:ARG:CG	85:AA:2162:G:C5'	2.68	0.70
35:BB:526:A:C6	85:AA:2113:U:H5'	2.11	0.70
35:BB:797:C:C5	35:BB:978:C:C5	2.79	0.70
4:A3:75:SER:CB	58:BY:27:LEU:HD22	2.19	0.70
15:AG:77:HIS:CE1	15:AG:78:LYS:HZ2	2.09	0.70
34:BA:678:C:C4	34:BA:679:U:C4	2.79	0.70
85:AA:988:C:H3'	85:AA:989:U:H2'	1.72	0.70
85:AA:170:C:H2'	85:AA:171:U:C5	2.25	0.70
34:BA:1001:G:C5	34:BA:1002:U:C5	2.79	0.70
34:BA:1732:A:C2	34:BA:1733:G:C4	2.80	0.70
34:BA:749:G:H1	34:BA:887:U:H3	1.40	0.70
35:BB:4:C:C2	38:BE:13:A:H1'	2.27	0.70
85:AA:466:A:C6	85:AA:469:G:N7	2.60	0.70
35:BB:554:C:C5	35:BB:565:U:C6	2.80	0.70
34:BA:1113:A:C2	34:BA:1114:G:C4	2.79	0.70
34:BA:874:G:H2'	34:BA:875:G:C8	2.26	0.70
35:BB:1144:A:C6	35:BB:1145:G:C6	2.79	0.70
35:BB:131:A:C5	35:BB:132:G:C5	2.80	0.70
40:BG:65:C:H2'	40:BG:66:C:C6	2.27	0.70
20:AL:90:HIS:N	20:AL:90:HIS:CD2	2.60	0.70
85:AA:1985:C:C6	85:AA:1985:C:H5"	2.27	0.70
35:BB:673:C:H1'	35:BB:1277:A:C6	2.27	0.70
85:AA:1293:U:C4	85:AA:1294:U:C5	2.79	0.70
34:BA:1172:C:H2'	34:BA:1173:C:C6	2.27	0.70
34:BA:1481:U:H3'	34:BA:1482:A:H5'	1.74	0.70
34:BA:1747:C:H2'	34:BA:1748:G:C8	2.26	0.70
34:BA:207:A:H5"	34:BA:209:A:C8	2.27	0.70
34:BA:365:A:C6	34:BA:377:G:C6	2.79	0.70
35:BB:16:G:C5	35:BB:17:U:C4	2.79	0.70
40:BG:72:G:C6	40:BG:73:U:C4	2.80	0.70
5:A4:104:ILE:CG2	5:A4:105:THR:H	2.04	0.70
85:AA:1959:G:H2'	85:AA:1960:C:H5"	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:665:A:C6	35:BB:1404:A:C5	2.80	0.70
85:AA:2081:A:C5	85:AA:2082:C:C5	2.80	0.70
85:AA:1242:A:C2	85:AA:1243:G:H1'	2.26	0.70
34:BA:1597:G:C2	35:BB:622:G:C5	2.78	0.70
34:BA:1706:A:C2	34:BA:1800:G:H1'	2.26	0.70
34:BA:239:C:C5	34:BA:240:C:C5	2.79	0.70
34:BA:702:G:C6	34:BA:703:U:C4	2.80	0.70
34:BA:768:G:C2	34:BA:769:U:C5	2.80	0.70
40:BG:81:G:C5	40:BG:82:U:C4	2.80	0.70
85:AA:2138:G:C6	85:AA:2139:G:C6	2.79	0.70
85:AA:1434:U:C4	85:AA:1438:C:H5'	2.27	0.70
34:BA:213:A:C2	34:BA:217:C:C2	2.80	0.70
34:BA:172:A:C6	34:BA:316:G:C5	2.78	0.70
34:BA:802:G:C6	34:BA:803:U:C4	2.80	0.70
34:BA:1846:G:H1'	35:BB:5:A:C2	2.26	0.70
34:BA:487:A:C6	35:BB:651:G:C5	2.80	0.70
36:BC:25:C:H2'	36:BC:26:U:C5	2.26	0.70
58:BY:79:THR:HG21	85:AA:2163:G:C3'	2.21	0.70
4:A3:118:LYS:NZ	58:BY:80:VAL:O	2.23	0.70
34:BA:547:C:C3'	34:BA:547:C:H4'	2.16	0.70
34:BA:616:G:H2'	34:BA:617:G:C1'	2.21	0.70
85:AA:1650:G:H2'	85:AA:1869:U:C5	2.26	0.70
17:AI:133:VAL:HG11	85:AA:1897:A:C2	2.27	0.70
85:AA:1916:A:C2	85:AA:1996:A:N1	2.60	0.70
85:AA:1462:A:H2'	85:AA:1463:A:C8	2.26	0.70
34:BA:925:G:C5	34:BA:999:G:C6	2.80	0.70
86:AB:56:C:H3'	86:AB:57:G:H5"	1.72	0.70
39:BF:37:C:H2'	39:BF:38:C:C6	2.27	0.70
39:BF:51:C:C2	39:BF:52:A:C8	2.80	0.70
85:AA:1034:U:H2'	85:AA:1035:C:H3'	1.74	0.70
34:BA:185:A:C4	34:BA:304:G:C6	2.80	0.70
34:BA:346:A:H4'	34:BA:347:A:C2	2.27	0.70
34:BA:705:C:H2'	34:BA:706:C:C6	2.26	0.70
34:BA:756:A:H5"	34:BA:757:G:C6	2.27	0.70
35:BB:1209:A:C4	35:BB:1210:U:C5	2.80	0.70
35:BB:1226:G:C5	47:BN:192:LYS:HE2	2.27	0.70
35:BB:1292:G:C6	35:BB:1293:C:C4	2.80	0.70
36:BC:166:G:H2'	36:BC:167:U:C6	2.27	0.70
37:BD:47:U:C4	37:BD:48:G:N7	2.60	0.70
40:BG:164:U:H6	40:BG:164:U:O5'	1.74	0.70
40:BG:181:C:C4	40:BG:182:G:C6	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:97:G:C4	40:BG:98:A:C8	2.80	0.70
34:BA:1095:G:C5	34:BA:1163:G:C6	2.80	0.70
85:AA:1016:G:H4'	85:AA:1056:C:C4	2.26	0.70
34:BA:1555:G:H2'	34:BA:1556:A:C8	2.26	0.69
34:BA:1719:G:C5	34:BA:1720:U:C5	2.80	0.69
34:BA:358:A:H2'	34:BA:360:C:C5	2.26	0.69
34:BA:367:G:C6	50:BQ:196:HIS:CD2	2.80	0.69
34:BA:705:C:H2'	34:BA:706:C:C5	2.27	0.69
36:BC:106:G:C2	36:BC:115:G:C4	2.80	0.69
58:BY:81:ARG:HG2	85:AA:2162:G:P	2.32	0.69
34:BA:556:A:C8	34:BA:557:U:C5	2.79	0.69
85:AA:342:C:C4	85:AA:348:G:C6	2.80	0.69
85:AA:1811:C:H3'	85:AA:1812:C:C4'	2.22	0.69
35:BB:1423:U:C4	35:BB:1424:G:C5	2.80	0.69
34:BA:1690:U:H5'	57:BX:135:LEU:HD13	1.75	0.69
34:BA:481:A:C2	36:BC:7:U:C2	2.79	0.69
34:BA:827:A:C2	34:BA:828:A:C4	2.80	0.69
36:BC:152:C:H2'	36:BC:153:C:C6	2.26	0.69
40:BG:31:G:C5	40:BG:175:G:C6	2.79	0.69
85:AA:159:G:C5	85:AA:164:G:C6	2.80	0.69
35:BB:841:U:H1'	35:BB:975:G:C2	2.27	0.69
85:AA:396:U:H3'	85:AA:397:G:C8	2.27	0.69
23:AP:239:LEU:HD12	25:AR:6:THR:HG22	1.73	0.69
51:BR:126:ARG:HA	51:BR:140:MET:SD	2.32	0.69
34:BA:1212:A:C2	34:BA:1213:A:C4	2.79	0.69
34:BA:374:U:C2	34:BA:375:C:C6	2.80	0.69
34:BA:932:G:C6	34:BA:933:U:C2	2.80	0.69
35:BB:134:G:C4	35:BB:135:C:C6	2.80	0.69
35:BB:620:G:C5	35:BB:621:C:C6	2.80	0.69
36:BC:149:A:C6	36:BC:150:U:C4	2.80	0.69
36:BC:24:G:C5	36:BC:25:C:C4	2.79	0.69
37:BD:106:G:C2	37:BD:107:G:C4	2.80	0.69
34:BA:545:U:C5	34:BA:546:U:C6	2.79	0.69
85:AA:665:A:H2'	85:AA:666:A:C8	2.27	0.69
15:AG:128:TYR:CD2	85:AA:1214:C:H4'	2.27	0.69
34:BA:726:G:C6	34:BA:727:G:C5	2.80	0.69
47:BN:80:PHE:HB3	47:BN:85:LEU:HD11	1.74	0.69
34:BA:533:U:H2'	34:BA:534:C:C5	2.27	0.69
4:A3:12:THR:HG21	4:A3:130:VAL:HG23	1.74	0.69
7:A6:132:HIS:CE1	7:A6:157:PHE:CE1	2.79	0.69
58:BY:81:ARG:N	85:AA:2163:G:H5'	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:888:G:C6	34:BA:889:U:C4	2.80	0.69
37:BD:98:G:C6	37:BD:99:G:C4	2.80	0.69
85:AA:362:G:C6	85:AA:363:A:C6	2.80	0.69
40:BG:137:G:C5	40:BG:138:C:C5	2.80	0.69
34:BA:1122:G:C6	34:BA:1123:G:C5	2.80	0.69
85:AA:1993:C:C4	85:AA:1994:G:C6	2.80	0.69
4:A3:118:LYS:HE3	58:BY:80:VAL:HG13	1.74	0.69
34:BA:1657:A:C5	34:BA:1658:G:C8	2.81	0.69
34:BA:320:G:C6	34:BA:321:G:C5	2.80	0.69
35:BB:707:G:C6	35:BB:708:C:C4	2.81	0.69
36:BC:105:C:C6	36:BC:149:A:C2	2.81	0.69
37:BD:32:A:C2	37:BD:41:G:C6	2.81	0.69
38:BE:105:A:H2'	38:BE:106:C:C6	2.27	0.69
38:BE:1:U:C4	38:BE:12:A:H1'	2.27	0.69
40:BG:1:G:C6	40:BG:2:U:H1'	2.27	0.69
85:AA:63:G:H4'	85:AA:335:G:H1'	1.74	0.69
85:AA:940:G:H4'	85:AA:941:C:C5	2.27	0.69
85:AA:2004:U:H3'	85:AA:2005:U:H4'	1.75	0.69
2:A1:126:VAL:O	85:AA:310:U:H4'	1.92	0.69
85:AA:911:A:C4	85:AA:912:C:C5	2.80	0.69
85:AA:625:G:C8	85:AA:656:U:C2	2.81	0.69
34:BA:1115:A:C2	34:BA:1144:A:C2	2.80	0.69
34:BA:1413:G:C6	34:BA:1414:C:C4	2.80	0.69
34:BA:741:A:N7	47:BN:10:HIS:CD2	2.60	0.69
34:BA:919:A:C6	34:BA:920:U:C4	2.81	0.69
85:AA:53:G:C2	85:AA:493:A:C2	2.81	0.69
35:BB:798:A:C6	35:BB:976:U:C4	2.81	0.69
35:BB:529:A:H1'	85:AA:2111:C:C4'	2.22	0.69
85:AA:938:A:C5	85:AA:939:A:C8	2.80	0.69
40:BG:149:U:H1'	40:BG:150:A:H5"	1.74	0.69
34:BA:596:G:H1'	34:BA:1494:G:C6	2.27	0.69
85:AA:786:G:C5	85:AA:787:U:C4	2.80	0.69
35:BB:1401:G:H3'	35:BB:1402:U:C6	2.28	0.69
39:BF:36:G:C6	39:BF:48:G:C6	2.81	0.69
85:AA:1726:G:H1'	85:AA:1817:U:C2	2.28	0.69
34:BA:1231:C:C2	34:BA:1232:C:C5	2.80	0.69
34:BA:1412:G:H21	52:BS:116:HIS:CE1	2.11	0.69
34:BA:1496:G:H5"	34:BA:1497:A:C8	2.28	0.69
34:BA:1617:U:C4	34:BA:1633:C:H2'	2.28	0.69
36:BC:125:A:C2	36:BC:139:A:C5	2.81	0.69
32:AY:60:GLN:HG3	85:AA:631:G:H4'	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:620:C:C4	34:BA:621:G:C5	2.81	0.69
35:BB:843:G:C2	35:BB:970:C:C2	2.81	0.69
85:AA:709:A:C5	85:AA:710:A:C2	2.80	0.69
34:BA:194:G:C8	34:BA:195:G:C8	2.81	0.69
7:A6:147:VAL:HG12	7:A6:148:ARG:H	1.58	0.69
85:AA:270:A:C2	85:AA:979:U:N3	2.59	0.69
35:BB:1465:U:C4	35:BB:1466:A:H1'	2.27	0.69
35:BB:1280:U:C4	35:BB:1281:G:C5	2.80	0.69
34:BA:1115:A:C2	34:BA:1116:G:C4	2.80	0.69
34:BA:1174:A:H61	34:BA:1197:U:H3	1.41	0.69
34:BA:1522:G:C4	34:BA:1523:U:C5	2.80	0.69
34:BA:938:C:H2'	34:BA:939:C:C5	2.28	0.69
35:BB:1358:A:C2	35:BB:1359:G:H1'	2.28	0.69
36:BC:119:G:C6	36:BC:120:G:C5	2.80	0.69
36:BC:117:A:C6	36:BC:147:G:C6	2.81	0.69
38:BE:130:G:H3'	38:BE:131:C:H6	1.57	0.69
38:BE:201:A:C5	38:BE:202:C:C4	2.80	0.69
47:BN:12:HIS:CE1	47:BN:13:GLN:HG3	2.27	0.69
34:BA:1013:A:C8	34:BA:1013:A:OP1	2.46	0.69
34:BA:856:G:C5	34:BA:857:C:C5	2.81	0.69
35:BB:1454:G:H2'	35:BB:1455:A:C8	2.27	0.69
34:BA:741:A:C8	47:BN:10:HIS:HD2	2.11	0.69
85:AA:2198:G:C2	85:AA:2199:G:H1'	2.27	0.69
35:BB:526:A:H61	85:AA:2112:G:C2'	2.05	0.69
32:AY:56:ARG:HE	32:AY:57:MET:H	1.38	0.69
15:AG:91:LEU:HD11	85:AA:1117:G:H4'	1.74	0.69
6:A5:110:ARG:HG3	6:A5:179:LEU:HD22	1.75	0.69
85:AA:940:G:H2'	85:AA:1108:U:C2	2.27	0.69
34:BA:1210:A:H2'	34:BA:1210:A:N3	2.08	0.69
41:BH:23:G:C4	41:BH:24:U:C2	2.81	0.69
85:AA:1521:U:H2'	85:AA:1522:U:C6	2.27	0.69
85:AA:1688:U:C2	85:AA:1692:U:C4	2.80	0.69
85:AA:287:G:C6	85:AA:288:G:C6	2.80	0.69
85:AA:577:U:C3'	85:AA:578:U:H5"	2.23	0.69
85:AA:794:A:H1'	85:AA:801:U:C2	2.28	0.69
34:BA:1133:A:C6	34:BA:1134:A:C6	2.81	0.69
85:AA:866:U:H2'	85:AA:867:G:H8	1.58	0.69
39:BF:53:G:H4'	39:BF:54:U:H6	1.58	0.69
85:AA:342:C:C5	85:AA:343:U:C4	2.81	0.69
85:AA:1244:A:C5	85:AA:1245:U:C5	2.81	0.69
85:AA:1362:A:H2'	85:AA:1363:U:C6	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1203:G:C5	34:BA:1204:U:C5	2.81	0.69
34:BA:126:G:C6	34:BA:127:U:C4	2.81	0.69
34:BA:18:G:H3'	34:BA:19:G:H8	1.58	0.69
35:BB:484:G:C6	35:BB:485:U:C4	2.81	0.69
40:BG:31:G:C4	40:BG:175:G:C2	2.81	0.69
34:BA:743:A:C8	47:BN:7:ALA:CB	2.75	0.69
85:AA:423:G:C2	85:AA:424:A:C4	2.81	0.69
34:BA:672:G:H2'	34:BA:673:U:C6	2.28	0.69
15:AG:123:HIS:HB2	34:BA:945:A:H2	1.55	0.69
85:AA:1139:G:H2'	85:AA:1140:G:C5'	2.21	0.69
85:AA:966:G:C2	85:AA:967:C:C2	2.81	0.69
85:AA:736:U:H3'	85:AA:736:U:C6	2.27	0.69
21:AM:40:ARG:HB3	21:AM:98:HIS:CE1	2.28	0.69
34:BA:45:A:C4	34:BA:47:U:C4	2.81	0.69
34:BA:911:G:C5	34:BA:912:G:C8	2.81	0.69
35:BB:701:U:C5	35:BB:1040:C:OP2	2.45	0.69
35:BB:1458:U:C2	39:BF:14:C:C5	2.81	0.69
36:BC:125:A:C6	36:BC:126:G:C5	2.81	0.69
35:BB:975:G:C2	35:BB:976:U:C5	2.81	0.69
85:AA:1792:C:C3'	85:AA:1793:A:H5'	2.23	0.69
34:BA:1533:G:C5	34:BA:1534:U:C5	2.81	0.68
34:BA:301:U:H5"	34:BA:302:A:H5'	1.75	0.68
34:BA:316:G:C6	34:BA:318:U:C6	2.82	0.68
34:BA:942:G:C2	34:BA:950:C:C2	2.81	0.68
35:BB:620:G:C5	35:BB:621:C:C5	2.81	0.68
36:BC:49:G:C5	36:BC:50:C:C4	2.82	0.68
37:BD:52:U:H2'	37:BD:53:U:C6	2.27	0.68
49:BP:122:TYR:N	49:BP:123:TRP:HD1	1.91	0.68
85:AA:356:U:C5	85:AA:357:C:C5	2.80	0.68
85:AA:2049:U:C2	85:AA:2081:A:C5	2.80	0.68
85:AA:743:C:H2'	85:AA:744:C:C6	2.29	0.68
3:A2:12:TRP:CD2	3:A2:94:PRO:HD2	2.27	0.68
34:BA:1174:A:C6	34:BA:1175:G:C6	2.81	0.68
34:BA:1327:G:C6	34:BA:1328:U:C4	2.82	0.68
35:BB:428:G:H2'	35:BB:429:C:C6	2.29	0.68
36:BC:73:U:C6	36:BC:74:U:H5	2.11	0.68
34:BA:539:C:H1'	34:BA:571:G:H1	1.58	0.68
35:BB:567:G:C6	35:BB:568:A:C5	2.81	0.68
35:BB:799:A:C5	35:BB:972:C:OP1	2.46	0.68
35:BB:362:A:H2	35:BB:364:U:C4	2.12	0.68
13:AE:41:HIS:CD2	85:AA:971:U:H5"	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1711:G:C4	34:BA:1719:G:C2	2.82	0.68
34:BA:232:U:C4	34:BA:233:U:C4	2.82	0.68
35:BB:1120:A:H5"	45:BL:102:ASN:HD22	1.58	0.68
35:BB:1342:C:H2'	35:BB:1343:C:C6	2.28	0.68
36:BC:152:C:H2'	36:BC:153:C:C5	2.29	0.68
85:AA:2184:A:C2	85:AA:2185:U:C2	2.81	0.68
31:AX:144:GLN:HE22	85:AA:653:A:H3'	1.58	0.68
85:AA:186:U:C6	85:AA:186:U:H3'	2.27	0.68
34:BA:523:A:C6	34:BA:524:G:C6	2.80	0.68
34:BA:895:U:H3'	47:BN:9:PRO:CB	2.23	0.68
86:AB:25:C:H2'	86:AB:26:A:C8	2.28	0.68
85:AA:2153:G:C2	85:AA:2166:G:C2	2.81	0.68
34:BA:338:U:H2'	34:BA:339:G:C8	2.29	0.68
35:BB:1340:U:H2'	35:BB:1341:U:C6	2.29	0.68
36:BC:39:G:H1'	36:BC:104:A:N1	2.07	0.68
36:BC:44:A:C2	36:BC:45:C:C2	2.81	0.68
37:BD:68:C:C2	37:BD:69:U:C6	2.82	0.68
34:BA:540:G:H22	34:BA:567:U:H3	1.40	0.68
85:AA:636:G:C5	85:AA:637:U:C4	2.80	0.68
85:AA:638:G:H4'	85:AA:640:C:C2	2.28	0.68
85:AA:942:A:OP1	85:AA:945:A:C8	2.47	0.68
34:BA:518:C:H2'	34:BA:684:G:H21	1.57	0.68
34:BA:229:C:H2'	34:BA:230:A:C8	2.27	0.68
34:BA:13:U:C2	36:BC:155:C:C2	2.82	0.68
34:BA:763:U:C5	34:BA:770:G:H1'	2.27	0.68
35:BB:1144:A:H2'	35:BB:1145:G:C8	2.27	0.68
37:BD:94:C:C2	37:BD:95:G:C5	2.82	0.68
38:BE:157:C:C5	38:BE:158:U:C2	2.82	0.68
38:BE:2:G:C8	38:BE:8:G:C2	2.81	0.68
40:BG:178:G:C6	40:BG:179:C:C4	2.82	0.68
41:BH:116:A:H3'	41:BH:117:U:H2'	1.74	0.68
41:BH:1:U:H3'	41:BH:2:U:H5'	1.76	0.68
34:BA:543:A:C2	34:BA:544:U:C6	2.81	0.68
34:BA:195:G:C2	34:BA:289:A:C2	2.82	0.68
85:AA:317:A:C5	85:AA:318:A:C5	2.81	0.68
85:AA:905:C:H4'	85:AA:908:C:C5	2.29	0.68
85:AA:402:G:C5	85:AA:404:A:C8	2.81	0.68
34:BA:1346:U:C2	34:BA:1400:A:C2	2.82	0.68
34:BA:1431:G:C4	34:BA:1432:C:C5	2.82	0.68
34:BA:124:G:C2	34:BA:141:G:C6	2.82	0.68
34:BA:160:G:H3'	34:BA:161:U:C5	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:35:G:H2'	35:BB:36:U:C6	2.29	0.68
36:BC:7:U:H2'	36:BC:8:C:C6	2.28	0.68
38:BE:141:A:N7	38:BE:144:A:C4	2.62	0.68
40:BG:157:A:C2	40:BG:159:A:C8	2.82	0.68
85:AA:477:U:H2'	85:AA:478:U:C6	2.27	0.68
34:BA:293:A:C6	34:BA:294:C:C4	2.82	0.68
34:BA:2:A:N1	36:BC:169:G:C6	2.61	0.68
85:AA:366:A:H2'	85:AA:367:A:C8	2.29	0.68
85:AA:1255:C:C5	85:AA:1256:C:C5	2.81	0.68
34:BA:1570:C:H2'	34:BA:1571:C:C6	2.29	0.68
34:BA:1699:A:C5	34:BA:1700:C:C6	2.81	0.68
34:BA:768:G:C5	34:BA:769:U:H5	2.12	0.68
35:BB:1292:G:C5	35:BB:1293:C:C5	2.82	0.68
34:BA:8:G:C2	36:BC:163:A:C2	2.81	0.68
38:BE:107:U:H2'	38:BE:108:U:C6	2.28	0.68
38:BE:89:G:C6	38:BE:90:G:C6	2.81	0.68
35:BB:1121:A:C4'	45:BL:112:GLY:HA3	2.23	0.68
85:AA:725:G:H1'	85:AA:777:U:H1'	1.76	0.68
54:BU:56:TYR:HB3	54:BU:57:TYR:CZ	2.28	0.68
5:A4:114:LEU:HD22	5:A4:114:LEU:H	1.59	0.68
34:BA:127:U:H2'	34:BA:128:C:C6	2.28	0.68
34:BA:1820:G:H2'	34:BA:1821:A:C8	2.28	0.68
34:BA:405:C:H2'	34:BA:406:G:C8	2.28	0.68
34:BA:800:G:C5	34:BA:801:U:C4	2.81	0.68
35:BB:1213:U:H2'	35:BB:1214:U:C6	2.29	0.68
35:BB:700:C:C4	35:BB:701:U:H5	2.11	0.68
36:BC:29:C:H2'	36:BC:30:U:C6	2.28	0.68
36:BC:5:U:H2'	36:BC:6:G:C8	2.28	0.68
38:BE:45:G:C6	38:BE:46:G:C5	2.82	0.68
40:BG:33:G:C2	40:BG:169:A:H5'	2.29	0.68
85:AA:135:C:C6	85:AA:137:C:H1'	2.29	0.68
34:BA:670:U:C5	34:BA:671:C:C5	2.81	0.68
35:BB:529:A:N3	85:AA:2111:C:H1'	2.08	0.68
34:BA:288:U:C4	34:BA:289:A:C4	2.81	0.68
34:BA:597:C:H2'	34:BA:598:G:C8	2.29	0.68
85:AA:271:A:C2	85:AA:978:U:C2	2.82	0.68
34:BA:1432:C:H4'	48:BO:36:ARG:HE	1.59	0.68
85:AA:1099:U:C4	85:AA:1100:U:C4	2.81	0.68
23:AP:43:TRP:CD2	23:AP:75:GLN:HB2	2.29	0.68
34:BA:124:G:C2	34:BA:125:G:C5	2.82	0.68
35:BB:1358:A:C4	35:BB:1359:G:C8	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:484:A:C2	36:BC:6:G:C4	2.82	0.68
38:BE:84:U:C5	38:BE:85:G:H1'	2.29	0.68
47:BN:12:HIS:H	47:BN:12:HIS:CD2	2.12	0.68
85:AA:1911:A:H1'	85:AA:1913:G:C8	2.29	0.68
35:BB:362:A:C5	35:BB:363:A:H1'	2.28	0.68
85:AA:2147:A:C4	85:AA:2148:C:C6	2.82	0.68
13:AE:41:HIS:CG	85:AA:971:U:H5"	2.28	0.68
34:BA:802:G:C5	34:BA:803:U:C5	2.81	0.68
35:BB:1102:U:C6	35:BB:1103:A:C6	2.82	0.68
35:BB:706:G:H1	35:BB:775:U:H3	1.41	0.68
40:BG:72:G:C2	40:BG:73:U:C2	2.82	0.68
34:BA:556:A:C5	34:BA:557:U:C6	2.82	0.68
34:BA:194:G:C5	34:BA:195:G:C6	2.82	0.68
34:BA:677:U:H1'	34:BA:678:C:C4	2.29	0.68
34:BA:680:C:H4'	34:BA:681:G:C8	2.29	0.68
85:AA:748:C:C2	85:AA:757:A:C2	2.81	0.68
35:BB:500:C:C6	35:BB:501:G:C8	2.82	0.68
34:BA:132:U:H2'	34:BA:133:A:C8	2.29	0.67
35:BB:1081:U:C5	35:BB:1082:A:C4	2.82	0.67
36:BC:91:G:C6	36:BC:92:C:C4	2.82	0.67
40:BG:173:C:H2'	40:BG:174:G:C8	2.29	0.67
35:BB:1127:A:C8	45:BL:64:PHE:CE2	2.82	0.67
34:BA:564:C:C5	34:BA:565:U:C6	2.82	0.67
35:BB:1161:G:C8	35:BB:1163:U:C4	2.83	0.67
85:AA:1105:G:H8	85:AA:1106:A:H3'	1.59	0.67
85:AA:938:A:C6	85:AA:939:A:C4	2.82	0.67
34:BA:719:G:H1	35:BB:1326:U:H5'	1.59	0.67
85:AA:1923:A:H4'	85:AA:1923:A:OP1	1.94	0.67
85:AA:80:G:HO2'	85:AA:81:A:H8	1.42	0.67
85:AA:749:C:C2	85:AA:756:G:C2	2.83	0.67
34:BA:527:C:H2'	34:BA:528:C:C6	2.29	0.67
22:AO:54:VAL:HG11	22:AO:69:TRP:CD2	2.29	0.67
85:AA:1445:C:H2'	85:AA:1446:U:C5	2.30	0.67
34:BA:1599:A:C5	34:BA:1600:G:H1'	2.30	0.67
34:BA:1663:U:C2	34:BA:1664:C:C5	2.81	0.67
34:BA:1682:A:H2'	34:BA:1683:C:C6	2.30	0.67
34:BA:1816:G:H3'	34:BA:1818:A:C8	2.29	0.67
35:BB:126:C:C2	35:BB:127:U:C5	2.83	0.67
35:BB:1464:G:C6	40:BG:24:A:C5'	2.77	0.67
38:BE:158:U:C4	38:BE:159:A:C6	2.82	0.67
40:BG:80:G:C6	40:BG:81:G:C6	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1227:A:C6	85:AA:1228:A:C4	2.81	0.67
85:AA:177:A:C2	85:AA:178:U:C2	2.81	0.67
15:AG:120:SER:OG	34:BA:945:A:N1	2.23	0.67
34:BA:1209:A:H2'	34:BA:1210:A:C8	2.30	0.67
85:AA:1985:C:H5'	85:AA:1986:G:C5'	2.24	0.67
34:BA:533:U:C5	34:BA:575:U:C4	2.82	0.67
34:BA:1014:A:C2	34:BA:1016:A:C8	2.82	0.67
34:BA:481:A:H2	36:BC:7:U:C2	2.13	0.67
35:BB:1210:U:C6	35:BB:1211:C:C5	2.82	0.67
36:BC:14:G:C5	36:BC:15:G:C5	2.82	0.67
36:BC:18:G:C4	36:BC:19:A:C8	2.83	0.67
85:AA:959:C:C5	85:AA:960:G:C4	2.82	0.67
85:AA:352:G:C2	85:AA:353:G:C5	2.83	0.67
34:BA:110:C:C6	34:BA:110:C:H3'	2.29	0.67
34:BA:1603:A:C4	34:BA:1604:A:C8	2.82	0.67
38:BE:43:A:C2	38:BE:44:C:C5	2.83	0.67
40:BG:77:U:C6	40:BG:78:C:C6	2.83	0.67
58:BY:80:VAL:CG2	85:AA:2162:G:O2'	2.43	0.67
85:AA:944:C:C5	85:AA:945:A:C4	2.82	0.67
34:BA:264:A:H3'	34:BA:265:A:C8	2.29	0.67
51:BR:82:ARG:HA	51:BR:83:TRP:CE3	2.30	0.67
85:AA:309:G:C5	85:AA:310:U:C4	2.83	0.67
85:AA:520:A:H5"	85:AA:521:A:H2'	1.77	0.67
86:AB:68:C:H2'	86:AB:69:G:C8	2.29	0.67
27:AT:25:ARG:NH2	27:AT:81:LEU:HD22	2.09	0.67
44:BK:150:GLU:HG2	44:BK:154:ARG:HH12	1.59	0.67
34:BA:1816:G:H2'	34:BA:1818:A:C8	2.29	0.67
34:BA:167:U:H3	34:BA:321:G:H1	1.41	0.67
34:BA:485:C:H4'	34:BA:705:C:H5'	1.76	0.67
34:BA:800:G:C2	34:BA:801:U:C2	2.82	0.67
37:BD:46:G:C6	37:BD:47:U:C4	2.83	0.67
58:BY:33:LEU:HD23	58:BY:34:THR:H	1.58	0.67
85:AA:103:U:H2'	85:AA:104:C:C6	2.30	0.67
85:AA:164:G:C6	85:AA:165:C:C5	2.82	0.67
35:BB:530:C:C5'	85:AA:2231:G:H2'	2.20	0.67
85:AA:930:G:H1'	85:AA:932:A:H62	1.59	0.67
34:BA:255:G:H3'	34:BA:256:A:H5'	1.75	0.67
85:AA:1009:G:H2'	85:AA:1010:U:C6	2.29	0.67
20:AL:28:PHE:CG	85:AA:1826:U:H6	2.12	0.67
85:AA:1830:U:H6	85:AA:1830:U:O5'	1.77	0.67
34:BA:1222:C:H2'	34:BA:1223:C:C6	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:162:G:C6	34:BA:321:G:C8	2.83	0.67
34:BA:890:G:C6	34:BA:891:C:C4	2.82	0.67
35:BB:1257:A:H5"	35:BB:1258:G:O5'	1.94	0.67
36:BC:145:G:C6	36:BC:146:U:C4	2.82	0.67
36:BC:44:A:H2'	36:BC:45:C:C6	2.30	0.67
36:BC:67:U:H2'	36:BC:68:A:C8	2.30	0.67
37:BD:86:A:C2	37:BD:87:G:C4	2.82	0.67
40:BG:127:G:C2	40:BG:163:G:C2	2.83	0.67
85:AA:63:G:C6	85:AA:85:U:C2	2.82	0.67
85:AA:1288:A:H1'	85:AA:1455:C:H1'	1.77	0.67
85:AA:868:A:H3'	85:AA:869:A:C8	2.30	0.67
34:BA:1040:G:C4	34:BA:1041:U:C6	2.82	0.67
34:BA:1702:G:H2'	34:BA:1703:A:N9	2.10	0.67
34:BA:991:U:H2'	34:BA:992:A:C8	2.29	0.67
35:BB:1053:G:H2'	35:BB:1053:G:N3	2.08	0.67
34:BA:1646:U:C5	34:BA:1647:G:C5	2.82	0.67
34:BA:301:U:H5"	34:BA:302:A:C5'	2.24	0.67
34:BA:165:C:C5	34:BA:322:U:N3	2.62	0.67
34:BA:57:A:C6	34:BA:58:A:C5	2.82	0.67
34:BA:65:A:C2	34:BA:66:C:H1'	2.29	0.67
35:BB:1223:A:H5'	35:BB:1227:G:C8	2.30	0.67
35:BB:1346:A:H2'	35:BB:1368:A:H61	1.59	0.67
40:BG:162:A:H2'	40:BG:163:G:C8	2.30	0.67
47:BN:6:ASN:HD22	47:BN:7:ALA:H	1.42	0.67
85:AA:147:G:C5	85:AA:177:A:C2	2.83	0.67
35:BB:817:C:N3	35:BB:818:U:H1'	2.09	0.67
85:AA:1105:G:C5	85:AA:1106:A:C5	2.83	0.67
85:AA:2003:C:C5	85:AA:2006:G:C5	2.82	0.67
34:BA:715:U:H2'	34:BA:716:C:C6	2.30	0.67
35:BB:1512:C:H3'	35:BB:1512:C:C6	2.30	0.67
85:AA:792:A:C6	85:AA:800:A:H2'	2.30	0.67
85:AA:894:A:C5	85:AA:899:A:H1'	2.30	0.67
85:AA:890:U:H2'	85:AA:917:A:C2	2.30	0.67
39:BF:34:C:H2'	39:BF:35:C:C6	2.30	0.67
34:BA:1434:U:H4'	48:BO:149:ARG:HH21	1.57	0.67
34:BA:1297:G:C2	34:BA:1298:U:H5	2.12	0.67
34:BA:1726:U:C4	34:BA:1728:G:C5	2.83	0.67
34:BA:501:U:C2'	34:BA:502:U:H5'	2.23	0.67
34:BA:897:U:H3'	47:BN:14:ARG:NH1	2.09	0.67
35:BB:85:A:C4	35:BB:603:U:C2	2.83	0.67
36:BC:26:U:H2'	36:BC:27:U:C6	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:128:U:C2	40:BG:163:G:C2	2.82	0.67
41:BH:73:A:N6	55:BV:60:ARG:HG3	2.10	0.67
85:AA:2204:A:C2	85:AA:2205:A:C4	2.83	0.67
34:BA:201:A:C6	34:BA:275:C:H1'	2.30	0.67
85:AA:1522:U:H3	85:AA:2100:A:H61	1.41	0.67
85:AA:2221:A:C6	85:AA:2244:G:C5	2.83	0.67
85:AA:419:A:C5	85:AA:420:C:C6	2.82	0.67
85:AA:1242:A:C2	85:AA:1261:U:H1'	2.30	0.67
85:AA:1846:G:H2'	85:AA:1847:U:C6	2.30	0.67
35:BB:460:C:C4	35:BB:461:U:C4	2.83	0.67
34:BA:1511:C:H2'	34:BA:1512:C:C6	2.30	0.67
34:BA:1539:A:C4	34:BA:1568:A:C6	2.83	0.67
34:BA:72:U:H2'	34:BA:73:G:C4	2.30	0.67
34:BA:805:A:N3	34:BA:807:U:H1'	2.10	0.67
35:BB:1147:G:H2'	35:BB:1148:U:C6	2.29	0.67
35:BB:1291:G:C6	35:BB:1314:G:C6	2.83	0.67
35:BB:1336:G:H2'	35:BB:1337:C:C6	2.30	0.67
35:BB:62:C:C2	35:BB:63:A:C2	2.82	0.67
35:BB:844:G:C5	35:BB:845:C:C5	2.83	0.67
35:BB:867:C:C4	35:BB:868:C:C4	2.83	0.67
85:AA:559:G:C5	85:AA:569:A:C2	2.83	0.67
85:AA:1955:U:C5	85:AA:1956:C:C5	2.82	0.67
34:BA:1637:G:C5	34:BA:1638:U:C4	2.83	0.67
34:BA:1825:U:H6	34:BA:1825:U:C5'	2.08	0.67
34:BA:1097:G:C4	35:BB:1084:A:C2	2.83	0.67
35:BB:1153:G:C5	35:BB:1154:C:C5	2.82	0.67
35:BB:99:G:C6	35:BB:100:A:C6	2.83	0.67
36:BC:9:G:C6	36:BC:10:C:C4	2.82	0.67
38:BE:165:U:H3'	38:BE:166:G:C8	2.30	0.67
34:BA:1113:A:C2	44:BK:196:HIS:CE1	2.83	0.67
34:BA:743:A:C4	47:BN:7:ALA:N	2.63	0.67
85:AA:335:G:C6	85:AA:355:G:C4	2.83	0.67
15:AG:77:HIS:CE1	15:AG:78:LYS:NZ	2.62	0.67
34:BA:1697:U:H6	34:BA:1697:U:OP2	1.78	0.67
85:AA:1292:A:H8	85:AA:1292:A:H5"	1.59	0.67
35:BB:1004:A:C2	35:BB:1005:A:C4	2.83	0.67
34:BA:204:U:H2'	34:BA:205:G:C8	2.30	0.67
85:AA:342:C:C6	85:AA:343:U:C5	2.83	0.67
85:AA:348:G:C6	85:AA:349:C:C4	2.82	0.67
35:BB:875:G:C2	35:BB:960:C:C2	2.83	0.67
49:BP:99:LYS:HA	49:BP:102:PHE:CD2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:116:G:C8	85:AA:117:C:C5	2.83	0.67
27:AT:101:LEU:HD22	27:AT:103:MET:SD	2.35	0.67
34:BA:1198:U:C5	34:BA:1201:G:H4'	2.30	0.66
34:BA:1412:G:N2	52:BS:116:HIS:CE1	2.63	0.66
34:BA:1699:A:H3'	34:BA:1699:A:C8	2.28	0.66
34:BA:321:G:C6	34:BA:322:U:C4	2.83	0.66
34:BA:955:G:C6	34:BA:956:G:C6	2.83	0.66
35:BB:108:G:C5	35:BB:109:U:C4	2.83	0.66
35:BB:376:A:C2	35:BB:377:A:C4	2.83	0.66
36:BC:97:U:C6	36:BC:98:C:N3	2.63	0.66
85:AA:55:A:C5	85:AA:468:A:C2	2.84	0.66
85:AA:9:U:C2	85:AA:11:A:H5"	2.30	0.66
34:BA:1287:G:C6	34:BA:1288:U:C4	2.83	0.66
85:AA:378:A:C2	85:AA:380:C:C2	2.83	0.66
85:AA:68:A:C6	85:AA:69:C:C2	2.83	0.66
23:AP:64:ILE:HG23	23:AP:69:MET:HB2	1.78	0.66
34:BA:1418:G:C5	34:BA:1419:A:C5	2.84	0.66
34:BA:1547:G:C5	34:BA:1562:G:C6	2.83	0.66
35:BB:1210:U:C5	35:BB:1211:C:C4	2.84	0.66
35:BB:35:G:C5	35:BB:36:U:C4	2.83	0.66
41:BH:97:C:O2'	55:BV:64:LEU:O	2.11	0.66
34:BA:539:C:H2'	34:BA:540:G:C8	2.30	0.66
34:BA:561:U:O2	34:BA:562:C:N1	2.28	0.66
85:AA:1281:G:H2'	85:AA:1282:A:C8	2.31	0.66
85:AA:355:G:C6	85:AA:356:U:C4	2.84	0.66
35:BB:823:G:C2	35:BB:824:C:H1'	2.30	0.66
85:AA:937:G:H5"	85:AA:938:A:N7	2.10	0.66
34:BA:194:G:C6	34:BA:195:G:O6	2.48	0.66
85:AA:1665:G:C5	85:AA:1705:G:C2	2.82	0.66
85:AA:551:C:C4	85:AA:552:C:C4	2.83	0.66
85:AA:2076:C:H2'	85:AA:2077:G:C8	2.30	0.66
85:AA:438:G:C6	85:AA:439:U:C5	2.83	0.66
35:BB:1418:C:H2'	35:BB:1419:G:C8	2.30	0.66
86:AB:32:U:C5	86:AB:33:U:C4	2.84	0.66
34:BA:508:C:H4'	34:BA:511:U:O2	1.95	0.66
85:AA:202:U:C6	85:AA:203:C:H3'	2.30	0.66
85:AA:854:A:H5'	85:AA:855:G:O4'	1.94	0.66
6:A5:130:THR:CB	6:A5:158:LEU:HD22	2.26	0.66
34:BA:1744:C:O2	34:BA:1781:A:C2	2.49	0.66
36:BC:125:A:C2	36:BC:139:A:C6	2.82	0.66
45:BL:53:VAL:HG22	45:BL:75:HIS:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:330:C:C5'	85:AA:331:G:C8	2.79	0.66
85:AA:879:G:C2	85:AA:880:A:C4	2.83	0.66
28:AU:32:LYS:HB3	85:AA:2039:G:C5	2.31	0.66
34:BA:266:G:C6	34:BA:277:A:C5	2.83	0.66
35:BB:639:A:H5"	35:BB:640:A:H5"	1.78	0.66
41:BH:13:C:C5	41:BH:14:C:C2	2.83	0.66
85:AA:1450:U:H3'	85:AA:1451:U:C6	2.31	0.66
85:AA:270:A:C2	85:AA:271:A:C4	2.83	0.66
23:AP:70:PRO:HB3	25:AR:34:HIS:CE1	2.31	0.66
7:A6:175:LYS:HD3	7:A6:178:ALA:HB3	1.76	0.66
34:BA:146:G:C5	34:BA:147:U:C6	2.84	0.66
34:BA:703:U:H5'	34:BA:1548:A:C2	2.30	0.66
34:BA:1780:U:H2'	34:BA:1781:A:C8	2.31	0.66
34:BA:214:A:H3'	34:BA:215:C:C5	2.30	0.66
34:BA:790:G:C2	34:BA:794:G:C5	2.84	0.66
34:BA:1845:G:N2	35:BB:5:A:C2	2.63	0.66
40:BG:159:A:H2'	40:BG:160:C:C6	2.30	0.66
34:BA:742:C:N3	47:BN:10:HIS:CG	2.63	0.66
2:A1:23:VAL:HG13	2:A1:24:PHE:H	1.59	0.66
85:AA:443:A:H2'	85:AA:444:U:C6	2.30	0.66
85:AA:680:U:C2	85:AA:682:C:C5	2.84	0.66
6:A5:183:ARG:CG	41:BH:93:G:O5'	2.43	0.66
85:AA:1194:U:C2	85:AA:1195:U:C6	2.83	0.66
85:AA:1559:U:H2'	85:AA:1560:A:H3'	1.76	0.66
34:BA:1495:A:H2'	34:BA:1498:A:C8	2.31	0.66
34:BA:2:A:C2	36:BC:169:G:C2	2.83	0.66
85:AA:826:C:H5'	85:AA:856:G:C2	2.30	0.66
35:BB:1385:C:H2'	35:BB:1386:C:C6	2.30	0.66
34:BA:1151:A:H2'	34:BA:1152:A:C8	2.31	0.66
54:BU:132:THR:HG23	54:BU:133:ARG:H	1.59	0.66
4:A3:227:LYS:O	4:A3:231:HIS:CD2	2.48	0.66
34:BA:1101:A:C5	34:BA:1102:A:C8	2.84	0.66
34:BA:1305:A:C5	34:BA:1310:C:H1'	2.31	0.66
34:BA:1481:U:H3'	34:BA:1482:A:C5'	2.25	0.66
34:BA:1560:U:H2'	34:BA:1561:C:C6	2.30	0.66
34:BA:161:U:C2	34:BA:165:C:C4	2.83	0.66
34:BA:1825:U:C6	34:BA:1825:U:C5'	2.79	0.66
34:BA:331:G:C6	34:BA:356:C:C5	2.83	0.66
34:BA:62:A:N9	34:BA:74:A:H1'	2.11	0.66
34:BA:955:G:C5	34:BA:956:G:C5	2.83	0.66
35:BB:1224:C:C4	35:BB:1227:G:C2	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1298:C:H3'	35:BB:1299:G:H8	1.60	0.66
34:BA:18:G:C6	36:BC:37:U:C5	2.84	0.66
37:BD:23:A:H2'	37:BD:24:U:C6	2.30	0.66
38:BE:101:C:C5	38:BE:117:A:C5	2.84	0.66
40:BG:74:G:C5	40:BG:75:C:C5	2.84	0.66
35:BB:846:A:C2	35:BB:967:G:C4	2.83	0.66
85:AA:1197:U:C4	85:AA:1198:U:C5	2.84	0.66
85:AA:2062:U:C6	85:AA:2062:U:H5'	2.31	0.66
85:AA:1720:C:C4	85:AA:1821:C:N3	2.64	0.66
85:AA:340:G:C6	85:AA:350:U:C4	2.83	0.66
34:BA:1052:G:C4	34:BA:1230:G:C8	2.83	0.66
34:BA:1186:U:C6	34:BA:1189:A:C8	2.84	0.66
34:BA:18:G:H3'	34:BA:19:G:C8	2.30	0.66
34:BA:216:C:C6	34:BA:216:C:H3'	2.31	0.66
34:BA:25:C:C2	34:BA:54:A:C6	2.82	0.66
37:BD:77:A:C2	37:BD:100:A:C4	2.84	0.66
38:BE:43:A:C2	38:BE:44:C:C4	2.83	0.66
40:BG:88:G:C6	40:BG:89:A:C5	2.83	0.66
35:BB:805:G:C3'	35:BB:806:U:C6	2.77	0.66
35:BB:805:G:C5	35:BB:806:U:C4	2.83	0.66
85:AA:709:A:O2'	85:AA:710:A:H5'	1.96	0.66
34:BA:279:U:H3'	34:BA:280:A:C8	2.30	0.66
85:AA:192:G:C6	85:AA:247:G:C6	2.84	0.66
85:AA:268:A:C2	85:AA:973:U:C2	2.83	0.66
34:BA:533:U:H5	34:BA:575:U:C4	2.13	0.66
85:AA:1003:G:C5	85:AA:1004:G:C5	2.83	0.66
5:A4:36:HIS:H	5:A4:36:HIS:CD2	2.14	0.66
34:BA:161:U:C6	34:BA:161:U:O5'	2.49	0.66
34:BA:131:A:C6	34:BA:184:C:H5"	2.30	0.66
36:BC:118:U:H2'	36:BC:119:G:C8	2.30	0.66
40:BG:169:A:H3'	40:BG:173:C:C4	2.31	0.66
40:BG:29:U:O5'	40:BG:29:U:H6	1.77	0.66
41:BH:134:U:H3'	41:BH:134:U:C6	2.31	0.66
44:BK:195:LEU:HD23	44:BK:196:HIS:H	1.61	0.66
85:AA:2196:G:H2'	85:AA:2197:A:C8	2.31	0.66
85:AA:470:C:C4	85:AA:471:U:C4	2.84	0.66
34:BA:1494:G:H1'	34:BA:1495:A:H5"	1.76	0.66
85:AA:818:C:C4	85:AA:863:C:O2	2.49	0.66
85:AA:1003:G:C6	85:AA:1004:G:C6	2.84	0.66
35:BB:406:A:H3'	35:BB:407:A:H2'	1.78	0.66
35:BB:609:G:H2'	35:BB:610:U:C6	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1293:A:C6	34:BA:1295:U:C4	2.84	0.66
34:BA:1293:A:C2	34:BA:1295:U:C2	2.83	0.66
34:BA:825:G:H1	34:BA:842:U:H3	1.43	0.66
38:BE:47:U:H2'	38:BE:48:G:C8	2.31	0.66
40:BG:28:A:C6	40:BG:29:U:C4	2.84	0.66
40:BG:34:A:C6	40:BG:35:G:H1'	2.31	0.66
41:BH:133:U:C5	41:BH:134:U:H1'	2.31	0.66
85:AA:959:C:C5	85:AA:960:G:C5	2.84	0.66
34:BA:945:A:H3'	34:BA:946:A:O4'	1.96	0.66
85:AA:1457:C:H2'	85:AA:1458:G:H5'	1.75	0.66
34:BA:1289:C:C4	34:BA:1290:A:C6	2.83	0.66
85:AA:2145:G:H2'	85:AA:2146:G:O4'	1.95	0.66
85:AA:2147:A:C5	85:AA:2148:C:C6	2.84	0.66
34:BA:1230:G:C5	34:BA:1231:C:C4	2.83	0.66
34:BA:1475:G:H2'	34:BA:1476:G:C8	2.30	0.66
34:BA:1719:G:C6	34:BA:1720:U:C4	2.84	0.66
34:BA:1807:G:C4	34:BA:1808:A:C8	2.84	0.66
34:BA:503:C:H42	34:BA:699:G:H1	1.42	0.66
34:BA:55:G:H2'	34:BA:56:G:C8	2.30	0.66
38:BE:16:C:C5	38:BE:17:U:C5	2.84	0.66
85:AA:330:C:H5"	85:AA:331:G:C8	2.30	0.66
85:AA:2036:A:C8	85:AA:2036:A:OP2	2.49	0.66
17:AI:133:VAL:HG13	85:AA:1558:U:H1'	1.77	0.66
85:AA:1453:U:H3'	85:AA:1454:U:H6	1.61	0.66
85:AA:809:A:N1	85:AA:869:A:C2	2.63	0.66
34:BA:1072:U:O4	34:BA:1073:G:C8	2.49	0.66
34:BA:1073:G:C5	34:BA:1074:C:C5	2.84	0.66
34:BA:1102:A:C2	34:BA:1103:G:C4	2.84	0.66
34:BA:172:A:C6	34:BA:316:G:C6	2.84	0.66
34:BA:63:A:C6	34:BA:65:A:C4	2.84	0.66
35:BB:1075:A:C5	35:BB:1076:U:C6	2.84	0.66
38:BE:128:G:H2'	38:BE:129:G:C8	2.32	0.66
38:BE:49:A:C6	38:BE:50:G:C5	2.84	0.66
53:BT:23:TRP:CH2	53:BT:25:ASP:HA	2.31	0.66
34:BA:536:C:C5	34:BA:537:C:C5	2.84	0.66
85:AA:423:G:C6	85:AA:424:A:C5	2.83	0.66
35:BB:545:C:C2	35:BB:572:G:C8	2.84	0.66
34:BA:557:U:C5	34:BA:558:C:OP1	2.49	0.66
34:BA:946:A:C6	34:BA:947:A:C4	2.84	0.66
48:BO:182:LYS:NZ	48:BO:186:HIS:CE1	2.63	0.66
85:AA:1247:A:H2'	85:AA:1248:U:H5'	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BP:98:ALA:HB1	49:BP:102:PHE:CZ	2.31	0.66
45:BL:18:GLU:CD	45:BL:18:GLU:H	1.99	0.66
85:AA:1013:C:C5	85:AA:1053:A:C2	2.83	0.66
34:BA:1638:U:H2'	34:BA:1639:U:C6	2.31	0.65
34:BA:1667:G:H3'	34:BA:1668:C:H6	1.61	0.65
34:BA:475:A:C2	34:BA:1592:U:H4'	2.31	0.65
34:BA:827:A:C2	34:BA:841:G:C4	2.83	0.65
35:BB:104:G:H1'	35:BB:119:G:C2	2.31	0.65
36:BC:145:G:C5	36:BC:146:U:C5	2.84	0.65
38:BE:94:U:H2'	38:BE:95:G:C8	2.31	0.65
51:BR:89:VAL:HA	51:BR:92:LEU:HD12	1.78	0.65
34:BA:545:U:N3	34:BA:563:A:C2	2.64	0.65
35:BB:525:U:H3	85:AA:2113:U:H4'	1.60	0.65
85:AA:2195:A:C6	85:AA:2196:G:C6	2.85	0.65
85:AA:2198:G:C6	85:AA:2199:G:C4	2.84	0.65
35:BB:1195:A:C8	35:BB:1195:A:H3'	2.31	0.65
35:BB:530:C:H5"	85:AA:2231:G:C2'	2.22	0.65
57:BX:151:SER:HB2	57:BX:152:TYR:CE2	2.30	0.65
34:BA:925:G:C6	34:BA:926:A:C5	2.84	0.65
16:AH:21:TYR:CE1	16:AH:87:HIS:CE1	2.83	0.65
34:BA:1158:A:C4	34:BA:1159:A:C8	2.84	0.65
34:BA:1484:A:C6	34:BA:1485:U:C5	2.84	0.65
34:BA:1533:G:C5	34:BA:1534:U:C4	2.84	0.65
34:BA:23:A:C5	34:BA:395:G:C4	2.84	0.65
35:BB:484:G:C5	35:BB:485:U:C4	2.84	0.65
34:BA:1160:U:H4'	37:BD:80:G:H4'	1.78	0.65
38:BE:2:G:C5	38:BE:8:G:C4	2.84	0.65
44:BK:47:PRO:HA	44:BK:171:TRP:CE2	2.32	0.65
34:BA:566:G:C8	34:BA:566:G:H3'	2.31	0.65
85:AA:160:A:C2	85:AA:161:A:H1'	2.31	0.65
85:AA:2127:G:C6	85:AA:2128:G:C5	2.84	0.65
35:BB:526:A:C8	35:BB:527:U:C5	2.84	0.65
35:BB:806:U:C5	35:BB:807:U:C5	2.84	0.65
35:BB:1165:A:H4'	35:BB:1166:A:OP1	1.95	0.65
34:BA:1211:G:OP1	34:BA:1211:G:C8	2.49	0.65
35:BB:1277:A:C6	35:BB:1278:A:C5	2.84	0.65
85:AA:587:G:C6	85:AA:588:G:C5	2.84	0.65
57:BX:158:ALA:HB1	57:BX:163:LEU:HB2	1.78	0.65
85:AA:1449:C:C2	85:AA:1450:U:H1'	2.32	0.65
85:AA:972:G:C4	85:AA:973:U:H5	2.14	0.65
3:A2:41:ARG:HE	3:A2:43:GLN:CD	2.00	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:99:LEU:HD23	1:A0:234:HIS:CD2	2.31	0.65
35:BB:1351:G:H2'	35:BB:1352:C:H6	1.61	0.65
85:AA:352:G:H2'	85:AA:353:G:C8	2.31	0.65
34:BA:704:G:C6	34:BA:705:C:C4	2.85	0.65
34:BA:81:C:H1'	34:BA:100:A:H61	1.61	0.65
36:BC:9:G:C5	36:BC:10:C:C5	2.84	0.65
36:BC:129:C:H3'	36:BC:130:U:C5'	2.25	0.65
38:BE:20:C:C2	38:BE:21:C:C6	2.83	0.65
38:BE:73:A:C2	38:BE:74:U:C6	2.84	0.65
55:BV:108:ARG:HH12	55:BV:110:LEU:HD23	1.60	0.65
34:BA:672:G:C2	34:BA:673:U:C2	2.83	0.65
85:AA:1197:U:C5	85:AA:1198:U:C5	2.84	0.65
3:A2:42:TRP:CE2	3:A2:52:ILE:HG22	2.30	0.65
40:BG:11:G:C8	40:BG:11:G:O5'	2.49	0.65
34:BA:1551:G:H2'	34:BA:1552:C:C6	2.31	0.65
34:BA:1637:G:C4	34:BA:1638:U:C5	2.85	0.65
34:BA:1658:G:H1	35:BB:20:U:H3	1.42	0.65
37:BD:43:U:C4	37:BD:44:U:C4	2.84	0.65
41:BH:42:U:C6	41:BH:110:C:C4	2.84	0.65
85:AA:83:U:H2'	85:AA:84:C:H6	1.61	0.65
35:BB:802:G:H2'	35:BB:804:U:C6	2.32	0.65
5:A4:5:PRO:HD3	5:A4:30:PHE:CE2	2.31	0.65
85:AA:1135:U:H2'	85:AA:1136:A:C8	2.31	0.65
85:AA:1198:U:H2'	85:AA:1199:C:C6	2.32	0.65
34:BA:600:G:C6	34:BA:602:G:C6	2.85	0.65
85:AA:1519:A:C6	85:AA:1520:A:C6	2.85	0.65
85:AA:1522:U:H6	85:AA:1522:U:O5'	1.80	0.65
56:BW:127:LEU:HG	56:BW:128:TRP:CD2	2.32	0.65
35:BB:1070:G:C4	35:BB:1071:G:C8	2.85	0.65
35:BB:1174:C:C4	35:BB:1176:G:C5	2.85	0.65
34:BA:1522:G:C6	34:BA:1523:U:C4	2.84	0.65
34:BA:743:A:C5	47:BN:7:ALA:N	2.64	0.65
34:BA:888:G:C5	34:BA:889:U:C5	2.84	0.65
35:BB:1299:G:H2'	35:BB:1356:G:N2	2.12	0.65
38:BE:126:G:C2	38:BE:127:G:C4	2.85	0.65
38:BE:74:U:C5	38:BE:75:C:C4	2.85	0.65
39:BF:19:A:C2	39:BF:20:U:C2	2.85	0.65
40:BG:95:U:H5"	53:BT:58:HIS:CE1	2.31	0.65
85:AA:1549:G:C5	85:AA:1550:C:C5	2.85	0.65
34:BA:971:G:H2'	34:BA:972:C:C6	2.32	0.65
35:BB:1512:C:C4	35:BB:1513:U:C5	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:2:A:H3'	34:BA:2:A:C8	2.32	0.65
85:AA:911:A:C5	85:AA:912:C:C5	2.84	0.65
85:AA:429:G:C6	85:AA:430:G:H1'	2.32	0.65
34:BA:1122:G:C2	34:BA:1139:G:H1'	2.32	0.65
20:AL:28:PHE:CD2	85:AA:1826:U:H6	2.15	0.65
35:BB:1488:G:C6	35:BB:1489:A:C8	2.85	0.65
34:BA:899:G:C8	34:BA:1032:A:C5	2.84	0.65
23:AP:153:TYR:HA	23:AP:162:HIS:CE1	2.32	0.65
34:BA:412:G:H2'	34:BA:413:A:C8	2.32	0.65
35:BB:1102:U:C2	35:BB:1103:A:C2	2.84	0.65
35:BB:1232:A:C5	35:BB:1245:A:C2	2.84	0.65
35:BB:1459:U:C2	35:BB:1461:C:H3'	2.32	0.65
37:BD:93:G:H2'	37:BD:94:C:C6	2.30	0.65
38:BE:68:U:H2'	38:BE:69:C:C6	2.32	0.65
41:BH:106:G:C2	41:BH:107:A:C2	2.84	0.65
51:BR:122:ALA:HB2	51:BR:145:HIS:CD2	2.32	0.65
34:BA:1691:G:H5'	57:BX:133:ASN:HD22	1.62	0.65
34:BA:626:G:C6	34:BA:627:U:C2	2.85	0.65
35:BB:796:C:C2	35:BB:978:C:C5	2.84	0.65
85:AA:2003:C:H2'	85:AA:2035:C:C5	2.32	0.65
23:AP:100:THR:HA	85:AA:1523:G:H4'	1.79	0.65
85:AA:2228:G:C6	85:AA:2229:G:C5	2.85	0.65
85:AA:401:U:C4	85:AA:402:G:C5	2.84	0.65
85:AA:1167:G:H2'	85:AA:1168:C:C6	2.32	0.65
34:BA:979:G:C8	34:BA:981:A:C8	2.85	0.65
85:AA:1304:C:H3'	85:AA:1305:A:C8	2.31	0.65
35:BB:510:A:C2	35:BB:580:A:C4	2.84	0.65
25:AR:75:HIS:CG	30:AW:4:PHE:CD1	2.85	0.65
34:BA:830:U:H2'	34:BA:831:U:C6	2.31	0.65
34:BA:1433:U:H4'	34:BA:1435:A:H5"	1.78	0.65
34:BA:1476:G:H2'	34:BA:1477:C:H5'	1.79	0.65
34:BA:1611:A:C5	34:BA:1612:C:C5	2.85	0.65
34:BA:1617:U:C4	34:BA:1633:C:C2'	2.79	0.65
34:BA:1742:G:C2	34:BA:1783:C:C2	2.84	0.65
34:BA:1789:A:H2'	34:BA:1790:U:C5	2.32	0.65
34:BA:1815:G:C6	34:BA:1832:A:C6	2.85	0.65
34:BA:464:U:H6	51:BR:3:HIS:CG	2.15	0.65
34:BA:728:A:C6	34:BA:1593:U:C4	2.84	0.65
34:BA:792:A:H2'	34:BA:793:A:C8	2.32	0.65
34:BA:919:A:C2	34:BA:920:U:C2	2.85	0.65
35:BB:131:A:H2'	35:BB:132:G:C8	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1603:A:C5	35:BB:33:A:C5	2.84	0.65
37:BD:46:G:N1	37:BD:47:U:C4	2.65	0.65
85:AA:100:A:C2	85:AA:375:C:C5	2.84	0.65
85:AA:33:U:C5	85:AA:538:A:C6	2.85	0.65
34:BA:603:U:C4	34:BA:680:C:C6	2.85	0.65
35:BB:1493:A:C6	35:BB:1494:G:C5	2.84	0.65
35:BB:14:C:C5	35:BB:15:C:C5	2.85	0.65
35:BB:1178:A:C5	35:BB:1179:C:C4	2.84	0.65
4:A3:25:ARG:NH2	4:A3:31:TYR:H	1.95	0.65
34:BA:805:A:C2	34:BA:807:U:C5	2.85	0.65
35:BB:1361:A:C2	35:BB:1362:G:C4	2.84	0.65
36:BC:105:C:H1'	36:BC:149:A:C5	2.31	0.65
38:BE:149:A:C2	38:BE:163:A:N1	2.65	0.65
34:BA:563:A:C2	34:BA:564:C:C2	2.84	0.65
85:AA:181:A:H3'	85:AA:182:C:C5'	2.26	0.65
85:AA:680:U:C5	85:AA:682:C:H2'	2.32	0.65
34:BA:262:A:C2	34:BA:279:U:C5	2.85	0.65
34:BA:272:A:C2	34:BA:275:C:C5	2.85	0.65
85:AA:268:A:H3'	85:AA:269:G:C5'	2.26	0.65
85:AA:1252:A:C2	85:AA:1254:A:C4	2.85	0.65
23:AP:139:MET:HG2	23:AP:140:ILE:HG23	1.79	0.65
35:BB:542:A:C2	35:BB:579:A:C4	2.85	0.65
35:BB:1484:A:C6	35:BB:1485:G:C4	2.85	0.65
34:BA:1070:G:C2	34:BA:1071:G:C4	2.85	0.65
34:BA:1257:U:H5'	34:BA:1257:U:C6	2.32	0.65
34:BA:1640:G:H2'	34:BA:1641:G:C8	2.32	0.65
34:BA:456:G:C2	34:BA:457:A:H1'	2.32	0.65
34:BA:483:A:H5'	34:BA:484:A:H5'	1.79	0.65
34:BA:496:G:C6	34:BA:497:U:C4	2.85	0.65
34:BA:783:U:H2'	34:BA:784:C:C6	2.32	0.65
36:BC:113:G:C4	36:BC:114:C:C6	2.84	0.65
34:BA:398:G:C2	36:BC:30:U:N3	2.65	0.65
37:BD:94:C:H3'	37:BD:95:G:C8	2.31	0.65
34:BA:740:A:O4'	47:BN:12:HIS:CD2	2.50	0.65
85:AA:526:G:C6	85:AA:527:A:C4	2.85	0.65
85:AA:1105:G:C8	85:AA:1106:A:H3'	2.31	0.65
13:AE:172:SER:HA	85:AA:941:C:C6	2.32	0.65
15:AG:77:HIS:CE1	85:AA:1107:A:C2	2.85	0.65
34:BA:605:G:C6	34:BA:606:G:C4	2.85	0.65
39:BF:3:A:C6	39:BF:4:A:C5	2.84	0.65
34:BA:1023:G:C4	35:BB:1267:C:C2	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1834:A:C2	34:BA:1835:A:H1'	2.32	0.65
35:BB:59:U:H3'	35:BB:60:A:C5'	2.26	0.65
36:BC:125:A:C4	36:BC:126:G:C8	2.85	0.65
34:BA:900:A:C4	47:BN:14:ARG:HG3	2.32	0.65
85:AA:2130:G:C5	85:AA:2131:C:C5	2.85	0.65
85:AA:701:C:C4	85:AA:702:G:C5	2.85	0.65
35:BB:432:C:C4	35:BB:433:C:C4	2.85	0.65
34:BA:1744:C:C2	34:BA:1781:A:C2	2.85	0.64
34:BA:366:G:C2	34:BA:376:U:C2	2.86	0.64
34:BA:6:C:C2	36:BC:166:G:C2	2.86	0.64
34:BA:942:G:C6	34:BA:943:G:C5	2.84	0.64
35:BB:385:C:C5	35:BB:386:G:C8	2.85	0.64
37:BD:71:G:C5	37:BD:72:U:C5	2.85	0.64
38:BE:165:U:H3'	38:BE:166:G:H8	1.61	0.64
85:AA:456:A:C4	85:AA:457:G:C8	2.84	0.64
35:BB:798:A:N6	35:BB:976:U:C4	2.65	0.64
85:AA:2214:A:H2'	85:AA:2215:C:H5"	1.79	0.64
85:AA:362:G:H2'	85:AA:363:A:C8	2.32	0.64
35:BB:1004:A:C2	35:BB:1015:U:C2	2.84	0.64
85:AA:1247:A:C2'	85:AA:1248:U:H5'	2.25	0.64
34:BA:836:U:C5	34:BA:837:U:C4	2.84	0.64
34:BA:1181:G:C5	34:BA:1192:A:C2	2.85	0.64
34:BA:135:G:C6	34:BA:136:A:C5	2.85	0.64
34:BA:1463:U:H2'	34:BA:1464:C:C6	2.32	0.64
34:BA:1622:U:C4	34:BA:1623:U:H1'	2.32	0.64
34:BA:320:G:H2'	34:BA:321:G:C8	2.31	0.64
34:BA:331:G:C6	34:BA:356:C:C6	2.85	0.64
35:BB:1115:G:C6	35:BB:1134:G:C2	2.84	0.64
34:BA:980:C:C2	35:BB:33:A:C8	2.86	0.64
35:BB:679:G:C4	35:BB:680:A:C8	2.84	0.64
36:BC:106:G:C5	36:BC:115:G:C6	2.85	0.64
36:BC:126:G:C5	36:BC:127:C:C5	2.86	0.64
38:BE:74:U:C5	38:BE:75:C:C5	2.86	0.64
40:BG:72:G:C5	40:BG:73:U:C4	2.84	0.64
41:BH:43:G:C5	41:BH:44:A:C5	2.85	0.64
42:BI:16:ARG:O	42:BI:17:HIS:CD2	2.50	0.64
49:BP:74:LEU:HD23	49:BP:75:LYS:HG3	1.78	0.64
85:AA:1190:G:H2'	85:AA:1226:A:H5'	1.79	0.64
85:AA:2117:U:H2'	85:AA:2118:U:C6	2.33	0.64
85:AA:2125:A:C2	85:AA:2193:A:N1	2.65	0.64
85:AA:1657:C:H2'	85:AA:1658:G:C8	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2146:G:C2	85:AA:2171:A:C6	2.84	0.64
85:AA:577:U:C2'	85:AA:578:U:H5"	2.26	0.64
85:AA:2074:G:H2'	85:AA:2075:C:C6	2.32	0.64
85:AA:378:A:C2	85:AA:381:A:C8	2.85	0.64
85:AA:382:G:C6	85:AA:415:G:C6	2.85	0.64
85:AA:81:A:C8	85:AA:82:A:C4	2.85	0.64
85:AA:170:C:H2'	85:AA:171:U:C6	2.33	0.64
35:BB:500:C:C5	35:BB:501:G:C8	2.85	0.64
35:BB:645:C:H2'	35:BB:646:U:C6	2.32	0.64
8:A7:5:TYR:HB3	8:A7:313:GLY:H	1.61	0.64
34:BA:1563:G:C4	34:BA:1565:U:C5	2.85	0.64
34:BA:1577:U:H2'	34:BA:1578:A:C8	2.31	0.64
34:BA:8:G:C4	34:BA:9:A:C8	2.85	0.64
34:BA:938:C:H2'	34:BA:939:C:H6	1.62	0.64
35:BB:1156:U:O5'	35:BB:1156:U:H6	1.80	0.64
35:BB:661:G:C6	35:BB:662:G:C5	2.86	0.64
36:BC:40:A:C2	36:BC:41:A:C4	2.85	0.64
39:BF:55:A:H3'	39:BF:56:C:C6	2.32	0.64
41:BH:32:U:H3'	41:BH:33:G:C8	2.32	0.64
44:BK:171:TRP:CE2	44:BK:181:TYR:CE1	2.85	0.64
6:A5:22:ARG:HH11	85:AA:450:A:H5"	1.61	0.64
85:AA:689:U:H3	85:AA:1483:A:H61	1.44	0.64
35:BB:810:G:C2	35:BB:811:C:C2	2.84	0.64
85:AA:805:A:H61	85:AA:874:A:H5"	1.61	0.64
35:BB:1519:U:C4	35:BB:1520:C:C5	2.84	0.64
85:AA:2053:A:H2'	85:AA:2054:G:C5'	2.26	0.64
85:AA:1829:C:H2'	85:AA:1830:U:C6	2.32	0.64
35:BB:608:A:C2	35:BB:609:G:C5	2.85	0.64
35:BB:645:C:H2'	35:BB:646:U:C5	2.32	0.64
5:A4:21:GLU:H	5:A4:21:GLU:CD	1.99	0.64
34:BA:753:G:C6	34:BA:754:G:C5	2.86	0.64
35:BB:1109:A:C6	35:BB:1110:G:C5	2.86	0.64
35:BB:95:A:C4	35:BB:96:A:N7	2.66	0.64
36:BC:108:A:H2'	36:BC:109:A:C8	2.32	0.64
37:BD:5:A:H2'	37:BD:6:C:C6	2.33	0.64
34:BA:543:A:C2	34:BA:544:U:C4	2.85	0.64
85:AA:1271:U:C4	85:AA:1272:G:C6	2.86	0.64
35:BB:1545:U:C2	35:BB:1546:C:C6	2.85	0.64
85:AA:820:G:H2'	85:AA:821:U:C6	2.33	0.64
34:BA:990:G:C5	34:BA:991:U:C5	2.85	0.64
35:BB:438:G:C2	35:BB:439:G:C8	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AT:117:ARG:HA	27:AT:120:ARG:CZ	2.28	0.64
34:BA:471:U:O2	36:BC:17:U:C2	2.51	0.64
34:BA:818:G:C5	34:BA:853:A:C6	2.85	0.64
35:BB:16:G:H2'	35:BB:17:U:C6	2.31	0.64
35:BB:489:A:C6	35:BB:490:G:C6	2.86	0.64
36:BC:106:G:C6	36:BC:115:G:C5	2.86	0.64
38:BE:26:G:C8	38:BE:26:G:H3'	2.32	0.64
41:BH:3:U:H2'	41:BH:4:U:C6	2.32	0.64
35:BB:849:A:H5'	35:BB:850:U:H5"	1.79	0.64
85:AA:928:U:C4	85:AA:929:G:C5	2.85	0.64
85:AA:124:A:C5	85:AA:185:A:C2	2.85	0.64
85:AA:244:G:C6	85:AA:245:A:C5	2.85	0.64
85:AA:2147:A:C2	85:AA:2172:A:C4	2.86	0.64
54:BU:149:ARG:HD2	54:BU:150:THR:HG22	1.80	0.64
34:BA:999:G:C6	34:BA:1000:G:C5	2.84	0.64
85:AA:345:U:H2'	85:AA:346:U:H5'	1.78	0.64
34:BA:523:A:C2	34:BA:524:G:C4	2.85	0.64
35:BB:637:G:C5	35:BB:638:G:C5	2.85	0.64
8:A7:159:ARG:HH11	8:A7:159:ARG:HA	1.63	0.64
85:AA:835:C:C5	85:AA:836:A:C8	2.85	0.64
34:BA:1274:A:C2	34:BA:1467:U:C2	2.85	0.64
34:BA:1841:A:H3'	34:BA:1842:U:C6	2.33	0.64
34:BA:746:C:H2'	34:BA:747:G:C8	2.32	0.64
34:BA:799:A:C8	34:BA:857:C:C5'	2.77	0.64
34:BA:911:G:C6	34:BA:912:G:C5	2.85	0.64
35:BB:125:G:C5	35:BB:126:C:C5	2.86	0.64
35:BB:1298:C:C4	35:BB:1299:G:C6	2.86	0.64
37:BD:1:G:C4	37:BD:2:G:C8	2.86	0.64
37:BD:89:G:C5	37:BD:90:A:C6	2.86	0.64
37:BD:75:G:C4	37:BD:99:G:C6	2.85	0.64
39:BF:9:C:H3'	39:BF:10:A:C8	2.32	0.64
40:BG:176:G:C6	40:BG:177:U:C4	2.86	0.64
85:AA:1502:A:C5	85:AA:1503:G:H1'	2.32	0.64
85:AA:484:G:C6	85:AA:485:A:C5	2.86	0.64
35:BB:823:G:N2	35:BB:824:C:H1'	2.13	0.64
85:AA:944:C:C4	85:AA:945:A:C4	2.86	0.64
24:AQ:65:THR:HG22	24:AQ:67:CYS:H	1.63	0.64
34:BA:293:A:C5	34:BA:294:C:C5	2.85	0.64
35:BB:674:C:C2	35:BB:675:U:C5	2.85	0.64
85:AA:1699:A:C2	85:AA:1700:C:C2	2.85	0.64
85:AA:899:A:C5	85:AA:900:G:C8	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BS:8:HIS:CD2	52:BS:32:PHE:CE2	2.86	0.64
85:AA:1034:U:H2'	85:AA:1035:C:H2'	1.80	0.64
86:AB:9:A:H2'	86:AB:11:C:H41	1.63	0.64
35:BB:1175:A:C2	35:BB:1177:U:H1'	2.33	0.64
35:BB:716:G:H2'	35:BB:717:A:C8	2.32	0.64
34:BA:125:G:C6	34:BA:126:G:C6	2.85	0.64
34:BA:1270:G:C6	34:BA:1271:C:C2	2.86	0.64
34:BA:161:U:C2	34:BA:323:C:C6	2.85	0.64
34:BA:412:G:C5	34:BA:413:A:C5	2.85	0.64
34:BA:74:A:C5	34:BA:75:U:C6	2.86	0.64
34:BA:757:G:H4'	34:BA:758:G:C5	2.31	0.64
34:BA:749:G:C5	34:BA:888:G:C2	2.86	0.64
35:BB:1076:U:H2'	35:BB:1077:C:C6	2.33	0.64
34:BA:1604:A:C2	35:BB:63:A:C6	2.86	0.64
38:BE:21:C:C2	38:BE:198:A:C2	2.85	0.64
38:BE:93:U:H2'	38:BE:94:U:C6	2.33	0.64
40:BG:165:C:H2'	40:BG:166:C:C6	2.33	0.64
35:BB:126:C:O2'	41:BH:102:C:O2'	2.16	0.64
35:BB:831:C:H2'	35:BB:832:C:H6	1.63	0.64
85:AA:959:C:C5	85:AA:960:G:C6	2.86	0.64
85:AA:1181:U:H1'	85:AA:1182:A:C6	2.33	0.64
27:AT:34:HIS:CE1	85:AA:604:C:H42	2.16	0.64
85:AA:1457:C:C2'	85:AA:1458:G:H5'	2.28	0.64
85:AA:1695:G:H2'	85:AA:1696:U:C6	2.33	0.64
85:AA:2147:A:C6	85:AA:2148:C:C2	2.86	0.64
85:AA:912:C:C5	85:AA:913:U:C4	2.86	0.64
35:BB:1203:C:C5	35:BB:1204:C:C5	2.86	0.64
10:A9:135:ALA:HB2	85:AA:1629:C:H1'	1.79	0.64
85:AA:1728:G:H2'	85:AA:1729:C:H5	1.62	0.64
11:AC:54:LEU:HA	11:AC:57:MET:SD	2.38	0.64
34:BA:982:A:C5	34:BA:1020:A:C2	2.86	0.64
35:BB:787:A:H2'	35:BB:788:U:C6	2.33	0.64
38:BE:90:G:H2'	38:BE:91:G:C8	2.32	0.64
39:BF:27:G:H2'	39:BF:28:C:C2	2.32	0.64
34:BA:743:A:C8	47:BN:7:ALA:O	2.50	0.64
34:BA:561:U:C2	34:BA:562:C:C5	2.85	0.64
34:BA:542:A:N3	34:BA:566:G:C2	2.66	0.64
85:AA:106:G:H3'	85:AA:107:A:C8	2.33	0.64
85:AA:2180:C:H3'	85:AA:2181:G:H8	1.63	0.64
85:AA:508:C:O4'	85:AA:595:A:C2	2.51	0.64
35:BB:846:A:C4	35:BB:967:G:C2	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:419:A:H3'	85:AA:420:C:C6	2.32	0.64
34:BA:1092:U:O5'	34:BA:1092:U:H6	1.81	0.64
85:AA:338:G:C6	85:AA:339:A:C5	2.85	0.64
35:BB:1432:U:H2'	35:BB:1433:U:C6	2.33	0.64
34:BA:1131:G:C6	34:BA:1133:A:H1'	2.31	0.64
48:BO:201:ARG:HB3	49:BP:124:ALA:CB	2.27	0.64
85:AA:1369:U:H2'	85:AA:1370:G:C8	2.33	0.64
11:AC:192:PHE:CZ	25:AR:65:CYS:HA	2.33	0.64
49:BP:172:LYS:HA	49:BP:175:LEU:HD12	1.78	0.64
85:AA:2152:C:C2	85:AA:2167:A:C2	2.86	0.64
34:BA:1846:G:C6	35:BB:5:A:N6	2.64	0.64
34:BA:212:A:C6	34:BA:213:A:C5	2.86	0.64
34:BA:157:U:H5"	34:BA:325:A:H61	1.62	0.64
34:BA:503:C:H2'	34:BA:504:A:C8	2.33	0.64
34:BA:60:A:C6	34:BA:61:G:C6	2.86	0.64
34:BA:758:G:H2'	34:BA:759:A:O4'	1.98	0.64
35:BB:1155:U:N3	35:BB:1156:U:C4	2.65	0.64
38:BE:107:U:C2	38:BE:108:U:C5	2.86	0.64
40:BG:181:C:C5	40:BG:182:G:C6	2.86	0.64
34:BA:566:G:C2	34:BA:567:U:C6	2.85	0.64
6:A5:21:HIS:CD2	85:AA:99:U:H4'	2.33	0.64
85:AA:57:G:C5	85:AA:58:C:C4	2.86	0.64
35:BB:817:C:C5	35:BB:818:U:C4	2.85	0.64
35:BB:1166:A:H5'	35:BB:1167:C:C5'	2.17	0.64
85:AA:1105:G:C8	85:AA:1106:A:C4	2.86	0.64
40:BG:140:G:H1	40:BG:147:U:H2'	1.63	0.64
34:BA:191:G:C6	34:BA:293:A:C6	2.86	0.64
34:BA:602:G:H2'	34:BA:603:U:H5'	1.80	0.64
85:AA:2145:G:C6	85:AA:2146:G:C6	2.86	0.64
85:AA:2057:G:H22	85:AA:2073:U:H3	1.46	0.64
85:AA:912:C:C4	85:AA:913:U:C4	2.86	0.64
34:BA:1001:G:C6	34:BA:1002:U:C4	2.86	0.64
34:BA:451:A:C2	34:BA:452:A:C4	2.86	0.64
35:BB:378:C:C4	35:BB:379:U:C4	2.86	0.64
34:BA:13:U:N3	36:BC:155:C:C2	2.66	0.64
34:BA:543:A:C2	34:BA:544:U:C5	2.86	0.64
85:AA:2205:A:H2'	85:AA:2206:A:C8	2.32	0.64
85:AA:1916:A:N1	85:AA:1996:A:N1	2.46	0.64
85:AA:1922:A:H3'	85:AA:1922:A:C8	2.33	0.64
22:AO:99:LYS:HA	22:AO:109:THR:HA	1.79	0.64
85:AA:778:C:C2	85:AA:779:G:C8	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BP:136:PRO:HD2	49:BP:141:LYS:HA	1.78	0.64
34:BA:836:U:C4	34:BA:837:U:C2	2.86	0.64
35:BB:1045:G:C5	35:BB:1046:C:C5	2.86	0.64
34:BA:162:G:C8	34:BA:322:U:O4	2.51	0.63
34:BA:391:U:H4'	34:BA:392:A:C8	2.33	0.63
34:BA:782:C:C4	34:BA:783:U:C4	2.86	0.63
34:BA:858:C:O5'	34:BA:858:C:C6	2.51	0.63
34:BA:92:G:C4	34:BA:93:A:C8	2.86	0.63
36:BC:92:C:H2'	36:BC:93:C:C6	2.33	0.63
38:BE:140:G:C8	38:BE:141:A:C2	2.86	0.63
38:BE:58:U:C2	38:BE:59:U:C5	2.87	0.63
38:BE:85:G:C5	38:BE:86:C:H1'	2.33	0.63
41:BH:34:G:C2	41:BH:121:A:C2	2.87	0.63
21:AM:12:HIS:HB2	21:AM:13:ILE:HG22	1.80	0.63
85:AA:471:U:H2'	85:AA:472:A:C8	2.33	0.63
85:AA:542:G:C6	85:AA:543:A:C5	2.85	0.63
85:AA:61:C:C4	85:AA:62:A:C6	2.86	0.63
34:BA:608:G:C6	34:BA:609:G:C6	2.86	0.63
3:A2:184:ARG:HH21	86:AB:41:C:H5"	1.63	0.63
85:AA:1119:A:C2	85:AA:1206:A:C2	2.85	0.63
34:BA:519:G:H3'	34:BA:520:G:C8	2.32	0.63
85:AA:255:A:C2	85:AA:325:C:C2	2.85	0.63
85:AA:1448:A:C2	85:AA:1449:C:C2	2.86	0.63
85:AA:2237:G:H2'	85:AA:2238:C:C6	2.33	0.63
85:AA:720:A:C2	85:AA:721:C:C2	2.86	0.63
85:AA:792:A:C5	85:AA:800:A:N3	2.66	0.63
85:AA:1823:G:H3'	85:AA:1824:G:H8	1.61	0.63
85:AA:902:A:C6	85:AA:914:U:H1'	2.34	0.63
85:AA:381:A:C6	85:AA:416:U:N3	2.67	0.63
35:BB:997:G:C6	35:BB:998:G:C5	2.85	0.63
85:AA:1536:C:H4'	85:AA:1536:C:OP2	1.97	0.63
35:BB:1058:U:H2'	35:BB:1059:U:C6	2.33	0.63
11:AC:184:CYS:SG	11:AC:196:ALA:HB1	2.38	0.63
34:BA:1507:C:H2'	34:BA:1508:C:C6	2.33	0.63
34:BA:1524:G:N3	34:BA:1524:G:H2'	2.13	0.63
34:BA:456:G:C6	34:BA:457:A:C4	2.85	0.63
35:BB:43:G:C4	35:BB:44:C:C5	2.85	0.63
36:BC:106:G:C5	36:BC:107:C:C5	2.86	0.63
36:BC:156:A:H3'	36:BC:159:U:N3	2.13	0.63
38:BE:49:A:C4	38:BE:50:G:C8	2.87	0.63
40:BG:44:G:C2	40:BG:67:A:C4	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:117:U:H5'	41:BH:117:U:C6	2.33	0.63
44:BK:86:HIS:CD2	44:BK:139:ARG:HE	2.17	0.63
51:BR:11:SER:H	51:BR:16:LYS:HA	11.46	0.63
34:BA:561:U:C2	34:BA:562:C:C6	2.87	0.63
85:AA:453:G:H2'	85:AA:454:G:H8	1.62	0.63
15:AG:140:LYS:HZ3	34:BA:946:A:H5'	1.63	0.63
85:AA:1549:G:C4	85:AA:1550:C:C5	2.86	0.63
85:AA:1960:C:H6	85:AA:1960:C:H5'	1.63	0.63
34:BA:1248:A:C2	34:BA:1249:G:C8	2.86	0.63
34:BA:1244:G:C6	35:BB:640:A:C2	2.86	0.63
85:AA:394:C:H2'	85:AA:395:G:C8	2.33	0.63
39:BF:47:C:C2	39:BF:48:G:C8	2.86	0.63
85:AA:1713:A:H2'	85:AA:1714:G:C8	2.34	0.63
85:AA:1826:U:C2	85:AA:1828:C:C6	2.86	0.63
35:BB:13:A:C5	35:BB:14:C:C6	2.87	0.63
34:BA:12:G:C5	34:BA:13:U:C5	2.86	0.63
34:BA:400:A:C2	36:BC:28:C:C2	2.86	0.63
34:BA:501:U:C5	34:BA:1548:A:C8	2.87	0.63
34:BA:785:G:C5	34:BA:786:U:C5	2.86	0.63
34:BA:856:G:C6	34:BA:857:C:C4	2.86	0.63
35:BB:1447:U:C2	35:BB:1448:U:C5	2.86	0.63
35:BB:4:C:H1'	38:BE:13:A:H1'	1.79	0.63
38:BE:73:A:C6	38:BE:74:U:C5	2.86	0.63
35:BB:385:C:C4'	40:BG:108:G:H21	2.11	0.63
40:BG:58:G:C6	40:BG:59:G:C4	2.86	0.63
41:BH:119:U:H2'	41:BH:120:C:C6	2.32	0.63
85:AA:660:G:C2	85:AA:661:C:C2	2.85	0.63
35:BB:849:A:C5'	35:BB:850:U:H5"	2.27	0.63
35:BB:857:G:C4	35:BB:866:A:C2	2.86	0.63
35:BB:870:C:C5	35:BB:871:C:C5	2.86	0.63
5:A4:6:HIS:HE1	53:BT:192:ASP:HB2	1.53	0.63
85:AA:1199:C:H2'	85:AA:1200:A:C8	2.32	0.63
41:BH:23:G:H3'	41:BH:24:U:C5'	2.28	0.63
34:BA:3:G:C2	34:BA:4:A:C8	2.85	0.63
35:BB:1067:G:C6	35:BB:1068:G:C4	2.86	0.63
35:BB:1019:C:C4	35:BB:1020:U:C5	2.86	0.63
34:BA:1163:G:C6	34:BA:1164:C:C5	2.87	0.63
85:AA:739:C:H2'	85:AA:740:A:H3'	1.81	0.63
85:AA:1811:C:H3'	85:AA:1812:C:H4'	1.80	0.63
34:BA:968:G:C5	34:BA:969:A:C5	2.85	0.63
11:AC:121:ARG:HA	11:AC:124:PHE:CD2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:133:A:C8	34:BA:134:U:C6	2.87	0.63
34:BA:1413:G:C4	34:BA:1414:C:C5	2.86	0.63
34:BA:15:G:C6	36:BC:153:C:N3	2.67	0.63
34:BA:1648:G:C5'	34:BA:1648:G:C8	2.81	0.63
34:BA:1790:U:H2'	34:BA:1791:C:C6	2.34	0.63
34:BA:1723:U:O2	34:BA:1799:G:C5	2.51	0.63
34:BA:186:G:C2	34:BA:301:U:C2	2.86	0.63
34:BA:692:U:C2	34:BA:696:A:H1'	2.33	0.63
34:BA:745:A:C5	34:BA:746:C:C5	2.86	0.63
34:BA:753:G:C2	34:BA:785:G:C4	2.86	0.63
34:BA:795:G:C6	34:BA:796:G:C6	2.86	0.63
34:BA:982:A:C4	34:BA:1020:A:C2	2.86	0.63
35:BB:130:G:C4	35:BB:374:A:C2	2.87	0.63
35:BB:1455:A:H3'	35:BB:1456:G:H8	1.63	0.63
35:BB:65:A:H61	35:BB:618:U:H3	1.47	0.63
36:BC:54:G:C2	36:BC:55:U:H1'	2.34	0.63
37:BD:47:U:C4	37:BD:48:G:C5	2.86	0.63
38:BE:101:C:C4	38:BE:117:A:C6	2.87	0.63
40:BG:72:G:C5	40:BG:73:U:C5	2.87	0.63
85:AA:2130:G:C6	85:AA:2131:C:C4	2.87	0.63
85:AA:531:G:C6	85:AA:532:G:C6	2.86	0.63
34:BA:616:G:N1	34:BA:617:G:C6	2.67	0.63
15:AG:104:ARG:HH12	85:AA:1199:C:H4'	1.62	0.63
15:AG:77:HIS:CD2	85:AA:941:C:C5'	2.81	0.63
34:BA:603:U:H2'	34:BA:680:C:C2	2.33	0.63
35:BB:1439:U:H6	35:BB:1439:U:O5'	1.80	0.63
7:A6:84:PHE:HB2	7:A6:106:ARG:HE	1.63	0.63
85:AA:416:U:H5'	85:AA:418:G:C8	2.33	0.63
34:BA:1136:A:C6	34:BA:1137:U:C2	2.86	0.63
85:AA:342:C:C2	85:AA:348:G:C2	2.87	0.63
85:AA:347:U:C5	85:AA:348:G:C8	2.87	0.63
3:A2:17:LEU:HD21	3:A2:93:ASN:HD22	1.63	0.63
85:AA:1843:A:H2'	85:AA:1844:A:C8	2.33	0.63
6:A5:203:LEU:HD12	6:A5:204:GLU:H	1.64	0.63
4:A3:22:VAL:HA	4:A3:26:VAL:HG12	1.81	0.63
34:BA:1550:G:C6	34:BA:1560:U:C4	2.87	0.63
34:BA:15:G:C6	34:BA:16:C:C4	2.86	0.63
34:BA:1840:C:H2'	34:BA:1841:A:C8	2.34	0.63
34:BA:318:U:H2'	34:BA:319:C:C6	2.34	0.63
34:BA:739:A:HO2'	47:BN:12:HIS:CD2	2.16	0.63
34:BA:892:C:H2'	34:BA:893:U:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:933:U:C4	34:BA:934:G:C4	2.87	0.63
35:BB:1230:A:C5	47:BN:206:ARG:NH2	2.67	0.63
35:BB:1464:G:C5	40:BG:24:A:OP1	2.52	0.63
37:BD:56:G:H3'	37:BD:57:C:C6	2.32	0.63
37:BD:8:A:C2	37:BD:9:C:C2	2.87	0.63
21:AM:13:ILE:HG21	45:BL:123:TYR:CE2	1.98	0.63
85:AA:480:U:H2'	85:AA:482:C:C6	2.33	0.63
85:AA:63:G:H1'	85:AA:174:U:C5	2.33	0.63
85:AA:642:G:C5	85:AA:643:C:C5	2.86	0.63
35:BB:668:A:C2	35:BB:1330:A:C6	2.86	0.63
35:BB:501:G:C6	35:BB:502:C:C4	2.86	0.63
34:BA:1595:G:C5	34:BA:1596:C:C4	2.86	0.63
34:BA:126:G:C5	34:BA:127:U:C4	2.87	0.63
34:BA:1786:C:H2'	34:BA:1787:U:C6	2.33	0.63
34:BA:21:C:H3'	34:BA:22:C:C6	2.34	0.63
34:BA:296:G:H2'	34:BA:297:A:C4'	2.28	0.63
34:BA:165:C:C5	34:BA:322:U:C4	2.87	0.63
34:BA:478:G:C4	34:BA:479:U:C6	2.86	0.63
34:BA:753:G:C2	34:BA:754:G:C4	2.86	0.63
34:BA:473:A:C5	36:BC:16:A:H1'	2.34	0.63
38:BE:154:A:H4'	38:BE:157:C:C5	2.34	0.63
40:BG:92:U:H2'	40:BG:93:U:C6	2.34	0.63
85:AA:452:A:H3'	85:AA:467:U:C5	2.34	0.63
35:BB:806:U:C6	35:BB:807:U:C5	2.86	0.63
85:AA:1115:G:H2'	85:AA:1116:G:H5'	1.80	0.63
85:AA:942:A:H5"	85:AA:943:U:H6	1.62	0.63
85:AA:719:C:C2	85:AA:782:G:C2	2.87	0.63
85:AA:911:A:C5	85:AA:912:C:C4	2.85	0.63
85:AA:407:G:C5	85:AA:408:C:C5	2.87	0.63
85:AA:1726:G:C4	85:AA:1727:U:C5	2.87	0.63
1:A0:113:TYR:CE1	1:A0:116:LEU:HD22	2.34	0.63
34:BA:1420:A:C2	35:BB:1345:A:C8	2.87	0.63
34:BA:1816:G:C5	34:BA:1818:A:C6	2.86	0.63
34:BA:248:G:H1'	34:BA:437:G:C5	2.34	0.63
35:BB:1171:U:H2'	35:BB:1172:U:C6	2.33	0.63
35:BB:620:G:C4	35:BB:621:C:C6	2.86	0.63
35:BB:786:A:H2'	35:BB:787:A:C8	2.33	0.63
36:BC:69:U:H2'	36:BC:70:C:C6	2.34	0.63
38:BE:104:G:H2'	38:BE:105:A:C8	2.33	0.63
34:BA:672:G:C5	34:BA:673:U:C4	2.87	0.63
85:AA:1140:G:C2	85:AA:1171:C:C2	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1565:G:C6	85:AA:1566:A:C6	2.87	0.63
34:BA:516:U:C2	34:BA:517:A:C8	2.87	0.63
35:BB:1178:A:H2'	35:BB:1179:C:C6	2.33	0.63
35:BB:715:G:H2'	35:BB:716:G:C8	2.34	0.63
34:BA:128:C:H2'	34:BA:129:U:C6	2.34	0.63
34:BA:137:C:H2'	34:BA:138:C:C6	2.34	0.63
34:BA:1796:A:H1'	34:BA:1798:G:H4'	1.79	0.63
34:BA:399:G:N1	36:BC:29:C:C4	2.67	0.63
34:BA:799:A:H8	34:BA:857:C:H5"	1.61	0.63
34:BA:941:G:C2	34:BA:951:C:C2	2.87	0.63
35:BB:1222:A:H3'	35:BB:1222:A:C8	2.33	0.63
35:BB:1372:G:C5	35:BB:1373:U:C5	2.87	0.63
34:BA:371:U:H1'	35:BB:489:A:C2	2.33	0.63
35:BB:657:A:C5	35:BB:658:G:C8	2.87	0.63
35:BB:706:G:C2	35:BB:776:U:C4	2.86	0.63
35:BB:7:C:H2'	35:BB:8:U:C6	2.33	0.63
36:BC:135:A:C2	36:BC:136:G:C4	2.87	0.63
38:BE:2:G:C6	38:BE:8:G:C8	2.87	0.63
39:BF:60:C:H2'	39:BF:62:U:C2	2.34	0.63
35:BB:653:G:OP2	40:BG:171:A:H1'	1.98	0.63
40:BG:31:G:C4	40:BG:175:G:N1	2.67	0.63
34:BA:544:U:C6	34:BA:544:U:H3'	2.33	0.63
34:BA:546:U:HO3'	34:BA:547:C:P	2.22	0.63
34:BA:561:U:O2	34:BA:562:C:C2	2.52	0.63
85:AA:2129:U:C4	85:AA:2130:G:C5	2.87	0.63
35:BB:799:A:N6	35:BB:976:U:C5	2.66	0.63
35:BB:872:A:C4	35:BB:963:G:C2	2.86	0.63
23:AP:239:LEU:CD1	25:AR:6:THR:HG22	2.29	0.63
85:AA:1727:U:H1'	85:AA:1816:C:C4	2.34	0.63
23:AP:74:HIS:CD2	23:AP:143:LYS:HD3	2.34	0.63
34:BA:140:C:C6	34:BA:140:C:O5'	2.52	0.63
34:BA:1566:G:C6	34:BA:1567:G:C6	2.86	0.63
34:BA:1691:G:C4	34:BA:1825:U:C6	2.86	0.63
34:BA:187:G:C2	34:BA:188:C:C2	2.87	0.63
34:BA:937:G:C5	34:BA:938:C:C5	2.86	0.63
34:BA:986:G:C2	34:BA:987:C:C2	2.86	0.63
35:BB:1098:G:C2	35:BB:1254:G:C6	2.87	0.63
35:BB:1335:G:C6	35:BB:1336:G:C6	2.86	0.63
41:BH:49:C:H4'	41:BH:50:A:C5	2.33	0.63
41:BH:73:A:H61	55:BV:60:ARG:CG	2.12	0.63
85:AA:244:G:C5	85:AA:245:A:C8	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2103:C:H2'	85:AA:2216:A:H61	1.63	0.63
85:AA:1718:C:H2'	85:AA:1719:C:H3'	1.81	0.63
35:BB:1003:G:N2	35:BB:1004:A:C4	2.67	0.63
40:BG:136:G:C5	40:BG:137:G:C8	2.87	0.63
85:AA:342:C:C6	85:AA:343:U:C4	2.87	0.63
34:BA:227:C:C2'	34:BA:228:A:H5'	2.28	0.63
34:BA:1572:G:C6	34:BA:1573:C:C4	2.87	0.62
34:BA:470:C:H2'	34:BA:471:U:C6	2.33	0.62
34:BA:764:G:N1	34:BA:769:U:C5	2.66	0.62
34:BA:40:A:C5	35:BB:1260:A:C6	2.86	0.62
35:BB:62:C:N3	35:BB:63:A:C6	2.67	0.62
35:BB:776:U:H3'	35:BB:777:C:C5	2.34	0.62
37:BD:98:G:C5	37:BD:99:G:C5	2.87	0.62
40:BG:9:G:N1	40:BG:15:G:N1	2.47	0.62
41:BH:44:A:C6	41:BH:45:G:C4	2.87	0.62
34:BA:740:A:O4'	47:BN:12:HIS:CG	2.50	0.62
34:BA:772:G:C8	47:BN:33:GLN:HB3	2.33	0.62
34:BA:631:G:C5	34:BA:632:U:C5	2.87	0.62
35:BB:969:C:C2	35:BB:970:C:C6	2.87	0.62
85:AA:1204:A:C5	85:AA:1205:U:C4	2.87	0.62
35:BB:531:U:H2'	35:BB:532:C:C6	2.34	0.62
85:AA:210:G:O6	85:AA:244:G:C4	2.51	0.62
32:AY:49:LEU:HB2	85:AA:557:G:H4'	1.80	0.62
85:AA:1731:G:H2'	85:AA:1732:G:C8	2.34	0.62
34:BA:1045:C:H2'	34:BA:1046:G:C8	2.34	0.62
34:BA:1656:A:C6	34:BA:1657:A:C5	2.87	0.62
34:BA:31:A:H2'	34:BA:32:A:C8	2.33	0.62
34:BA:480:G:C5	34:BA:481:A:C6	2.86	0.62
34:BA:742:C:C4	47:BN:10:HIS:CD2	2.87	0.62
35:BB:493:U:C4	35:BB:494:C:C5	2.88	0.62
36:BC:126:G:C4	36:BC:127:C:C6	2.87	0.62
39:BF:24:G:H3'	39:BF:25:G:N7	2.15	0.62
41:BH:1:U:H3'	41:BH:2:U:C5'	2.29	0.62
47:BN:171:ARG:HG3	47:BN:172:GLU:H	1.61	0.62
85:AA:1495:G:C5	85:AA:1496:U:C6	2.87	0.62
35:BB:832:C:H3'	35:BB:833:G:H8	1.64	0.62
34:BA:593:G:C5	34:BA:594:G:C2	2.88	0.62
34:BA:603:U:C5	34:BA:680:C:C6	2.87	0.62
85:AA:2095:U:H2'	85:AA:2096:G:C8	2.34	0.62
85:AA:887:A:C5	85:AA:889:G:C6	2.86	0.62
85:AA:396:U:H3'	85:AA:397:G:H8	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AC:212:TRP:CZ2	11:AC:234:LYS:HA	2.33	0.62
34:BA:575:U:C6	34:BA:579:U:N3	2.67	0.62
35:BB:406:A:C3'	35:BB:407:A:H2'	2.29	0.62
35:BB:312:U:H2'	35:BB:313:C:C6	2.35	0.62
29:AV:83:ILE:HG13	29:AV:84:HIS:H	1.64	0.62
35:BB:643:G:H2'	35:BB:644:A:C8	2.33	0.62
34:BA:1109:G:C5	34:BA:1110:A:C8	2.87	0.62
34:BA:1291:A:C2	34:BA:1292:A:C2	2.87	0.62
34:BA:1539:A:C6	34:BA:1568:A:C2	2.86	0.62
34:BA:1527:G:C6	34:BA:1581:G:C6	2.87	0.62
34:BA:1833:G:H2'	34:BA:1834:A:C8	2.35	0.62
34:BA:162:G:C6	34:BA:321:G:N7	2.67	0.62
34:BA:849:G:C2	34:BA:850:C:C5	2.88	0.62
35:BB:28:G:C5	35:BB:32:C:C5	2.86	0.62
35:BB:618:U:H2'	35:BB:619:A:C8	2.34	0.62
37:BD:46:G:C5	37:BD:47:U:C5	2.88	0.62
85:AA:465:A:H5'	85:AA:466:A:H5'	1.81	0.62
85:AA:42:G:C4	85:AA:502:A:C2	2.88	0.62
34:BA:625:U:H2'	34:BA:626:G:C8	2.34	0.62
35:BB:1026:G:C8	35:BB:1027:U:C5	2.87	0.62
35:BB:470:C:H2'	35:BB:471:U:C6	2.34	0.62
15:AG:77:HIS:CE1	85:AA:1107:A:N1	2.68	0.62
85:AA:1538:C:H2'	85:AA:1539:A:C8	2.34	0.62
34:BA:1087:A:N1	34:BA:1213:A:N1	2.47	0.62
34:BA:1431:G:C5	34:BA:1432:C:C5	2.87	0.62
34:BA:513:U:C4	34:BA:690:G:C2	2.87	0.62
35:BB:1382:U:C5	35:BB:1383:C:C5	2.87	0.62
49:BP:153:LYS:HA	49:BP:159:ALA:HB3	1.81	0.62
34:BA:1354:G:C8	34:BA:1356:C:H5"	2.34	0.62
34:BA:102:G:C5	34:BA:103:G:C8	2.87	0.62
34:BA:1502:G:C6	34:BA:1503:U:C6	2.87	0.62
34:BA:1686:G:H2'	34:BA:1687:A:C8	2.34	0.62
34:BA:704:G:C5	34:BA:705:C:C4	2.87	0.62
34:BA:908:G:C5	34:BA:909:G:C8	2.87	0.62
35:BB:1162:A:C2	35:BB:1201:G:C6	2.86	0.62
35:BB:1335:G:C6	35:BB:1336:G:C5	2.87	0.62
35:BB:602:G:C2	35:BB:607:G:C6	2.87	0.62
38:BE:144:A:C4	38:BE:145:A:C8	2.87	0.62
38:BE:152:U:H2'	38:BE:153:C:C5	2.35	0.62
38:BE:166:G:C6	38:BE:167:U:C4	2.87	0.62
38:BE:96:G:N1	38:BE:124:G:N1	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:25:G:C6	40:BG:181:C:C4	2.87	0.62
85:AA:2192:A:H2'	85:AA:2193:A:C8	2.34	0.62
85:AA:929:G:H2'	85:AA:930:G:C8	2.34	0.62
34:BA:1208:U:C6	34:BA:1210:A:C5	2.88	0.62
34:BA:607:C:C6	34:BA:607:C:O5'	2.51	0.62
35:BB:666:A:H2'	35:BB:667:G:C8	2.35	0.62
35:BB:1521:G:C2	35:BB:1547:U:C2	2.87	0.62
85:AA:1286:C:C4	85:AA:1287:C:C5	2.87	0.62
85:AA:1293:U:C4	85:AA:1294:U:C6	2.87	0.62
85:AA:1515:A:C4	85:AA:1516:A:C8	2.88	0.62
85:AA:309:G:C6	85:AA:310:U:C4	2.88	0.62
85:AA:367:A:H3'	85:AA:368:C:C5	2.34	0.62
85:AA:380:C:C2	85:AA:421:G:C2	2.88	0.62
85:AA:1437:G:H2'	85:AA:1438:C:C6	2.34	0.62
35:BB:1479:C:C4	35:BB:1480:G:C5	2.88	0.62
35:BB:14:C:C4	35:BB:15:C:C4	2.87	0.62
34:BA:1007:G:C8	34:BA:1024:A:C4	2.88	0.62
34:BA:1097:G:C2	35:BB:1084:A:C5	2.88	0.62
34:BA:1186:U:C6	34:BA:1189:A:N7	2.67	0.62
34:BA:1454:G:N2	34:BA:1455:C:C2	2.67	0.62
34:BA:702:G:H2'	34:BA:703:U:C6	2.33	0.62
34:BA:850:C:C4	34:BA:851:C:C4	2.88	0.62
35:BB:1118:G:C6	35:BB:1119:G:C5	2.87	0.62
35:BB:129:U:H3	35:BB:374:A:H61	1.48	0.62
35:BB:603:U:C5	35:BB:604:C:C5	2.86	0.62
40:BG:33:G:H1	40:BG:169:A:C5'	2.13	0.62
41:BH:131:A:C4	41:BH:132:C:C6	2.88	0.62
41:BH:29:G:C6	41:BH:30:C:C6	2.88	0.62
41:BH:34:G:C2	41:BH:35:G:C4	2.87	0.62
85:AA:132:G:C2	85:AA:139:G:C2	2.87	0.62
85:AA:2193:A:C6	85:AA:2194:U:C4	2.87	0.62
34:BA:613:A:C2	34:BA:614:A:C4	2.88	0.62
6:A5:183:ARG:HG3	41:BH:93:G:O5'	1.97	0.62
35:BB:471:U:H2'	35:BB:472:C:C5	2.34	0.62
85:AA:956:C:H3'	85:AA:957:A:H4'	1.82	0.62
85:AA:1584:U:H1'	85:AA:1585:A:C5	2.34	0.62
21:AM:138:CYS:HB2	85:AA:1898:C:C4	2.35	0.62
34:BA:595:U:C5	34:BA:1488:C:OP2	2.52	0.62
85:AA:1450:U:C5	85:AA:1451:U:C4	2.87	0.62
3:A2:46:ARG:HA	3:A2:49:LYS:HE2	1.82	0.62
35:BB:1003:G:H1	35:BB:1015:U:H3	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:434:A:C2	35:BB:435:A:C4	2.87	0.62
35:BB:474:G:C5	35:BB:475:A:C5	2.88	0.62
34:BA:690:G:H1'	34:BA:691:A:C2	2.35	0.62
44:BK:62:SER:HA	44:BK:65:LEU:HD12	1.80	0.62
16:AH:43:ARG:HH21	85:AA:1144:G:H5'	1.65	0.62
35:BB:676:G:C6	35:BB:678:U:C4	2.88	0.62
5:A4:148:ARG:HB2	5:A4:152:SER:H	1.65	0.62
34:BA:115:U:H5"	34:BA:327:G:C2	2.35	0.62
34:BA:1513:G:H2'	34:BA:1514:A:C8	2.34	0.62
34:BA:325:A:H2'	34:BA:326:A:C4'	2.30	0.62
34:BA:108:A:C4	34:BA:386:A:C6	2.87	0.62
34:BA:400:A:C2	36:BC:28:C:N3	2.67	0.62
34:BA:474:A:C2	34:BA:475:A:C2	2.87	0.62
34:BA:483:A:H5'	34:BA:484:A:H5"	1.82	0.62
35:BB:1536:G:H8	35:BB:1536:G:H5"	1.64	0.62
34:BA:481:A:C2	36:BC:7:U:N3	2.68	0.62
37:BD:110:G:C6	37:BD:111:U:C4	2.88	0.62
50:BQ:28:TRP:HE1	50:BQ:61:ARG:HG2	1.63	0.62
85:AA:162:A:C2	85:AA:485:A:H4'	2.35	0.62
34:BA:610:A:C6	34:BA:611:A:C5	2.87	0.62
85:AA:1115:G:H1'	85:AA:1214:C:C6	2.35	0.62
85:AA:1120:G:H1	85:AA:1205:U:H3	1.45	0.62
85:AA:1139:G:C2	85:AA:1172:A:C2	2.87	0.62
34:BA:268:U:H4'	59:BZ:97:HIS:CD2	2.34	0.62
34:BA:679:U:C6	34:BA:680:C:C4	2.87	0.62
34:BA:718:U:C4	34:BA:719:G:C5	2.87	0.62
35:BB:1408:G:C6	35:BB:1437:U:C4	2.87	0.62
35:BB:1527:A:C2	35:BB:1528:U:H1'	2.34	0.62
35:BB:1541:G:C2	35:BB:1542:C:C2	2.88	0.62
85:AA:1451:U:C5	85:AA:1452:C:C4	2.87	0.62
34:BA:1289:C:H2'	34:BA:1290:A:C2	2.34	0.62
85:AA:764:U:H3'	85:AA:767:A:C6	2.34	0.62
34:BA:1431:G:C5	34:BA:1432:C:C4	2.87	0.62
3:A2:190:ARG:HG2	16:AH:65:TYR:CZ	2.34	0.62
34:BA:111:U:C5	34:BA:383:G:C2	2.87	0.62
34:BA:1722:U:H4'	34:BA:1723:U:H5'	1.80	0.62
34:BA:489:A:C6	34:BA:490:A:C4	2.88	0.62
35:BB:125:G:C6	35:BB:126:C:C4	2.88	0.62
35:BB:129:U:C2	35:BB:375:G:C2	2.87	0.62
35:BB:124:G:N1	35:BB:380:G:C5	2.68	0.62
35:BB:72:G:C6	35:BB:73:G:C6	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:68:A:C6	36:BC:91:G:C6	2.88	0.62
38:BE:104:G:C5	38:BE:105:A:C5	2.87	0.62
57:BX:80:ASP:CG	57:BX:81:ALA:H	2.02	0.62
85:AA:2180:C:H3'	85:AA:2181:G:C8	2.34	0.62
85:AA:2192:A:C2	85:AA:2193:A:C4	2.88	0.62
85:AA:35:U:C6	85:AA:35:U:H5"	2.35	0.62
85:AA:48:G:C2	85:AA:497:G:H1'	2.35	0.62
5:A4:3:ALA:HB3	5:A4:30:PHE:CD1	2.34	0.62
85:AA:1877:G:H2'	85:AA:1878:C:C6	2.34	0.62
34:BA:283:U:C6	34:BA:284:U:C4	2.87	0.62
34:BA:521:C:C5	34:BA:522:C:C2	2.88	0.62
85:AA:790:A:H5'	85:AA:792:A:H1'	1.81	0.62
35:BB:434:A:C5	35:BB:435:A:C6	2.87	0.62
35:BB:1401:G:N7	35:BB:1402:U:C4	2.67	0.62
35:BB:1382:U:C5	35:BB:1383:C:C4	2.87	0.62
42:BI:154:GLU:O	42:BI:158:HIS:CE1	2.53	0.62
34:BA:143:A:H4'	34:BA:144:C:H5'	1.80	0.62
8:A7:97:GLN:CD	8:A7:97:GLN:H	2.03	0.62
34:BA:1197:U:H2'	34:BA:1201:G:C8	2.35	0.62
34:BA:146:G:C6	34:BA:147:U:C6	2.87	0.62
34:BA:1699:A:C6	34:BA:1700:C:C5	2.87	0.62
34:BA:708:C:H2'	34:BA:709:C:C6	2.35	0.62
35:BB:1079:G:C5	35:BB:1080:U:C5	2.88	0.62
35:BB:93:A:H3'	35:BB:94:A:C8	2.34	0.62
38:BE:96:G:N2	38:BE:125:C:C2	2.68	0.62
38:BE:149:A:N1	38:BE:163:A:N1	2.48	0.62
38:BE:74:U:C4	38:BE:75:C:C2	2.87	0.62
40:BG:72:G:C6	40:BG:126:G:C6	2.88	0.62
34:BA:561:U:C2'	34:BA:562:C:C6	2.73	0.62
85:AA:2133:A:C2	85:AA:2186:U:C2	2.88	0.62
85:AA:639:C:C2	85:AA:650:G:C6	2.88	0.62
35:BB:817:C:C4	35:BB:818:U:C2	2.88	0.62
35:BB:975:G:C2	35:BB:976:U:C4	2.87	0.62
34:BA:1239:G:C5	34:BA:1240:G:C6	2.88	0.62
85:AA:989:U:H4'	85:AA:991:G:C8	2.34	0.62
85:AA:438:G:C2	85:AA:439:U:C6	2.87	0.62
85:AA:1153:G:H3'	85:AA:1153:G:C8	2.33	0.62
34:BA:1163:G:C6	34:BA:1164:C:C4	2.88	0.62
35:BB:1431:G:C5	35:BB:1432:U:C5	2.88	0.62
34:BA:1140:A:H5'	34:BA:1141:C:OP2	2.00	0.62
85:AA:1001:G:C6	85:AA:1002:G:C5	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:721:A:H2'	34:BA:722:A:C8	2.35	0.62
5:A4:145:TRP:CG	5:A4:155:MET:HA	2.35	0.62
35:BB:605:C:H2'	35:BB:606:C:C4	2.35	0.62
85:AA:851:G:H2'	85:AA:852:C:C6	2.34	0.62
34:BA:1458:A:C5	34:BA:1460:U:C5	2.88	0.62
34:BA:1484:A:C4	34:BA:1502:G:C2	2.88	0.62
34:BA:1614:G:O6	34:BA:1616:A:C4	2.52	0.62
34:BA:166:G:H22	34:BA:324:C:H41	1.48	0.62
34:BA:373:G:C6	34:BA:374:U:C4	2.88	0.62
34:BA:398:G:C2	36:BC:30:U:C2	2.88	0.62
34:BA:412:G:C6	34:BA:413:A:C6	2.87	0.62
34:BA:759:A:C2	34:BA:760:G:C4	2.88	0.62
34:BA:798:G:C4	34:BA:800:G:C8	2.88	0.62
35:BB:1143:A:C5	35:BB:1144:A:C5	2.87	0.62
35:BB:1219:A:C4	35:BB:1220:A:C8	2.87	0.62
35:BB:1291:G:C6	35:BB:1314:G:C5	2.88	0.62
35:BB:1359:G:H3'	35:BB:1360:A:C8	2.35	0.62
35:BB:5:A:H1'	38:BE:11:A:C2	2.35	0.62
41:BH:39:G:C2	41:BH:40:C:C2	2.88	0.62
6:A5:22:ARG:HH11	85:AA:450:A:C5'	2.12	0.62
85:AA:506:G:C6	85:AA:534:A:C6	2.88	0.62
35:BB:846:A:C2	35:BB:847:U:O4'	2.52	0.62
85:AA:879:G:C6	85:AA:880:A:C6	2.87	0.62
85:AA:928:U:C4	85:AA:929:G:C6	2.87	0.62
85:AA:1535:C:C6	85:AA:2049:U:OP2	2.53	0.62
85:AA:1153:G:C8	85:AA:1154:A:C4	2.88	0.62
34:BA:529:A:C6	34:BA:583:G:C6	2.88	0.62
85:AA:1792:C:C4'	85:AA:1793:A:H5'	2.30	0.62
35:BB:1070:G:C5	35:BB:1071:G:C8	2.88	0.62
35:BB:1483:A:H3'	35:BB:1484:A:C8	2.34	0.62
34:BA:835:U:C5	34:BA:836:U:C6	2.88	0.62
1:A0:115:LEU:HD13	1:A0:213:ARG:HH22	1.64	0.62
85:AA:1588:A:C2	85:AA:1892:G:C2	2.88	0.62
5:A4:12:LYS:HA	5:A4:15:ARG:HA	1.80	0.62
34:BA:1307:U:H3'	34:BA:1309:U:H5"	1.82	0.62
34:BA:161:U:C5	34:BA:165:C:C2	2.87	0.62
34:BA:1838:U:H2'	34:BA:1839:G:C8	2.35	0.62
34:BA:331:G:H5'	50:BQ:137:TRP:CE3	2.34	0.62
34:BA:482:C:C2	36:BC:6:G:C2	2.87	0.62
35:BB:1105:G:C6	35:BB:1106:G:C5	2.88	0.62
35:BB:694:C:H2'	35:BB:695:U:C6	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:9:G:C2	35:BB:10:C:C2	2.88	0.62
41:BH:110:C:C4	41:BH:111:U:C4	2.88	0.62
41:BH:38:G:N1	41:BH:113:G:N1	2.48	0.62
85:AA:135:C:C5	85:AA:137:C:O2	2.53	0.62
85:AA:20:G:H5"	85:AA:645:C:C2	2.33	0.62
85:AA:684:G:C6	85:AA:688:C:C2	2.88	0.62
15:AG:123:HIS:CB	34:BA:945:A:C2	2.83	0.62
85:AA:931:G:H2'	85:AA:932:A:C8	2.35	0.62
85:AA:1548:A:H2'	85:AA:1549:G:C8	2.35	0.62
34:BA:1488:C:C6	34:BA:1489:U:C5	2.87	0.62
85:AA:2177:C:H2'	85:AA:2178:A:C8	2.35	0.62
85:AA:2141:G:C2	85:AA:2178:A:C2	2.88	0.62
85:AA:704:A:C4	85:AA:1219:A:C5	2.88	0.62
13:AE:141:VAL:HG12	13:AE:155:VAL:HA	1.81	0.62
35:BB:1208:G:C6	35:BB:1253:U:H3'	2.35	0.62
85:AA:1857:G:C6	85:AA:1858:G:C5	2.88	0.62
5:A4:178:TYR:HA	5:A4:181:LEU:HD12	1.82	0.62
34:BA:1113:A:H2	44:BK:196:HIS:CE1	2.17	0.61
34:BA:1616:A:H4'	34:BA:1617:U:C4	2.35	0.61
34:BA:1659:G:H3'	34:BA:1660:A:C2	2.35	0.61
34:BA:19:G:C8	34:BA:1716:A:C2	2.87	0.61
34:BA:471:U:C2	36:BC:16:A:N6	2.68	0.61
34:BA:891:C:H2'	34:BA:892:C:C6	2.34	0.61
34:BA:1603:A:C6	35:BB:33:A:C4	2.88	0.61
35:BB:650:A:H2'	35:BB:651:G:H8	1.65	0.61
38:BE:124:G:C4	38:BE:125:C:C6	2.88	0.61
38:BE:64:A:C6	38:BE:141:A:N7	2.68	0.61
41:BH:25:A:C6	41:BH:128:G:H2'	2.35	0.61
58:BY:83:GLU:CA	85:AA:2161:C:H4'	2.29	0.61
34:BA:613:A:N1	34:BA:668:G:H1'	2.14	0.61
85:AA:1206:A:H2'	85:AA:1207:C:C6	2.35	0.61
85:AA:944:C:H3'	85:AA:945:A:C5'	2.30	0.61
85:AA:1867:G:C2	85:AA:1868:G:C4	2.87	0.61
34:BA:520:G:N1	34:BA:684:G:C6	2.66	0.61
34:BA:679:U:H3'	34:BA:680:C:C6	2.34	0.61
85:AA:245:A:C6	85:AA:246:C:C4	2.88	0.61
35:BB:1401:G:C8	35:BB:1402:U:C5	2.87	0.61
85:AA:767:A:H2'	85:AA:768:C:C6	2.35	0.61
34:BA:580:U:H3'	34:BA:581:U:H4'	1.82	0.61
34:BA:1437:G:C5	34:BA:1438:C:C4	2.87	0.61
34:BA:909:G:C5	34:BA:910:U:C5	2.87	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1269:A:C5	35:BB:1270:C:C5	2.88	0.61
35:BB:681:G:C5	35:BB:682:U:C4	2.88	0.61
36:BC:11:G:C6	36:BC:12:A:C5	2.88	0.61
38:BE:49:A:C2	38:BE:50:G:C4	2.87	0.61
38:BE:97:G:N2	38:BE:123:A:C2	2.69	0.61
85:AA:2121:G:C2'	85:AA:2122:A:C8	2.82	0.61
35:BB:809:U:H3'	35:BB:809:U:C6	2.35	0.61
85:AA:1216:A:H2'	85:AA:1217:U:O4'	2.00	0.61
85:AA:702:G:C6	85:AA:1218:C:C5	2.88	0.61
35:BB:1165:A:H2'	35:BB:1167:C:C6	2.35	0.61
85:AA:1128:G:H1	85:AA:1198:U:H3	1.47	0.61
85:AA:927:A:C2	85:AA:928:U:C2	2.88	0.61
35:BB:1404:A:C5'	35:BB:1405:G:H5'	2.30	0.61
85:AA:2148:C:C2	85:AA:2149:C:C6	2.88	0.61
36:BC:168:C:N3	36:BC:169:G:C5	2.68	0.61
85:AA:419:A:C4	85:AA:420:C:C6	2.88	0.61
85:AA:1856:G:C2	85:AA:1857:G:H1'	2.35	0.61
34:BA:1702:G:C5	34:BA:1703:A:C6	2.88	0.61
35:BB:430:A:C2	35:BB:441:G:C2	2.88	0.61
35:BB:636:G:C6	35:BB:637:G:C6	2.88	0.61
35:BB:1382:U:C4	35:BB:1383:C:C2	2.88	0.61
85:AA:1595:G:C6	85:AA:1883:C:N3	2.68	0.61
85:AA:2153:G:C2	85:AA:2154:C:C2	2.87	0.61
34:BA:1474:G:C6	34:BA:1475:G:C5	2.88	0.61
34:BA:1618:A:C4	34:BA:1632:G:C5	2.87	0.61
34:BA:108:A:C5	34:BA:386:A:C4	2.89	0.61
34:BA:754:G:C6	34:BA:755:G:C5	2.88	0.61
35:BB:108:G:H2'	35:BB:109:U:C6	2.35	0.61
35:BB:9:G:H2'	35:BB:10:C:C6	2.35	0.61
36:BC:113:G:C5	36:BC:114:C:C5	2.88	0.61
36:BC:54:G:C5	36:BC:55:U:C6	2.88	0.61
38:BE:23:G:C2	38:BE:25:U:C5	2.88	0.61
41:BH:111:U:C5	41:BH:112:U:C4	2.87	0.61
85:AA:2127:G:C6	85:AA:2192:A:C6	2.88	0.61
85:AA:493:A:C2	85:AA:494:G:H1'	2.35	0.61
35:BB:546:A:C5	35:BB:550:G:C2	2.88	0.61
35:BB:1195:A:H2'	35:BB:1196:A:C8	2.35	0.61
34:BA:604:G:OP2	34:BA:605:G:C6	2.54	0.61
35:BB:666:A:C5	35:BB:667:G:C5	2.87	0.61
35:BB:361:A:C5	35:BB:362:A:C5	2.88	0.61
85:AA:1466:U:C4'	85:AA:1466:U:C6	2.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:51:C:C2	39:BF:52:A:H8	2.19	0.61
34:BA:588:C:O2	34:BA:589:A:C5	2.54	0.61
34:BA:1118:C:H2'	34:BA:1119:A:H5"	1.82	0.61
34:BA:990:G:C4	34:BA:991:U:C5	2.88	0.61
35:BB:406:A:C4	47:BN:3:LYS:HG3	63.92	0.61
35:BB:1332:G:C5	35:BB:1403:G:C5	2.88	0.61
35:BB:863:U:C6	35:BB:864:U:C6	2.88	0.61
42:BI:114:LYS:HG3	42:BI:115:SER:H	1.65	0.61
85:AA:771:A:N3	85:AA:772:C:C5	2.68	0.61
34:BA:442:G:C5	34:BA:467:A:C2	2.87	0.61
34:BA:707:C:H2'	34:BA:708:C:C6	2.36	0.61
35:BB:785:G:C5	35:BB:1036:G:C2	2.88	0.61
35:BB:1109:A:H2'	35:BB:1110:G:C8	2.36	0.61
35:BB:375:G:C6	35:BB:376:A:C5	2.89	0.61
35:BB:62:C:C4	35:BB:63:A:C6	2.89	0.61
37:BD:16:U:C2	37:BD:64:A:C2	2.89	0.61
38:BE:194:A:C8	38:BE:195:G:C8	2.89	0.61
40:BG:97:G:H3'	40:BG:98:A:C8	2.36	0.61
34:BA:542:A:C2	34:BA:543:A:C4	2.88	0.61
34:BA:565:U:C4	34:BA:566:G:N7	2.68	0.61
85:AA:55:A:C4	85:AA:491:G:C2	2.88	0.61
85:AA:597:A:C5	85:AA:598:C:C6	2.88	0.61
34:BA:617:G:H2'	34:BA:618:G:C8	2.35	0.61
85:AA:1180:C:H2'	85:AA:1181:U:C4	2.35	0.61
85:AA:1545:U:H3'	85:AA:1546:G:C8	2.35	0.61
17:AI:133:VAL:HB	85:AA:1897:A:H2'	1.83	0.61
34:BA:263:G:C6	34:BA:273:G:C5	2.87	0.61
35:BB:1406:C:H2'	35:BB:1407:U:C6	2.35	0.61
85:AA:1670:U:O5'	85:AA:1670:U:H6	1.84	0.61
85:AA:2105:G:C6	85:AA:2106:C:C4	2.89	0.61
85:AA:289:G:C2'	85:AA:290:G:H5'	2.30	0.61
85:AA:777:U:C5	85:AA:778:C:C5	2.88	0.61
85:AA:81:A:C8	85:AA:82:A:C5	2.87	0.61
42:BI:193:LYS:C	42:BI:193:LYS:HZ3	2.04	0.61
35:BB:314:A:H3'	35:BB:315:C:C6	2.35	0.61
34:BA:1009:G:C2	34:BA:1010:C:C2	2.88	0.61
34:BA:1186:U:H6	34:BA:1189:A:N7	1.98	0.61
34:BA:1230:G:C6	34:BA:1231:C:C4	2.89	0.61
34:BA:411:C:C2	34:BA:413:A:C6	2.88	0.61
34:BA:754:G:C2	34:BA:755:G:C4	2.88	0.61
34:BA:772:G:C8	47:BN:34:PRO:HD3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:774:A:C6	34:BA:775:C:C4	2.88	0.61
34:BA:892:C:H2'	34:BA:893:U:H6	1.65	0.61
34:BA:919:A:H2'	34:BA:920:U:C6	2.35	0.61
34:BA:87:G:C6	34:BA:96:G:C4	2.88	0.61
35:BB:1209:A:H2'	35:BB:1210:U:C6	2.35	0.61
35:BB:124:G:H2'	35:BB:125:G:C8	2.35	0.61
35:BB:1209:A:C5	35:BB:1258:G:C4	2.88	0.61
35:BB:1464:G:O5'	35:BB:1464:G:C8	2.53	0.61
36:BC:103:A:C8	36:BC:104:A:C8	2.89	0.61
38:BE:101:C:C5	38:BE:117:A:C6	2.88	0.61
41:BH:29:G:C8	41:BH:29:G:H3'	2.34	0.61
34:BA:542:A:C2	34:BA:543:A:N9	2.69	0.61
85:AA:172:A:C5	85:AA:173:A:C2	2.88	0.61
85:AA:126:U:C4	85:AA:182:C:H5"	2.36	0.61
85:AA:2132:A:C6	85:AA:2187:G:C6	2.89	0.61
85:AA:36:U:H3	85:AA:542:G:H1	1.47	0.61
85:AA:684:G:N2	85:AA:1485:G:H1	1.98	0.61
85:AA:925:G:C5	85:AA:926:C:C5	2.88	0.61
35:BB:793:A:C6	35:BB:794:G:C5	2.87	0.61
35:BB:850:U:C5	35:BB:854:G:H1'	2.35	0.61
35:BB:1208:G:C5	35:BB:1253:U:C6	2.88	0.61
35:BB:576:A:C1'	35:BB:1420:U:H4'	2.30	0.61
85:AA:811:A:C2	85:AA:867:G:C5	2.88	0.61
85:AA:344:U:C5	85:AA:345:U:C4	2.88	0.61
56:BW:79:VAL:HG11	56:BW:128:TRP:CE2	2.36	0.61
34:BA:1123:G:C5	34:BA:1124:U:C6	2.88	0.61
6:A5:186:ALA:HA	6:A5:203:LEU:H	1.66	0.61
27:AT:93:GLU:CD	27:AT:98:LYS:HA	2.20	0.61
6:A5:120:ASP:CG	6:A5:121:LEU:H	2.03	0.61
34:BA:132:U:C2	34:BA:133:A:C5	2.88	0.61
34:BA:1545:C:H2'	34:BA:1546:C:C6	2.36	0.61
34:BA:1585:A:C4	34:BA:1587:C:H1'	2.35	0.61
34:BA:501:U:H2'	34:BA:502:U:H5'	1.83	0.61
34:BA:785:G:C4	34:BA:786:U:C5	2.88	0.61
35:BB:1220:A:C3'	35:BB:1220:A:C8	2.84	0.61
35:BB:125:G:C4	35:BB:126:C:C5	2.88	0.61
35:BB:1269:A:C6	35:BB:1270:C:C4	2.88	0.61
36:BC:133:C:C5	36:BC:134:G:H1'	2.36	0.61
38:BE:122:G:C6	38:BE:123:A:C5	2.88	0.61
38:BE:13:A:H3'	38:BE:14:C:C6	2.35	0.61
39:BF:62:U:H1'	39:BF:63:U:C2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:31:G:N1	40:BG:174:G:N1	2.49	0.61
85:AA:151:A:H3'	85:AA:152:A:C8	2.36	0.61
85:AA:453:G:H2'	85:AA:454:G:C8	2.35	0.61
6:A5:106:ALA:HB3	6:A5:182:GLY:HA2	1.81	0.61
34:BA:195:G:O6	34:BA:289:A:C6	2.54	0.61
34:BA:293:A:H2'	34:BA:294:C:C6	2.35	0.61
27:AT:10:VAL:HG23	27:AT:36:GLY:O	2.00	0.61
85:AA:1462:A:C6	85:AA:1463:A:C6	2.88	0.61
85:AA:2229:G:H3'	85:AA:2230:U:C5	2.36	0.61
85:AA:1618:G:H3'	85:AA:1619:A:C8	2.36	0.61
36:BC:168:C:N3	36:BC:169:G:C6	2.68	0.61
85:AA:429:G:C5	85:AA:430:G:H1'	2.35	0.61
35:BB:996:G:C6	35:BB:997:G:C5	2.87	0.61
34:BA:623:U:H4'	54:BU:137:PHE:CZ	2.35	0.61
85:AA:1244:A:C6	85:AA:1245:U:C4	2.88	0.61
54:BU:56:TYR:HB3	54:BU:57:TYR:CE1	2.36	0.61
35:BB:609:G:C6	35:BB:610:U:C4	2.88	0.61
85:AA:1090:A:H2'	85:AA:1091:C:C5	2.35	0.61
23:AP:188:ILE:HG23	23:AP:206:VAL:O	2.00	0.61
85:AA:1731:G:C2	85:AA:1732:G:C5	2.88	0.61
35:BB:52:G:H2'	35:BB:53:C:C6	2.35	0.61
34:BA:1310:C:C4	34:BA:1311:G:C5	2.88	0.61
34:BA:1506:C:H2'	34:BA:1507:C:C6	2.36	0.61
34:BA:1553:G:N1	34:BA:1557:G:C6	2.69	0.61
35:BB:489:A:C2	35:BB:490:G:C4	2.89	0.61
35:BB:81:A:C6	35:BB:82:G:C6	2.87	0.61
40:BG:160:C:C2	40:BG:161:C:C5	2.88	0.61
34:BA:740:A:N7	47:BN:10:HIS:CD2	2.69	0.61
85:AA:180:A:C2	85:AA:333:A:C8	2.88	0.61
85:AA:180:A:C5	85:AA:333:A:OP2	2.54	0.61
85:AA:355:G:C5	85:AA:356:U:C5	2.88	0.61
29:AV:19:ARG:CZ	85:AA:1190:G:H5"	2.31	0.61
35:BB:975:G:N1	35:BB:976:U:C4	2.69	0.61
85:AA:1121:U:C4	85:AA:1122:U:C4	2.89	0.61
35:BB:465:C:H4'	35:BB:466:A:C8	2.35	0.61
35:BB:529:A:C4	85:AA:2111:C:O2'	2.53	0.61
85:AA:1171:C:H2'	85:AA:1172:A:C8	2.34	0.61
85:AA:1927:G:H1	85:AA:1984:A:H61	1.48	0.61
85:AA:2142:A:N1	85:AA:2176:U:C2	2.69	0.61
85:AA:2080:U:C2	85:AA:2081:A:C8	2.88	0.61
85:AA:402:G:C4	85:AA:404:A:C8	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1018:G:H1	85:AA:1050:C:N4	1.98	0.61
48:BO:46:LEU:HD11	48:BO:112:ARG:HH21	1.66	0.61
85:AA:842:G:H2'	85:AA:843:U:C6	2.35	0.61
34:BA:1016:A:C5	34:BA:1017:C:C4	2.88	0.61
34:BA:1297:G:C5	49:BP:19:PRO:HD3	2.36	0.61
34:BA:1618:A:C2	34:BA:1632:G:C2	2.89	0.61
34:BA:60:A:C5	34:BA:61:G:C5	2.89	0.61
34:BA:749:G:C6	34:BA:888:G:C4	2.88	0.61
35:BB:1079:G:C6	35:BB:1080:U:C4	2.89	0.61
35:BB:1081:U:O4	54:BU:3:HIS:CE1	2.54	0.61
35:BB:607:G:C8	35:BB:607:G:H5"	2.35	0.61
34:BA:56:G:C6	36:BC:33:U:O4	2.54	0.61
40:BG:127:G:N1	40:BG:163:G:N1	2.49	0.61
40:BG:176:G:C5	40:BG:177:U:C5	2.89	0.61
40:BG:25:G:H3'	40:BG:25:G:C8	2.36	0.61
49:BP:29:ASP:HB2	49:BP:37:LEU:HD23	1.81	0.61
34:BA:464:U:C5	51:BR:3:HIS:CD2	2.89	0.61
85:AA:156:G:C6	85:AA:157:G:C8	2.89	0.61
85:AA:26:A:C4	85:AA:27:U:C5	2.89	0.61
85:AA:659:A:C2	85:AA:660:G:C8	2.88	0.61
35:BB:804:U:C4	35:BB:805:G:C4	2.89	0.61
35:BB:869:G:H2'	35:BB:870:C:C5	2.35	0.61
85:AA:1209:U:H2'	85:AA:1210:U:C6	2.36	0.61
85:AA:1897:A:C2	85:AA:1898:C:C4	2.89	0.61
34:BA:273:G:C6	34:BA:274:C:C4	2.89	0.61
85:AA:1696:U:H3'	85:AA:1697:C:C6	2.35	0.61
85:AA:2228:G:H2'	85:AA:2229:G:C8	2.35	0.61
85:AA:274:A:C2	85:AA:975:G:C5	2.87	0.61
85:AA:1486:G:C5	85:AA:1487:G:C8	2.88	0.61
23:AP:175:VAL:HG11	23:AP:223:ALA:CB	2.31	0.61
34:BA:1339:G:H3'	34:BA:1340:G:H5"	1.81	0.61
85:AA:1648:G:H2'	85:AA:1649:U:C6	2.35	0.61
57:BX:132:VAL:HG22	57:BX:146:ILE:HG22	1.82	0.61
34:BA:1293:A:C5	34:BA:1454:G:N2	2.69	0.61
34:BA:1321:A:H1'	35:BB:1314:G:H4'	1.83	0.61
34:BA:1637:G:C2	34:BA:1638:U:C2	2.89	0.61
34:BA:1736:A:C6	34:BA:1737:A:C5	2.89	0.61
34:BA:248:G:C8	34:BA:437:G:N3	2.68	0.61
34:BA:485:C:H2'	34:BA:486:G:C8	2.36	0.61
34:BA:501:U:C4	34:BA:1548:A:C8	2.89	0.61
34:BA:739:A:C2	47:BN:11:VAL:HG23	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:804:G:O6	34:BA:805:A:C2	2.53	0.61
35:BB:1209:A:C6	35:BB:1210:U:C4	2.88	0.61
35:BB:1369:A:H4'	35:BB:1370:G:C8	2.35	0.61
35:BB:34:G:C6	35:BB:35:G:C5	2.89	0.61
37:BD:34:C:C5	37:BD:35:C:C5	2.89	0.61
34:BA:125:G:C5'	50:BQ:158:ALA:HB2	2.31	0.61
38:BE:106:C:H3'	53:BT:121:ARG:NH2	2.15	0.61
4:A3:3:LEU:O	4:A3:15:GLN:HA	2.01	0.61
85:AA:108:C:N3	85:AA:369:A:C2	2.69	0.61
4:A3:60:GLU:N	85:AA:159:G:H4'	2.15	0.61
85:AA:180:A:H2	85:AA:333:A:C8	2.19	0.61
85:AA:356:U:C4	85:AA:357:C:C5	2.88	0.61
85:AA:697:G:H3'	85:AA:698:G:H5"	1.81	0.61
85:AA:2004:U:C3'	85:AA:2005:U:H4'	2.31	0.61
34:BA:290:G:C5	34:BA:291:C:C5	2.88	0.61
34:BA:293:A:C5	34:BA:294:C:C4	2.89	0.61
85:AA:309:G:C6	85:AA:317:A:C6	2.89	0.61
1:A0:101:GLN:O	1:A0:103:HIS:CE1	2.53	0.61
85:AA:739:C:C6	85:AA:739:C:H3'	2.35	0.61
85:AA:737:G:OP1	85:AA:740:A:C8	2.53	0.61
86:AB:11:C:H42	86:AB:24:G:H1	1.49	0.61
1:A0:140:PHE:HB3	1:A0:215:ARG:HE	1.66	0.61
3:A2:129:PRO:HD3	33:AZ:90:LEU:HD12	1.82	0.61
34:BA:1007:G:C4	34:BA:1024:A:C6	2.89	0.61
34:BA:1435:A:C8	34:BA:1437:G:C8	2.89	0.61
34:BA:1472:G:C2	34:BA:1511:C:C2	2.88	0.61
34:BA:1557:G:C5	34:BA:1558:C:C4	2.89	0.61
34:BA:1617:U:C6	34:BA:1617:U:H3'	2.36	0.61
34:BA:169:C:C2	34:BA:320:G:C6	2.89	0.61
34:BA:342:U:C4	34:BA:348:U:C4	2.88	0.61
34:BA:108:A:C6	34:BA:386:A:C4	2.89	0.61
35:BB:1087:A:C6	35:BB:1088:C:C4	2.89	0.61
35:BB:1162:A:C2	35:BB:1201:G:C5	2.89	0.61
35:BB:1299:G:H3'	35:BB:1302:C:H42	1.66	0.61
37:BD:106:G:C6	37:BD:107:G:C6	2.89	0.61
37:BD:89:G:C4	37:BD:90:A:C6	2.89	0.61
38:BE:64:A:C2	38:BE:140:G:C2	2.89	0.61
39:BF:64:U:OP1	39:BF:65:U:C4	2.54	0.61
47:BN:163:VAL:HG22	47:BN:164:GLY:H	1.65	0.61
38:BE:160:C:N4	53:BT:46:LYS:HB2	2.16	0.61
58:BY:10:HIS:HB2	58:BY:57:ARG:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:80:VAL:HG22	85:AA:2162:G:O2'	2.01	0.61
34:BA:542:A:C2	34:BA:566:G:C2	2.89	0.61
85:AA:685:U:C4	85:AA:686:U:C4	2.88	0.61
35:BB:823:G:N1	35:BB:824:C:C2	2.69	0.61
35:BB:834:U:C6	35:BB:834:U:OP2	2.54	0.61
35:BB:837:A:OP2	35:BB:838:G:C6	2.54	0.61
85:AA:2036:A:C4	85:AA:2037:A:C8	2.89	0.61
85:AA:1909:C:H2'	85:AA:2039:G:H4'	1.83	0.61
34:BA:194:G:H8	34:BA:195:G:H3'	1.66	0.61
85:AA:1961:U:H2'	85:AA:1962:U:C6	2.36	0.61
34:BA:720:A:C5	34:BA:724:A:C5	2.89	0.61
34:BA:595:U:C5	34:BA:1487:U:H3'	2.35	0.61
51:BR:82:ARG:HA	51:BR:83:TRP:CZ3	2.35	0.61
85:AA:1530:U:H2'	85:AA:1531:G:C8	2.35	0.61
49:BP:128:PHE:CZ	49:BP:140:HIS:CE1	2.88	0.61
35:BB:1419:G:C6	35:BB:1420:U:C4	2.89	0.61
85:AA:813:G:C6	85:AA:865:G:C6	2.88	0.61
85:AA:738:C:H41	85:AA:759:G:H3'	1.66	0.61
34:BA:721:A:C6	35:BB:642:G:C6	2.89	0.61
35:BB:412:A:C6	35:BB:548:A:C4	2.89	0.61
34:BA:1230:G:C2	34:BA:1231:C:C2	2.89	0.60
34:BA:1321:A:C6	34:BA:1322:A:C5	2.89	0.60
34:BA:1557:G:C4	34:BA:1558:C:C6	2.88	0.60
34:BA:172:A:C4	34:BA:316:G:C2	2.89	0.60
34:BA:232:U:C5	34:BA:233:U:C5	2.89	0.60
34:BA:442:G:C4	34:BA:467:A:C6	2.89	0.60
34:BA:744:G:C6	34:BA:745:A:C5	2.89	0.60
34:BA:761:U:C4	34:BA:762:A:C5	2.89	0.60
35:BB:124:G:C6	35:BB:380:G:C5	2.89	0.60
35:BB:1307:C:C4	35:BB:1308:G:C5	2.89	0.60
35:BB:6:A:H2'	35:BB:7:C:C6	2.36	0.60
36:BC:119:G:C2	36:BC:120:G:C4	2.89	0.60
34:BA:471:U:H3	36:BC:17:U:H3	1.47	0.60
36:BC:66:G:C5	36:BC:67:U:C5	2.89	0.60
34:BA:481:A:N1	36:BC:7:U:N3	2.49	0.60
36:BC:7:U:H3'	36:BC:8:C:C6	2.36	0.60
38:BE:116:U:H2'	38:BE:117:A:C2	2.36	0.60
40:BG:178:G:C5	40:BG:179:C:C5	2.89	0.60
51:BR:119:VAL:HG13	51:BR:146:VAL:HG22	1.83	0.60
85:AA:107:A:C8	85:AA:107:A:OP2	2.54	0.60
85:AA:125:A:C6	85:AA:126:U:C4	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:530:A:C6	85:AA:531:G:H1'	2.36	0.60
85:AA:1213:U:H4'	85:AA:1214:C:H5'	1.82	0.60
85:AA:1696:U:C4	85:AA:1697:C:C4	2.89	0.60
85:AA:419:A:H3'	85:AA:420:C:C5	2.35	0.60
35:BB:1013:U:C4	35:BB:1014:U:C5	2.89	0.60
34:BA:895:U:H3'	47:BN:9:PRO:HB3	1.83	0.60
35:BB:1427:A:C6	35:BB:1428:C:C4	2.88	0.60
85:AA:1551:G:H21	85:AA:1573:A:H62	1.47	0.60
18:AJ:66:ASN:HD21	18:AJ:68:ARG:HG2	1.66	0.60
34:BA:1497:A:C2	56:BW:21:VAL:O	138.75	0.60
34:BA:1742:G:C6	34:BA:1743:U:C4	2.89	0.60
34:BA:67:A:H3'	34:BA:68:A:H8	1.66	0.60
34:BA:740:A:H5'	47:BN:12:HIS:NE2	2.15	0.60
34:BA:766:A:C2	34:BA:768:G:H3'	2.36	0.60
34:BA:8:G:N1	36:BC:163:A:C6	2.69	0.60
34:BA:957:A:C6	34:BA:958:G:C6	2.88	0.60
35:BB:1139:A:C6	35:BB:1140:C:C4	2.90	0.60
35:BB:1215:U:H2'	35:BB:1216:G:C8	2.36	0.60
35:BB:386:G:C6	35:BB:387:G:C5	2.89	0.60
35:BB:495:A:H2'	35:BB:496:C:C6	2.37	0.60
35:BB:650:A:H2'	35:BB:651:G:C8	2.36	0.60
36:BC:161:U:H1'	57:BX:60:TYR:CG	2.36	0.60
36:BC:18:G:C5	36:BC:19:A:C6	2.88	0.60
38:BE:45:G:C5	38:BE:46:G:C5	2.89	0.60
38:BE:68:U:H2'	38:BE:69:C:H6	1.66	0.60
40:BG:162:A:C2	40:BG:163:G:C4	2.89	0.60
41:BH:132:C:H5"	51:BR:46:GLN:HE21	1.64	0.60
41:BH:26:C:OP2	41:BH:26:C:C5	2.53	0.60
41:BH:60:A:H2'	41:BH:61:C:H4'	1.82	0.60
34:BA:7:U:H5"	50:BQ:57:ARG:CZ	2.31	0.60
41:BH:96:G:H3'	55:BV:63:LYS:HE2	1.83	0.60
34:BA:542:A:N3	34:BA:543:A:C8	2.68	0.60
85:AA:428:G:C8	85:AA:428:G:H5"	2.35	0.60
85:AA:675:A:H2'	85:AA:676:U:C6	2.36	0.60
34:BA:612:U:C4	34:BA:613:A:H1'	2.34	0.60
35:BB:805:G:H1	35:BB:835:C:N4	1.94	0.60
5:A4:3:ALA:HB3	5:A4:30:PHE:HD1	1.66	0.60
85:AA:805:A:O5'	85:AA:806:G:H1'	2.01	0.60
35:BB:660:G:C2	35:BB:1440:A:C2	2.89	0.60
85:AA:287:G:C5	85:AA:288:G:C5	2.89	0.60
85:AA:567:G:C2	85:AA:568:C:C2	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:609:U:C5	85:AA:610:C:C6	2.89	0.60
85:AA:2061:C:H42	85:AA:2069:A:N6	1.97	0.60
85:AA:793:C:H3'	85:AA:794:A:C8	2.36	0.60
85:AA:911:A:H2'	85:AA:912:C:C6	2.36	0.60
85:AA:442:G:H2'	85:AA:442:G:N3	2.16	0.60
85:AA:522:A:H4'	85:AA:523:U:H3'	1.83	0.60
35:BB:1203:C:H2'	35:BB:1204:C:O4'	2.00	0.60
34:BA:1702:G:H2'	34:BA:1703:A:C8	2.36	0.60
35:BB:1482:A:H2'	35:BB:1483:A:C8	2.36	0.60
17:AI:86:HIS:CG	85:AA:1892:G:H5'	2.37	0.60
51:BR:36:ILE:O	51:BR:44:ALA:HB1	2.00	0.60
85:AA:2153:G:C6	85:AA:2154:C:C4	2.89	0.60
34:BA:165:C:H1'	34:BA:166:G:C8	2.35	0.60
34:BA:1708:A:C8	34:BA:1709:A:C8	2.89	0.60
34:BA:186:G:N1	34:BA:301:U:C2	2.69	0.60
34:BA:329:G:C2	34:BA:382:G:C5	2.89	0.60
34:BA:449:G:C2	34:BA:453:A:C5	2.89	0.60
34:BA:692:U:O2	34:BA:696:A:H1'	2.01	0.60
35:BB:1467:A:N7	35:BB:1468:A:C5	2.69	0.60
35:BB:402:G:C5	35:BB:403:U:C5	2.89	0.60
40:BG:15:G:C5	40:BG:16:G:C8	2.90	0.60
41:BH:39:G:C6	41:BH:40:C:C4	2.88	0.60
34:BA:543:A:C2	34:BA:564:C:H5	2.14	0.60
34:BA:542:A:C2	34:BA:543:A:C8	2.90	0.60
85:AA:102:A:C8	85:AA:103:U:C5	2.90	0.60
85:AA:132:G:C6	85:AA:133:G:C6	2.89	0.60
85:AA:133:G:C2	85:AA:134:U:C2	2.89	0.60
85:AA:146:U:C2	85:AA:333:A:C5	2.88	0.60
85:AA:2113:U:H2'	85:AA:2114:U:C6	2.35	0.60
85:AA:637:U:H3'	85:AA:638:G:C8	2.36	0.60
34:BA:609:G:C6	34:BA:610:A:N7	2.69	0.60
35:BB:808:U:C4	35:BB:809:U:C2	2.89	0.60
15:AG:140:LYS:HZ1	34:BA:946:A:H5"	1.67	0.60
35:BB:1510:G:H2'	35:BB:1511:U:C6	2.36	0.60
35:BB:1523:U:C2	35:BB:1524:G:C8	2.90	0.60
85:AA:775:C:H2'	85:AA:776:C:C5	2.36	0.60
85:AA:901:C:H4'	85:AA:902:A:C5'	2.31	0.60
85:AA:1260:G:H2'	85:AA:1261:U:C6	2.36	0.60
34:BA:230:A:H2'	34:BA:231:U:C6	2.36	0.60
12:AD:33:TRP:CE3	85:AA:1957:C:C4	2.89	0.60
34:BA:1310:C:C4	34:BA:1311:G:C6	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1560:U:H2'	34:BA:1561:C:C5	2.37	0.60
34:BA:1633:C:C5'	34:BA:1634:A:H3'	2.30	0.60
34:BA:1652:G:C6	34:BA:1653:G:C5	2.89	0.60
34:BA:1812:C:C4	34:BA:1835:A:C6	2.88	0.60
34:BA:172:A:N1	34:BA:316:G:C4	2.70	0.60
35:BB:1144:A:N1	35:BB:1145:G:C6	2.69	0.60
35:BB:1222:A:H2'	35:BB:1227:G:H2'	1.82	0.60
37:BD:110:G:C5	37:BD:111:U:C5	2.89	0.60
41:BH:55:C:C2	41:BH:67:G:C2	2.89	0.60
85:AA:1189:A:C6	85:AA:1190:G:C5	2.89	0.60
85:AA:671:G:C5	85:AA:672:U:C5	2.89	0.60
35:BB:562:A:H2'	35:BB:563:A:C8	2.36	0.60
35:BB:561:C:C2	35:BB:564:U:C5	2.89	0.60
35:BB:968:C:C2	35:BB:969:C:C6	2.90	0.60
35:BB:841:U:C2	35:BB:975:G:N1	2.69	0.60
85:AA:709:A:C5	85:AA:1112:G:C6	2.89	0.60
35:BB:517:G:C2	35:BB:534:C:C2	2.89	0.60
5:A4:27:ARG:HA	5:A4:30:PHE:CZ	2.36	0.60
34:BA:1208:U:H1'	34:BA:1209:A:H3'	1.83	0.60
35:BB:665:A:C5	35:BB:666:A:N7	2.70	0.60
85:AA:1917:G:C2	85:AA:1996:A:N1	2.69	0.60
34:BA:1334:G:O6	34:BA:1335:A:C5	2.55	0.60
33:AZ:78:ARG:NH2	33:AZ:79:ASN:H	1.99	0.60
35:BB:1003:G:N2	35:BB:1016:C:H1'	2.16	0.60
34:BA:1129:U:H3'	34:BA:1130:U:C6	2.35	0.60
34:BA:1023:G:C2	35:BB:1267:C:C6	2.89	0.60
9:A8:23:VAL:H	9:A8:38:ASN:HB3	1.65	0.60
6:A5:121:LEU:O	41:BH:91:G:N3	2.32	0.60
34:BA:1576:C:H2'	34:BA:1577:U:C6	2.36	0.60
34:BA:1816:G:H2'	34:BA:1818:A:C4	2.37	0.60
34:BA:234:A:H3'	34:BA:235:C:C5	2.37	0.60
34:BA:750:C:C2	34:BA:751:A:C8	2.90	0.60
34:BA:943:G:C6	34:BA:944:G:C5	2.89	0.60
34:BA:98:A:H2'	34:BA:99:G:N3	2.16	0.60
35:BB:1125:A:C6	35:BB:1126:A:C5	2.90	0.60
35:BB:1338:U:C2	35:BB:1339:C:C5	2.89	0.60
34:BA:1846:G:C5	35:BB:5:A:N6	2.69	0.60
35:BB:624:A:C2	35:BB:625:A:C4	2.90	0.60
36:BC:90:U:C2	36:BC:91:G:C8	2.90	0.60
38:BE:101:C:N3	38:BE:120:C:C2	2.69	0.60
38:BE:23:G:N2	38:BE:197:A:C4	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:20:C:C2	38:BE:21:C:C5	2.90	0.60
38:BE:89:G:C5	38:BE:90:G:C5	2.89	0.60
40:BG:166:C:H2'	40:BG:167:C:H5"	1.82	0.60
40:BG:17:A:C5	40:BG:18:U:C5	2.89	0.60
44:BK:43:VAL:HG13	44:BK:195:LEU:O	2.01	0.60
34:BA:542:A:C2	34:BA:566:G:C6	2.90	0.60
85:AA:631:G:H2'	85:AA:633:C:C5	2.37	0.60
34:BA:668:G:C5	34:BA:669:U:C6	2.90	0.60
85:AA:706:U:O5'	85:AA:706:U:H6	1.85	0.60
85:AA:877:G:C6	85:AA:878:U:C2	2.90	0.60
34:BA:1209:A:C2	54:BU:127:PRO:HA	2.36	0.60
34:BA:1244:G:C2	35:BB:640:A:C5	2.89	0.60
27:AT:38:CYS:HB3	85:AA:605:A:OP1	2.02	0.60
85:AA:323:U:C4	85:AA:324:U:C5	2.89	0.60
85:AA:2059:A:C4	85:AA:2072:G:C2	2.89	0.60
85:AA:801:U:C5	85:AA:802:A:C4	2.89	0.60
85:AA:903:G:H2'	85:AA:904:U:H6	1.66	0.60
34:BA:1333:G:N3	34:BA:1409:A:C2	2.69	0.60
35:BB:1252:G:C4	35:BB:1253:U:C5	2.88	0.60
85:AA:749:C:C4	85:AA:756:G:C6	2.90	0.60
35:BB:1423:U:C4	35:BB:1424:G:C4	2.90	0.60
12:AD:99:LYS:HZ3	12:AD:102:HIS:CE1	2.20	0.60
2:A1:211:SER:H	2:A1:242:LEU:HD22	1.66	0.60
17:AI:40:PHE:CZ	17:AI:93:THR:HG22	2.35	0.60
31:AX:166:PHE:CE2	31:AX:200:LEU:HD21	2.36	0.60
34:BA:1046:G:C6	34:BA:1522:G:C6	2.90	0.60
34:BA:1813:C:H2'	34:BA:1814:U:C6	2.36	0.60
34:BA:452:A:C5	34:BA:453:A:H1'	2.37	0.60
34:BA:958:G:C4	34:BA:960:C:C5	2.89	0.60
35:BB:679:G:C6	35:BB:680:A:C5	2.89	0.60
36:BC:44:A:C4	36:BC:45:C:C5	2.89	0.60
37:BD:9:C:H3'	37:BD:10:C:H6	1.67	0.60
39:BF:22:U:C6	39:BF:22:U:OP2	2.55	0.60
41:BH:68:G:C5	41:BH:69:C:C5	2.89	0.60
34:BA:563:A:C2	34:BA:564:C:N1	2.70	0.60
85:AA:51:A:H2'	85:AA:52:U:C5'	2.29	0.60
85:AA:636:G:C2	85:AA:637:U:C2	2.90	0.60
34:BA:621:G:C2	34:BA:662:U:C2	2.90	0.60
35:BB:801:G:C6	35:BB:802:G:C5	2.90	0.60
35:BB:854:G:C2	35:BB:855:G:C4	2.89	0.60
34:BA:556:A:C8	34:BA:557:U:C6	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1119:A:N1	85:AA:1206:A:N1	2.49	0.60
85:AA:1105:G:H2'	85:AA:1106:A:N3	2.17	0.60
85:AA:1564:U:H2'	85:AA:1565:G:C8	2.36	0.60
85:AA:2022:A:C8	85:AA:2026:U:OP2	2.55	0.60
34:BA:257:G:H1	34:BA:274:C:H42	1.47	0.60
35:BB:364:U:C6	35:BB:365:U:C5	2.89	0.60
85:AA:2237:G:H2'	85:AA:2238:C:H6	1.65	0.60
85:AA:2173:A:C2	85:AA:2174:G:H1'	2.36	0.60
85:AA:722:G:C6	85:AA:723:U:C2	2.90	0.60
85:AA:338:G:C6	85:AA:352:G:C6	2.89	0.60
12:AD:33:TRP:CD2	85:AA:1957:C:C5	2.90	0.60
35:BB:1058:U:C2	35:BB:1059:U:C5	2.89	0.60
35:BB:1427:A:C5	35:BB:1428:C:C4	2.90	0.60
85:AA:1373:U:H5'	85:AA:1373:U:H6	1.67	0.60
35:BB:1516:C:C2	35:BB:1517:G:C5	2.89	0.60
15:AG:98:MET:SD	15:AG:115:LEU:HG	2.41	0.60
35:BB:735:A:C6	35:BB:755:A:C6	2.89	0.60
34:BA:1300:G:C6	34:BA:1440:C:C4	2.90	0.60
34:BA:1437:G:C6	34:BA:1438:C:C4	2.90	0.60
34:BA:1816:G:C2	34:BA:1827:C:C2	2.89	0.60
34:BA:417:A:C8	34:BA:419:U:C2	2.89	0.60
34:BA:856:G:C4	34:BA:857:C:C6	2.89	0.60
34:BA:859:G:C6	34:BA:860:G:C8	2.90	0.60
35:BB:699:U:C6	35:BB:1044:U:O4	2.55	0.60
35:BB:109:U:H2'	35:BB:111:C:C4	2.36	0.60
35:BB:390:G:C6	35:BB:391:G:C5	2.89	0.60
36:BC:75:G:C4	36:BC:76:C:C5	2.89	0.60
38:BE:13:A:C2	38:BE:14:C:C6	2.89	0.60
38:BE:50:G:C6	38:BE:51:C:C5	2.89	0.60
41:BH:34:G:C6	41:BH:121:A:C2	2.90	0.60
41:BH:43:G:C2	41:BH:44:A:C4	2.89	0.60
41:BH:63:G:C8	41:BH:63:G:H5"	2.37	0.60
58:BY:83:GLU:OE1	85:AA:2160:U:O5'	2.19	0.60
85:AA:1230:U:H2'	85:AA:1231:G:C8	2.36	0.60
85:AA:23:G:C6	85:AA:24:U:C4	2.89	0.60
85:AA:464:A:C4	85:AA:466:A:H1'	2.36	0.60
85:AA:629:A:C6	85:AA:630:A:C2	2.90	0.60
34:BA:557:U:O2'	34:BA:557:U:H4'	1.99	0.60
85:AA:1115:G:C2'	85:AA:1116:G:H5'	2.31	0.60
85:AA:1121:U:C5	85:AA:1122:U:C5	2.89	0.60
85:AA:1867:G:C6	85:AA:1868:G:C5	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AT:10:VAL:HG21	27:AT:37:TRP:CG	2.36	0.60
35:BB:1508:G:C4	35:BB:1509:G:C8	2.90	0.60
85:AA:293:A:H4'	85:AA:294:G:OP2	2.02	0.60
85:AA:280:U:C2	85:AA:290:G:C2	2.90	0.60
85:AA:813:G:C2	85:AA:814:G:C8	2.90	0.60
85:AA:866:U:H2'	85:AA:867:G:C8	2.35	0.60
3:A2:12:TRP:CE2	3:A2:94:PRO:HD2	2.36	0.60
85:AA:1004:G:C6	85:AA:1005:C:C5	2.90	0.60
85:AA:844:C:C2	85:AA:847:G:C6	2.89	0.60
7:A6:158:ALA:HB3	7:A6:161:SER:HB2	1.83	0.60
8:A7:23:GLN:HE22	8:A7:247:PRO:HG3	1.67	0.60
16:AH:64:PRO:HA	16:AH:104:GLY:HA2	1.84	0.60
42:BI:91:GLY:HA2	42:BI:110:LEU:HD12	1.83	0.60
34:BA:1396:A:C5	34:BA:1397:C:C6	2.90	0.60
34:BA:1184:A:C8	34:BA:1185:U:C5	2.89	0.60
34:BA:1296:U:C5	34:BA:1296:U:OP1	2.55	0.60
34:BA:13:U:N3	36:BC:154:A:C6	2.70	0.60
34:BA:1662:U:C5	35:BB:18:A:N1	2.69	0.60
34:BA:812:A:C5	34:BA:813:C:C4	2.89	0.60
35:BB:376:A:N1	35:BB:377:A:C5	2.69	0.60
35:BB:82:G:C6	35:BB:83:G:C4	2.89	0.60
37:BD:51:G:H5"	37:BD:51:G:C8	2.37	0.60
38:BE:131:C:H2'	38:BE:132:U:C6	2.35	0.60
38:BE:161:G:H3'	38:BE:162:U:H6	1.66	0.60
38:BE:196:C:H2'	38:BE:197:A:C8	2.36	0.60
39:BF:26:U:H2'	39:BF:27:G:C5	2.36	0.60
40:BG:181:C:C2'	40:BG:182:G:C8	2.85	0.60
85:AA:698:G:H1'	85:AA:1276:A:C2	2.36	0.60
34:BA:267:G:C2	34:BA:276:C:C2	2.89	0.60
34:BA:201:A:H2	34:BA:272:A:N1	1.99	0.60
34:BA:603:U:C6	34:BA:1492:G:C6	2.89	0.60
85:AA:187:C:H2'	85:AA:252:G:H21	1.66	0.60
85:AA:1466:U:H2'	85:AA:1467:U:H5"	1.84	0.60
85:AA:2174:G:C5	85:AA:2175:U:C5	2.89	0.60
35:BB:605:C:H3'	35:BB:606:C:H2'	1.82	0.60
35:BB:1490:G:C6	35:BB:1491:G:C5	2.89	0.60
2:A1:122:LYS:HB2	2:A1:139:HIS:CG	2.37	0.60
86:AB:7:A:C2	86:AB:49:C:C2	2.89	0.60
34:BA:1070:G:C2	34:BA:1224:A:C2	2.90	0.60
34:BA:1671:A:C5	34:BA:1672:C:C6	2.90	0.60
34:BA:1738:G:C2	34:BA:1739:G:C4	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1788:U:C5	34:BA:1789:A:C5	2.90	0.60
34:BA:92:G:C5	34:BA:93:A:C6	2.90	0.60
35:BB:1306:G:C2	35:BB:1307:C:H1'	2.37	0.60
35:BB:28:G:C2	35:BB:34:G:C5	2.90	0.60
35:BB:3:C:H42	35:BB:5:A:N6	1.98	0.60
37:BD:54:A:C5	37:BD:55:A:C8	2.90	0.60
38:BE:35:A:C5	38:BE:36:U:C4	2.90	0.60
40:BG:76:C:C5	40:BG:118:U:C4	2.90	0.60
41:BH:52:G:C5	41:BH:53:C:C5	2.90	0.60
45:BL:79:ARG:HA	45:BL:110:GLY:O	17.54	0.60
85:AA:435:A:C8	85:AA:436:G:C8	2.90	0.60
85:AA:1114:A:C2	85:AA:1213:U:H1'	2.37	0.60
85:AA:1125:G:C6	85:AA:1193:A:C5	2.90	0.60
85:AA:1153:G:O6	85:AA:1155:A:C4	2.54	0.60
34:BA:923:C:C2	34:BA:924:U:C5	2.89	0.60
34:BA:583:G:H2'	34:BA:584:A:C8	2.37	0.60
35:BB:1489:A:C6	49:BP:158:PRO:HG3	2.37	0.60
4:A3:39:GLY:O	4:A3:46:PHE:HB2	2.02	0.60
34:BA:125:G:C6	34:BA:126:G:C5	2.89	0.60
34:BA:13:U:O2	36:BC:154:A:C2	2.55	0.60
34:BA:1616:A:H5'	34:BA:1634:A:N1	2.17	0.60
34:BA:438:A:C2	34:BA:439:A:C5	2.90	0.60
34:BA:57:A:C4	34:BA:58:A:C8	2.90	0.60
34:BA:73:G:C5	47:BN:106:ARG:HA	2.36	0.60
35:BB:1233:U:C2	35:BB:1234:G:C8	2.89	0.60
35:BB:707:G:C5	35:BB:708:C:C5	2.90	0.60
35:BB:72:G:C6	35:BB:73:G:C5	2.89	0.60
36:BC:26:U:H2'	36:BC:27:U:C5	2.36	0.60
36:BC:40:A:C6	36:BC:41:A:C6	2.90	0.60
37:BD:7:G:C6	37:BD:113:G:C6	2.90	0.60
37:BD:72:U:C5	37:BD:73:U:O4	2.55	0.60
37:BD:89:G:C4	37:BD:90:A:C5	2.89	0.60
38:BE:73:A:C2	38:BE:74:U:C5	2.89	0.60
85:AA:1484:G:H2'	85:AA:1485:G:C8	2.36	0.60
85:AA:162:A:O2'	85:AA:164:G:H5'	2.02	0.60
85:AA:1867:G:C4	85:AA:1868:G:C8	2.90	0.60
34:BA:680:C:OP2	34:BA:680:C:H3'	2.02	0.60
85:AA:1984:A:C6	85:AA:1985:C:C5	2.89	0.60
34:BA:1249:G:C6	34:BA:1250:C:C4	2.90	0.60
85:AA:185:A:C8	85:AA:185:A:H3'	2.37	0.60
85:AA:1287:C:H41	85:AA:1468:G:H4'	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1515:A:C2	85:AA:1516:A:C4	2.89	0.60
85:AA:1524:A:H2'	85:AA:1525:C:C6	2.37	0.60
85:AA:363:A:C8	85:AA:363:A:H5"	2.37	0.60
35:BB:1465:U:H3'	35:BB:1466:A:H8	1.66	0.60
85:AA:1728:G:H2'	85:AA:1729:C:C5	2.35	0.60
1:A0:113:TYR:CE2	1:A0:116:LEU:HD13	2.37	0.60
34:BA:343:G:C6	34:BA:344:G:C5	2.90	0.60
34:BA:114:U:C2	34:BA:327:G:H2'	2.37	0.59
34:BA:1177:C:H2'	34:BA:1178:U:C6	2.37	0.59
34:BA:1656:A:C2	34:BA:1657:A:C4	2.90	0.59
34:BA:1667:G:H3'	34:BA:1668:C:C6	2.37	0.59
34:BA:167:U:C2	34:BA:168:U:C6	2.89	0.59
34:BA:1719:G:C4	34:BA:1720:U:C6	2.90	0.59
34:BA:1846:G:H1'	35:BB:5:A:H2	1.66	0.59
34:BA:401:A:C4	34:BA:402:G:C8	2.90	0.59
34:BA:498:A:C2	34:BA:499:C:C2	2.90	0.59
34:BA:955:G:C6	34:BA:956:G:C5	2.90	0.59
35:BB:1209:A:C5	35:BB:1210:U:C4	2.89	0.59
35:BB:1212:C:H2'	35:BB:1213:U:C5	2.36	0.59
35:BB:1372:G:C6	35:BB:1373:U:C4	2.89	0.59
35:BB:128:C:C2	35:BB:376:A:C2	2.90	0.59
40:BG:69:G:C2	40:BG:70:C:C2	2.89	0.59
35:BB:569:G:C6	35:BB:570:A:C5	2.90	0.59
35:BB:1027:U:C5	35:BB:1028:C:C5	2.90	0.59
34:BA:520:G:C5	34:BA:521:C:H1'	2.37	0.59
34:BA:593:G:C6	34:BA:594:G:C6	2.90	0.59
34:BA:715:U:H2'	34:BA:716:C:C5	2.37	0.59
57:BX:127:VAL:HG12	57:BX:152:TYR:CD1	2.37	0.59
85:AA:1690:A:C2	85:AA:1692:U:H5'	2.37	0.59
85:AA:783:C:H2'	85:AA:784:C:H6	1.67	0.59
85:AA:378:A:C6	85:AA:381:A:N7	2.70	0.59
35:BB:1003:G:N2	35:BB:1016:C:C2	2.70	0.59
35:BB:551:C:C5	35:BB:575:C:C6	2.90	0.59
34:BA:226:A:H3'	34:BA:227:C:H5"	1.83	0.59
34:BA:245:U:H2'	34:BA:246:G:C8	2.37	0.59
86:AB:5:G:C6	86:AB:6:G:C5	2.89	0.59
35:BB:458:U:C4	35:BB:459:U:C5	2.90	0.59
35:BB:1427:A:C4	35:BB:1428:C:C5	2.90	0.59
35:BB:1427:A:C5	35:BB:1428:C:C5	2.89	0.59
21:AM:83:TRP:CZ3	21:AM:84:PHE:HB3	2.37	0.59
16:AH:23:VAL:HG22	16:AH:25:HIS:CD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1196:C:C2	34:BA:1197:U:C5	2.90	0.59
34:BA:1469:G:C6	34:BA:1513:G:C6	2.91	0.59
34:BA:1563:G:C6	34:BA:1565:U:C4	2.90	0.59
34:BA:1618:A:C4	34:BA:1632:G:C6	2.89	0.59
34:BA:1723:U:O2	34:BA:1799:G:C6	2.55	0.59
34:BA:390:A:H2'	34:BA:391:U:C6	2.36	0.59
34:BA:439:A:C2	34:BA:441:A:C4	2.90	0.59
34:BA:986:G:H2'	34:BA:987:C:C6	2.37	0.59
35:BB:702:G:N7	35:BB:1039:A:H2'	2.17	0.59
35:BB:1075:A:H1'	35:BB:1256:C:C2	2.37	0.59
35:BB:1077:C:C2	35:BB:1096:G:C2	2.90	0.59
35:BB:130:G:C6	35:BB:374:A:C6	2.90	0.59
35:BB:1353:G:C2	35:BB:1365:G:C4	2.91	0.59
35:BB:658:G:C6	35:BB:659:C:C2	2.91	0.59
35:BB:679:G:C2	35:BB:680:A:C4	2.90	0.59
36:BC:43:A:C2	36:BC:101:U:H1'	2.37	0.59
36:BC:75:G:C5	36:BC:76:C:C4	2.90	0.59
38:BE:128:G:C2	38:BE:129:G:C5	2.90	0.59
41:BH:40:C:C4	41:BH:41:A:C5	2.90	0.59
85:AA:466:A:N1	85:AA:469:G:N7	2.50	0.59
85:AA:499:G:C2	85:AA:501:A:C8	2.90	0.59
23:AP:189:VAL:HG11	23:AP:208:THR:O	2.02	0.59
35:BB:524:C:H41	85:AA:2114:U:H5'	1.65	0.59
35:BB:808:U:C5	35:BB:809:U:C6	2.91	0.59
35:BB:472:C:C2	35:BB:506:G:C2	2.90	0.59
5:A4:9:LYS:NZ	53:BT:188:ALA:HB1	2.16	0.59
34:BA:1209:A:H2'	34:BA:1210:A:H8	1.66	0.59
34:BA:678:C:C6	34:BA:679:U:C5	2.90	0.59
85:AA:1928:A:C5'	85:AA:1959:G:H1'	2.32	0.59
41:BH:15:A:C4	41:BH:16:A:C8	2.91	0.59
85:AA:1696:U:H3'	85:AA:1697:C:H6	1.66	0.59
85:AA:2237:G:C6	85:AA:2238:C:C4	2.91	0.59
85:AA:808:A:C6	85:AA:809:A:C8	2.90	0.59
54:BU:75:ILE:HA	54:BU:87:LYS:O	2.02	0.59
85:AA:1254:A:C5	85:AA:1255:C:C5	2.90	0.59
35:BB:647:U:C2	35:BB:648:G:C8	2.90	0.59
5:A4:141:VAL:HG11	5:A4:191:MET:HG2	1.84	0.59
4:A3:143:LYS:HA	4:A3:146:LYS:HE2	1.84	0.59
35:BB:462:G:C5	35:BB:463:C:C5	2.91	0.59
34:BA:1073:G:C2	34:BA:1221:A:C4	2.90	0.59
34:BA:1470:G:C2	34:BA:1472:G:C4	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:147:U:C5	34:BA:148:G:N7	2.70	0.59
34:BA:1641:G:H2'	34:BA:1642:A:C8	2.36	0.59
34:BA:1682:A:C6	34:BA:1683:C:C4	2.90	0.59
34:BA:1820:G:C6	34:BA:1821:A:C6	2.90	0.59
34:BA:732:A:C4	34:BA:733:G:C8	2.90	0.59
35:BB:376:A:C6	35:BB:377:A:C5	2.91	0.59
35:BB:392:G:C2	35:BB:597:C:C2	2.91	0.59
37:BD:3:G:C6	37:BD:4:U:C4	2.90	0.59
38:BE:101:C:C2	38:BE:117:A:N1	2.70	0.59
40:BG:77:U:C5	40:BG:78:C:C6	2.90	0.59
41:BH:101:A:H2'	41:BH:102:C:H5'	1.84	0.59
41:BH:131:A:C2	41:BH:132:C:H1'	2.38	0.59
35:BB:814:A:C2	35:BB:815:G:C4	2.90	0.59
35:BB:467:G:C6	35:BB:468:U:C4	2.91	0.59
34:BA:1234:U:C5	34:BA:1235:C:C5	2.89	0.59
85:AA:1286:C:C2	85:AA:1472:G:C2	2.89	0.59
85:AA:2105:G:C5	85:AA:2106:C:C5	2.90	0.59
85:AA:989:U:C4'	85:AA:991:G:C8	2.85	0.59
35:BB:997:G:C5	35:BB:998:G:C8	2.90	0.59
6:A5:130:THR:HG21	6:A5:158:LEU:HD13	1.83	0.59
35:BB:1484:A:H2'	35:BB:1485:G:O4'	2.01	0.59
85:AA:1887:G:C6	85:AA:1888:U:C4	2.90	0.59
85:AA:1430:A:C6	85:AA:1431:U:C2	2.89	0.59
35:BB:1490:G:C5	35:BB:1491:G:C8	2.91	0.59
15:AG:29:SER:O	15:AG:33:VAL:HG13	2.02	0.59
6:A5:45:PRO:HB2	6:A5:53:PHE:CE1	2.38	0.59
35:BB:773:G:C6	35:BB:774:C:C4	2.90	0.59
34:BA:1009:G:C5	34:BA:1010:C:C4	2.90	0.59
34:BA:1173:C:C2	34:BA:1202:G:C2	2.91	0.59
34:BA:1203:G:C6	34:BA:1204:U:C4	2.90	0.59
34:BA:1327:G:C5	34:BA:1328:U:C5	2.89	0.59
34:BA:1627:U:C2	34:BA:1628:A:C8	2.90	0.59
34:BA:1706:A:H1'	34:BA:1800:G:C2	2.36	0.59
34:BA:1808:A:C5	34:BA:1809:G:C8	2.91	0.59
34:BA:234:A:H3'	34:BA:235:C:C6	2.38	0.59
34:BA:23:A:C5	34:BA:24:C:C5	2.90	0.59
34:BA:316:G:H1'	34:BA:317:U:C5	2.38	0.59
34:BA:86:A:C5	34:BA:87:G:C8	2.90	0.59
34:BA:88:C:C2	34:BA:89:G:C8	2.90	0.59
35:BB:1147:G:C2	35:BB:1148:U:C2	2.90	0.59
35:BB:1443:C:C4	35:BB:1444:U:C4	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:697:G:H2'	35:BB:698:C:C6	2.37	0.59
35:BB:83:G:H1	35:BB:604:C:H42	1.49	0.59
37:BD:54:A:C6	37:BD:55:A:C5	2.90	0.59
37:BD:66:G:C6	37:BD:67:C:C4	2.91	0.59
37:BD:68:C:C2	37:BD:108:G:C2	2.91	0.59
38:BE:91:G:C2	38:BE:92:C:C5	2.90	0.59
40:BG:74:G:C2	40:BG:124:A:C4	2.91	0.59
38:BE:109:C:H3'	53:BT:103:ARG:HH21	1.66	0.59
85:AA:163:C:H42	85:AA:486:G:H5"	1.68	0.59
85:AA:474:C:C2	85:AA:475:A:C8	2.90	0.59
85:AA:514:U:H2'	85:AA:515:C:C6	2.38	0.59
32:AY:60:GLN:HG2	85:AA:632:U:C5	2.38	0.59
34:BA:631:G:N2	34:BA:651:U:H1'	2.17	0.59
35:BB:824:C:H2'	35:BB:825:U:H5'	1.83	0.59
85:AA:993:G:C2	85:AA:994:A:C4	2.90	0.59
85:AA:709:A:C6	85:AA:1112:G:C5	2.90	0.59
85:AA:1114:A:C2	85:AA:1214:C:C5	2.90	0.59
34:BA:946:A:OP2	34:BA:946:A:C8	2.56	0.59
35:BB:1165:A:C5	35:BB:1167:C:C4	2.91	0.59
85:AA:941:C:H4'	85:AA:942:A:OP1	2.03	0.59
85:AA:1908:A:H2'	85:AA:1909:C:C6	2.38	0.59
34:BA:1243:A:C8	34:BA:1245:C:C6	2.89	0.59
35:BB:1092:G:C5	35:BB:1093:C:C5	2.90	0.59
35:BB:1507:U:C5'	49:BP:171:ARG:HE	2.16	0.59
85:AA:1523:G:C6	85:AA:1524:A:C6	2.90	0.59
85:AA:268:A:H3'	85:AA:268:A:C8	2.37	0.59
85:AA:577:U:H2'	85:AA:578:U:H5"	1.83	0.59
85:AA:2083:G:C5	85:AA:2084:U:C4	2.90	0.59
35:BB:1003:G:C2	35:BB:1016:C:C2	2.89	0.59
34:BA:575:U:H4'	34:BA:576:C:OP2	2.03	0.59
30:AW:14:ARG:HH12	85:AA:1363:U:H4'	1.67	0.59
25:AR:74:ASN:O	25:AR:78:ILE:HG23	2.02	0.59
49:BP:153:LYS:O	49:BP:160:ALA:HB3	2.01	0.59
1:A0:199:LEU:CD2	1:A0:212:LEU:HD21	2.32	0.59
85:AA:1111:A:C6	85:AA:1212:C:C5	2.90	0.59
2:A1:54:ASN:HB3	2:A1:56:LEU:H	1.67	0.59
34:BA:1293:A:C6	34:BA:1454:G:C2	2.90	0.59
34:BA:1305:A:C4	34:BA:1310:C:H1'	2.37	0.59
34:BA:1649:A:N7	35:BB:49:A:C2	2.71	0.59
34:BA:1820:G:C5	34:BA:1821:A:C6	2.91	0.59
34:BA:395:G:N2	36:BC:34:U:H5	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:44:U:C4	34:BA:45:A:C6	2.91	0.59
34:BA:747:G:C6	34:BA:748:C:C4	2.90	0.59
34:BA:908:G:C6	34:BA:909:G:C5	2.90	0.59
35:BB:131:A:C6	35:BB:132:G:C5	2.90	0.59
34:BA:1603:A:C4	35:BB:33:A:C2	2.90	0.59
35:BB:97:U:H3'	35:BB:98:A:C5	2.37	0.59
37:BD:95:G:C2	37:BD:96:C:C5	2.90	0.59
38:BE:23:G:C6	38:BE:25:U:C4	2.91	0.59
41:BH:29:G:C5	41:BH:30:C:C6	2.91	0.59
34:BA:543:A:H2	34:BA:544:U:C2	2.20	0.59
85:AA:33:U:C4	85:AA:538:A:C5	2.90	0.59
85:AA:595:A:C2	85:AA:596:A:H1'	2.38	0.59
85:AA:687:G:OP2	85:AA:1476:C:C6	2.55	0.59
15:AG:113:PHE:CZ	85:AA:1188:A:C6	2.91	0.59
34:BA:632:U:C4	34:BA:633:G:N7	2.70	0.59
35:BB:851:U:O2'	35:BB:853:U:H5"	2.03	0.59
85:AA:1660:U:C2	85:AA:1864:G:C2	2.90	0.59
35:BB:1514:G:C6	35:BB:1515:C:C4	2.89	0.59
85:AA:1527:G:C5	85:AA:2219:G:C5	2.90	0.59
11:AC:139:PHE:CE2	11:AC:141:PRO:HA	2.37	0.59
85:AA:2143:U:H2'	85:AA:2144:C:O4'	2.02	0.59
85:AA:1535:C:H5	85:AA:2049:U:C6	2.21	0.59
35:BB:1019:C:C2	35:BB:1020:U:C6	2.91	0.59
34:BA:1124:U:H6	34:BA:1124:U:H5"	1.67	0.59
85:AA:1066:U:H3	85:AA:1087:G:H1	1.51	0.59
1:A0:32:VAL:HG13	1:A0:43:PHE:CZ	2.38	0.59
34:BA:1275:G:N1	34:BA:1276:G:C4	2.71	0.59
34:BA:148:G:C2	34:BA:149:G:C8	2.90	0.59
34:BA:1550:G:C2	34:BA:1560:U:C2	2.91	0.59
34:BA:172:A:C2	34:BA:173:U:C2	2.90	0.59
34:BA:339:G:C5	34:BA:340:U:C4	2.90	0.59
34:BA:430:A:H2'	34:BA:431:A:C8	2.38	0.59
34:BA:67:A:H3'	34:BA:68:A:C8	2.38	0.59
34:BA:704:G:C2	34:BA:705:C:C2	2.90	0.59
35:BB:1457:A:C2	35:BB:1458:U:O4	2.56	0.59
36:BC:102:G:C6	36:BC:104:A:N1	2.70	0.59
37:BD:79:G:C2	37:BD:98:G:C4	2.90	0.59
38:BE:64:A:C2	38:BE:140:G:C4	2.91	0.59
38:BE:181:U:O5'	38:BE:181:U:H6	1.85	0.59
41:BH:39:G:C6	41:BH:113:G:O6	2.55	0.59
50:BQ:167:TRP:CE2	50:BQ:168:ILE:HG13	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:547:C:O2'	34:BA:548:G:C8	2.56	0.59
85:AA:1490:A:C2	85:AA:1491:G:H1'	2.36	0.59
85:AA:181:A:C3'	85:AA:182:C:H5'	2.32	0.59
85:AA:25:C:H4'	85:AA:26:A:H5"	1.85	0.59
34:BA:658:C:H2'	34:BA:660:C:C6	2.37	0.59
56:BW:89:ARG:HE	56:BW:93:THR:CG2	2.16	0.59
35:BB:1165:A:N1	35:BB:1186:A:C2	2.70	0.59
35:BB:469:G:C5	35:BB:470:C:C4	2.91	0.59
5:A4:27:ARG:HA	5:A4:30:PHE:CE2	2.37	0.59
85:AA:1962:U:H3	85:AA:1975:G:H1	1.50	0.59
22:AO:39:PHE:HB2	22:AO:71:TYR:CD1	2.38	0.59
41:BH:10:U:C4	41:BH:20:A:N1	2.71	0.59
85:AA:1671:G:C2	85:AA:1699:A:C5	2.90	0.59
85:AA:2215:C:C5	85:AA:2218:G:C4	2.90	0.59
85:AA:2140:U:C4	85:AA:2141:G:C5	2.91	0.59
85:AA:979:U:C5	85:AA:980:U:C4	2.91	0.59
85:AA:572:G:C6	85:AA:573:U:C4	2.90	0.59
85:AA:430:G:N2	85:AA:442:G:H1'	2.18	0.59
34:BA:1125:G:C2	34:BA:1136:A:C2	2.91	0.59
85:AA:763:U:C4	85:AA:764:U:C2	2.90	0.59
86:AB:31:A:C6	86:AB:32:U:C5	2.90	0.59
20:AL:26:LYS:O	20:AL:55:THR:HG23	2.02	0.59
85:AA:1955:U:O2	85:AA:1958:C:C5	2.56	0.59
34:BA:838:U:C4	34:BA:839:U:H1'	2.38	0.59
40:BG:114:A:C5	40:BG:115:C:C6	2.90	0.59
23:AP:123:VAL:HG21	23:AP:225:PHE:CD1	2.36	0.59
85:AA:1762:G:H2'	85:AA:1763:G:C8	2.37	0.59
57:BX:130:VAL:HG11	57:BX:147:ARG:HH11	1.68	0.59
17:AI:122:TYR:CE2	17:AI:124:GLY:HA3	2.37	0.59
34:BA:138:C:C2	34:BA:139:U:C5	2.90	0.59
34:BA:1295:U:H3	34:BA:1442:A:H61	1.51	0.59
34:BA:1285:G:C2	34:BA:1456:C:C2	2.91	0.59
34:BA:149:G:C2	34:BA:150:C:C2	2.90	0.59
34:BA:1522:G:C5	34:BA:1523:U:C5	2.91	0.59
34:BA:1529:G:C6	34:BA:1578:A:C6	2.90	0.59
34:BA:1797:A:H3'	34:BA:1797:A:OP1	2.03	0.59
34:BA:1825:U:H5'	34:BA:1825:U:C6	2.36	0.59
34:BA:1832:A:H2'	34:BA:1833:G:O4'	2.02	0.59
34:BA:208:A:O3'	34:BA:209:A:C8	2.56	0.59
34:BA:792:A:C2	34:BA:793:A:C4	2.91	0.59
34:BA:86:A:OP1	34:BA:86:A:H3'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:912:G:C6	34:BA:913:U:C4	2.91	0.59
34:BA:919:A:C5	34:BA:920:U:C4	2.90	0.59
35:BB:1114:A:C2	35:BB:1137:G:C4	2.90	0.59
35:BB:1141:A:C2	35:BB:1142:C:C2	2.90	0.59
35:BB:1296:A:C2	35:BB:1309:A:H1'	2.37	0.59
35:BB:1460:G:OP2	35:BB:1460:G:H4'	2.02	0.59
35:BB:404:A:C2	35:BB:410:A:C4	2.90	0.59
34:BA:1593:U:H3	35:BB:627:G:H1	1.49	0.59
36:BC:137:C:C2	36:BC:138:C:C6	2.91	0.59
36:BC:157:U:H1'	36:BC:158:U:C5	2.38	0.59
40:BG:19:C:C4	40:BG:20:U:C4	2.90	0.59
42:BI:57:ASN:H	42:BI:57:ASN:ND2	1.98	0.59
85:AA:1480:C:H3'	85:AA:1480:C:C6	2.38	0.59
7:A6:18:PHE:HB2	85:AA:628:C:H4'	1.85	0.59
35:BB:1165:A:N1	35:BB:1186:A:N1	2.51	0.59
35:BB:1191:G:H2'	35:BB:1192:C:C6	2.38	0.59
85:AA:1962:U:H2'	85:AA:1963:G:C8	2.38	0.59
35:BB:1271:A:C6	35:BB:1272:G:C5	2.91	0.59
35:BB:1319:U:H2'	35:BB:1320:U:C6	2.37	0.59
85:AA:1916:A:C2	85:AA:1996:A:C2	2.90	0.59
85:AA:1675:U:C4	85:AA:1676:G:C5	2.90	0.59
85:AA:2244:G:H3'	85:AA:2246:U:OP2	2.03	0.59
85:AA:571:G:C2	85:AA:572:G:C4	2.91	0.59
85:AA:519:A:C2'	85:AA:521:A:C8	2.86	0.59
35:BB:1434:G:C5	35:BB:1435:G:C4	2.91	0.59
85:AA:826:C:C6	85:AA:827:C:C5	2.91	0.59
85:AA:856:G:N2	85:AA:857:G:H1'	2.18	0.59
35:BB:893:U:C5	35:BB:894:A:C8	2.90	0.59
34:BA:1194:G:H2'	34:BA:1195:G:C8	2.38	0.59
34:BA:1291:A:C6	34:BA:1292:A:N1	2.71	0.59
34:BA:1293:A:C2	34:BA:1295:U:O2	2.56	0.59
34:BA:1555:G:C6	34:BA:1556:A:C6	2.90	0.59
34:BA:728:A:C2	34:BA:1593:U:C2	2.90	0.59
34:BA:19:G:C2	36:BC:36:G:C2	2.91	0.59
34:BA:319:C:C2	34:BA:320:G:C8	2.91	0.59
34:BA:269:G:N2	34:BA:437:G:H3'	2.18	0.59
34:BA:78:U:C2	34:BA:79:C:C5	2.90	0.59
35:BB:1121:A:H3'	35:BB:1122:C:H6	1.67	0.59
35:BB:1143:A:C6	35:BB:1144:A:C6	2.91	0.59
35:BB:1155:U:H2'	35:BB:1156:U:C6	2.37	0.59
35:BB:1295:A:H2	35:BB:1308:G:HO2'	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1446:C:H2'	35:BB:1447:U:C6	2.37	0.59
35:BB:376:A:H2'	35:BB:377:A:C8	2.36	0.59
35:BB:428:G:C4	35:BB:429:C:C5	2.91	0.59
35:BB:6:A:C2	35:BB:7:C:C2	2.91	0.59
37:BD:108:G:C6	37:BD:109:U:C4	2.91	0.59
38:BE:22:A:OP1	38:BE:23:G:H5'	2.03	0.59
47:BN:49:LYS:HA	47:BN:52:PHE:CE2	2.38	0.59
34:BA:561:U:O2'	34:BA:562:C:O4'	2.13	0.59
6:A5:25:MET:HA	85:AA:465:A:N1	2.17	0.59
85:AA:501:A:H2'	85:AA:502:A:C2	2.38	0.59
35:BB:817:C:C4	35:BB:823:G:N1	2.71	0.59
34:BA:556:A:C4	34:BA:557:U:C6	2.91	0.59
85:AA:1116:G:H2'	85:AA:1117:G:O4'	2.02	0.59
34:BA:277:A:C5	34:BA:278:U:C5	2.90	0.59
34:BA:268:U:O2'	59:BZ:97:HIS:CE1	2.55	0.59
35:BB:22:A:C2	35:BB:26:C:C6	2.91	0.59
35:BB:1543:C:C2	35:BB:1544:A:C8	2.91	0.59
85:AA:1287:C:C5	85:AA:1468:G:H5"	2.37	0.59
85:AA:551:C:H2'	85:AA:552:C:C6	2.37	0.59
85:AA:905:C:H4'	85:AA:908:C:C4	2.37	0.59
85:AA:410:A:C6	85:AA:411:U:C4	2.91	0.59
4:A3:177:PRO:HA	85:AA:65:A:H1'	1.85	0.59
35:BB:1431:G:C6	35:BB:1432:U:C4	2.91	0.59
19:AK:33:CYS:HA	85:AA:1792:C:C5	2.38	0.59
35:BB:1203:C:C4	35:BB:1204:C:C4	2.90	0.59
35:BB:1478:G:C6	35:BB:1479:C:C4	2.90	0.59
34:BA:1023:G:C5	35:BB:1267:C:H1'	2.38	0.59
34:BA:1437:G:C5	34:BA:1438:C:C5	2.90	0.59
34:BA:1502:G:C2	34:BA:1503:U:H1'	2.38	0.59
34:BA:161:U:C4	34:BA:323:C:C2	2.91	0.59
34:BA:435:U:C4	34:BA:436:U:N3	2.71	0.59
34:BA:498:A:C6	34:BA:704:G:C6	2.91	0.59
34:BA:729:C:H2'	34:BA:730:C:C6	2.37	0.59
34:BA:800:G:H2'	34:BA:801:U:C6	2.37	0.59
35:BB:1130:U:H2'	35:BB:1131:C:C5	2.38	0.59
35:BB:1139:A:C5	35:BB:1140:C:C5	2.90	0.59
35:BB:877:A:H3'	35:BB:877:A:N3	2.17	0.59
38:BE:125:C:O2	38:BE:126:G:C8	2.56	0.59
38:BE:127:G:N1	38:BE:128:G:C5	2.70	0.59
40:BG:25:G:C6	40:BG:26:G:C5	2.90	0.59
40:BG:28:A:C5	40:BG:29:U:C4	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:1:U:C3'	41:BH:2:U:H5'	2.32	0.59
47:BN:63:VAL:HG22	47:BN:75:ARG:O	2.03	0.59
35:BB:1468:A:H8	48:BO:129:ASN:HD22	1.51	0.59
48:BO:145:HIS:CE1	48:BO:146:ASN:HD21	2.20	0.59
49:BP:119:SER:O	49:BP:123:TRP:CD1	2.56	0.59
85:AA:376:C:C6	85:AA:423:G:C2	2.91	0.59
85:AA:454:G:C2	85:AA:455:G:C4	2.91	0.59
85:AA:479:C:C2	85:AA:485:A:C2	2.91	0.59
85:AA:93:G:N2	85:AA:491:G:H5'	2.18	0.59
85:AA:506:G:C2	85:AA:507:C:C5	2.91	0.59
85:AA:1129:A:H3'	85:AA:1130:G:H5"	1.83	0.59
85:AA:879:G:C5	85:AA:880:A:C5	2.90	0.59
85:AA:1908:A:C5	85:AA:1909:C:C4	2.91	0.59
21:AM:122:ARG:HH12	85:AA:2024:U:H4'	1.68	0.59
34:BA:195:G:C6	34:BA:289:A:N1	2.71	0.59
34:BA:594:G:C4	34:BA:684:G:C5	2.91	0.59
34:BA:595:U:H5	34:BA:1487:U:H3'	1.68	0.59
85:AA:258:G:C6	85:AA:259:A:C5	2.91	0.59
41:BH:10:U:C2	41:BH:20:A:C2	2.90	0.59
85:AA:1669:G:H2'	85:AA:1670:U:C6	2.38	0.59
85:AA:2218:G:H4'	85:AA:2219:G:O5'	2.02	0.59
34:BA:1287:G:H2'	34:BA:1288:U:C5	2.38	0.59
85:AA:114:C:H42	85:AA:365:G:H1	1.51	0.59
85:AA:431:G:C2	85:AA:441:C:C2	2.91	0.59
49:BP:136:PRO:CB	49:BP:140:HIS:HB3	2.32	0.59
34:BA:979:G:C4	34:BA:981:A:C5	2.91	0.59
35:BB:1055:G:C2	35:BB:1056:A:C8	2.91	0.59
85:AA:772:C:C6	85:AA:773:G:H8	2.21	0.59
2:A1:122:LYS:O	2:A1:139:HIS:CD2	2.55	0.59
40:BG:116:G:C5	40:BG:117:C:C5	2.91	0.59
85:AA:1790:G:H2'	85:AA:1791:U:C4	2.37	0.59
8:A7:179:LYS:HB3	8:A7:188:LEU:HD13	1.85	0.59
34:BA:1266:A:H2'	34:BA:1267:A:C8	2.38	0.59
34:BA:1084:A:H3'	34:BA:1085:G:C8	2.38	0.59
34:BA:1226:G:C5	34:BA:1227:U:C5	2.91	0.59
34:BA:1511:C:H2'	34:BA:1512:C:C5	2.38	0.59
34:BA:1550:G:C6	34:BA:1551:G:C5	2.91	0.59
34:BA:161:U:C6	34:BA:165:C:C2	2.90	0.59
34:BA:1800:G:C2	34:BA:1801:G:C4	2.91	0.59
34:BA:185:A:C2	34:BA:304:G:C5	2.91	0.59
34:BA:304:G:C6	34:BA:305:C:C5	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1121:A:OP1	35:BB:1121:A:H4'	2.02	0.59
34:BA:1229:G:C4	35:BB:1275:A:C2	2.90	0.59
35:BB:68:G:H2'	35:BB:69:A:C4	2.38	0.59
35:BB:781:U:OP1	35:BB:781:U:H6	1.86	0.59
35:BB:784:C:H2'	35:BB:785:G:H8	1.66	0.59
36:BC:124:A:N1	36:BC:139:A:N1	2.50	0.59
36:BC:35:C:C2	36:BC:36:G:C8	2.90	0.59
36:BC:49:G:H2'	36:BC:50:C:C6	2.37	0.59
37:BD:8:A:C5	37:BD:9:C:C5	2.91	0.59
39:BF:19:A:H2'	39:BF:20:U:C5	2.38	0.59
41:BH:39:G:C4	41:BH:113:G:N1	2.70	0.59
85:AA:157:G:C2	85:AA:166:C:C2	2.91	0.59
85:AA:2122:A:O5'	85:AA:2122:A:C8	2.56	0.59
85:AA:2127:G:C4	85:AA:2192:A:C2	2.91	0.59
35:BB:836:U:H3'	35:BB:837:A:C8	2.38	0.59
35:BB:857:G:C5	35:BB:858:U:C5	2.90	0.59
85:AA:2046:G:H2'	85:AA:2047:U:C6	2.38	0.59
35:BB:670:G:C8	35:BB:1330:A:C8	2.91	0.59
85:AA:1453:U:H3'	85:AA:1454:U:C6	2.37	0.59
85:AA:1469:G:N2	85:AA:1471:G:C4	2.71	0.59
44:BK:33:THR:H	44:BK:69:ARG:NH1	2.01	0.59
85:AA:1541:G:C2	85:AA:1542:A:C5	2.91	0.59
85:AA:914:U:H3'	85:AA:915:G:C8	2.38	0.59
34:BA:1425:G:C5	34:BA:1426:A:C6	2.91	0.59
85:AA:348:G:C5	85:AA:349:C:C5	2.90	0.59
34:BA:587:U:C6	34:BA:587:U:H5"	2.37	0.59
34:BA:690:G:H1'	34:BA:691:A:C4	2.37	0.59
85:AA:1887:G:C5	85:AA:1888:U:C5	2.91	0.59
35:BB:1491:G:C6	35:BB:1492:C:C4	2.91	0.59
34:BA:1316:G:C4	34:BA:1317:U:C4	2.91	0.59
35:BB:687:C:H2'	35:BB:688:U:C6	2.38	0.59
34:BA:125:G:N2	34:BA:139:U:H1'	2.17	0.58
34:BA:13:U:N3	36:BC:155:C:N3	2.51	0.58
34:BA:1412:G:C4	34:BA:1413:G:C8	2.91	0.58
34:BA:141:G:C2	34:BA:142:A:C4	2.91	0.58
34:BA:1739:G:N1	34:BA:1785:G:N1	2.51	0.58
34:BA:52:G:C6	34:BA:53:G:C4	2.91	0.58
34:BA:58:A:C4	34:BA:59:A:C8	2.91	0.58
34:BA:744:G:C8	34:BA:744:G:O5'	2.56	0.58
34:BA:798:G:C4	34:BA:800:G:N9	2.70	0.58
35:BB:1110:G:N2	35:BB:1155:U:C2	2.71	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1141:A:C5	35:BB:1142:C:C4	2.91	0.58
35:BB:1455:A:C2	35:BB:1456:G:C5	2.90	0.58
35:BB:483:C:C5	35:BB:484:G:C8	2.90	0.58
35:BB:8:U:H2'	35:BB:9:G:C8	2.38	0.58
36:BC:96:A:C5	36:BC:97:U:C4	2.91	0.58
37:BD:32:A:C6	37:BD:41:G:C4	2.91	0.58
37:BD:48:G:N2	37:BD:49:A:H62	2.01	0.58
38:BE:196:C:H2'	38:BE:197:A:H8	1.67	0.58
38:BE:51:C:N3	38:BE:52:U:C5	2.71	0.58
40:BG:17:A:C6	40:BG:18:U:C4	2.91	0.58
40:BG:69:G:H2'	40:BG:70:C:C6	2.38	0.58
41:BH:38:G:O6	41:BH:113:G:C6	2.56	0.58
34:BA:765:U:C6	59:BZ:2:VAL:HG12	2.38	0.58
85:AA:636:G:C6	85:AA:637:U:C4	2.90	0.58
85:AA:93:G:C6	85:AA:94:C:C4	2.91	0.58
35:BB:837:A:H5"	35:BB:1026:G:N3	2.17	0.58
35:BB:802:G:H2'	35:BB:804:U:C4	2.38	0.58
85:AA:879:G:C2	85:AA:927:A:C4	2.91	0.58
85:AA:1565:G:C5	85:AA:1566:A:C5	2.91	0.58
85:AA:2009:A:C6	85:AA:2036:A:C8	2.91	0.58
85:AA:1515:A:C6	85:AA:1516:A:C5	2.91	0.58
27:AT:15:SER:HA	85:AA:906:U:C5	2.38	0.58
85:AA:744:C:C2	85:AA:745:C:C6	2.91	0.58
35:BB:608:A:C2	35:BB:609:G:C4	2.90	0.58
9:A8:23:VAL:H	9:A8:38:ASN:CB	2.15	0.58
21:AM:83:TRP:CZ3	85:AA:1968:A:C2	2.91	0.58
35:BB:889:U:H2'	35:BB:891:U:C5	2.38	0.58
27:AT:21:LYS:H	27:AT:21:LYS:HD2	1.67	0.58
34:BA:1025:A:C4	34:BA:1026:C:C5	2.91	0.58
34:BA:1046:G:N1	34:BA:1522:G:C6	2.71	0.58
34:BA:1648:G:C8	34:BA:1650:G:C6	2.92	0.58
34:BA:171:U:C6	34:BA:171:U:H3'	2.38	0.58
34:BA:333:A:C2	34:BA:357:A:C8	2.91	0.58
34:BA:355:U:C4	34:BA:356:C:C4	2.91	0.58
34:BA:424:U:H2'	34:BA:425:G:C8	2.38	0.58
34:BA:480:G:C6	36:BC:9:G:C6	2.91	0.58
34:BA:747:G:C5	34:BA:748:C:C5	2.91	0.58
34:BA:756:A:C4	34:BA:757:G:H1'	2.37	0.58
34:BA:804:G:N7	34:BA:805:A:C4	2.71	0.58
35:BB:1125:A:C5	35:BB:1126:A:C4	2.91	0.58
35:BB:1205:A:C8	35:BB:1206:G:C8	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:426:A:C8	35:BB:428:G:C4	2.90	0.58
37:BD:101:A:C5	37:BD:102:C:C5	2.91	0.58
37:BD:106:G:C6	37:BD:107:G:C5	2.91	0.58
38:BE:141:A:C8	38:BE:144:A:C8	2.91	0.58
38:BE:152:U:C4	38:BE:154:A:C2	2.91	0.58
40:BG:76:C:C5	40:BG:122:G:C2	2.92	0.58
40:BG:49:A:C5	40:BG:51:U:C4	2.91	0.58
85:AA:1495:G:C5	85:AA:1496:U:C5	2.91	0.58
35:BB:815:G:C2	35:BB:816:U:C2	2.91	0.58
35:BB:516:G:C2	35:BB:517:G:C4	2.90	0.58
13:AE:171:PHE:CE1	85:AA:943:U:C4	2.91	0.58
34:BA:258:C:C2	34:BA:259:C:C5	2.91	0.58
34:BA:602:G:C2'	34:BA:603:U:H5'	2.33	0.58
34:BA:597:C:C5	34:BA:598:G:C5	2.92	0.58
35:BB:1514:G:C5	35:BB:1515:C:C5	2.92	0.58
85:AA:2059:A:C6	85:AA:2072:G:C6	2.90	0.58
85:AA:1262:A:C6	85:AA:1263:G:C4	2.91	0.58
85:AA:826:C:C6	85:AA:827:C:H5	2.21	0.58
34:BA:1001:G:C4	34:BA:1002:U:C6	2.90	0.58
34:BA:1001:G:H2'	34:BA:1002:U:H6	1.68	0.58
85:AA:1016:G:H1'	85:AA:1055:U:C5	2.37	0.58
35:BB:1382:U:H3'	35:BB:1383:C:H6	1.68	0.58
44:BK:134:ILE:HG22	44:BK:136:LEU:O	2.02	0.58
35:BB:766:G:H2'	35:BB:767:A:C8	2.37	0.58
85:AA:386:G:C4	85:AA:387:U:H5'	2.38	0.58
34:BA:409:A:H2'	34:BA:410:G:O4'	2.03	0.58
34:BA:1069:U:H2'	34:BA:1070:G:C8	2.38	0.58
34:BA:1476:G:C2'	34:BA:1477:C:H5'	2.33	0.58
34:BA:1566:G:C5	34:BA:1567:G:C5	2.91	0.58
34:BA:162:G:C2	34:BA:320:G:C8	2.90	0.58
34:BA:1825:U:H5"	34:BA:1825:U:H6	1.67	0.58
34:BA:19:G:H1'	36:BC:103:A:N3	2.19	0.58
34:BA:38:G:C6	34:BA:39:C:C2	2.91	0.58
34:BA:399:G:C6	34:BA:400:A:C8	2.91	0.58
34:BA:738:C:C6	34:BA:739:A:C8	2.92	0.58
35:BB:1099:U:C4	35:BB:1100:C:C5	2.91	0.58
35:BB:1316:U:H2'	35:BB:1317:U:C6	2.38	0.58
35:BB:1452:U:N3	40:BG:171:A:C2	2.71	0.58
35:BB:1457:A:C5	35:BB:1462:G:O6	2.56	0.58
35:BB:378:C:C2	35:BB:379:U:C6	2.90	0.58
37:BD:31:U:H3	37:BD:46:G:H1	1.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:2:G:C6	37:BD:3:G:C5	2.92	0.58
40:BG:30:C:C2	40:BG:176:G:C2	2.91	0.58
41:BH:3:U:H2'	41:BH:4:U:C5	2.38	0.58
53:BT:99:LEU:HA	53:BT:102:LEU:HG	1.84	0.58
85:AA:2132:A:C2	85:AA:2187:G:C2	2.92	0.58
85:AA:456:A:C6	85:AA:457:G:C5	2.91	0.58
85:AA:681:G:C5	85:AA:687:G:C6	2.91	0.58
34:BA:633:G:N3	34:BA:649:A:C2	2.71	0.58
35:BB:834:U:H2'	35:BB:835:C:C6	2.38	0.58
85:AA:1116:G:C6	85:AA:1117:G:C5	2.91	0.58
34:BA:264:A:C6	34:BA:279:U:H1'	2.38	0.58
35:BB:1272:G:C6	35:BB:1273:G:C5	2.92	0.58
35:BB:363:A:C4	35:BB:364:U:O4	2.55	0.58
51:BR:56:ARG:HD2	51:BR:57:CYS:H	1.67	0.58
85:AA:317:A:H2'	85:AA:318:A:C8	2.38	0.58
85:AA:564:A:H2'	85:AA:565:G:H5'	1.84	0.58
32:AY:35:PHE:CD1	32:AY:38:LEU:HD12	2.38	0.58
85:AA:385:A:C5	85:AA:389:A:C2	2.91	0.58
34:BA:1002:U:O5'	34:BA:1002:U:C6	2.56	0.58
39:BF:51:C:O2	39:BF:52:A:H8	1.85	0.58
34:BA:687:G:H3'	34:BA:687:G:C8	2.38	0.58
35:BB:412:A:C4	35:BB:548:A:C6	2.91	0.58
11:AC:79:SER:HA	20:AL:128:PRO:N	2.18	0.58
24:AQ:42:ASN:N	24:AQ:43:GLU:HA	2.18	0.58
59:BZ:49:LYS:HA	59:BZ:70:CYS:SG	2.43	0.58
34:BA:1691:G:C2	34:BA:1825:U:C5	2.92	0.58
34:BA:92:G:C6	34:BA:93:A:C6	2.91	0.58
34:BA:368:U:C5	35:BB:1234:G:H1'	2.38	0.58
35:BB:1:U:C3'	35:BB:2:C:H4'	2.32	0.58
35:BB:614:U:H3'	35:BB:615:A:C8	2.39	0.58
35:BB:77:A:C6	35:BB:78:C:C5	2.92	0.58
36:BC:106:G:C6	36:BC:107:C:C5	2.91	0.58
36:BC:49:G:C2	36:BC:50:C:C2	2.92	0.58
37:BD:25:G:C8	37:BD:25:G:H3'	2.37	0.58
37:BD:76:U:O4	37:BD:100:A:C8	2.56	0.58
38:BE:120:C:C4	38:BE:121:G:C4	2.91	0.58
39:BF:28:C:C6	52:BS:177:VAL:HB	2.39	0.58
49:BP:24:VAL:HG22	49:BP:25:GLY:H	1.67	0.58
41:BH:98:U:P	55:BV:63:LYS:CB	2.90	0.58
85:AA:2120:C:C4	85:AA:2121:G:C5	2.92	0.58
85:AA:83:U:H2'	85:AA:84:C:C6	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:659:U:H3'	34:BA:660:C:H5"	1.85	0.58
35:BB:823:G:C6	35:BB:824:C:C6	2.91	0.58
53:BT:170:ARG:CA	85:AA:957:A:N6	2.64	0.58
40:BG:149:U:C2	40:BG:150:A:C5	2.92	0.58
85:AA:188:G:C4	85:AA:189:G:C8	2.92	0.58
35:BB:1544:A:C6	35:BB:1545:U:C4	2.92	0.58
85:AA:1292:A:C6	85:AA:1293:U:C4	2.92	0.58
85:AA:1458:G:C6	85:AA:1459:C:C4	2.91	0.58
29:AV:15:CYS:HA	85:AA:1449:C:H4'	1.85	0.58
85:AA:2073:U:C2	85:AA:2074:G:C8	2.91	0.58
85:AA:823:C:C2	85:AA:858:G:C2	2.92	0.58
85:AA:1434:U:C4	85:AA:1438:C:C5'	2.86	0.58
35:BB:635:A:H61	35:BB:646:U:H3	1.51	0.58
85:AA:1797:U:H2'	85:AA:1799:C:OP1	2.03	0.58
35:BB:1382:U:H3'	35:BB:1383:C:C6	2.37	0.58
42:BI:156:VAL:HA	42:BI:159:PHE:CD1	2.38	0.58
35:BB:154:A:H2'	35:BB:155:G:C8	2.39	0.58
34:BA:1025:A:C5	34:BA:1026:C:C4	2.91	0.58
34:BA:1098:G:C2	35:BB:1084:A:C2	2.92	0.58
34:BA:1107:A:C4	34:BA:1108:U:C6	2.92	0.58
34:BA:1705:C:H3'	34:BA:1722:U:O4	2.04	0.58
34:BA:1731:A:C5	34:BA:1793:G:H1'	2.38	0.58
34:BA:174:A:C2	34:BA:313:C:O2	2.56	0.58
34:BA:186:G:C2	34:BA:187:G:C4	2.92	0.58
34:BA:236:A:H1'	34:BA:239:C:H5	1.68	0.58
34:BA:747:G:C6	34:BA:890:G:C6	2.91	0.58
35:BB:1396:G:C2	35:BB:1397:G:C8	2.92	0.58
35:BB:696:G:C2	35:BB:697:G:C5	2.92	0.58
35:BB:6:A:C4	35:BB:7:C:C5	2.92	0.58
35:BB:85:A:C5	35:BB:91:G:C5	2.92	0.58
36:BC:150:U:H2'	36:BC:151:G:C8	2.39	0.58
36:BC:54:G:C4	36:BC:55:U:C6	2.91	0.58
37:BD:30:A:H1'	37:BD:49:A:N1	2.18	0.58
38:BE:136:G:H2'	38:BE:137:A:C8	2.38	0.58
34:BA:1296:U:H3'	49:BP:54:LYS:HZ2	1.68	0.58
34:BA:544:U:C6	34:BA:544:U:C3'	2.86	0.58
35:BB:525:U:C4	85:AA:2113:U:H5'	2.28	0.58
85:AA:2195:A:C5	85:AA:2196:G:C5	2.91	0.58
85:AA:423:G:N1	85:AA:424:A:C4	2.71	0.58
85:AA:52:U:H2'	85:AA:53:G:C8	2.38	0.58
85:AA:57:G:C4	85:AA:58:C:C5	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:562:A:C6	35:BB:563:A:C2	2.91	0.58
85:AA:963:U:H4'	85:AA:964:C:C4	2.38	0.58
34:BA:946:A:C6	34:BA:947:A:C5	2.92	0.58
34:BA:291:C:C2	34:BA:292:C:C6	2.91	0.58
85:AA:1984:A:C5	85:AA:1985:C:C5	2.90	0.58
34:BA:598:G:H3'	34:BA:1494:G:C5'	2.34	0.58
85:AA:1466:U:C6	85:AA:1466:U:C3'	2.87	0.58
85:AA:1699:A:H2'	85:AA:1700:C:C6	2.39	0.58
85:AA:972:G:C4	85:AA:973:U:C5	2.90	0.58
85:AA:337:C:C2'	85:AA:338:G:H5'	2.32	0.58
34:BA:529:A:N1	34:BA:530:A:C5	2.72	0.58
85:AA:1726:G:H1	85:AA:1814:U:H3	1.52	0.58
34:BA:508:C:H4'	34:BA:511:U:C2	2.39	0.58
85:AA:1439:A:C6	85:AA:1440:C:C5	2.91	0.58
35:BB:1246:C:C4	35:BB:1247:C:C5	2.92	0.58
35:BB:281:U:H3	35:BB:301:G:H1	1.52	0.58
34:BA:1225:A:C5	34:BA:1226:G:C5	2.92	0.58
34:BA:178:C:C2	34:BA:179:U:C4	2.92	0.58
34:BA:387:A:C2	34:BA:388:A:C6	2.91	0.58
34:BA:58:A:C2	34:BA:59:A:H1'	2.39	0.58
35:BB:100:A:H5"	53:BT:84:THR:HA	1.85	0.58
35:BB:1103:A:C6	35:BB:1105:G:C4	2.92	0.58
35:BB:1220:A:C6	35:BB:1221:G:C5	2.91	0.58
35:BB:1241:U:C4	35:BB:1242:C:C5	2.91	0.58
35:BB:596:C:H2'	35:BB:597:C:H6	1.69	0.58
37:BD:30:A:C6	37:BD:48:G:C6	2.90	0.58
38:BE:120:C:C4	38:BE:121:G:C5	2.91	0.58
38:BE:48:G:C2	38:BE:61:A:C2	2.91	0.58
39:BF:63:U:C6	39:BF:63:U:O5'	2.57	0.58
40:BG:38:A:H2	40:BG:164:U:H3	1.51	0.58
39:BF:25:G:H5'	48:BO:55:ARG:HH12	1.68	0.58
58:BY:33:LEU:HD22	58:BY:35:PHE:CZ	2.38	0.58
4:A3:64:MET:HE1	4:A3:109:ILE:HG23	1.84	0.58
85:AA:1499:G:C2	85:AA:1503:G:C6	2.91	0.58
85:AA:641:A:C4	85:AA:642:G:H1'	2.38	0.58
26:AS:17:ARG:HH22	85:AA:684:G:H3'	1.68	0.58
35:BB:824:C:H2'	35:BB:825:U:C5'	2.34	0.58
35:BB:845:C:H2'	35:BB:846:A:C8	2.39	0.58
85:AA:1114:A:C6	85:AA:1214:C:N4	2.71	0.58
35:BB:1165:A:C2	35:BB:1186:A:C2	2.92	0.58
85:AA:880:A:C2	85:AA:881:C:C2	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:931:G:N3	85:AA:931:G:H2'	2.18	0.58
35:BB:1493:A:C6	35:BB:1514:G:C6	2.91	0.58
35:BB:362:A:C4	35:BB:363:A:H1'	2.37	0.58
23:AP:101:SER:HA	85:AA:2102:A:H61	1.67	0.58
85:AA:585:G:H5"	85:AA:586:G:C8	2.39	0.58
85:AA:890:U:O2	85:AA:917:A:C2	2.56	0.58
35:BB:1004:A:C2	35:BB:1015:U:O2	2.56	0.58
35:BB:503:G:H3'	35:BB:504:C:C6	2.37	0.58
34:BA:144:C:H5'	34:BA:145:U:C6	2.38	0.58
85:AA:1432:C:N3	85:AA:1435:C:C2	2.71	0.58
44:BK:51:HIS:CD2	44:BK:166:VAL:O	2.57	0.58
47:BN:59:LEU:HA	47:BN:158:TYR:CE2	2.39	0.58
56:BW:116:ILE:HG22	56:BW:117:ALA:H	1.68	0.58
23:AP:60:SER:HA	23:AP:80:LEU:HD21	1.86	0.58
16:AH:57:ALA:HB3	16:AH:60:ASP:HB3	1.86	0.58
35:BB:543:G:C5	35:BB:544:C:C4	2.91	0.58
26:AS:57:VAL:HG21	26:AS:115:ILE:HG22	1.84	0.58
58:BY:83:GLU:CB	85:AA:2161:C:C4'	2.82	0.58
85:AA:2160:U:H4'	85:AA:2161:C:C6	2.38	0.58
34:BA:1203:G:C5	34:BA:1204:U:C6	2.92	0.58
34:BA:1557:G:C4	34:BA:1558:C:C5	2.92	0.58
34:BA:1652:G:C5	34:BA:1653:G:C8	2.92	0.58
34:BA:1657:A:C6	34:BA:1658:G:C4	2.91	0.58
34:BA:1708:A:N3	34:BA:1708:A:H2'	2.18	0.58
34:BA:1781:A:C2	34:BA:1782:C:N1	2.72	0.58
34:BA:212:A:C6	34:BA:213:A:C6	2.92	0.58
34:BA:63:A:C2	34:BA:65:A:C1'	2.85	0.58
34:BA:804:G:C6	34:BA:805:A:N3	2.71	0.58
35:BB:1157:G:C6	35:BB:1158:C:C4	2.92	0.58
35:BB:1221:G:C6	35:BB:1222:A:N1	2.72	0.58
35:BB:402:G:C6	35:BB:403:U:C4	2.92	0.58
35:BB:110:U:C4	35:BB:587:A:C4	2.91	0.58
35:BB:595:U:C2	35:BB:596:C:C5	2.92	0.58
35:BB:85:A:C2	35:BB:91:G:C8	2.92	0.58
34:BA:481:A:C2	36:BC:8:C:C2	2.92	0.58
37:BD:108:G:C5	37:BD:109:U:C4	2.92	0.58
38:BE:133:C:H1'	38:BE:134:A:C8	2.39	0.58
38:BE:150:G:C5	38:BE:163:A:C2	2.91	0.58
38:BE:201:A:C4	38:BE:202:C:C2	2.91	0.58
40:BG:111:C:C2	40:BG:112:C:C6	2.91	0.58
40:BG:45:G:C2	40:BG:66:C:C2	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:33:LEU:HB3	58:BY:35:PHE:CE2	2.39	0.58
58:BY:63:HIS:O	58:BY:63:HIS:CG	2.54	0.58
85:AA:128:U:H1'	85:AA:180:A:H4'	1.85	0.58
85:AA:159:G:C2	85:AA:164:G:C5	2.92	0.58
85:AA:541:A:C2	85:AA:542:G:C8	2.90	0.58
85:AA:932:A:C4	85:AA:933:U:C4	2.92	0.58
35:BB:665:A:C2	35:BB:666:A:C4	2.92	0.58
27:AT:10:VAL:HG22	27:AT:34:HIS:HB3	1.86	0.58
85:AA:210:G:C8	85:AA:242:G:OP1	2.56	0.58
8:A7:34:THR:HG23	8:A7:73:VAL:HB	1.86	0.58
85:AA:983:A:H2'	85:AA:984:A:C8	2.39	0.58
85:AA:571:G:C6	85:AA:572:G:C6	2.91	0.58
29:AV:86:ARG:CZ	85:AA:1529:A:H4'	2.34	0.58
85:AA:715:G:C6	85:AA:716:G:C5	2.92	0.58
85:AA:895:C:H2'	85:AA:896:C:C6	2.38	0.58
85:AA:520:A:C5'	85:AA:521:A:H3'	2.34	0.58
85:AA:867:G:O2'	85:AA:868:A:C8	2.52	0.58
39:BF:36:G:C2	39:BF:48:G:C4	2.92	0.58
85:AA:1296:G:H1	85:AA:1446:U:H3	1.50	0.58
34:BA:835:U:C6	34:BA:836:U:C6	2.91	0.58
35:BB:439:G:C2	35:BB:440:U:C5	2.90	0.58
35:BB:412:A:C5	35:BB:548:A:C6	2.92	0.58
52:BS:98:ASP:CG	52:BS:99:VAL:H	2.07	0.58
21:AM:5:LEU:HD23	28:AU:50:LYS:HA	1.85	0.58
12:AD:98:HIS:CE1	12:AD:100:VAL:HG12	2.39	0.58
38:BE:56:U:H2'	38:BE:57:U:H5'	1.85	0.58
23:AP:216:THR:HG21	85:AA:14:C:OP1	2.03	0.58
13:AE:19:GLN:NE2	13:AE:24:TYR:HA	2.18	0.58
34:BA:1418:G:C6	34:BA:1419:A:C5	2.90	0.58
34:BA:1610:A:C6	34:BA:1611:A:C5	2.92	0.58
34:BA:1744:C:H2'	34:BA:1745:G:C8	2.39	0.58
34:BA:18:G:H1	36:BC:149:A:H61	1.52	0.58
34:BA:238:C:C6	34:BA:238:C:H3'	2.38	0.58
34:BA:248:G:H2'	59:BZ:59:LYS:HA	1.86	0.58
34:BA:29:U:H2'	34:BA:30:A:C8	2.39	0.58
34:BA:359:G:OP2	34:BA:360:C:C2	2.56	0.58
34:BA:484:A:N1	36:BC:6:G:C6	2.71	0.58
34:BA:768:G:C4	34:BA:769:U:H5	2.18	0.58
34:BA:943:G:C2	34:BA:944:G:C4	2.92	0.58
35:BB:1109:A:C2	35:BB:1110:G:C4	2.90	0.58
35:BB:1120:A:C2	35:BB:1129:C:C2	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1171:U:H5'	54:BU:88:ARG:O	2.04	0.58
35:BB:1239:A:C2	35:BB:1240:A:C4	2.92	0.58
35:BB:1342:C:N3	35:BB:1397:G:C6	2.72	0.58
35:BB:372:U:H2'	35:BB:373:C:C6	2.39	0.58
35:BB:124:G:C5	35:BB:380:G:O6	2.57	0.58
35:BB:612:A:C5	35:BB:613:C:C5	2.92	0.58
35:BB:614:U:C2	35:BB:615:A:C8	2.92	0.58
34:BA:20:A:C2	36:BC:35:C:C4	2.91	0.58
36:BC:7:U:C6	36:BC:8:C:C5	2.92	0.58
37:BD:79:G:C6	37:BD:98:G:C6	2.91	0.58
40:BG:179:C:H2'	40:BG:180:C:H6	1.69	0.58
41:BH:121:A:C2	41:BH:123:G:C8	2.91	0.58
41:BH:40:C:C4	41:BH:41:A:C4	2.91	0.58
41:BH:97:C:H6	55:BV:63:LYS:HG2	1.68	0.58
34:BA:743:A:N7	47:BN:7:ALA:CB	2.67	0.58
34:BA:12:G:H5"	57:BX:64:ALA:HB2	1.84	0.58
85:AA:166:C:C2	85:AA:167:A:C8	2.92	0.58
85:AA:2128:G:O2'	85:AA:2129:U:H5'	2.04	0.58
35:BB:856:U:C2	35:BB:857:G:C8	2.92	0.58
85:AA:1916:A:C2	85:AA:1997:G:C2	2.92	0.58
34:BA:596:G:N1	34:BA:1488:C:C6	2.72	0.58
85:AA:1686:G:C5	85:AA:1687:U:C5	2.92	0.58
85:AA:907:G:H2'	85:AA:908:C:C5	2.39	0.58
85:AA:1240:A:C2	85:AA:1263:G:C6	2.92	0.58
85:AA:348:G:C2	85:AA:349:C:C2	2.91	0.58
85:AA:116:G:C8	85:AA:117:C:C6	2.92	0.58
35:BB:769:C:H1'	35:BB:770:G:C4	2.37	0.58
21:AM:49:ALA:HB2	21:AM:71:VAL:HG21	1.86	0.58
34:BA:1044:A:C6	34:BA:1525:G:C5	2.92	0.58
34:BA:1107:A:C5	34:BA:1108:U:C5	2.91	0.58
34:BA:1174:A:C5	34:BA:1175:G:C5	2.92	0.58
34:BA:1464:C:H2'	34:BA:1465:C:C6	2.38	0.58
34:BA:1469:G:H2'	34:BA:1470:G:C8	2.38	0.58
34:BA:425:G:C6	34:BA:426:A:C6	2.91	0.58
34:BA:734:G:H2'	34:BA:1582:C:H42	1.69	0.58
34:BA:759:A:H2'	34:BA:760:G:C8	2.38	0.58
34:BA:774:A:C5	34:BA:775:C:C5	2.91	0.58
34:BA:774:A:C5	34:BA:775:C:C6	2.92	0.58
34:BA:814:C:H1'	42:BI:101:ARG:HH12	1.68	0.58
34:BA:936:A:C6	34:BA:937:G:C5	2.91	0.58
35:BB:1098:G:C2	35:BB:1254:G:C5	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1236:A:C6	35:BB:1237:C:C5	2.92	0.58
35:BB:1291:G:N2	35:BB:1292:G:H1'	2.19	0.58
36:BC:117:A:C6	36:BC:118:U:C4	2.92	0.58
36:BC:22:U:C5	59:BZ:17:PHE:CE2	2.91	0.58
36:BC:88:A:H8	36:BC:88:A:O5'	1.86	0.58
38:BE:108:U:H2'	38:BE:109:C:H1'	1.86	0.58
38:BE:115:U:C4	38:BE:116:U:C4	2.92	0.58
38:BE:20:C:C2	38:BE:199:A:C2	2.91	0.58
40:BG:44:G:C5	40:BG:67:A:C6	2.92	0.58
85:AA:427:G:C2	85:AA:448:G:C2	2.92	0.58
85:AA:48:G:C6	85:AA:497:G:C2	2.92	0.58
85:AA:63:G:N1	85:AA:64:A:C5	2.71	0.58
85:AA:959:C:C6	85:AA:995:G:N2	2.72	0.58
35:BB:534:C:C4	35:BB:535:U:C4	2.91	0.58
85:AA:806:G:C4	85:AA:807:A:C8	2.92	0.58
21:AM:138:CYS:SG	85:AA:1898:C:C2	2.96	0.58
34:BA:1210:A:H4'	54:BU:131:SER:CA	2.32	0.58
35:BB:1511:U:C4	35:BB:1512:C:C5	2.91	0.58
85:AA:1289:U:C3'	85:AA:1290:G:H4'	2.34	0.58
85:AA:291:G:C6	85:AA:292:C:C5	2.92	0.58
85:AA:584:G:C6	85:AA:585:G:C4	2.92	0.58
3:A2:49:LYS:O	3:A2:52:ILE:HG23	2.04	0.58
85:AA:903:G:H2'	85:AA:904:U:C5	2.39	0.58
85:AA:382:G:C6	85:AA:383:C:C4	2.92	0.58
35:BB:1504:U:C4	49:BP:139:TRP:CE2	2.91	0.58
34:BA:1432:C:H4'	48:BO:36:ARG:NE	2.19	0.58
85:AA:1934:A:C2	85:AA:1935:G:C5	2.92	0.58
56:BW:36:LEU:HD22	56:BW:62:ALA:HB3	1.85	0.58
48:BO:166:TRP:C	48:BO:166:TRP:CD2	2.75	0.58
34:BA:1291:A:C5	34:BA:1292:A:C6	2.92	0.58
34:BA:1465:C:H2'	34:BA:1466:U:C6	2.39	0.58
34:BA:1562:G:H2'	34:BA:1563:G:C8	2.38	0.58
34:BA:1719:G:N2	34:BA:1720:U:C2	2.72	0.58
34:BA:825:G:C6	34:BA:843:G:C6	2.92	0.58
35:BB:1141:A:C6	35:BB:1142:C:C4	2.92	0.58
35:BB:1162:A:C5	35:BB:1201:G:C4	2.91	0.58
35:BB:1232:A:C2	35:BB:1233:U:C5	2.92	0.58
35:BB:1216:G:C6	35:BB:1248:A:C6	2.92	0.58
35:BB:414:C:C2	35:BB:415:A:C8	2.92	0.58
36:BC:139:A:H3'	36:BC:140:U:C5	2.39	0.58
34:BA:297:A:C5	36:BC:32:U:C4	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:115:A:C6	37:BD:116:C:C4	2.92	0.58
37:BD:70:C:H2'	37:BD:71:G:C8	2.39	0.58
38:BE:111:C:O3'	38:BE:112:G:C8	2.56	0.58
38:BE:144:A:C8	38:BE:144:A:OP1	2.56	0.58
38:BE:166:G:C2	38:BE:167:U:C2	2.92	0.58
40:BG:72:G:N1	40:BG:126:G:C5	2.72	0.58
41:BH:38:G:N1	41:BH:113:G:C2	2.72	0.58
45:BL:110:GLY:HA3	45:BL:135:TYR:CD1	2.39	0.58
85:AA:2127:G:H2'	85:AA:2128:G:C8	2.38	0.58
85:AA:513:G:C5	85:AA:514:U:C4	2.91	0.58
34:BA:666:C:C2	34:BA:667:U:C6	2.92	0.58
35:BB:794:G:C2	35:BB:795:A:C4	2.91	0.58
35:BB:825:U:C2	35:BB:826:G:C8	2.91	0.58
85:AA:1210:U:H2'	85:AA:1211:C:C6	2.39	0.58
35:BB:1197:G:C5	35:BB:1198:C:C4	2.92	0.58
11:AC:236:ASP:OD1	20:AL:90:HIS:CD2	2.57	0.58
85:AA:1656:C:H2'	85:AA:1657:C:C6	2.39	0.58
85:AA:1863:A:C6	85:AA:1864:G:C5	2.92	0.58
85:AA:1910:A:C6	85:AA:2006:G:H4'	2.39	0.58
17:AI:45:HIS:HE1	85:AA:2014:G:C8	2.21	0.58
34:BA:293:A:C2	34:BA:294:C:C2	2.91	0.58
34:BA:679:U:C5	34:BA:680:C:C4	2.92	0.58
85:AA:1984:A:C6	85:AA:1985:C:C4	2.92	0.58
22:AO:63:ALA:N	85:AA:1916:A:H5"	2.19	0.58
34:BA:596:G:N1	34:BA:1488:C:C5	2.72	0.58
85:AA:1688:U:H1'	85:AA:1692:U:C2	2.39	0.58
85:AA:1706:A:OP2	85:AA:1706:A:C8	2.56	0.58
7:A6:82:TYR:HA	7:A6:148:ARG:HA	1.83	0.58
85:AA:2142:A:N1	85:AA:2176:U:N3	2.52	0.58
85:AA:553:G:H1	85:AA:574:U:H3	1.52	0.58
85:AA:787:U:C5	85:AA:788:G:N1	2.71	0.58
85:AA:71:G:H2'	85:AA:76:G:H1	1.69	0.58
34:BA:1095:G:C5	34:BA:1096:C:C5	2.92	0.58
85:AA:821:U:O2	85:AA:861:G:C2	2.56	0.58
85:AA:768:C:H2'	85:AA:769:C:C6	2.38	0.58
85:AA:1102:C:H2'	85:AA:1103:A:C8	2.38	0.58
35:BB:1480:G:H22	35:BB:1482:A:H3'	1.68	0.58
4:A3:45:ALA:HB3	4:A3:46:PHE:CZ	2.38	0.58
26:AS:131:TYR:HA	26:AS:134:TYR:CE2	2.38	0.58
56:BW:47:ARG:HB3	56:BW:47:ARG:HH11	1.68	0.58
34:BA:1007:G:C4	34:BA:1024:A:C5	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1319:A:C4	37:BD:88:U:H5”	2.38	0.57
34:BA:1451:A:H2’	34:BA:1452:U:H4’	1.85	0.57
34:BA:1293:A:C6	34:BA:1454:G:N2	2.72	0.57
34:BA:1458:A:C4	34:BA:1460:U:C5	2.92	0.57
34:BA:1551:G:C6	34:BA:1552:C:C4	2.91	0.57
34:BA:1656:A:H2’	34:BA:1657:A:C8	2.38	0.57
34:BA:1745:G:C6	34:BA:1746:G:C5	2.92	0.57
34:BA:373:G:C6	34:BA:374:U:C5	2.92	0.57
34:BA:474:A:C6	34:BA:475:A:C6	2.92	0.57
34:BA:843:G:C2	34:BA:844:U:C2	2.92	0.57
34:BA:897:U:H3’	47:BN:14:ARG:CZ	2.34	0.57
34:BA:89:G:C8	34:BA:91:C:C4	2.92	0.57
34:BA:933:U:C5	34:BA:934:G:C5	2.92	0.57
35:BB:1251:G:H3’	35:BB:1251:G:C8	2.39	0.57
35:BB:127:U:C2	35:BB:128:C:C5	2.92	0.57
35:BB:1354:C:C6	35:BB:1354:C:H5’	2.38	0.57
35:BB:35:G:C6	35:BB:36:U:C4	2.91	0.57
35:BB:43:G:C5	35:BB:44:C:C5	2.91	0.57
35:BB:481:A:C2	35:BB:499:A:C2	2.92	0.57
36:BC:149:A:C5	36:BC:150:U:C5	2.92	0.57
36:BC:151:G:H2’	36:BC:152:C:C6	2.39	0.57
36:BC:68:A:C6	36:BC:69:U:C4	2.92	0.57
37:BD:27:A:C2	37:BD:28:C:C2	2.92	0.57
38:BE:20:C:N4	38:BE:198:A:H61	2.01	0.57
38:BE:25:U:OP2	38:BE:25:U:C6	2.57	0.57
40:BG:108:G:C5	40:BG:109:C:C5	2.92	0.57
40:BG:88:G:C2	40:BG:89:A:C4	2.92	0.57
85:AA:147:G:C6	85:AA:177:A:C5	2.92	0.57
85:AA:684:G:N1	85:AA:688:C:C2	2.72	0.57
34:BA:609:G:N1	34:BA:610:A:C5	2.71	0.57
35:BB:798:A:C2	35:BB:799:A:C6	2.92	0.57
35:BB:801:G:H2’	35:BB:802:G:O4’	2.04	0.57
85:AA:2009:A:C4	85:AA:2036:A:C5	2.92	0.57
34:BA:288:U:N3	34:BA:289:A:C4	2.72	0.57
85:AA:984:A:C8	85:AA:984:A:H5”	2.39	0.57
85:AA:779:G:C2	85:AA:780:U:C4	2.92	0.57
85:AA:910:G:C2	85:AA:911:A:C5	2.92	0.57
85:AA:395:G:C6	85:AA:396:U:C4	2.92	0.57
85:AA:399:A:C6	85:AA:400:G:C6	2.92	0.57
34:BA:1124:U:C6	34:BA:1124:U:H5”	2.39	0.57
6:A5:113:TYR:CZ	6:A5:117:TYR:CD2	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1441:G:C5	85:AA:1442:U:C5	2.91	0.57
40:BG:42:A:C4	40:BG:43:U:C5	2.92	0.57
85:AA:200:U:H2'	85:AA:201:U:C6	2.39	0.57
34:BA:1701:U:O2	38:BE:192:A:C2	2.57	0.57
34:BA:1792:U:H3'	34:BA:1793:G:H8	1.68	0.57
34:BA:959:G:C2	35:BB:401:U:H1'	2.39	0.57
35:BB:1081:U:C4	35:BB:1082:A:C5	2.92	0.57
35:BB:1114:A:C2	35:BB:1137:G:C5	2.92	0.57
35:BB:1154:C:H2'	35:BB:1155:U:C6	2.40	0.57
35:BB:1295:A:H2'	35:BB:1303:A:C6	2.38	0.57
35:BB:379:U:C6	35:BB:379:U:O5'	2.58	0.57
35:BB:411:A:C5	35:BB:413:A:C5	2.92	0.57
34:BA:1597:G:C2	35:BB:622:G:C6	2.92	0.57
35:BB:877:A:C2	35:BB:878:G:C5	2.92	0.57
37:BD:106:G:H2'	37:BD:107:G:C8	2.39	0.57
37:BD:68:C:C4	37:BD:69:U:C4	2.91	0.57
38:BE:9:C:C2	38:BE:12:A:C2	2.92	0.57
40:BG:127:G:N2	40:BG:163:G:C4	2.73	0.57
40:BG:162:A:C2	40:BG:163:G:C5	2.92	0.57
41:BH:38:G:C6	41:BH:114:G:C4	2.92	0.57
41:BH:67:G:C6	41:BH:68:G:C5	2.92	0.57
44:BK:85:PHE:CD1	44:BK:85:PHE:N	2.70	0.57
48:BO:63:GLY:H	48:BO:154:PHE:HA	1.68	0.57
34:BA:543:A:N1	34:BA:564:C:C5	2.73	0.57
85:AA:1226:A:C6	85:AA:1227:A:C5	2.92	0.57
85:AA:175:A:C6	85:AA:176:C:C5	2.92	0.57
85:AA:2187:G:C2	85:AA:2188:C:C2	2.92	0.57
85:AA:146:U:C2	85:AA:333:A:C4	2.92	0.57
85:AA:477:U:H2'	85:AA:478:U:H6	1.70	0.57
85:AA:635:G:C2	85:AA:659:A:C2	2.92	0.57
35:BB:810:G:C5	35:BB:811:C:C5	2.92	0.57
85:AA:1586:C:C2	85:AA:1587:C:C5	2.91	0.57
85:AA:1544:G:C2	85:AA:2046:G:C5	2.93	0.57
34:BA:676:G:C6	34:BA:677:U:C2	2.91	0.57
34:BA:596:G:H1'	34:BA:1494:G:O6	2.05	0.57
23:AP:158:ILE:HG22	23:AP:159:GLY:N	2.15	0.57
19:AK:141:ARG:HG2	85:AA:2053:A:H5"	1.85	0.57
85:AA:1242:A:H62	85:AA:1260:G:H21	1.52	0.57
39:BF:36:G:C2	39:BF:37:C:C2	2.92	0.57
34:BA:513:U:O4	34:BA:690:G:C6	2.57	0.57
35:BB:1482:A:C2	35:BB:1483:A:C4	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1731:G:C6	85:AA:1808:G:C5	2.92	0.57
85:AA:730:G:C4	85:AA:731:U:C5	2.91	0.57
52:BS:113:ALA:O	52:BS:117:ARG:HA	2.04	0.57
35:BB:882:U:C4	35:BB:896:C:C6	2.92	0.57
34:BA:1042:U:C6	34:BA:1582:C:C5	2.92	0.57
34:BA:1066:A:C6	34:BA:1067:G:C5	2.91	0.57
34:BA:1168:C:C2	34:BA:1170:A:C5	2.92	0.57
34:BA:1175:G:C6	34:BA:1176:C:C4	2.91	0.57
34:BA:1307:U:H5	34:BA:1310:C:H5'	1.68	0.57
34:BA:1307:U:C5	34:BA:1310:C:H5'	2.39	0.57
34:BA:1608:C:C2	34:BA:1642:A:C2	2.92	0.57
34:BA:377:G:C6	34:BA:378:C:C4	2.93	0.57
34:BA:446:U:C2	34:BA:447:U:C6	2.93	0.57
34:BA:745:A:C6	34:BA:746:C:C4	2.92	0.57
35:BB:1291:G:C2	35:BB:1314:G:C4	2.93	0.57
35:BB:1337:C:C6	35:BB:1338:U:H5	2.23	0.57
35:BB:425:G:C5	35:BB:446:U:C4	2.92	0.57
35:BB:626:C:H2'	35:BB:627:G:C8	2.39	0.57
35:BB:68:G:H2'	35:BB:69:A:C5	2.39	0.57
35:BB:778:A:C5	35:BB:779:C:C5	2.92	0.57
36:BC:53:A:C2	36:BC:54:G:H1'	2.40	0.57
37:BD:108:G:C4	37:BD:109:U:C5	2.92	0.57
38:BE:26:G:C8	38:BE:26:G:C3'	2.85	0.57
34:BA:384:U:C5'	50:BQ:167:TRP:CH2	2.88	0.57
85:AA:157:G:H2'	85:AA:158:C:H6	1.69	0.57
85:AA:2132:A:C6	85:AA:2133:A:C5	2.93	0.57
85:AA:2117:U:C2	85:AA:2202:G:C2	2.93	0.57
85:AA:39:A:C6	85:AA:537:G:C2	2.92	0.57
85:AA:1974:C:C2	85:AA:1975:G:C8	2.92	0.57
34:BA:714:G:N7	34:BA:715:U:C5	2.72	0.57
35:BB:1271:A:C5	35:BB:1272:G:C8	2.92	0.57
35:BB:1508:G:C2	35:BB:1509:G:C4	2.92	0.57
35:BB:1522:G:N2	35:BB:1546:C:C2	2.72	0.57
41:BH:23:G:C5	41:BH:24:U:C2	2.92	0.57
85:AA:582:A:C4	85:AA:583:U:C6	2.92	0.57
85:AA:1992:A:H3'	85:AA:1992:A:C8	2.39	0.57
85:AA:2080:U:C2	85:AA:2081:A:N7	2.72	0.57
85:AA:896:C:H2'	85:AA:897:A:C8	2.39	0.57
34:BA:1213:A:C5	34:BA:1214:U:C5	2.93	0.57
34:BA:529:A:C6	34:BA:530:A:C5	2.92	0.57
85:AA:1098:C:H2'	85:AA:1099:U:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:116:G:H3'	85:AA:117:C:C6	2.39	0.57
85:AA:205:A:H5"	85:AA:301:U:C5	2.39	0.57
35:BB:1384:A:C5	35:BB:1385:C:C4	2.92	0.57
35:BB:1381:U:C5	35:BB:1382:U:C4	2.92	0.57
21:AM:42:ALA:HB3	21:AM:45:VAL:H	1.69	0.57
34:BA:1044:A:C4	34:BA:1045:C:C5	2.92	0.57
34:BA:1227:U:O5'	34:BA:1227:U:H6	1.88	0.57
34:BA:1475:G:C6	34:BA:1476:G:C6	2.92	0.57
34:BA:1808:A:N7	34:BA:1809:G:C8	2.72	0.57
34:BA:313:C:N3	34:BA:315:U:C4	2.72	0.57
35:BB:1213:U:C2	35:BB:1214:U:C5	2.93	0.57
34:BA:38:G:C5	35:BB:1259:A:C2	2.92	0.57
35:BB:692:G:C4	35:BB:693:U:C5	2.91	0.57
34:BA:14:G:C2	36:BC:153:C:O2	2.57	0.57
38:BE:194:A:H8	38:BE:194:A:O5'	1.87	0.57
40:BG:16:G:C2	40:BG:17:A:C5	2.92	0.57
40:BG:4:A:N3	40:BG:21:C:C5	2.72	0.57
85:AA:1495:G:C6	85:AA:1496:U:C4	2.93	0.57
85:AA:1494:C:H4'	85:AA:1495:G:H5'	1.85	0.57
85:AA:449:G:C6	85:AA:450:A:C5	2.92	0.57
85:AA:44:C:C5	85:AA:45:U:C5	2.92	0.57
85:AA:543:A:C2	85:AA:544:A:H1'	2.38	0.57
85:AA:84:C:C2	85:AA:85:U:H5"	2.39	0.57
35:BB:857:G:C6	35:BB:866:A:C6	2.92	0.57
35:BB:518:G:C2	35:BB:519:A:C8	2.92	0.57
85:AA:1544:G:C5	85:AA:2046:G:C6	2.92	0.57
85:AA:1868:G:C6	85:AA:1869:U:C2	2.93	0.57
85:AA:2014:G:N2	85:AA:2030:U:C2	2.72	0.57
34:BA:265:A:C2	34:BA:278:U:H1'	2.38	0.57
34:BA:1239:G:C6	34:BA:1240:G:C6	2.92	0.57
41:BH:20:A:C2	41:BH:21:G:C1'	2.86	0.57
7:A6:170:ARG:HH21	85:AA:610:C:N4	2.02	0.57
34:BA:1425:G:H1'	34:BA:1426:A:OP2	2.04	0.57
85:AA:1265:C:C2	85:AA:1266:C:C6	2.92	0.57
35:BB:434:A:C5	35:BB:435:A:C5	2.92	0.57
35:BB:1423:U:C5	35:BB:1424:G:C5	2.92	0.57
54:BU:65:TRP:CE2	54:BU:66:ASN:HB2	2.39	0.57
85:AA:1854:U:C4	85:AA:1855:U:C5	2.93	0.57
85:AA:1709:U:H3	85:AA:1858:G:H22	1.52	0.57
35:BB:1484:A:C2	35:BB:1485:G:H1'	2.39	0.57
35:BB:634:A:C6	35:BB:648:G:C6	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AV:41:PHE:O	85:AA:2250:U:C2	2.58	0.57
85:AA:1144:G:H2'	85:AA:1145:U:O4'	2.03	0.57
34:BA:1195:G:C6	34:BA:1196:C:C4	2.92	0.57
34:BA:1311:G:C2	34:BA:1312:A:C2	2.92	0.57
34:BA:1508:C:C2	34:BA:1509:U:C5	2.92	0.57
34:BA:1614:G:C6	34:BA:1634:A:C5	2.92	0.57
34:BA:1719:G:C6	34:BA:1720:U:C5	2.92	0.57
34:BA:1738:G:C4	34:BA:1739:G:C8	2.93	0.57
34:BA:19:G:C6	36:BC:36:G:N1	2.72	0.57
34:BA:437:G:N3	34:BA:461:A:C2	2.72	0.57
34:BA:982:A:H5"	34:BA:982:A:C8	2.39	0.57
35:BB:1105:G:H4'	35:BB:1201:G:H2'	1.84	0.57
35:BB:1359:G:C5	35:BB:1360:A:C8	2.91	0.57
35:BB:411:A:C6	35:BB:413:A:C4	2.92	0.57
36:BC:125:A:C2	36:BC:139:A:C4	2.93	0.57
36:BC:25:C:H2'	36:BC:26:U:C4	2.39	0.57
36:BC:74:U:O5'	36:BC:74:U:C6	2.57	0.57
34:BA:1319:A:C2	37:BD:87:G:H3'	2.38	0.57
37:BD:8:A:C6	37:BD:9:C:C4	2.91	0.57
40:BG:81:G:C2	40:BG:82:U:C2	2.93	0.57
41:BH:39:G:C4	41:BH:40:C:C5	2.93	0.57
41:BH:43:G:H2'	41:BH:44:A:C8	2.40	0.57
38:BE:160:C:C5	53:BT:43:LYS:HB3	2.40	0.57
34:BA:542:A:C2	34:BA:566:G:N1	2.73	0.57
85:AA:1190:G:C2'	85:AA:1226:A:H5'	2.35	0.57
85:AA:1226:A:C6	85:AA:1227:A:C4	2.93	0.57
85:AA:86:G:H2'	85:AA:87:C:C6	2.39	0.57
35:BB:557:C:N3	35:BB:570:A:C2	2.72	0.57
35:BB:867:C:H2'	35:BB:868:C:O4'	2.04	0.57
85:AA:1182:A:H3'	85:AA:1182:A:C8	2.39	0.57
85:AA:1105:G:C8	85:AA:1107:A:OP2	2.57	0.57
85:AA:937:G:C8	85:AA:937:G:H3'	2.38	0.57
35:BB:1288:G:C6	35:BB:1289:G:C5	2.92	0.57
85:AA:1448:A:C5	85:AA:1449:C:C4	2.92	0.57
85:AA:1458:G:H2'	85:AA:1459:C:C6	2.39	0.57
85:AA:577:U:C3'	85:AA:578:U:C5'	2.83	0.57
85:AA:2086:C:C2	85:AA:2087:C:C6	2.92	0.57
34:BA:780:U:C6	34:BA:781:U:H1'	2.39	0.57
85:AA:914:U:C4	85:AA:915:G:C4	2.92	0.57
85:AA:406:U:C4	85:AA:407:G:C6	2.92	0.57
39:BF:33:C:C5	39:BF:34:C:O2	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:53:G:H4'	39:BF:54:U:H2'	1.86	0.57
85:AA:740:A:C5	85:AA:741:G:H5'	2.40	0.57
34:BA:523:A:C6	34:BA:524:G:C5	2.92	0.57
35:BB:1056:A:C2	35:BB:1057:G:C4	2.92	0.57
85:AA:1111:A:C5	85:AA:1212:C:C5	2.92	0.57
85:AA:200:U:C6	85:AA:200:U:H3'	2.39	0.57
85:AA:1601:G:C6	85:AA:1602:U:C4	2.92	0.57
34:BA:117:C:C2	34:BA:118:C:C5	2.93	0.57
34:BA:1303:U:H3	34:BA:1435:A:H61	1.51	0.57
34:BA:1322:A:H2'	34:BA:1323:G:H5'	1.86	0.57
34:BA:1413:G:H2'	34:BA:1414:C:C6	2.40	0.57
34:BA:1304:C:H42	34:BA:1433:U:H1'	1.70	0.57
34:BA:1273:U:C2	34:BA:1515:U:H1'	2.40	0.57
34:BA:734:G:C5	34:BA:1582:C:C4	2.93	0.57
34:BA:1639:U:H2'	34:BA:1640:G:C8	2.40	0.57
34:BA:369:A:C2	35:BB:1242:C:H1'	2.40	0.57
34:BA:44:U:C5	34:BA:45:A:C4	2.92	0.57
34:BA:703:U:C5'	34:BA:1548:A:C2	2.87	0.57
36:BC:73:U:C5	36:BC:74:U:H5	2.22	0.57
37:BD:106:G:C4	37:BD:107:G:C8	2.93	0.57
38:BE:33:C:C4	38:BE:34:C:C4	2.93	0.57
41:BH:126:C:H2'	41:BH:127:A:C8	2.39	0.57
45:BL:103:PHE:CG	45:BL:109:PHE:HB3	2.39	0.57
85:AA:1227:A:H2'	85:AA:1228:A:O4'	2.05	0.57
85:AA:2117:U:H1'	85:AA:2202:G:N2	2.20	0.57
85:AA:94:C:H1'	85:AA:491:G:C5'	2.35	0.57
35:BB:796:C:H4'	35:BB:837:A:N3	2.19	0.57
35:BB:805:G:H4'	35:BB:805:G:OP1	2.03	0.57
35:BB:840:C:H2'	35:BB:841:U:C6	2.39	0.57
53:BT:178:LEU:HG	85:AA:999:A:N6	1.98	0.57
85:AA:709:A:C6	85:AA:710:A:C5	2.92	0.57
21:AM:37:ILE:HG23	21:AM:38:GLY:H	1.68	0.57
34:BA:288:U:C4	34:BA:289:A:C5	2.92	0.57
85:AA:1988:A:C2	85:AA:1989:A:C6	2.92	0.57
34:BA:596:G:C6	34:BA:1488:C:C5	2.93	0.57
34:BA:597:C:C4	34:BA:598:G:C6	2.93	0.57
35:BB:364:U:C6	35:BB:365:U:C6	2.93	0.57
35:BB:367:C:H2'	35:BB:368:C:C6	2.39	0.57
85:AA:2222:G:C5	85:AA:2223:C:C4	2.93	0.57
40:BG:152:G:C5	40:BG:153:C:C5	2.92	0.57
85:AA:703:U:O5'	85:AA:703:U:H6	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:269:G:OP2	85:AA:270:A:C4	2.57	0.57
85:AA:883:A:H2'	85:AA:884:A:N7	2.20	0.57
85:AA:557:G:C4	85:AA:571:G:C2	2.93	0.57
85:AA:420:C:C6	85:AA:420:C:O5'	2.58	0.57
25:AR:12:VAL:HG12	25:AR:13:ASN:O	2.05	0.57
35:BB:1430:G:C6	35:BB:1431:G:C5	2.92	0.57
34:BA:1122:G:C5	34:BA:1139:G:C2	2.93	0.57
85:AA:1299:A:H61	85:AA:1443:U:H3	1.52	0.57
7:A6:175:LYS:CD	7:A6:178:ALA:HB3	2.35	0.57
35:BB:1486:C:H2'	35:BB:1487:G:C8	2.40	0.57
23:AP:182:ALA:HA	23:AP:207:TYR:CE2	2.40	0.57
85:AA:1372:C:HO2'	85:AA:1373:U:H5	1.52	0.57
35:BB:1391:G:C6	35:BB:1392:A:C6	2.93	0.57
10:A9:97:LYS:HE2	85:AA:1606:G:C8	2.39	0.57
34:BA:1046:G:H2'	34:BA:1047:U:C6	2.40	0.57
34:BA:1052:G:C5	34:BA:1230:G:C5	2.93	0.57
34:BA:1283:U:O5'	34:BA:1283:U:H6	1.87	0.57
34:BA:14:G:C4	34:BA:15:G:C8	2.93	0.57
34:BA:1610:A:C2	34:BA:1611:A:C4	2.93	0.57
34:BA:1831:A:OP1	34:BA:1831:A:C6	2.58	0.57
34:BA:220:U:C4	34:BA:221:G:C5	2.93	0.57
34:BA:365:A:N1	34:BA:366:G:C5	2.73	0.57
34:BA:402:G:C6	34:BA:404:C:C4	2.93	0.57
35:BB:1115:G:C6	35:BB:1116:U:C4	2.92	0.57
35:BB:43:G:H2'	35:BB:44:C:C6	2.39	0.57
35:BB:662:G:C6	35:BB:663:G:C5	2.93	0.57
35:BB:73:G:H3'	35:BB:74:U:C6	2.39	0.57
35:BB:876:G:H2'	35:BB:901:U:C6	2.39	0.57
35:BB:986:C:H4'	35:BB:987:U:C5'	2.34	0.57
35:BB:994:A:N1	38:BE:202:C:H4'	2.19	0.57
37:BD:84:U:C2	37:BD:85:C:C6	2.93	0.57
38:BE:23:G:C2	38:BE:197:A:C5	2.92	0.57
35:BB:993:A:N6	38:BE:201:A:H4'	2.20	0.57
38:BE:98:C:C4	38:BE:99:C:C5	2.92	0.57
47:BN:16:HIS:CG	47:BN:17:TRP:CD1	2.93	0.57
53:BT:115:ILE:CG2	53:BT:120:TYR:HB2	2.33	0.57
34:BA:561:U:N3	34:BA:562:C:C4	2.73	0.57
85:AA:156:G:C2	85:AA:167:A:C2	2.92	0.57
85:AA:160:A:H1'	85:AA:481:A:C6	2.38	0.57
85:AA:452:A:C8	85:AA:467:U:N3	2.73	0.57
85:AA:678:A:C6	85:AA:679:A:C5	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BW:69:PRO:HG2	85:AA:2126:U:P	2.45	0.57
35:BB:521:U:H3'	35:BB:528:G:H1	1.68	0.57
40:BG:139:U:C4	40:BG:140:G:C8	2.93	0.57
34:BA:674:G:H2'	34:BA:675:C:H5'	1.86	0.57
34:BA:1243:A:H3'	34:BA:1245:C:C6	2.40	0.57
35:BB:1274:G:C8	35:BB:1327:U:H3'	2.39	0.57
34:BA:1495:A:C8	34:BA:1498:A:C5	2.93	0.57
85:AA:1457:C:C3'	85:AA:1458:G:H5'	2.35	0.57
85:AA:1611:A:H3'	85:AA:1622:G:C8	2.40	0.57
36:BC:168:C:O2	36:BC:169:G:C4	2.58	0.57
85:AA:569:A:C6	85:AA:570:U:C4	2.93	0.57
85:AA:1924:C:H2'	85:AA:1925:A:C8	2.40	0.57
34:BA:1405:A:H2'	34:BA:1406:U:O4'	2.04	0.57
34:BA:1264:U:C6	34:BA:1264:U:OP2	2.58	0.57
85:AA:867:G:C8	85:AA:867:G:H3'	2.37	0.57
34:BA:532:C:C5	34:BA:533:U:C6	2.92	0.57
85:AA:1814:U:H1'	85:AA:1815:U:C5	2.38	0.57
85:AA:1001:G:C6	85:AA:1002:G:C6	2.93	0.57
23:AP:43:TRP:CE2	23:AP:75:GLN:HB3	2.38	0.57
34:BA:511:U:H3'	34:BA:512:U:C6	2.40	0.57
35:BB:1069:C:C4	35:BB:1070:G:C4	2.92	0.57
1:A0:118:LYS:HE2	29:AV:41:PHE:HB2	1.86	0.57
35:BB:140:U:H3	35:BB:320:G:H1	1.53	0.57
58:BY:81:ARG:HG3	85:AA:2162:G:C5'	2.35	0.57
34:BA:1192:A:C6	34:BA:1193:A:C5	2.92	0.57
34:BA:1202:G:C6	34:BA:1203:G:C5	2.93	0.57
34:BA:1296:U:C4	34:BA:1296:U:OP1	2.57	0.57
34:BA:1451:A:H4'	49:BP:19:PRO:HB3	1.87	0.57
34:BA:1469:G:C2	34:BA:1470:G:C4	2.93	0.57
34:BA:1636:C:N3	34:BA:1676:A:H1'	2.19	0.57
34:BA:176:G:C2	34:BA:311:C:C2	2.93	0.57
34:BA:404:C:C2	34:BA:405:C:C5	2.92	0.57
34:BA:752:A:H4'	34:BA:753:G:O5'	2.03	0.57
34:BA:775:C:C2	34:BA:776:U:H1'	2.40	0.57
35:BB:125:G:C4	35:BB:126:C:C6	2.93	0.57
35:BB:1296:A:C5	35:BB:1309:A:C5	2.93	0.57
35:BB:134:G:C5	35:BB:135:C:C6	2.93	0.57
36:BC:75:G:C5	36:BC:76:C:C5	2.93	0.57
37:BD:101:A:C4	37:BD:102:C:C5	2.93	0.57
38:BE:101:C:C4	38:BE:120:C:C5	2.93	0.57
38:BE:74:U:C5	38:BE:75:C:C6	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:176:G:H2'	40:BG:177:U:C6	2.39	0.57
41:BH:42:U:O5'	41:BH:42:U:C6	2.58	0.57
41:BH:98:U:OP1	55:BV:63:LYS:C	2.42	0.57
58:BY:33:LEU:HD22	58:BY:35:PHE:CE1	2.39	0.57
85:AA:28:A:C5	85:AA:29:U:C5	2.92	0.57
85:AA:455:G:H1	85:AA:472:A:H61	1.52	0.57
85:AA:88:G:C5	85:AA:89:C:C4	2.92	0.57
85:AA:924:A:N6	85:AA:925:G:C6	2.73	0.57
85:AA:97:A:C8	85:AA:97:A:H3'	2.39	0.57
35:BB:836:U:C6	35:BB:836:U:O5'	2.58	0.57
85:AA:877:G:C5	85:AA:878:U:C6	2.93	0.57
34:BA:201:A:C2	34:BA:272:A:N1	2.73	0.57
85:AA:1678:U:C2	85:AA:1679:U:C6	2.93	0.57
85:AA:1678:U:C4	85:AA:1679:U:C5	2.93	0.57
85:AA:2106:C:H42	85:AA:2214:A:N6	2.02	0.57
34:BA:1287:G:C4	34:BA:1436:A:C5	2.92	0.57
85:AA:2139:G:C2	85:AA:2140:U:C4	2.92	0.57
85:AA:1537:A:H2'	85:AA:1538:C:O4'	2.05	0.57
85:AA:1819:U:H2'	85:AA:1820:G:C8	2.40	0.57
34:BA:1333:G:H2'	34:BA:1334:G:H5"	1.86	0.57
85:AA:1486:G:C2	85:AA:1514:A:C6	2.93	0.57
35:BB:996:G:H3'	35:BB:996:G:C8	2.40	0.57
85:AA:1263:G:C6	85:AA:1264:U:C4	2.93	0.57
35:BB:576:A:H1'	35:BB:1420:U:C5'	2.34	0.57
34:BA:1347:G:C6	34:BA:1348:G:C5	2.93	0.57
85:AA:1434:U:C5	85:AA:1438:C:H5'	2.40	0.57
35:BB:1263:A:C5	35:BB:1264:U:C5	2.92	0.57
85:AA:116:G:H1'	85:AA:462:A:C8	2.39	0.57
11:AC:121:ARG:HA	11:AC:124:PHE:CE2	2.40	0.57
27:AT:93:GLU:OE1	27:AT:98:LYS:HA	2.05	0.57
86:AB:7:A:N1	86:AB:67:C:C2	2.73	0.57
2:A1:125:ASN:HB3	2:A1:137:VAL:CG1	2.34	0.57
2:A1:176:LYS:H	2:A1:192:ILE:HB	1.68	0.57
34:BA:1070:G:C6	34:BA:1071:G:C5	2.93	0.57
34:BA:1792:U:C4	34:BA:1793:G:C5	2.93	0.57
34:BA:313:C:O5'	34:BA:314:A:H5"	2.05	0.57
34:BA:358:A:H2'	34:BA:360:C:C4	2.40	0.57
34:BA:490:A:H2'	34:BA:491:U:C6	2.40	0.57
34:BA:6:C:C2	36:BC:166:G:N1	2.72	0.57
34:BA:699:G:N2	34:BA:700:G:C4	2.72	0.57
35:BB:1101:C:H1'	35:BB:1104:A:C2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1145:G:C5	35:BB:1146:C:C5	2.93	0.57
35:BB:1153:G:C6	35:BB:1154:C:C4	2.92	0.57
35:BB:1353:G:C2	35:BB:1354:C:C6	2.92	0.57
35:BB:1353:G:N1	35:BB:1365:G:C5	2.73	0.57
35:BB:1444:U:H2'	35:BB:1445:A:C8	2.39	0.57
35:BB:1457:A:C6	35:BB:1462:G:C6	2.93	0.57
35:BB:85:A:C2	35:BB:603:U:H1'	2.40	0.57
36:BC:90:U:H3'	36:BC:90:U:C6	2.39	0.57
38:BE:153:C:C5	38:BE:154:A:C4	2.93	0.57
38:BE:159:A:N1	38:BE:161:G:H1'	2.19	0.57
38:BE:8:G:H2'	38:BE:9:C:C6	2.40	0.57
39:BF:69:A:C8	39:BF:69:A:OP2	2.57	0.57
34:BA:821:G:N2	42:BI:73:ARG:HH12	2.03	0.57
85:AA:1231:G:C6	85:AA:1269:A:C2	2.93	0.57
85:AA:1480:C:C5	85:AA:1481:U:C5	2.93	0.57
85:AA:90:A:C4	85:AA:464:A:C2	2.93	0.57
85:AA:50:C:C2	85:AA:495:G:C6	2.92	0.57
35:BB:844:G:C4	35:BB:845:C:C6	2.93	0.57
85:AA:1123:C:H2'	85:AA:1124:G:C8	2.40	0.57
85:AA:1133:C:OP2	85:AA:1133:C:C6	2.58	0.57
85:AA:806:G:C2	85:AA:807:A:C4	2.92	0.57
85:AA:880:A:C6	85:AA:881:C:C4	2.93	0.57
40:BG:148:C:O5'	40:BG:148:C:C6	2.58	0.57
34:BA:198:U:C5	34:BA:262:A:C6	2.92	0.57
34:BA:1210:A:C8	54:BU:129:LYS:HB2	2.40	0.57
34:BA:1695:G:H3'	34:BA:1696:G:H8	1.70	0.57
35:BB:1521:G:C2	35:BB:1522:G:C4	2.93	0.57
85:AA:1293:U:H3	85:AA:1450:U:H3	1.50	0.57
85:AA:2105:G:H2'	85:AA:2106:C:O4'	2.04	0.57
85:AA:2169:C:H2'	85:AA:2170:G:C8	2.40	0.57
85:AA:2150:G:C2	85:AA:2169:C:N3	2.73	0.57
85:AA:281:C:C4	85:AA:289:G:C4	2.93	0.57
85:AA:725:G:C4	85:AA:777:U:C2	2.93	0.57
85:AA:897:A:H3'	85:AA:897:A:C8	2.39	0.57
34:BA:1213:A:H2'	34:BA:1214:U:H6	1.70	0.57
34:BA:1123:G:C4	34:BA:1124:U:C6	2.92	0.57
34:BA:230:A:H2'	34:BA:231:U:C5	2.40	0.57
34:BA:1702:G:C4	34:BA:1703:A:C6	2.93	0.57
35:BB:454:U:H5'	35:BB:581:U:OP2	2.05	0.57
86:AB:7:A:C2	86:AB:49:C:N3	2.72	0.57
45:BL:40:ALA:HB2	45:BL:130:TYR:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BP:164:VAL:CG1	49:BP:168:ARG:HH21	2.17	0.57
31:AX:38:HIS:CE1	31:AX:40:VAL:HB	2.39	0.57
34:BA:1692:U:C5	35:BB:12:G:C5	2.93	0.57
20:AL:35:VAL:HG21	20:AL:51:ALA:HB2	1.86	0.57
85:AA:2153:G:C5	85:AA:2154:C:C5	2.93	0.57
34:BA:1285:G:C6	34:BA:1456:C:C4	2.93	0.57
34:BA:1522:G:C6	34:BA:1523:U:O4	2.58	0.57
34:BA:1566:G:C5	34:BA:1567:G:C6	2.92	0.57
34:BA:965:A:H4'	34:BA:1649:A:C6	2.40	0.57
34:BA:187:G:H2'	34:BA:188:C:C6	2.39	0.57
34:BA:325:A:H5"	34:BA:325:A:C8	2.39	0.57
34:BA:446:U:C4	34:BA:447:U:C4	2.93	0.57
35:BB:1314:G:C6	35:BB:1315:C:C4	2.92	0.57
35:BB:446:U:O4'	35:BB:448:G:C8	2.58	0.57
36:BC:155:C:O2'	36:BC:156:A:H5'	2.05	0.57
37:BD:42:A:C5	37:BD:43:U:C5	2.93	0.57
37:BD:7:G:C6	37:BD:8:A:C6	2.92	0.57
37:BD:95:G:C5	37:BD:96:C:H5	2.23	0.57
38:BE:110:U:C5	38:BE:111:C:C5	2.93	0.57
38:BE:89:G:C5	38:BE:90:G:C6	2.92	0.57
40:BG:35:G:C2	40:BG:36:G:C4	2.92	0.57
40:BG:57:A:C5	40:BG:58:G:H1'	2.40	0.57
47:BN:16:HIS:CD2	47:BN:17:TRP:CD1	2.93	0.57
57:BX:60:TYR:CZ	57:BX:62:ARG:HD2	2.39	0.57
85:AA:1502:A:C6	85:AA:1503:G:H1'	2.39	0.57
85:AA:369:A:H2	85:AA:370:A:C8	2.23	0.57
34:BA:616:G:C6	34:BA:617:G:C5	2.92	0.57
35:BB:824:C:C6	35:BB:824:C:H3'	2.39	0.57
35:BB:868:C:C2	35:BB:869:G:C8	2.93	0.57
35:BB:976:U:O5'	35:BB:976:U:C6	2.58	0.57
85:AA:994:A:C5	85:AA:995:G:C8	2.93	0.57
35:BB:1197:G:C5	35:BB:1198:C:C5	2.93	0.57
85:AA:2210:C:H2'	85:AA:2211:G:C8	2.40	0.57
34:BA:263:G:C6	34:BA:273:G:C4	2.92	0.57
85:AA:2218:G:H4'	85:AA:2219:G:C5'	2.34	0.57
13:AE:56:LEU:HG	85:AA:313:A:C4	2.40	0.57
85:AA:1992:A:C8	85:AA:1992:A:C3'	2.88	0.57
5:A4:183:HIS:HE1	85:AA:786:G:C4	2.23	0.57
40:BG:136:G:C6	40:BG:137:G:C8	2.93	0.57
85:AA:757:A:C2	85:AA:758:C:C2	2.93	0.57
86:AB:4:C:H1'	86:AB:70:G:H22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1381:U:C5	35:BB:1382:U:C5	2.92	0.57
85:AA:1970:A:H2'	85:AA:1971:G:H5'	1.85	0.57
35:BB:50:A:C2	35:BB:51:U:H1'	2.40	0.57
34:BA:1066:A:C2	34:BA:1067:G:C4	2.93	0.56
34:BA:1107:A:C2	34:BA:1108:U:N1	2.73	0.56
34:BA:1466:U:C4	34:BA:1467:U:C5	2.92	0.56
34:BA:1550:G:C6	34:BA:1551:G:N7	2.73	0.56
34:BA:1675:C:O2	34:BA:1675:C:H2'	2.05	0.56
34:BA:1804:A:C2	34:BA:1807:G:C8	2.93	0.56
34:BA:1688:G:O4'	34:BA:1821:A:C2	2.58	0.56
34:BA:220:U:C4	34:BA:221:G:N7	2.73	0.56
34:BA:297:A:C2	36:BC:32:U:C5	2.93	0.56
34:BA:185:A:C5	34:BA:304:G:C6	2.93	0.56
34:BA:53:G:H1'	50:BQ:178:GLN:HE21	1.70	0.56
34:BA:776:U:C2	34:BA:777:C:C6	2.93	0.56
35:BB:99:G:C4	35:BB:100:A:C8	2.93	0.56
35:BB:1033:U:C4	35:BB:1034:U:C4	2.93	0.56
35:BB:1342:C:H2'	35:BB:1343:C:H6	1.68	0.56
34:BA:1822:U:H4'	35:BB:18:A:H4'	1.85	0.56
35:BB:5:A:C1'	38:BE:11:A:C2	2.87	0.56
36:BC:123:G:N2	36:BC:140:U:H3	2.03	0.56
36:BC:136:G:C5	36:BC:137:C:C5	2.92	0.56
36:BC:29:C:H2'	36:BC:30:U:C5	2.38	0.56
36:BC:91:G:C5	36:BC:92:C:C4	2.93	0.56
37:BD:46:G:C6	37:BD:47:U:C5	2.93	0.56
38:BE:114:G:C6	38:BE:115:U:C4	2.94	0.56
41:BH:111:U:C4	41:BH:112:U:C4	2.93	0.56
49:BP:28:VAL:HG21	49:BP:39:GLU:HB2	1.86	0.56
85:AA:86:G:C6	85:AA:87:C:C4	2.93	0.56
34:BA:649:A:C6	34:BA:650:C:C5	2.93	0.56
85:AA:1122:U:H2'	85:AA:1123:C:C6	2.40	0.56
85:AA:702:G:H3'	85:AA:1218:C:N4	2.20	0.56
85:AA:1172:A:C2	85:AA:1173:A:C4	2.93	0.56
85:AA:1128:G:C2	85:AA:1199:C:C2	2.93	0.56
85:AA:933:U:H2'	85:AA:934:A:C5	2.40	0.56
34:BA:265:A:N1	34:BA:277:A:N1	2.52	0.56
85:AA:1926:A:C6	85:AA:1927:G:C6	2.93	0.56
85:AA:1471:G:N1	85:AA:1472:G:C5	2.73	0.56
85:AA:1675:U:C4	85:AA:1676:G:C6	2.92	0.56
85:AA:549:A:N1	85:AA:550:G:C5	2.73	0.56
85:AA:782:G:C5	85:AA:783:C:C5	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AT:17:PHE:CZ	85:AA:906:U:C2	2.93	0.56
85:AA:366:A:C5	85:AA:367:A:C5	2.93	0.56
85:AA:1240:A:C8	85:AA:1260:G:O6	2.58	0.56
35:BB:1415:G:C4	35:BB:1416:A:C8	2.92	0.56
85:AA:1090:A:H2'	85:AA:1091:C:C6	2.39	0.56
35:BB:1070:G:C2	35:BB:1071:G:H1'	2.40	0.56
35:BB:13:A:C5	35:BB:14:C:C5	2.92	0.56
35:BB:1175:A:N1	35:BB:1177:U:C2	2.73	0.56
85:AA:1588:A:H2'	85:AA:1589:G:C8	2.40	0.56
85:AA:1430:A:C2	85:AA:1431:U:H1'	2.40	0.56
5:A4:58:ARG:HH21	5:A4:173:LEU:CG	2.18	0.56
30:AW:29:PRO:HB2	85:AA:1208:C:C4	2.40	0.56
52:BS:44:TRP:CE3	52:BS:44:TRP:HA	2.40	0.56
35:BB:955:U:C4	35:BB:956:G:C4	2.93	0.56
8:A7:195:HIS:CE1	8:A7:219:VAL:O	2.58	0.56
24:AQ:64:LYS:HE2	24:AQ:73:THR:O	2.04	0.56
34:BA:1025:A:H2'	34:BA:1026:C:C6	2.40	0.56
34:BA:1052:G:C6	34:BA:1230:G:C4	2.93	0.56
34:BA:1050:A:C8	34:BA:1517:U:O4	2.58	0.56
34:BA:1615:A:C8	34:BA:1615:A:H3'	2.40	0.56
34:BA:48:C:H2'	34:BA:49:A:C8	2.39	0.56
34:BA:500:C:C2	34:BA:702:G:C2	2.94	0.56
34:BA:745:A:C5	34:BA:746:C:C4	2.93	0.56
35:BB:1096:G:C2	35:BB:1097:U:C6	2.93	0.56
35:BB:124:G:C6	35:BB:125:G:C5	2.92	0.56
35:BB:1455:A:C2	35:BB:1456:G:C4	2.93	0.56
35:BB:1467:A:C8	35:BB:1467:A:H3'	2.40	0.56
35:BB:620:G:C6	35:BB:621:C:C2	2.93	0.56
38:BE:158:U:H3'	38:BE:159:A:C8	2.41	0.56
38:BE:186:C:C5	38:BE:189:A:C5	2.93	0.56
40:BG:81:G:C6	40:BG:82:U:C4	2.93	0.56
41:BH:106:G:H2'	41:BH:107:A:C8	2.40	0.56
47:BN:52:PHE:CE1	47:BN:153:GLN:HA	2.40	0.56
3:A2:184:ARG:HH12	86:AB:41:C:C4'	2.17	0.56
85:AA:959:C:C5	85:AA:995:G:N2	2.72	0.56
85:AA:1580:A:C6	85:AA:2021:A:C6	2.94	0.56
85:AA:2016:A:H61	85:AA:2027:U:H3	1.51	0.56
85:AA:1926:A:C2	85:AA:1927:G:C4	2.93	0.56
85:AA:1928:A:H5'	85:AA:1959:G:H1'	1.87	0.56
35:BB:1274:G:C2	35:BB:1327:U:C4	2.93	0.56
35:BB:22:A:C6	35:BB:26:C:C2	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1665:G:H5”	85:AA:1665:G:C8	2.41	0.56
85:AA:577:U:C4	85:AA:578:U:C4	2.92	0.56
85:AA:899:A:C8	85:AA:899:A:H3’	2.40	0.56
85:AA:521:A:C8	85:AA:525:C:OP2	2.58	0.56
34:BA:1133:A:C2	34:BA:1134:A:C4	2.93	0.56
34:BA:1398:C:H2’	34:BA:1399:A:C8	2.40	0.56
34:BA:1119:A:N6	34:BA:1139:G:H1	2.03	0.56
23:AP:43:TRP:CE2	23:AP:75:GLN:CB	2.88	0.56
35:BB:1487:G:C2	35:BB:1488:G:C4	2.93	0.56
34:BA:1015:G:O6	34:BA:1023:G:C2	2.58	0.56
27:AT:120:ARG:HD3	27:AT:134:THR:HG23	1.88	0.56
20:AL:103:LYS:HG3	20:AL:104:GLN:H	1.70	0.56
85:AA:1345:C:H2’	85:AA:1346:C:C6	2.40	0.56
85:AA:1651:C:C2	85:AA:1866:A:C6	2.94	0.56
34:BA:1073:G:C6	34:BA:1074:C:C4	2.93	0.56
34:BA:1073:G:C4	34:BA:1221:A:C6	2.92	0.56
34:BA:1578:A:C6	34:BA:1580:U:C4	2.94	0.56
34:BA:1740:U:H3	34:BA:1784:G:N2	2.03	0.56
34:BA:248:G:C1’	34:BA:437:G:C5	2.88	0.56
34:BA:354:G:C6	34:BA:355:U:C2	2.92	0.56
34:BA:487:A:C2	35:BB:651:G:H2’	2.40	0.56
34:BA:755:G:O4’	34:BA:888:G:H4’	2.05	0.56
34:BA:810:A:C6	34:BA:811:C:C4	2.94	0.56
34:BA:909:G:C4	34:BA:910:U:C5	2.92	0.56
35:BB:1239:A:C4	35:BB:1240:A:C8	2.94	0.56
35:BB:1300:U:C4	35:BB:1301:U:C6	2.93	0.56
35:BB:134:G:C6	35:BB:135:C:C4	2.93	0.56
38:BE:23:G:C6	38:BE:197:A:C6	2.94	0.56
39:BF:20:U:H2’	39:BF:21:C:H4’	1.87	0.56
40:BG:44:G:C4	40:BG:67:A:C2	2.93	0.56
40:BG:90:G:C6	40:BG:110:U:O4	2.57	0.56
41:BH:52:G:C6	41:BH:53:C:C4	2.92	0.56
34:BA:743:A:C4	47:BN:6:ASN:C	2.78	0.56
50:BQ:156:HIS:HD2	50:BQ:158:ALA:HB3	1.70	0.56
34:BA:1111:U:H1’	34:BA:1148:U:H3	1.69	0.56
34:BA:1547:G:C6	34:BA:1562:G:C6	2.94	0.56
34:BA:1637:G:C6	34:BA:1638:U:C4	2.94	0.56
34:BA:397:A:C2	36:BC:31:A:C4	2.94	0.56
34:BA:399:G:C2	34:BA:400:A:N9	2.73	0.56
34:BA:399:G:C5	34:BA:400:A:C8	2.93	0.56
34:BA:493:G:C2	34:BA:709:C:C2	2.92	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:755:G:C4'	34:BA:888:G:H4'	2.35	0.56
35:BB:1206:G:H5"	35:BB:1207:C:H5'	1.88	0.56
34:BA:1662:U:C4	35:BB:18:A:N1	2.73	0.56
35:BB:124:G:C5	35:BB:380:G:C6	2.92	0.56
35:BB:394:A:N1	35:BB:595:U:C4	2.74	0.56
35:BB:66:G:C2	35:BB:67:A:C4	2.93	0.56
35:BB:693:U:C2	35:BB:694:C:C5	2.93	0.56
35:BB:702:G:H2'	35:BB:703:U:C6	2.40	0.56
37:BD:5:A:C6	37:BD:115:A:C6	2.93	0.56
37:BD:84:U:C2	37:BD:85:C:C5	2.93	0.56
38:BE:110:U:C4	38:BE:111:C:C5	2.93	0.56
38:BE:101:C:N4	38:BE:117:A:C5	2.73	0.56
38:BE:149:A:H2'	38:BE:150:G:C8	2.40	0.56
38:BE:62:C:H2'	38:BE:168:C:C5	2.40	0.56
38:BE:87:U:C2	38:BE:88:G:C8	2.94	0.56
40:BG:25:G:C5	40:BG:181:C:C4	2.94	0.56
35:BB:1535:G:OP1	41:BH:27:A:C5	2.59	0.56
34:BA:536:C:C6	34:BA:537:C:C5	2.94	0.56
85:AA:2187:G:C6	85:AA:2188:C:C4	2.93	0.56
4:A3:2:LYS:O	4:A3:111:VAL:HG12	2.05	0.56
85:AA:107:A:C2	85:AA:108:C:C6	2.94	0.56
85:AA:251:A:C8	85:AA:253:C:C5	2.93	0.56
85:AA:479:C:N3	85:AA:485:A:N1	2.54	0.56
35:BB:844:G:C6	35:BB:845:C:C4	2.93	0.56
35:BB:1161:G:N1	35:BB:1199:A:C6	2.73	0.56
85:AA:2208:G:C6	85:AA:2209:U:C4	2.93	0.56
85:AA:1549:G:C6	85:AA:1550:C:C4	2.93	0.56
35:BB:1404:A:C5	35:BB:1440:A:N1	2.73	0.56
85:AA:593:U:C5	85:AA:594:C:C5	2.93	0.56
57:BX:155:LEU:O	57:BX:158:ALA:HB3	2.05	0.56
85:AA:1465:C:C2'	85:AA:1469:G:C8	2.88	0.56
34:BA:1287:G:C6	34:BA:1288:U:O4	2.57	0.56
85:AA:2138:G:C5	85:AA:2139:G:C5	2.93	0.56
13:AE:38:SER:OG	13:AE:41:HIS:CE1	2.58	0.56
85:AA:966:G:C5	85:AA:967:C:C4	2.94	0.56
85:AA:2072:G:C2	85:AA:2073:U:C6	2.93	0.56
22:AO:99:LYS:HD3	85:AA:1991:C:H4'	1.87	0.56
85:AA:912:C:H2'	85:AA:913:U:C6	2.39	0.56
27:AT:17:PHE:CE2	85:AA:906:U:C4	2.93	0.56
34:BA:1334:G:C5	34:BA:1335:A:C8	2.94	0.56
35:BB:1004:A:N1	35:BB:1015:U:C2	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:137:G:C6	40:BG:138:C:C4	2.92	0.56
85:AA:1264:U:H3'	85:AA:1265:C:C5	2.40	0.56
34:BA:1095:G:C4	34:BA:1163:G:C6	2.93	0.56
85:AA:1109:G:C6	85:AA:1110:A:C6	2.93	0.56
85:AA:1033:C:H2'	85:AA:1034:U:C6	2.40	0.56
39:BF:32:G:C6	39:BF:51:C:N3	2.73	0.56
34:BA:1086:A:N1	34:BA:1215:U:C2	2.73	0.56
34:BA:587:U:H2'	34:BA:588:C:C5	2.40	0.56
21:AM:72:ILE:O	21:AM:98:HIS:CE1	2.58	0.56
86:AB:72:C:C2	86:AB:73:A:C8	2.93	0.56
85:AA:1830:U:C2	85:AA:1845:G:C2	2.94	0.56
85:AA:116:G:H3'	85:AA:117:C:C5	2.40	0.56
35:BB:1381:U:C6	35:BB:1382:U:C5	2.92	0.56
35:BB:1332:G:C5	35:BB:1403:G:C6	2.94	0.56
85:AA:1374:A:C2	85:AA:1430:A:C4	2.93	0.56
34:BA:1218:G:C6	34:BA:1219:G:C5	2.93	0.56
55:BV:93:LEU:O	55:BV:97:PHE:HB3	2.05	0.56
85:AA:510:A:C2	85:AA:511:A:C5	2.94	0.56
34:BA:12:G:N2	36:BC:156:A:C4	2.74	0.56
34:BA:1611:A:C6	34:BA:1612:C:C4	2.92	0.56
34:BA:1718:C:H2'	34:BA:1719:G:H8	1.70	0.56
34:BA:1812:C:C2	34:BA:1813:C:C5	2.93	0.56
34:BA:1830:A:H3'	34:BA:1831:A:C5'	2.34	0.56
34:BA:233:U:H2'	34:BA:234:A:C8	2.41	0.56
34:BA:340:U:C2	34:BA:341:U:C5	2.93	0.56
34:BA:383:G:C2	34:BA:384:U:C5	2.92	0.56
34:BA:387:A:N1	34:BA:388:A:C6	2.74	0.56
34:BA:786:U:C5	34:BA:786:U:OP2	2.58	0.56
34:BA:935:A:C8	34:BA:957:A:C5	2.92	0.56
35:BB:702:G:C5	35:BB:1039:A:C4	2.93	0.56
35:BB:1209:A:C5	35:BB:1210:U:C5	2.94	0.56
35:BB:62:C:C4	35:BB:63:A:C5	2.93	0.56
35:BB:661:G:C4	35:BB:662:G:C8	2.94	0.56
35:BB:880:G:H1	35:BB:898:U:H3	1.53	0.56
37:BD:30:A:H1'	37:BD:49:A:C2	2.40	0.56
38:BE:23:G:C6	38:BE:197:A:N6	2.74	0.56
40:BG:162:A:C6	40:BG:163:G:C6	2.93	0.56
40:BG:181:C:H3'	40:BG:182:G:C8	2.40	0.56
40:BG:88:G:N1	40:BG:89:A:C4	2.74	0.56
85:AA:500:C:C5	85:AA:501:A:C6	2.94	0.56
35:BB:1277:A:N1	35:BB:1278:A:C4	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1511:U:H2'	35:BB:1512:C:C5'	2.33	0.56
85:AA:1671:G:C6	85:AA:1672:G:C5	2.93	0.56
85:AA:2240:G:C6	85:AA:2241:C:C5	2.92	0.56
32:AY:31:ARG:O	85:AA:546:U:C5	2.58	0.56
85:AA:790:A:O4'	85:AA:792:A:C5	2.57	0.56
13:AE:145:ARG:HD2	85:AA:112:A:H5'	1.88	0.56
85:AA:1153:G:C4	85:AA:1154:A:C5	2.94	0.56
85:AA:1153:G:H1'	85:AA:1154:A:C2	2.41	0.56
85:AA:1262:A:C2	85:AA:1263:G:H1'	2.40	0.56
11:AC:227:ARG:HE	85:AA:755:G:H4'	1.70	0.56
85:AA:817:G:C8	85:AA:819:G:N7	2.73	0.56
34:BA:227:C:H2'	34:BA:228:A:H5'	1.87	0.56
85:AA:1953:G:C6	85:AA:1954:C:C4	2.93	0.56
35:BB:1386:C:C2	35:BB:1387:C:C5	2.93	0.56
35:BB:1174:C:C5	35:BB:1176:G:C4	2.93	0.56
35:BB:637:G:H3'	35:BB:638:G:C8	2.40	0.56
35:BB:643:G:C2	35:BB:644:A:C2	2.94	0.56
35:BB:1382:U:C6	35:BB:1383:C:C5	2.93	0.56
23:AP:123:VAL:C	23:AP:142:ALA:HA	2.26	0.56
47:BN:59:LEU:HA	47:BN:158:TYR:CZ	2.40	0.56
34:BA:1692:U:C6	35:BB:12:G:C5	2.93	0.56
38:BE:15:A:O5'	38:BE:15:A:C8	2.59	0.56
34:BA:1189:A:C6	34:BA:1190:A:C6	2.94	0.56
34:BA:1082:U:H1'	34:BA:1206:C:H2'	1.86	0.56
34:BA:1272:U:H2'	34:BA:1273:U:C6	2.41	0.56
34:BA:166:G:C8	34:BA:167:U:C6	2.94	0.56
34:BA:1736:A:C4	34:BA:1737:A:C8	2.93	0.56
34:BA:213:A:H2'	34:BA:217:C:H42	1.70	0.56
34:BA:342:U:C2	34:BA:348:U:C5	2.93	0.56
34:BA:248:G:C4	34:BA:437:G:H2'	2.39	0.56
34:BA:463:A:C5	34:BA:466:G:C5	2.94	0.56
34:BA:5:C:C2	34:BA:6:C:C6	2.94	0.56
34:BA:1681:U:C4	35:BB:24:C:C2	2.93	0.56
35:BB:98:A:H1'	35:BB:388:C:H2'	1.87	0.56
35:BB:681:G:C4	35:BB:682:U:C6	2.94	0.56
35:BB:95:A:C6	35:BB:96:A:C5	2.94	0.56
38:BE:130:G:H3'	38:BE:131:C:C6	2.40	0.56
39:BF:8:C:H2'	39:BF:10:A:C6	2.40	0.56
40:BG:31:G:C4	40:BG:175:G:C6	2.93	0.56
41:BH:43:G:C4	41:BH:44:A:C5	2.94	0.56
34:BA:390:A:H4'	47:BN:28:LYS:HE2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BN:76:LEU:H	47:BN:76:LEU:HD22	1.71	0.56
47:BN:76:LEU:N	47:BN:76:LEU:HD22	2.20	0.56
4:A3:64:MET:CE	4:A3:109:ILE:HG23	2.35	0.56
35:BB:794:G:H1	35:BB:1028:C:H42	1.52	0.56
35:BB:793:A:C4	35:BB:794:G:C8	2.94	0.56
35:BB:870:C:N4	35:BB:964:G:H1	2.04	0.56
85:AA:1560:A:N7	85:AA:1561:A:C4	2.73	0.56
34:BA:290:G:C6	34:BA:291:C:C4	2.93	0.56
34:BA:604:G:H5'	34:BA:605:G:C8	2.40	0.56
35:BB:1276:U:H5'	35:BB:1276:U:H6	1.70	0.56
85:AA:210:G:O6	85:AA:244:G:C5	2.59	0.56
85:AA:1451:U:C4	85:AA:1452:C:C2	2.94	0.56
85:AA:1288:A:N3	85:AA:1455:C:H1'	2.21	0.56
85:AA:1521:U:O5'	85:AA:1521:U:H6	1.88	0.56
85:AA:1524:A:C5	85:AA:1525:C:C4	2.93	0.56
85:AA:2137:A:C2	85:AA:2138:G:H1'	2.40	0.56
85:AA:1923:A:C5	85:AA:2074:G:H1'	2.41	0.56
85:AA:722:G:C8	85:AA:723:U:C5	2.93	0.56
85:AA:906:U:H1'	85:AA:908:C:H5"	1.88	0.56
35:BB:996:G:C3'	35:BB:996:G:C8	2.88	0.56
34:BA:1125:G:C2	34:BA:1126:U:C4	2.93	0.56
34:BA:588:C:C2	34:BA:589:A:C5	2.93	0.56
85:AA:1254:A:C6	85:AA:1255:C:C5	2.93	0.56
85:AA:1956:C:H4'	85:AA:1958:C:H6	1.69	0.56
35:BB:1478:G:C5	35:BB:1479:C:C5	2.93	0.56
85:AA:1888:U:H2'	85:AA:1889:U:C6	2.40	0.56
34:BA:343:G:C5	34:BA:344:G:N7	2.73	0.56
49:BP:164:VAL:HG11	49:BP:168:ARG:HH21	1.70	0.56
18:AJ:96:SER:HB3	18:AJ:99:PHE:CZ	2.40	0.56
34:BA:1016:A:C5	34:BA:1017:C:C5	2.94	0.56
34:BA:1604:A:H5"	34:BA:1605:G:H5'	1.88	0.56
34:BA:1706:A:C6	34:BA:1707:C:C2	2.94	0.56
34:BA:1816:G:C6	34:BA:1818:A:C6	2.94	0.56
34:BA:1833:G:C6	34:BA:1834:A:C5	2.92	0.56
34:BA:815:C:C4	42:BI:72:ARG:NH1	2.73	0.56
34:BA:82:A:C4	34:BA:84:U:C4	2.93	0.56
35:BB:1051:U:O5'	35:BB:1051:U:H6	1.88	0.56
35:BB:109:U:O5'	35:BB:109:U:H6	1.89	0.56
35:BB:104:G:H1'	35:BB:119:G:N1	2.20	0.56
35:BB:1313:C:H5'	44:BK:160:PRO:HB3	1.87	0.56
35:BB:1342:C:C2	35:BB:1343:C:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:380:G:C6	35:BB:381:C:N3	2.73	0.56
34:BA:1655:G:C2	35:BB:38:C:C2	2.93	0.56
36:BC:14:G:C6	36:BC:15:G:C6	2.94	0.56
36:BC:1:A:H3'	36:BC:2:A:N7	2.20	0.56
37:BD:47:U:C2	37:BD:48:G:C8	2.93	0.56
37:BD:56:G:H3'	37:BD:57:C:H6	1.70	0.56
37:BD:98:G:C2	37:BD:99:G:H1'	2.40	0.56
38:BE:73:A:N1	38:BE:74:U:C4	2.74	0.56
40:BG:88:G:N1	40:BG:112:C:C2	2.73	0.56
40:BG:69:G:C6	40:BG:70:C:C4	2.94	0.56
41:BH:104:U:H2'	41:BH:105:U:C6	2.40	0.56
41:BH:31:A:C8	41:BH:33:G:O6	2.59	0.56
34:BA:1412:G:C2	52:BS:116:HIS:CE1	2.94	0.56
85:AA:1505:G:H2'	85:AA:1506:U:O4'	2.05	0.56
85:AA:20:G:C5	85:AA:21:U:C5	2.94	0.56
85:AA:460:U:H3	85:AA:464:A:H62	1.54	0.56
34:BA:615:A:C6	34:BA:616:G:C6	2.93	0.56
35:BB:844:G:C2	35:BB:845:C:C2	2.93	0.56
85:AA:1209:U:C6	85:AA:1209:U:OP2	2.59	0.56
34:BA:518:C:H2'	34:BA:684:G:N2	2.20	0.56
34:BA:717:U:O5'	34:BA:717:U:C6	2.58	0.56
27:AT:67:PHE:CD1	85:AA:593:U:H4'	2.41	0.56
85:AA:322:A:H2'	85:AA:323:U:C6	2.40	0.56
35:BB:363:A:C5	35:BB:364:U:O4	2.59	0.56
85:AA:1618:G:C5	85:AA:1619:A:C5	2.93	0.56
85:AA:2060:G:C5	85:AA:2061:C:C5	2.94	0.56
85:AA:786:G:C4	85:AA:787:U:C5	2.93	0.56
85:AA:900:G:C6	85:AA:901:C:C5	2.93	0.56
85:AA:910:G:H1	85:AA:911:A:N6	2.03	0.56
85:AA:383:C:C4	85:AA:384:C:C4	2.93	0.56
34:BA:1125:G:H2'	34:BA:1126:U:C6	2.41	0.56
85:AA:856:G:C6	85:AA:857:G:C5	2.92	0.56
39:BF:48:G:C2	39:BF:49:C:C6	2.94	0.56
39:BF:49:C:C2	39:BF:50:C:C5	2.94	0.56
85:AA:345:U:H2'	85:AA:346:U:C5'	2.35	0.56
34:BA:1123:G:C5	34:BA:1124:U:C5	2.93	0.56
34:BA:1431:G:C6	34:BA:1432:C:C4	2.93	0.56
85:AA:1246:G:C2	85:AA:1257:A:C4	2.94	0.56
34:BA:1646:U:C5	34:BA:1647:G:C6	2.93	0.56
35:BB:583:G:C6	35:BB:584:A:C5	2.93	0.56
85:AA:1601:G:C5	85:AA:1602:U:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BQ:144:PHE:HB2	50:BQ:146:TRP:CZ2	2.41	0.56
2:A1:69:VAL:H	2:A1:73:PRO:HA	1.70	0.56
34:BA:1054:U:H3'	34:BA:1055:U:C5	2.41	0.56
34:BA:1097:G:C5	35:BB:1084:A:C2	2.93	0.56
34:BA:1171:C:H2'	34:BA:1172:C:C6	2.41	0.56
34:BA:1258:G:C5	34:BA:1259:C:C5	2.94	0.56
34:BA:1262:A:C2	34:BA:1265:G:C6	2.93	0.56
34:BA:1637:G:C5	34:BA:1638:U:C5	2.94	0.56
34:BA:1789:A:H2'	34:BA:1790:U:C6	2.40	0.56
34:BA:304:G:C6	34:BA:305:C:C4	2.94	0.56
34:BA:431:A:C6	34:BA:432:A:C4	2.94	0.56
34:BA:487:A:C2	35:BB:652:G:H5'	2.41	0.56
34:BA:749:G:C6	34:BA:750:C:C4	2.93	0.56
34:BA:844:U:H6	34:BA:844:U:O5'	1.89	0.56
35:BB:100:A:C6	35:BB:101:U:C4	2.94	0.56
35:BB:101:U:H5"	53:BT:85:ARG:HB2	1.86	0.56
35:BB:1205:A:N7	35:BB:1206:G:C5	2.73	0.56
35:BB:1344:U:C4	35:BB:1369:A:C2	2.94	0.56
34:BA:487:A:C5	35:BB:651:G:C6	2.94	0.56
35:BB:657:A:C6	35:BB:658:G:C5	2.94	0.56
35:BB:692:G:C5	35:BB:693:U:C4	2.94	0.56
36:BC:53:A:C5	36:BC:54:G:C5	2.94	0.56
36:BC:73:U:C5	36:BC:74:U:C5	2.93	0.56
38:BE:101:C:C2	38:BE:120:C:C2	2.93	0.56
38:BE:150:G:C6	38:BE:163:A:C2	2.93	0.56
39:BF:6:C:H1'	39:BF:7:G:C8	2.41	0.56
41:BH:41:A:N7	58:BY:55:TRP:CZ2	2.74	0.56
47:BN:16:HIS:CG	47:BN:17:TRP:HD1	2.24	0.56
57:BX:60:TYR:CE2	57:BX:62:ARG:HD2	2.40	0.56
58:BY:16:GLY:O	58:BY:17:HIS:CD2	2.59	0.56
85:AA:178:U:H2'	85:AA:179:G:H4'	1.87	0.56
85:AA:23:G:H1	85:AA:676:U:H3	1.54	0.56
85:AA:355:G:C6	85:AA:356:U:C5	2.94	0.56
34:BA:627:U:H2'	34:BA:629:G:N7	2.21	0.56
35:BB:1026:G:H2'	35:BB:1027:U:C6	2.40	0.56
85:AA:1545:U:C6	85:AA:1545:U:H5"	2.41	0.56
41:BH:13:C:C4	41:BH:14:C:C2	2.94	0.56
85:AA:2222:G:C5	85:AA:2223:C:C5	2.94	0.56
85:AA:2170:G:C2	85:AA:2171:A:H1'	2.40	0.56
85:AA:554:A:H2'	85:AA:555:C:C6	2.41	0.56
85:AA:559:G:C6	85:AA:560:C:C4	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:553:G:C6	85:AA:575:G:C6	2.94	0.56
85:AA:577:U:C4	85:AA:578:U:C5	2.94	0.56
85:AA:1535:C:C5	85:AA:2049:U:C6	2.92	0.56
35:BB:1061:G:C2	35:BB:1062:G:C4	2.94	0.56
34:BA:1406:U:H2'	34:BA:1407:C:C6	2.40	0.56
85:AA:1244:A:C4	85:AA:1245:U:C5	2.94	0.56
85:AA:1094:G:C5	85:AA:1095:C:C5	2.94	0.56
23:AP:74:HIS:C	23:AP:74:HIS:CD2	2.79	0.56
35:BB:633:C:C2	35:BB:649:A:C2	2.93	0.56
36:BC:112:G:C5	57:BX:111:ARG:CZ	2.89	0.56
85:AA:732:G:C6	85:AA:733:C:C2	2.93	0.56
40:BG:141:A:C2	40:BG:142:A:H1'	2.40	0.56
8:A7:137:ASN:HD21	8:A7:141:GLU:HB2	1.71	0.56
85:AA:1596:A:C5	85:AA:1597:C:C5	2.93	0.56
49:BP:6:TYR:HB2	49:BP:8:ARG:HE	1.71	0.56
7:A6:62:PRO:O	7:A6:65:HIS:CD2	2.59	0.56
34:BA:636:G:H1	34:BA:645:U:H3	1.52	0.56
47:BN:124:TYR:HA	47:BN:161:ALA:HB1	1.88	0.56
85:AA:2166:G:C6	85:AA:2167:A:C5	2.94	0.56
34:BA:79:C:C2	34:BA:102:G:C2	2.94	0.56
34:BA:1168:C:C4	34:BA:1170:A:C2	2.94	0.56
34:BA:1178:U:H2'	34:BA:1179:U:C5	2.40	0.56
34:BA:1230:G:H2'	34:BA:1231:C:C6	2.41	0.56
34:BA:1437:G:C4	34:BA:1438:C:C5	2.94	0.56
34:BA:1628:A:C5	34:BA:1629:A:C5	2.94	0.56
34:BA:316:G:C5	34:BA:318:U:C6	2.94	0.56
34:BA:464:U:C6	51:BR:3:HIS:CD2	2.94	0.56
34:BA:704:G:H2'	34:BA:705:C:C6	2.41	0.56
34:BA:874:G:N2	34:BA:875:G:C4	2.72	0.56
34:BA:890:G:C5	34:BA:891:C:C5	2.94	0.56
35:BB:121:A:C6	35:BB:122:U:C4	2.94	0.56
34:BA:906:A:C4'	35:BB:1270:C:H4'	2.36	0.56
35:BB:130:G:C5	35:BB:374:A:C6	2.93	0.56
35:BB:704:G:C5	35:BB:778:A:C6	2.93	0.56
35:BB:72:G:C4	35:BB:73:G:C8	2.94	0.56
36:BC:9:G:O6	36:BC:10:C:C4	2.59	0.56
36:BC:132:U:C5	36:BC:133:C:C5	2.94	0.56
37:BD:66:G:C2	37:BD:67:C:H1'	2.41	0.56
37:BD:72:U:C6	37:BD:73:U:O4	2.59	0.56
37:BD:86:A:C6	37:BD:87:G:C6	2.94	0.56
38:BE:192:A:C2	38:BE:193:A:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:14:C:N3	38:BE:204:U:C4	2.74	0.56
40:BG:74:G:C4	40:BG:75:C:C6	2.93	0.56
7:A6:10:VAL:H	85:AA:541:A:H4'	1.69	0.56
4:A3:202:VAL:HG12	85:AA:123:A:H5'	1.87	0.56
85:AA:1273:C:H5'	85:AA:1504:A:H4'	1.87	0.56
85:AA:2121:G:H3'	85:AA:2122:A:N7	2.21	0.56
85:AA:466:A:C2	85:AA:467:U:H5'	2.41	0.56
35:BB:558:U:H4'	85:AA:2197:A:O2'	2.06	0.56
35:BB:797:C:N4	35:BB:978:C:C2	2.73	0.56
85:AA:871:U:C2	85:AA:872:U:C5	2.94	0.56
35:BB:1288:G:C4	35:BB:1319:U:C4	2.94	0.56
35:BB:666:A:C5	35:BB:667:G:C4	2.94	0.56
85:AA:2141:G:C2	85:AA:2178:A:N1	2.74	0.56
85:AA:615:A:H3'	85:AA:616:A:H5'	1.88	0.56
85:AA:789:A:C5	85:AA:802:A:C4	2.93	0.56
85:AA:1486:G:C6	85:AA:1487:G:C5	2.93	0.56
35:BB:1019:C:C5	35:BB:1020:U:C5	2.93	0.56
49:BP:132:ASP:HB2	49:BP:140:HIS:CE1	2.41	0.56
34:BA:1347:G:C2	34:BA:1399:A:C2	2.94	0.56
85:AA:768:C:H2'	85:AA:769:C:N1	2.20	0.56
34:BA:895:U:C3'	47:BN:9:PRO:HB3	2.36	0.56
35:BB:501:G:N1	35:BB:502:C:C2	2.73	0.56
85:AA:1295:G:C8	85:AA:1295:G:H3'	2.41	0.56
85:AA:1709:U:H2'	85:AA:1710:C:C6	2.40	0.56
35:BB:608:A:H2'	35:BB:609:G:C8	2.40	0.56
85:AA:1366:A:C8	85:AA:1366:A:H3'	2.41	0.56
48:BO:93:SER:O	48:BO:97:VAL:HG23	2.04	0.56
34:BA:1007:G:C5	34:BA:1024:A:C5	2.94	0.56
34:BA:1657:A:C4	34:BA:1658:G:C8	2.93	0.56
34:BA:1795:A:C2	34:BA:1796:A:N7	2.74	0.56
34:BA:214:A:C4	34:BA:214:A:C2	2.90	0.56
34:BA:108:A:C5	34:BA:386:A:C5	2.94	0.56
34:BA:846:U:C5'	42:BI:73:ARG:HH21	2.19	0.56
34:BA:818:G:C6	34:BA:853:A:C6	2.93	0.56
34:BA:856:G:N1	34:BA:857:C:C2	2.73	0.56
35:BB:1086:G:N1	35:BB:1087:A:C4	2.74	0.56
35:BB:661:G:C6	35:BB:1445:A:N3	2.74	0.56
35:BB:127:U:C2	35:BB:377:A:C2	2.94	0.56
34:BA:8:G:N1	36:BC:163:A:N1	2.54	0.56
36:BC:18:G:C4	36:BC:19:A:C5	2.93	0.56
36:BC:95:A:C2	36:BC:96:A:C4	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:113:G:C6	37:BD:114:U:C4	2.94	0.56
38:BE:116:U:H2'	38:BE:117:A:N3	2.21	0.56
38:BE:7:U:H4'	38:BE:127:G:H5'	1.86	0.56
40:BG:3:G:C2	40:BG:4:A:C8	2.93	0.56
41:BH:35:G:C5	41:BH:36:C:C5	2.94	0.56
41:BH:97:C:O3'	55:BV:63:LYS:C	2.45	0.56
49:BP:119:SER:O	49:BP:123:TRP:CG	2.58	0.56
53:BT:60:ARG:HG3	53:BT:63:TRP:CE2	2.40	0.56
53:BT:6:LEU:HD13	53:BT:6:LEU:O	2.05	0.56
85:AA:105:A:C6	85:AA:373:G:C2	2.94	0.56
85:AA:1272:G:H2'	85:AA:1273:C:C6	2.40	0.56
85:AA:1480:C:C3'	85:AA:1480:C:C6	2.89	0.56
4:A3:111:VAL:HG11	85:AA:158:C:H5'	1.87	0.56
85:AA:2115:G:C6	85:AA:2116:U:C5	2.94	0.56
85:AA:427:G:C6	85:AA:428:G:C5	2.94	0.56
85:AA:63:G:H4'	85:AA:335:G:C1'	2.36	0.56
85:AA:685:U:H5'	85:AA:686:U:OP2	2.06	0.56
34:BA:672:G:C6	34:BA:673:U:N3	2.74	0.56
35:BB:545:C:H2'	35:BB:572:G:C8	2.41	0.56
35:BB:1026:G:C8	35:BB:1027:U:C4	2.93	0.56
85:AA:1121:U:C5	85:AA:1122:U:C4	2.94	0.56
35:BB:515:C:H3'	35:BB:540:G:C8	2.40	0.56
85:AA:2033:C:H2'	85:AA:2034:G:C8	2.40	0.56
28:AU:32:LYS:O	85:AA:2039:G:C8	2.59	0.56
35:BB:1271:A:N6	35:BB:1272:G:C6	2.73	0.56
35:BB:665:A:C6	35:BB:666:A:C6	2.94	0.56
27:AT:10:VAL:HG21	27:AT:37:TRP:CE2	2.41	0.56
41:BH:10:U:C4	41:BH:20:A:C6	2.94	0.56
85:AA:2139:G:C2'	85:AA:2140:U:C6	2.88	0.56
85:AA:968:U:H3	85:AA:984:A:H61	1.54	0.56
85:AA:719:C:C2	85:AA:720:A:C8	2.93	0.56
35:BB:1465:U:C5	35:BB:1466:A:C4	2.94	0.56
34:BA:1263:A:H3'	34:BA:1264:U:H5	1.71	0.56
85:AA:741:G:N3	85:AA:742:U:C4	2.74	0.56
85:AA:1297:G:C2	85:AA:1298:G:C4	2.93	0.56
85:AA:1858:G:C5	85:AA:1859:C:C5	2.94	0.56
85:AA:1799:C:C6	85:AA:1808:G:H8	2.23	0.56
34:BA:1339:G:H3'	34:BA:1340:G:C5'	2.36	0.56
35:BB:1516:C:C4	35:BB:1517:G:C6	2.93	0.56
85:AA:13:U:C4	85:AA:14:C:C6	2.94	0.56
35:BB:50:A:C2	35:BB:51:U:C1'	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AC:71:LYS:HA	11:AC:73:TYR:CE2	2.40	0.56
4:A3:70:ALA:HB3	4:A3:102:GLY:HA3	1.88	0.56
44:BK:14:ASN:ND2	44:BK:14:ASN:H	2.03	0.56
8:A7:131:ASN:HA	8:A7:154:TRP:HA	1.88	0.56
28:AU:81:LEU:HB2	85:AA:2000:C:C2	2.41	0.56
48:BO:197:TRP:CD2	49:BP:125:ARG:CZ	2.89	0.56
34:BA:102:G:C6	34:BA:103:G:C4	2.94	0.56
34:BA:126:G:C4	34:BA:127:U:C6	2.93	0.56
34:BA:1293:A:H2'	34:BA:1295:U:C6	2.41	0.56
34:BA:161:U:H5'	34:BA:165:C:C5'	2.35	0.56
34:BA:1746:G:H22	34:BA:1778:U:H3	1.54	0.56
34:BA:177:G:N2	34:BA:309:U:H3	2.04	0.56
34:BA:1788:U:C4	34:BA:1789:A:C5	2.94	0.56
34:BA:223:U:C2	34:BA:224:G:C8	2.94	0.56
34:BA:238:C:C6	34:BA:238:C:C3'	2.89	0.56
34:BA:27:G:C6	34:BA:52:G:C6	2.94	0.56
34:BA:339:G:C6	34:BA:340:U:C4	2.94	0.56
34:BA:386:A:H2'	34:BA:387:A:C8	2.41	0.56
34:BA:424:U:C4	34:BA:1019:C:C4	2.93	0.56
34:BA:44:U:C5	34:BA:45:A:C5	2.94	0.56
34:BA:502:U:O2	34:BA:701:G:C4	2.59	0.56
34:BA:58:A:C5	34:BA:59:A:C8	2.94	0.56
34:BA:696:A:C6	34:BA:697:A:C6	2.94	0.56
34:BA:698:U:C4	34:BA:699:G:N7	2.73	0.56
34:BA:743:A:C8	47:BN:7:ALA:HB1	2.40	0.56
34:BA:99:G:C5	34:BA:100:A:C6	2.94	0.56
35:BB:1082:A:C2	35:BB:1088:C:C4	2.94	0.56
35:BB:1162:A:C4	35:BB:1201:G:C4	2.95	0.56
35:BB:122:U:C4	35:BB:123:U:C4	2.94	0.56
35:BB:124:G:C6	35:BB:380:G:C6	2.94	0.56
35:BB:1291:G:N2	35:BB:1314:G:H1'	2.21	0.56
35:BB:1353:G:H1	35:BB:1364:C:H42	1.52	0.56
35:BB:612:A:C6	35:BB:613:C:C4	2.94	0.56
35:BB:662:G:C4	35:BB:663:G:C8	2.94	0.56
36:BC:68:A:C5	36:BC:69:U:C5	2.94	0.56
36:BC:6:G:C5	36:BC:7:U:O4	2.59	0.56
36:BC:82:C:C2	36:BC:84:U:C5	2.94	0.56
37:BD:94:C:N3	37:BD:95:G:C6	2.74	0.56
38:BE:121:G:C6	38:BE:122:G:C5	2.93	0.56
38:BE:161:G:H3'	38:BE:162:U:C6	2.41	0.56
40:BG:56:G:C6	40:BG:57:A:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:81:G:H2'	40:BG:82:U:C6	2.41	0.56
47:BN:52:PHE:O	47:BN:152:THR:HA	2.06	0.56
48:BO:52:THR:HA	48:BO:121:VAL:O	2.05	0.56
7:A6:39:ARG:HA	7:A6:42:TRP:CD2	2.41	0.56
85:AA:161:A:H2'	85:AA:162:A:C8	2.41	0.56
85:AA:2112:G:C5	85:AA:2113:U:C5	2.94	0.56
85:AA:2199:G:N2	85:AA:2200:A:C4	2.74	0.56
85:AA:30:G:C6	85:AA:671:G:C6	2.94	0.56
85:AA:924:A:C6	85:AA:925:G:C5	2.94	0.56
34:BA:610:A:C5	34:BA:611:A:C8	2.94	0.56
34:BA:668:G:N1	34:BA:669:U:C2	2.74	0.56
35:BB:557:C:C2	35:BB:558:U:C5	2.94	0.56
35:BB:793:A:C8	35:BB:793:A:OP2	2.58	0.56
85:AA:1560:A:H2'	85:AA:1561:A:H5'	1.88	0.56
85:AA:1563:U:C4	85:AA:1585:A:C2	2.94	0.56
35:BB:1404:A:C4	35:BB:1440:A:C6	2.94	0.56
35:BB:1508:G:C6	35:BB:1509:G:C5	2.94	0.56
85:AA:192:G:C2	85:AA:194:U:C2	2.94	0.56
18:AJ:2:THR:CA	85:AA:1284:A:H4'	2.36	0.56
85:AA:1456:A:H2'	85:AA:1457:C:C6	2.41	0.56
85:AA:15:U:H1'	85:AA:693:A:C4	2.41	0.56
40:BG:152:G:C5	40:BG:153:C:C4	2.94	0.56
85:AA:2137:A:C6	85:AA:2138:G:C5	2.93	0.56
85:AA:1627:U:C5	85:AA:1628:U:C5	2.94	0.56
19:AK:79:GLY:H	85:AA:2076:C:P	2.29	0.56
35:BB:1066:G:C8	44:BK:111:LEU:CD2	2.88	0.56
35:BB:1002:G:C2	35:BB:1003:G:C4	2.93	0.56
35:BB:1016:C:C2	35:BB:1017:U:C6	2.94	0.56
85:AA:1034:U:C6	85:AA:1036:A:OP2	2.59	0.56
86:AB:9:A:C2'	86:AB:11:C:H41	2.19	0.56
85:AA:1300:A:C6	85:AA:1443:U:C4	2.94	0.56
49:BP:98:ALA:HB1	49:BP:102:PHE:CE1	2.41	0.56
5:A4:145:TRP:CD1	5:A4:155:MET:HA	2.40	0.56
85:AA:1599:G:C6	85:AA:1600:G:C5	2.94	0.56
35:BB:759:C:H4'	43:BJ:161:CYS:HB3	1.88	0.56
34:BA:976:C:C4	34:BA:977:G:C5	2.94	0.56
22:AO:134:LYS:HG2	85:AA:1806:C:C4	2.41	0.56
34:BA:736:G:C4	34:BA:901:C:H1'	2.40	0.56
34:BA:1411:C:H2'	34:BA:1412:G:C8	2.40	0.55
34:BA:1609:U:C2	34:BA:1641:G:C2	2.94	0.55
34:BA:1686:G:C2	34:BA:1687:A:C4	2.93	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:186:G:C2	34:BA:187:G:C5	2.94	0.55
34:BA:295:G:C6	34:BA:296:G:N7	2.74	0.55
34:BA:767:U:N3	34:BA:768:G:C5	2.75	0.55
35:BB:1100:C:C2	35:BB:1141:A:C6	2.94	0.55
35:BB:1457:A:C6	35:BB:1462:G:O6	2.59	0.55
34:BA:1846:G:O6	35:BB:2:C:C4	2.58	0.55
35:BB:386:G:H3'	35:BB:387:G:H8	1.72	0.55
36:BC:9:G:C6	36:BC:10:C:C5	2.94	0.55
37:BD:71:G:C4	37:BD:105:G:C2	2.94	0.55
38:BE:66:A:H3'	38:BE:67:A:H8	1.70	0.55
39:BF:22:U:H5'	39:BF:57:C:H1'	1.88	0.55
40:BG:33:G:N2	40:BG:169:A:H5'	2.21	0.55
41:BH:43:G:C6	41:BH:44:A:C6	2.94	0.55
34:BA:545:U:C4	34:BA:546:U:N1	2.74	0.55
85:AA:1225:C:C4	85:AA:1272:G:C6	2.93	0.55
85:AA:146:U:N3	85:AA:333:A:C8	2.75	0.55
85:AA:40:A:C8	85:AA:41:G:C8	2.94	0.55
85:AA:595:A:C2	85:AA:596:A:C4	2.94	0.55
85:AA:923:A:C2	85:AA:924:A:C4	2.95	0.55
34:BA:633:G:C4	34:BA:649:A:C2	2.94	0.55
85:AA:1654:G:C5	85:AA:1875:A:C2	2.94	0.55
34:BA:519:G:H5'	34:BA:520:G:C5	2.40	0.55
85:AA:1916:A:H2	85:AA:1996:A:C2	2.24	0.55
85:AA:1288:A:C6	85:AA:1289:U:C4	2.94	0.55
85:AA:1463:A:N7	85:AA:1464:G:H1'	2.21	0.55
85:AA:1519:A:H2'	85:AA:1520:A:C8	2.41	0.55
85:AA:1625:C:H2'	85:AA:1626:U:C6	2.41	0.55
85:AA:383:C:C4	85:AA:384:C:C5	2.94	0.55
35:BB:1017:U:C2	35:BB:1018:U:C6	2.93	0.55
85:AA:65:A:C8	85:AA:66:U:C4	2.94	0.55
85:AA:72:C:H2'	85:AA:74:U:C5	2.41	0.55
34:BA:533:U:C5	34:BA:579:U:O2	2.59	0.55
85:AA:1004:G:C6	85:AA:1005:C:C6	2.94	0.55
35:BB:643:G:C5	35:BB:644:A:C6	2.93	0.55
85:AA:830:A:C4	85:AA:852:C:OP1	2.59	0.55
34:BA:1583:A:C2	34:BA:1584:G:C2	2.94	0.55
35:BB:145:G:H1'	35:BB:148:C:C5	2.41	0.55
27:AT:11:THR:HG22	27:AT:13:ARG:HD3	1.87	0.55
4:A3:167:LYS:HB2	4:A3:170:LYS:HB2	1.86	0.55
42:BI:112:PHE:H	42:BI:117:ARG:NH2	2.04	0.55
34:BA:1025:A:C5	34:BA:1026:C:C5	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:161:U:H2'	34:BA:323:C:C5	2.41	0.55
34:BA:173:U:C2	34:BA:174:A:C8	2.93	0.55
34:BA:1795:A:H3'	35:BB:789:G:N7	2.21	0.55
34:BA:1813:C:N3	34:BA:1834:A:C2	2.74	0.55
34:BA:1838:U:O5'	34:BA:1838:U:H6	1.89	0.55
34:BA:457:A:C4	34:BA:458:G:C8	2.94	0.55
34:BA:753:G:C6	34:BA:754:G:C6	2.93	0.55
34:BA:782:C:H2'	34:BA:783:U:C6	2.42	0.55
35:BB:1076:U:H3	35:BB:1096:G:H1	1.54	0.55
35:BB:1136:G:C8	35:BB:1149:A:C6	2.95	0.55
35:BB:1144:A:C2	35:BB:1145:G:C5	2.95	0.55
35:BB:1239:A:C6	35:BB:1240:A:C5	2.94	0.55
35:BB:1534:U:C6	35:BB:1534:U:O5'	2.59	0.55
39:BF:21:C:C6	48:BO:133:THR:CG2	2.89	0.55
40:BG:165:C:H2'	40:BG:166:C:H6	1.70	0.55
41:BH:47:G:C6	41:BH:106:G:C6	2.95	0.55
48:BO:91:HIS:O	48:BO:91:HIS:CD2	2.59	0.55
85:AA:1226:A:C5	85:AA:1274:A:C5	2.95	0.55
85:AA:104:C:H42	85:AA:373:G:H1	1.53	0.55
85:AA:40:A:C6	85:AA:41:G:H1'	2.41	0.55
35:BB:806:U:C6	35:BB:807:U:C6	2.93	0.55
85:AA:1112:G:C8	85:AA:1114:A:C8	2.95	0.55
35:BB:1164:U:H3	35:BB:1187:G:H1	1.53	0.55
85:AA:1128:G:H2'	85:AA:1129:A:H8	1.67	0.55
49:BP:92:VAL:HG13	49:BP:93:ARG:HG3	1.86	0.55
85:AA:879:G:C6	85:AA:927:A:C6	2.94	0.55
34:BA:273:G:C5	34:BA:274:C:C5	2.94	0.55
34:BA:1208:U:C6	34:BA:1210:A:C6	2.95	0.55
34:BA:683:C:H5"	34:BA:683:C:C2	2.41	0.55
85:AA:602:U:OP1	85:AA:603:C:C5	2.60	0.55
85:AA:236:G:N7	85:AA:237:G:C8	2.74	0.55
85:AA:1529:A:C4	85:AA:1530:U:C5	2.94	0.55
34:BA:1343:A:C6	34:BA:1344:G:C6	2.94	0.55
35:BB:576:A:H1'	35:BB:1420:U:H5'	1.89	0.55
85:AA:1109:G:C6	85:AA:1110:A:C5	2.95	0.55
85:AA:860:C:H2'	85:AA:862:U:C4	2.41	0.55
35:BB:458:U:C4	35:BB:459:U:C4	2.95	0.55
35:BB:419:G:C6	35:BB:454:U:C2	2.95	0.55
35:BB:13:A:C6	35:BB:14:C:C5	2.94	0.55
85:AA:1643:U:H2'	85:AA:1644:G:C8	2.42	0.55
28:AU:72:SER:HB2	28:AU:79:VAL:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AR:30:THR:HB	25:AR:32:PHE:CE1	2.41	0.55
56:BW:40:SER:HB3	56:BW:61:MET:SD	2.46	0.55
7:A6:139:ILE:CG1	7:A6:140:VAL:H	2.19	0.55
34:BA:1168:C:C6	34:BA:1170:A:H1'	2.41	0.55
34:BA:1412:G:N2	34:BA:1413:G:C4	2.74	0.55
34:BA:1277:G:C2	34:BA:1464:C:C2	2.94	0.55
34:BA:1502:G:C2	34:BA:1503:U:C1'	2.88	0.55
34:BA:1658:G:C6	34:BA:1659:G:C5	2.94	0.55
34:BA:1682:A:C5	34:BA:1683:C:C4	2.94	0.55
34:BA:1816:G:C3'	34:BA:1818:A:C8	2.89	0.55
34:BA:328:A:H3'	34:BA:328:A:C8	2.41	0.55
34:BA:411:C:C2	36:BC:24:G:H4'	2.41	0.55
34:BA:76:U:H2'	34:BA:77:C:C6	2.40	0.55
35:BB:1133:C:C4	35:BB:1134:G:C5	2.93	0.55
35:BB:1454:G:H2'	35:BB:1455:A:H8	1.72	0.55
35:BB:776:U:C6	35:BB:777:C:C4	2.94	0.55
36:BC:75:G:C2	36:BC:76:C:C2	2.94	0.55
37:BD:75:G:H1	37:BD:99:G:H3'	1.70	0.55
38:BE:117:A:C4	38:BE:117:A:H5'	2.41	0.55
38:BE:100:U:C4	38:BE:119:U:O2	2.60	0.55
40:BG:30:C:C2	40:BG:31:G:C8	2.94	0.55
42:BI:37:GLY:HA2	42:BI:45:ASN:HB2	1.88	0.55
44:BK:95:HIS:CE1	44:BK:96:VAL:O	2.60	0.55
47:BN:74:ARG:H	47:BN:74:ARG:NE	2.04	0.55
34:BA:539:C:C1'	34:BA:571:G:H1	2.20	0.55
85:AA:2133:A:C2	85:AA:2134:U:C2	2.94	0.55
85:AA:424:A:C2	85:AA:425:G:C8	2.95	0.55
85:AA:961:U:C2	85:AA:993:G:C2	2.94	0.55
34:BA:946:A:C4	34:BA:947:A:C8	2.94	0.55
24:AQ:65:THR:HG23	85:AA:1657:C:O2'	2.06	0.55
85:AA:1561:A:C2	85:AA:1894:G:O4'	2.59	0.55
85:AA:1562:U:C2	85:AA:1895:C:H5'	2.41	0.55
34:BA:519:G:C8	34:BA:684:G:OP1	2.59	0.55
35:BB:1545:U:C4	35:BB:1546:C:C5	2.94	0.55
85:AA:577:U:C2	85:AA:578:U:C6	2.95	0.55
85:AA:367:A:C5	85:AA:368:C:C5	2.94	0.55
34:BA:1164:C:H2'	34:BA:1165:A:C8	2.41	0.55
47:BN:85:LEU:O	47:BN:90:VAL:HG12	2.06	0.55
34:BA:1447:C:C2	49:BP:47:TRP:CH2	2.94	0.55
34:BA:1127:U:C5	34:BA:1128:C:C6	2.94	0.55
85:AA:342:C:C4	85:AA:343:U:C2	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1424:G:C5	35:BB:1425:A:N6	2.75	0.55
34:BA:1119:A:C2	34:BA:1140:A:C2	2.95	0.55
34:BA:1023:G:C2	35:BB:1267:C:C5	2.94	0.55
10:A9:144:GLY:HA3	85:AA:1610:G:H21	1.70	0.55
85:AA:1731:G:H1	85:AA:1797:U:H3	1.53	0.55
85:AA:1800:U:C4	85:AA:1801:U:C4	2.95	0.55
17:AI:106:GLY:HA3	85:AA:1892:G:H21	1.71	0.55
35:BB:396:C:C4	35:BB:397:C:C4	2.94	0.55
35:BB:1426:G:C6	35:BB:1427:A:C5	2.95	0.55
35:BB:755:A:C5	35:BB:756:C:C5	2.94	0.55
85:AA:1596:A:C6	85:AA:1597:C:C2	2.93	0.55
6:A5:160:ARG:HB3	6:A5:164:TYR:CZ	2.42	0.55
35:BB:1374:U:C6	35:BB:1393:C:C5	2.94	0.55
34:BA:1306:U:H1'	48:BO:66:ILE:HG21	1.89	0.55
2:A1:40:SER:HA	2:A1:81:ALA:H	1.72	0.55
8:A7:91:LEU:HD21	8:A7:126:SER:HB3	1.87	0.55
52:BS:79:ASP:OD1	52:BS:93:VAL:HG22	2.06	0.55
34:BA:1064:A:C4	34:BA:1065:U:C6	2.95	0.55
34:BA:1205:A:C8	34:BA:1205:A:H5"	2.42	0.55
34:BA:1502:G:N2	34:BA:1503:U:H1'	2.21	0.55
34:BA:1524:G:C2	42:BI:18:HIS:CE1	2.94	0.55
34:BA:1830:A:H3'	34:BA:1831:A:H5"	1.87	0.55
34:BA:340:U:H2'	34:BA:341:U:C6	2.42	0.55
34:BA:470:C:OP1	34:BA:470:C:H3'	2.06	0.55
34:BA:849:G:O5'	34:BA:849:G:C8	2.60	0.55
35:BB:1155:U:C2	35:BB:1156:U:C5	2.94	0.55
35:BB:4:C:C6	38:BE:13:A:C4	2.94	0.55
35:BB:704:G:C2	35:BB:705:C:C2	2.94	0.55
36:BC:106:G:C6	36:BC:115:G:C6	2.94	0.55
36:BC:154:A:H2'	36:BC:155:C:O4'	2.06	0.55
38:BE:147:G:H1	38:BE:165:U:H3	1.55	0.55
38:BE:193:A:H2'	38:BE:194:A:C8	2.41	0.55
38:BE:199:A:C6	38:BE:200:A:C5	2.94	0.55
39:BF:10:A:H4'	39:BF:13:U:C6	2.42	0.55
40:BG:166:C:C2'	40:BG:167:C:H5"	2.37	0.55
40:BG:33:G:N1	40:BG:169:A:H5'	2.22	0.55
41:BH:68:G:C6	41:BH:69:C:C4	2.94	0.55
85:AA:144:A:H3'	85:AA:145:C:H5'	1.87	0.55
85:AA:1481:U:H2'	85:AA:1482:C:C6	2.41	0.55
85:AA:159:G:C6	85:AA:164:G:C6	2.95	0.55
85:AA:172:A:C2	85:AA:173:A:C4	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2114:U:C2	85:AA:2205:A:C2	2.95	0.55
35:BB:794:G:C6	35:BB:795:A:C6	2.94	0.55
85:AA:2003:C:H3'	85:AA:2035:C:H41	1.70	0.55
17:AI:45:HIS:CD2	17:AI:46:ALA:H	2.25	0.55
35:BB:1093:C:H5"	44:BK:119:TYR:CE2	2.41	0.55
41:BH:23:G:C2	41:BH:24:U:C4	2.95	0.55
85:AA:1462:A:C5	85:AA:1463:A:C5	2.94	0.55
85:AA:1464:G:C4	85:AA:1465:C:C5	2.95	0.55
85:AA:1522:U:C6	85:AA:1522:U:O5'	2.59	0.55
85:AA:2236:U:C6	85:AA:2236:U:H3'	2.41	0.55
85:AA:1923:A:O2'	85:AA:2074:G:H5'	2.07	0.55
85:AA:2081:A:C4	85:AA:2082:C:C6	2.94	0.55
34:BA:1263:A:C6	34:BA:1264:U:C6	2.94	0.55
85:AA:756:G:H2'	85:AA:757:A:C8	2.42	0.55
35:BB:1384:A:C5	35:BB:1385:C:C5	2.95	0.55
34:BA:833:U:C4	34:BA:834:C:C2	2.94	0.55
85:AA:1729:C:C5	85:AA:1730:C:C5	2.94	0.55
35:BB:1057:G:C6	35:BB:1058:U:C4	2.95	0.55
35:BB:889:U:H1'	35:BB:894:A:C2	2.41	0.55
59:BZ:42:VAL:HG22	59:BZ:120:ASP:HA	1.87	0.55
48:BO:214:GLU:HG2	48:BO:216:LEU:HD13	1.88	0.55
34:BA:1190:A:C5	34:BA:1191:C:C5	2.95	0.55
34:BA:1190:A:C6	34:BA:1191:C:C4	2.93	0.55
34:BA:1517:U:O4	34:BA:1518:A:C5	2.59	0.55
34:BA:1610:A:C4	34:BA:1611:A:C8	2.95	0.55
34:BA:165:C:O2	34:BA:166:G:C4	2.60	0.55
34:BA:1723:U:H3	34:BA:1728:G:H1	1.53	0.55
34:BA:1741:G:C2	34:BA:1784:G:C2	2.94	0.55
34:BA:237:A:C3'	34:BA:238:C:C6	2.89	0.55
35:BB:1153:G:C4	35:BB:1154:C:C5	2.94	0.55
35:BB:1233:U:H2'	35:BB:1234:G:C8	2.41	0.55
35:BB:1296:A:C4	35:BB:1309:A:C4	2.95	0.55
35:BB:1312:U:H2'	35:BB:1313:C:C6	2.41	0.55
35:BB:1372:G:C4	35:BB:1373:U:C5	2.94	0.55
35:BB:486:G:H2'	35:BB:487:A:C8	2.42	0.55
35:BB:617:C:C2	35:BB:618:U:C6	2.95	0.55
35:BB:95:A:H3'	35:BB:96:A:N7	2.21	0.55
36:BC:149:A:C5	36:BC:150:U:C4	2.94	0.55
36:BC:166:G:C2	36:BC:167:U:C2	2.95	0.55
36:BC:44:A:C6	36:BC:45:C:C4	2.95	0.55
37:BD:48:G:N3	37:BD:49:A:C5	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:152:U:C4	38:BE:154:A:H2	2.24	0.55
34:BA:1783:C:H4'	38:BE:207:G:H22	1.70	0.55
38:BE:93:U:C4	38:BE:128:G:N1	2.74	0.55
39:BF:28:C:OP2	39:BF:28:C:C6	2.59	0.55
40:BG:92:U:C4	40:BG:108:G:N1	2.75	0.55
40:BG:34:A:H3'	40:BG:35:G:C8	2.42	0.55
40:BG:70:C:C2	40:BG:71:C:C6	2.93	0.55
41:BH:7:C:N4	41:BH:129:G:C5	2.75	0.55
85:AA:355:G:C2	85:AA:356:U:C6	2.95	0.55
85:AA:356:U:H3'	85:AA:357:C:C6	2.42	0.55
85:AA:453:G:C2	85:AA:454:G:C5	2.95	0.55
35:BB:823:G:C2	35:BB:824:C:C1'	2.89	0.55
35:BB:847:U:H3'	35:BB:848:A:H5'	1.87	0.55
85:AA:1869:U:H6	85:AA:1869:U:OP2	1.89	0.55
21:AM:38:GLY:HA2	85:AA:2033:C:C5'	2.36	0.55
35:BB:672:C:C5	35:BB:673:C:C5	2.94	0.55
35:BB:361:A:C2	35:BB:362:A:H1'	2.41	0.55
35:BB:366:G:C5	35:BB:367:C:C4	2.94	0.55
85:AA:2086:C:C2	85:AA:2087:C:C5	2.94	0.55
35:BB:1478:G:C6	35:BB:1487:G:C6	2.94	0.55
34:BA:838:U:C5	34:BA:839:U:C6	2.95	0.55
85:AA:730:G:C5	85:AA:731:U:C5	2.94	0.55
85:AA:847:G:C6	85:AA:848:C:C4	2.95	0.55
9:A8:31:VAL:HA	9:A8:40:CYS:HA	1.88	0.55
35:BB:1531:G:C6	35:BB:1538:G:C6	2.95	0.55
13:AE:64:ALA:HB1	13:AE:77:THR:HG22	1.89	0.55
34:BA:1011:G:C6	34:BA:1013:A:N1	2.74	0.55
34:BA:1073:G:C5	34:BA:1221:A:C6	2.94	0.55
34:BA:1230:G:C5	34:BA:1231:C:C5	2.94	0.55
34:BA:1275:G:C6	34:BA:1276:G:C5	2.95	0.55
34:BA:1557:G:C2	34:BA:1558:C:C2	2.95	0.55
34:BA:18:G:C6	36:BC:37:U:C6	2.95	0.55
34:BA:212:A:C2	34:BA:221:G:C2	2.95	0.55
34:BA:34:U:C2	34:BA:35:U:C6	2.94	0.55
34:BA:701:G:C8	34:BA:701:G:O5'	2.60	0.55
34:BA:739:A:H4'	47:BN:13:GLN:CD	2.26	0.55
34:BA:843:G:C5	34:BA:844:U:C4	2.95	0.55
34:BA:858:C:C6	34:BA:880:G:N2	2.74	0.55
35:BB:1079:G:C4	35:BB:1080:U:C6	2.95	0.55
35:BB:1121:A:H3'	35:BB:1122:C:C6	2.42	0.55
35:BB:44:C:H2'	35:BB:45:A:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:652:G:O2'	40:BG:172:C:C5	2.60	0.55
36:BC:1:A:C6	36:BC:2:A:C6	2.95	0.55
36:BC:77:A:C6	36:BC:78:G:C5	2.95	0.55
37:BD:1:G:C2	37:BD:2:G:C4	2.95	0.55
38:BE:96:G:C2	38:BE:124:G:N1	2.74	0.55
38:BE:145:A:H61	38:BE:167:U:H3	1.54	0.55
38:BE:30:C:C2	38:BE:31:A:C8	2.95	0.55
39:BF:23:G:C8	48:BO:132:ARG:HA	2.42	0.55
34:BA:543:A:N1	34:BA:564:C:C4	2.74	0.55
85:AA:535:G:C5	85:AA:536:C:C5	2.95	0.55
85:AA:636:G:C4	85:AA:637:U:C6	2.95	0.55
85:AA:686:U:C5	85:AA:687:G:C4	2.95	0.55
23:AP:217:ARG:HD2	23:AP:217:ARG:H	1.72	0.55
34:BA:615:A:C2	34:BA:666:C:N3	2.74	0.55
35:BB:546:A:C4	35:BB:555:G:C6	2.94	0.55
35:BB:808:U:OP2	35:BB:808:U:C5	2.60	0.55
35:BB:817:C:C2	35:BB:823:G:N2	2.74	0.55
26:AS:6:GLY:O	85:AA:707:U:H5"	2.06	0.55
5:A4:9:LYS:O	5:A4:47:HIS:CE1	2.60	0.55
34:BA:603:U:H1'	34:BA:682:A:H62	1.71	0.55
35:BB:1283:C:C6	35:BB:1283:C:O5'	2.60	0.55
34:BA:727:G:H2'	35:BB:628:A:H4'	1.89	0.55
85:AA:209:C:H2'	85:AA:210:G:H4'	1.87	0.55
85:AA:1689:G:C6	85:AA:1690:A:C5	2.95	0.55
85:AA:2214:A:C2'	85:AA:2215:C:H5"	2.35	0.55
85:AA:575:G:C2	85:AA:577:U:C4	2.95	0.55
85:AA:1991:C:H2'	85:AA:1992:A:C8	2.42	0.55
34:BA:1341:A:C4	34:BA:1342:C:C6	2.94	0.55
34:BA:1333:G:C4	34:BA:1409:A:C2	2.94	0.55
85:AA:265:A:OP1	85:AA:868:A:C8	2.59	0.55
34:BA:583:G:C2	34:BA:584:A:C5	2.94	0.55
85:AA:1002:G:C2	85:AA:1003:G:C4	2.95	0.55
35:BB:501:G:C5	35:BB:502:C:C5	2.94	0.55
35:BB:1421:C:C2	35:BB:1422:G:C8	2.94	0.55
1:A0:197:ASP:O	1:A0:200:ALA:HB3	2.06	0.55
21:AM:83:TRP:CE3	85:AA:1968:A:C6	2.94	0.55
34:BA:1084:A:C5	34:BA:1085:G:C6	2.95	0.55
35:BB:1413:U:C2	35:BB:1414:A:C8	2.95	0.55
1:A0:133:ASP:CG	1:A0:183:ILE:HG23	2.26	0.55
24:AQ:21:MET:HE1	24:AQ:86:VAL:HG12	1.88	0.55
21:AM:43:TYR:CD1	21:AM:43:TYR:N	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1048:C:C2	34:BA:1520:A:C2	2.95	0.55
34:BA:1200:U:H3'	34:BA:1202:G:OP2	2.07	0.55
34:BA:1327:G:C6	34:BA:1415:C:C2	2.94	0.55
34:BA:135:G:C4	34:BA:136:A:C8	2.95	0.55
34:BA:1468:U:H2'	34:BA:1469:G:C8	2.41	0.55
34:BA:1552:C:H2'	34:BA:1553:G:C8	2.42	0.55
34:BA:1616:A:H5'	34:BA:1634:A:C2	2.42	0.55
34:BA:162:G:N2	34:BA:320:G:C8	2.75	0.55
34:BA:316:G:C6	34:BA:318:U:C5	2.95	0.55
34:BA:359:G:C5	34:BA:362:G:H5"	2.41	0.55
34:BA:697:A:C2	34:BA:698:U:C4	2.95	0.55
34:BA:72:U:OP1	47:BN:63:VAL:HB	2.06	0.55
34:BA:740:A:C8	47:BN:10:HIS:CD2	2.94	0.55
34:BA:795:G:H2'	34:BA:796:G:C8	2.41	0.55
34:BA:873:G:H3'	34:BA:874:G:H5"	1.89	0.55
35:BB:1292:G:C4	35:BB:1293:C:C6	2.94	0.55
35:BB:369:A:C2	35:BB:370:A:C5	2.95	0.55
35:BB:651:G:C8	35:BB:651:G:OP2	2.60	0.55
35:BB:81:A:C5	35:BB:82:G:C5	2.95	0.55
36:BC:130:U:C2	36:BC:131:C:H5'	2.42	0.55
38:BE:137:A:C5	38:BE:138:U:C5	2.95	0.55
38:BE:42:C:H4'	53:BT:63:TRP:CH2	2.41	0.55
40:BG:80:G:C2	40:BG:119:A:C2	2.95	0.55
34:BA:237:A:C2	40:BG:14:G:C8	2.94	0.55
40:BG:163:G:H3'	40:BG:164:U:C6	2.41	0.55
40:BG:58:G:H3'	40:BG:59:G:H8	1.72	0.55
40:BG:95:U:C6	53:BT:62:ARG:NH2	2.74	0.55
41:BH:121:A:N1	41:BH:123:G:C5	2.74	0.55
41:BH:34:G:C4	41:BH:35:G:C8	2.95	0.55
47:BN:61:PRO:HD2	47:BN:77:GLY:O	2.07	0.55
58:BY:82:ALA:HB2	85:AA:2159:C:C4	2.38	0.55
85:AA:331:G:H5"	85:AA:332:A:H5'	1.89	0.55
85:AA:370:A:C6	85:AA:371:C:C4	2.95	0.55
85:AA:474:C:N3	85:AA:475:A:C5	2.75	0.55
85:AA:543:A:C6	85:AA:544:A:C5	2.94	0.55
85:AA:636:G:C5	85:AA:637:U:C5	2.95	0.55
85:AA:678:A:C6	85:AA:679:A:C4	2.94	0.55
85:AA:689:U:H2'	85:AA:695:A:C2	2.42	0.55
23:AP:189:VAL:HG13	85:AA:2:A:C3'	2.34	0.55
35:BB:558:U:C2	35:BB:559:U:C6	2.95	0.55
35:BB:824:C:C2'	35:BB:825:U:H5'	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BX:58:HIS:CE1	57:BX:61:ARG:HH11	2.25	0.55
17:AI:44:VAL:HG12	17:AI:45:HIS:H	1.71	0.55
31:AX:144:GLN:HE22	85:AA:653:A:C3'	2.19	0.55
35:BB:1286:G:H3'	35:BB:1287:U:C6	2.41	0.55
85:AA:587:G:C2	85:AA:588:G:C4	2.93	0.55
85:AA:588:G:C8	85:AA:588:G:H5"	2.42	0.55
85:AA:604:C:H2'	85:AA:605:A:C5	2.42	0.55
27:AT:36:GLY:H	85:AA:604:C:C4'	2.19	0.55
85:AA:243:A:H5"	85:AA:244:G:C8	2.40	0.55
41:BH:16:A:C6	41:BH:17:A:C5	2.95	0.55
41:BH:21:G:C6	41:BH:22:A:C4	2.95	0.55
85:AA:1450:U:C4	85:AA:1451:U:C4	2.95	0.55
17:AI:51:ARG:HH12	17:AI:55:HIS:CD2	2.25	0.55
85:AA:2147:A:C6	85:AA:2172:A:C8	2.94	0.55
85:AA:790:A:H5'	85:AA:792:A:C1'	2.37	0.55
85:AA:399:A:N1	85:AA:400:G:C6	2.75	0.55
47:BN:80:PHE:CE1	47:BN:121:LEU:HD21	2.41	0.55
39:BF:39:C:H3'	39:BF:41:U:N3	2.22	0.55
39:BF:54:U:OP1	39:BF:54:U:C5	2.58	0.55
34:BA:1118:C:C2'	34:BA:1119:A:H5"	2.37	0.55
85:AA:1843:A:C2	85:AA:1844:A:C4	2.95	0.55
85:AA:1858:G:C6	85:AA:1859:C:C4	2.95	0.55
34:BA:979:G:C6	34:BA:981:A:C4	2.94	0.55
20:AL:104:GLN:HA	20:AL:107:ALA:HB3	1.89	0.55
2:A1:91:LYS:CE	27:AT:22:LEU:HA	2.37	0.55
34:BA:1107:A:C2	34:BA:1108:U:C1'	2.90	0.55
34:BA:1107:A:C6	34:BA:1108:U:C4	2.95	0.55
34:BA:1112:U:H2'	34:BA:1113:A:C8	2.41	0.55
34:BA:124:G:N1	34:BA:125:G:C6	2.75	0.55
34:BA:1301:G:H2'	34:BA:1302:C:C6	2.42	0.55
34:BA:1737:A:C2	34:BA:1738:G:C4	2.95	0.55
34:BA:1783:C:C2	34:BA:1784:G:C8	2.94	0.55
34:BA:1787:U:C2	34:BA:1788:U:C5	2.95	0.55
34:BA:301:U:C5'	34:BA:302:A:H5'	2.37	0.55
34:BA:330:A:C2	50:BQ:29:LYS:HG2	2.42	0.55
34:BA:332:U:C2	34:BA:333:A:C8	2.94	0.55
34:BA:399:G:C6	36:BC:29:C:C4	2.95	0.55
34:BA:505:U:C2	34:BA:506:U:C5	2.95	0.55
34:BA:71:G:N1	34:BA:72:U:C4	2.75	0.55
34:BA:938:C:H5'	38:BE:113:C:OP2	2.07	0.55
35:BB:1147:G:C4	35:BB:1148:U:C4	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:125:G:C5	35:BB:126:C:C4	2.95	0.55
35:BB:1305:A:C5	35:BB:1306:G:C4	2.95	0.55
35:BB:71:A:N6	35:BB:615:A:H1'	2.20	0.55
34:BA:472:G:H1'	36:BC:15:G:N2	2.22	0.55
36:BC:72:A:C5	36:BC:73:U:C5	2.95	0.55
37:BD:91:U:C4	37:BD:92:G:C5	2.95	0.55
41:BH:131:A:C5	41:BH:132:C:C4	2.95	0.55
41:BH:33:G:O2'	41:BH:34:G:H8	1.88	0.55
51:BR:26:TYR:CD1	51:BR:144:CYS:HA	2.41	0.55
34:BA:464:U:C6	51:BR:3:HIS:CG	2.95	0.55
85:AA:2119:C:C2	85:AA:2200:A:C2	2.95	0.55
85:AA:680:U:C2	85:AA:682:C:C4	2.95	0.55
34:BA:610:A:C4	34:BA:611:A:C8	2.94	0.55
35:BB:569:G:C2	35:BB:570:A:H1'	2.42	0.55
85:AA:1120:G:C2	85:AA:1121:U:C4	2.94	0.55
5:A4:3:ALA:HB1	5:A4:10:LEU:CA	2.37	0.55
22:AO:89:TYR:CE2	85:AA:1963:G:H3'	2.41	0.55
85:AA:1973:G:H2'	85:AA:1974:C:C5	2.41	0.55
35:BB:628:A:C6	35:BB:629:C:C2	2.95	0.55
35:BB:672:C:O2	35:BB:1278:A:C2	2.60	0.55
35:BB:1522:G:N2	35:BB:1545:U:H3	2.04	0.55
85:AA:1292:A:H5"	85:AA:1292:A:C8	2.40	0.55
34:BA:1287:G:C5	34:BA:1288:U:C4	2.95	0.55
85:AA:2147:A:C4	85:AA:2172:A:C5	2.95	0.55
85:AA:550:G:C6	85:AA:551:C:C4	2.95	0.55
34:BA:1126:U:H6	34:BA:1126:U:O5'	1.90	0.55
34:BA:587:U:C6	34:BA:587:U:C5'	2.90	0.55
86:AB:12:U:H1'	86:AB:24:G:N2	2.22	0.55
34:BA:206:C:O2	34:BA:228:A:C2	2.60	0.55
85:AA:1097:G:C2	85:AA:1098:C:H1'	2.42	0.55
85:AA:1953:G:C5	85:AA:1954:C:C5	2.94	0.55
34:BA:1152:A:C5	44:BK:22:PHE:CD2	2.95	0.55
85:AA:1165:C:C6	85:AA:1166:C:C5	2.94	0.55
5:A4:143:ARG:CG	5:A4:145:TRP:HE1	2.20	0.55
85:AA:734:C:H2'	85:AA:735:G:C8	2.42	0.55
24:AQ:42:ASN:H	24:AQ:43:GLU:HA	1.70	0.55
4:A3:38:ASP:O	4:A3:41:ILE:HG22	2.07	0.55
15:AG:34:ILE:HA	15:AG:37:VAL:HG22	1.89	0.55
2:A1:85:ASP:O	2:A1:97:ARG:HA	2.07	0.55
13:AE:103:ARG:HG3	13:AE:120:HIS:CD2	2.42	0.55
85:AA:1555:G:C6	85:AA:1556:G:C4	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BX:124:LEU:HB3	57:BX:125:TYR:CZ	2.42	0.55
34:BA:1070:G:C4	34:BA:1071:G:C8	2.95	0.55
34:BA:1484:A:C2	34:BA:1485:U:N1	2.75	0.55
34:BA:1590:G:N1	34:BA:1591:G:C4	2.75	0.55
34:BA:1597:G:H1	51:BR:141:ARG:NH2	1.99	0.55
34:BA:162:G:C5	34:BA:322:U:H5	2.24	0.55
34:BA:1633:C:H5"	34:BA:1634:A:H3'	1.88	0.55
34:BA:1671:A:H2'	34:BA:1672:C:H5'	1.89	0.55
34:BA:1691:G:C5	34:BA:1825:U:C4	2.95	0.55
34:BA:25:C:C4	34:BA:26:C:C5	2.95	0.55
34:BA:449:G:H1'	34:BA:453:A:C2	2.42	0.55
34:BA:732:A:C6	34:BA:733:G:C5	2.95	0.55
34:BA:791:A:N6	34:BA:792:A:C2	2.75	0.55
35:BB:1075:A:C6	35:BB:1076:U:N1	2.75	0.55
35:BB:1234:G:C6	47:BN:203:ARG:CZ	2.90	0.55
35:BB:1459:U:O2	35:BB:1462:G:C8	2.59	0.55
35:BB:1470:G:C4	35:BB:1472:U:C6	2.95	0.55
35:BB:486:G:C2	35:BB:487:A:C4	2.95	0.55
36:BC:125:A:N1	36:BC:139:A:C5	2.74	0.55
34:BA:17:A:C6	36:BC:151:G:N1	2.75	0.55
37:BD:42:A:C4	37:BD:43:U:C6	2.95	0.55
37:BD:60:C:H2'	37:BD:61:C:H6	1.72	0.55
38:BE:18:U:C4	38:BE:20:C:C5	2.94	0.55
40:BG:104:A:C6	40:BG:105:A:C5	2.95	0.55
40:BG:45:G:C6	40:BG:46:G:C5	2.95	0.55
41:BH:45:G:N1	41:BH:107:A:C2	2.73	0.55
41:BH:43:G:C5	41:BH:44:A:C6	2.94	0.55
34:BA:538:G:H2'	34:BA:539:C:C6	2.42	0.55
34:BA:567:U:O5'	34:BA:567:U:C6	2.60	0.55
85:AA:88:G:H3'	85:AA:89:C:H6	1.72	0.55
56:BW:88:ARG:HA	56:BW:93:THR:O	2.07	0.55
5:A4:6:HIS:HD1	53:BT:192:ASP:HA	1.69	0.55
85:AA:2042:G:C2	85:AA:2043:A:C5	2.95	0.55
85:AA:589:A:N7	85:AA:605:A:C5	2.74	0.55
23:AP:149:VAL:HG12	23:AP:151:ARG:HG2	1.88	0.55
85:AA:1696:U:C5	85:AA:1697:C:C5	2.95	0.55
85:AA:1704:C:C2	85:AA:1705:G:C8	2.95	0.55
85:AA:290:G:C6	85:AA:291:G:C5	2.95	0.55
85:AA:420:C:N3	85:AA:421:G:C8	2.75	0.55
35:BB:1001:G:C6	35:BB:1002:G:C5	2.95	0.55
34:BA:999:G:C6	34:BA:1000:G:C6	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1034:U:C2'	85:AA:1035:C:H2'	2.37	0.55
85:AA:1001:G:C2	85:AA:1002:G:C4	2.95	0.55
86:AB:3:C:C5	86:AB:71:G:C5	2.95	0.55
35:BB:634:A:C2	35:BB:635:A:C4	2.95	0.55
34:BA:1692:U:C4	35:BB:12:G:C6	2.95	0.55
30:AW:29:PRO:CB	85:AA:1208:C:C4	2.89	0.55
21:AM:27:VAL:HG12	21:AM:28:PRO:HD3	1.89	0.55
48:BO:179:ARG:HH21	48:BO:180:ILE:HG22	1.72	0.55
85:AA:1568:U:H2'	85:AA:1569:C:C6	2.42	0.55
7:A6:80:HIS:CE1	7:A6:87:GLU:HG3	2.42	0.55
58:BY:79:THR:HG21	85:AA:2163:G:C4'	2.28	0.55
34:BA:1190:A:C2	34:BA:1191:C:C2	2.95	0.55
34:BA:127:U:H3'	34:BA:128:C:C6	2.42	0.55
34:BA:1539:A:C2	34:BA:1568:A:N1	2.75	0.55
34:BA:1614:G:C2	34:BA:1634:A:N7	2.75	0.55
34:BA:164:C:H2'	34:BA:165:C:H3'	1.88	0.55
34:BA:362:G:C4	34:BA:363:G:C8	2.95	0.55
34:BA:449:G:N3	34:BA:453:A:C6	2.74	0.55
34:BA:480:G:C6	34:BA:481:A:C6	2.95	0.55
34:BA:502:U:H2'	34:BA:503:C:C6	2.42	0.55
34:BA:825:G:C2	34:BA:843:G:C4	2.95	0.55
34:BA:912:G:C5	34:BA:913:U:C5	2.95	0.55
35:BB:1103:A:C8	35:BB:1105:G:C8	2.96	0.55
35:BB:1109:A:C2	35:BB:1156:U:O2	2.60	0.55
35:BB:1147:G:C6	35:BB:1148:U:C4	2.94	0.55
35:BB:1223:A:H4'	35:BB:1227:G:C5	2.41	0.55
35:BB:1305:A:C8	35:BB:1356:G:C5	2.95	0.55
35:BB:1450:G:H2'	35:BB:1451:C:C6	2.42	0.55
35:BB:84:G:H1	35:BB:601:U:H3'	1.72	0.55
37:BD:71:G:C6	37:BD:105:G:C6	2.95	0.55
38:BE:114:G:C6	38:BE:115:U:C5	2.95	0.55
38:BE:123:A:C2	38:BE:124:G:C4	2.95	0.55
38:BE:129:G:C2	38:BE:130:G:C2	2.95	0.55
40:BG:5:G:C2	40:BG:6:A:C4	2.95	0.55
40:BG:4:A:C2	40:BG:5:G:C5	2.95	0.55
35:BB:1128:U:H5"	45:BL:56:ARG:O	2.07	0.55
85:AA:125:A:C6	85:AA:126:U:C5	2.95	0.55
85:AA:451:G:H2'	85:AA:452:A:C8	2.41	0.55
85:AA:460:U:C4	85:AA:461:G:C6	2.95	0.55
35:BB:844:G:N1	35:BB:845:C:C2	2.75	0.55
35:BB:466:A:C8	35:BB:537:A:H1'	2.43	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:937:G:H5"	85:AA:938:A:C8	2.41	0.55
85:AA:1545:U:H3'	85:AA:1546:G:H8	1.70	0.55
85:AA:1959:G:C2'	85:AA:1960:C:H5"	2.36	0.55
34:BA:1240:G:H2'	34:BA:1242:A:OP2	2.08	0.55
85:AA:2218:G:H4'	85:AA:2219:G:H5'	1.89	0.55
40:BG:152:G:C2	40:BG:153:C:C2	2.94	0.55
85:AA:109:G:C5	85:AA:110:U:C4	2.95	0.55
34:BA:585:G:H3'	34:BA:586:G:C5'	2.37	0.55
34:BA:1431:G:C2	34:BA:1432:C:C2	2.95	0.55
34:BA:979:G:C5	34:BA:981:A:C5	2.95	0.55
5:A4:143:ARG:HG2	5:A4:145:TRP:HE1	1.72	0.55
35:BB:397:C:H2'	35:BB:398:A:C8	2.41	0.55
9:A8:24:ILE:HB	9:A8:25:CYS:HG	1.72	0.55
35:BB:116:G:C2	35:BB:389:G:C5	2.95	0.55
85:AA:1423:C:H2'	85:AA:1424:G:C8	2.42	0.55
34:BA:1370:A:H2'	34:BA:1371:U:C4	2.42	0.55
34:BA:1453:U:H4'	34:BA:1454:G:OP1	2.07	0.54
34:BA:1474:G:C6	34:BA:1509:U:O4	2.59	0.54
34:BA:1617:U:OP2	34:BA:1617:U:C4	2.60	0.54
34:BA:1745:G:C2	34:BA:1746:G:C4	2.95	0.54
34:BA:1792:U:C4	34:BA:1793:G:C6	2.95	0.54
34:BA:182:U:H2'	34:BA:183:G:C8	2.43	0.54
34:BA:23:A:C4	34:BA:24:C:C6	2.95	0.54
34:BA:161:U:C2	34:BA:323:C:N1	2.76	0.54
34:BA:437:G:H5'	34:BA:438:A:N7	2.22	0.54
34:BA:846:U:OP1	42:BI:73:ARG:HG2	2.07	0.54
35:BB:1239:A:N1	35:BB:1240:A:C5	2.75	0.54
35:BB:1311:G:C5	35:BB:1312:U:C4	2.95	0.54
35:BB:1292:G:C2	35:BB:1313:C:C2	2.95	0.54
35:BB:20:U:C6	35:BB:21:C:C5	2.95	0.54
35:BB:65:A:C6	35:BB:66:G:C5	2.95	0.54
38:BE:26:G:C6	38:BE:27:A:C6	2.95	0.54
40:BG:40:G:C4	40:BG:41:U:C6	2.94	0.54
41:BH:41:A:N7	58:BY:55:TRP:CE2	2.74	0.54
49:BP:39:GLU:HG2	49:BP:74:LEU:HD22	1.88	0.54
85:AA:180:A:N3	85:AA:333:A:C5	2.75	0.54
85:AA:424:A:C2	85:AA:425:G:N7	2.76	0.54
85:AA:470:C:C4	85:AA:471:U:C5	2.94	0.54
85:AA:48:G:N2	85:AA:497:G:H1'	2.22	0.54
85:AA:4:C:C6	85:AA:4:C:O5'	2.60	0.54
85:AA:642:G:C6	85:AA:643:C:C4	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:93:G:C5	85:AA:94:C:C5	2.95	0.54
34:BA:615:A:C6	34:BA:616:G:C5	2.95	0.54
35:BB:801:G:C6	35:BB:802:G:C4	2.94	0.54
35:BB:817:C:N4	35:BB:823:G:C6	2.75	0.54
35:BB:868:C:H2'	35:BB:869:G:O4'	2.07	0.54
30:AW:30:ASN:ND2	85:AA:1207:C:H5'	2.22	0.54
35:BB:1166:A:C3'	35:BB:1167:C:H4'	2.37	0.54
85:AA:944:C:H3'	85:AA:945:A:H5"	1.89	0.54
34:BA:195:G:N1	34:BA:289:A:C2	2.75	0.54
85:AA:1964:A:C6	85:AA:1973:G:C2	2.95	0.54
22:AO:39:PHE:HB2	22:AO:71:TYR:CE1	2.42	0.54
35:BB:1405:G:H2'	35:BB:1406:C:C6	2.42	0.54
85:AA:589:A:H5'	85:AA:590:U:C5	2.42	0.54
85:AA:249:C:H2'	85:AA:250:C:C5	2.41	0.54
41:BH:10:U:N3	41:BH:20:A:C2	2.75	0.54
41:BH:23:G:H3'	41:BH:24:U:H5"	1.87	0.54
85:AA:1707:G:H4'	85:AA:1853:U:H3	1.72	0.54
85:AA:1618:G:C5	85:AA:1619:A:C6	2.95	0.54
34:BA:3:G:N2	34:BA:4:A:C4	2.75	0.54
85:AA:792:A:C5	85:AA:800:A:C4	2.95	0.54
34:BA:1092:U:H2'	34:BA:1093:G:C8	2.42	0.54
34:BA:1447:C:OP2	49:BP:47:TRP:HB2	2.07	0.54
85:AA:817:G:O2'	85:AA:818:C:C5	2.58	0.54
34:BA:530:A:H2	34:BA:531:C:C6	2.25	0.54
85:AA:1857:G:C4	85:AA:1858:G:C8	2.96	0.54
35:BB:1070:G:C6	35:BB:1071:G:C5	2.95	0.54
85:AA:1303:U:C4	85:AA:1305:A:C2	2.94	0.54
54:BU:79:PRO:HA	54:BU:84:THR:HA	1.89	0.54
85:AA:1356:U:C4	85:AA:1357:U:C2	2.95	0.54
34:BA:1076:U:C2	34:BA:1077:G:C8	2.95	0.54
7:A6:94:TYR:CZ	7:A6:98:LEU:HA	2.42	0.54
34:BA:1103:G:H2'	34:BA:1104:C:C6	2.41	0.54
34:BA:1262:A:H4'	34:BA:1313:U:C4	2.42	0.54
34:BA:1496:G:C5'	34:BA:1497:A:C8	2.90	0.54
34:BA:1044:A:C4	34:BA:1525:G:C2	2.95	0.54
34:BA:1600:G:H2'	34:BA:1601:C:C6	2.43	0.54
34:BA:1648:G:C6	35:BB:42:A:N9	2.76	0.54
34:BA:1708:A:C5	34:BA:1709:A:H1'	2.42	0.54
34:BA:189:G:O5'	34:BA:189:G:C8	2.60	0.54
34:BA:221:G:C6	34:BA:222:C:C4	2.95	0.54
34:BA:23:A:N1	34:BA:24:C:C2	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:39:C:C5	34:BA:39:C:OP2	2.59	0.54
34:BA:402:G:N1	34:BA:404:C:C4	2.75	0.54
34:BA:591:G:H4'	34:BA:592:G:H5'	1.90	0.54
34:BA:804:G:H2'	34:BA:805:A:O4'	2.07	0.54
35:BB:1049:G:N1	35:BB:1050:A:C5	2.75	0.54
35:BB:1079:G:C2	35:BB:1080:U:C2	2.96	0.54
35:BB:1120:A:H4'	45:BL:110:GLY:C	2.28	0.54
35:BB:1230:A:C2	47:BN:205:ARG:HD2	2.42	0.54
35:BB:1311:G:C5	35:BB:1312:U:C5	2.96	0.54
35:BB:59:U:C3'	35:BB:60:A:H5"	2.32	0.54
35:BB:776:U:C2	35:BB:777:C:C2	2.94	0.54
36:BC:44:A:C5	36:BC:45:C:C5	2.95	0.54
38:BE:123:A:N1	38:BE:124:G:C2	2.76	0.54
38:BE:194:A:H3'	38:BE:195:G:H8	1.72	0.54
40:BG:38:A:C2	40:BG:165:C:N3	2.76	0.54
40:BG:15:G:C6	40:BG:16:G:C5	2.95	0.54
40:BG:78:C:C6	40:BG:78:C:O5'	2.60	0.54
40:BG:80:G:C2	40:BG:81:G:C4	2.95	0.54
41:BH:98:U:OP2	55:BV:63:LYS:HB3	1.80	0.54
85:AA:466:A:N3	85:AA:469:G:N7	2.54	0.54
85:AA:597:A:N6	85:AA:598:C:C4	2.75	0.54
32:AY:14:VAL:HG13	85:AA:658:C:H4'	1.88	0.54
85:AA:662:U:C4	85:AA:663:C:C5	2.95	0.54
85:AA:698:G:C2	85:AA:699:U:C6	2.94	0.54
34:BA:630:U:H3'	34:BA:631:G:C8	2.41	0.54
34:BA:670:U:C4	34:BA:671:C:C5	2.95	0.54
85:AA:1122:U:H6	85:AA:1122:U:O5'	1.90	0.54
85:AA:1185:G:C5	85:AA:1186:C:C5	2.95	0.54
85:AA:1130:G:C2	85:AA:1197:U:C2	2.95	0.54
85:AA:932:A:C5	85:AA:933:U:O4	2.60	0.54
85:AA:940:G:H5'	85:AA:941:C:C4	2.43	0.54
85:AA:1547:G:C6	85:AA:2041:G:C5	2.95	0.54
85:AA:2042:G:H2'	85:AA:2043:A:C8	2.41	0.54
40:BG:139:U:O4	40:BG:148:C:H4'	2.06	0.54
34:BA:1489:U:OP2	34:BA:1490:U:C4	2.60	0.54
85:AA:11:A:C4	85:AA:12:U:C6	2.95	0.54
18:AJ:12:ARG:HH21	85:AA:1472:G:H3'	1.72	0.54
23:AP:97:GLN:HA	23:AP:105:ARG:O	2.07	0.54
85:AA:2059:A:H1'	85:AA:2072:G:N2	2.23	0.54
85:AA:786:G:C8	85:AA:787:U:C5	2.95	0.54
85:AA:910:G:N2	85:AA:911:A:C6	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:410:A:C5	85:AA:411:U:C5	2.95	0.54
35:BB:1416:A:C2	35:BB:1417:C:C5	2.95	0.54
34:BA:589:A:N3	34:BA:590:U:C5	2.75	0.54
34:BA:206:C:C2	34:BA:228:A:C2	2.95	0.54
85:AA:1859:C:H3'	85:AA:1860:A:C8	2.42	0.54
35:BB:1488:G:N1	35:BB:1489:A:C8	2.76	0.54
85:AA:1168:C:H2'	85:AA:1169:A:C8	2.42	0.54
35:BB:863:U:C4	35:BB:864:U:H1'	2.42	0.54
40:BG:142:A:H3'	40:BG:143:C:H6	1.71	0.54
47:BN:51:ILE:HG22	47:BN:51:ILE:O	2.06	0.54
85:AA:2154:C:C4	85:AA:2155:U:C5	2.95	0.54
34:BA:1082:U:H4'	34:BA:1083:A:H5'	1.88	0.54
34:BA:117:C:H2'	34:BA:118:C:C6	2.43	0.54
34:BA:1261:G:C2	34:BA:1269:C:C2	2.95	0.54
34:BA:1293:A:C6	34:BA:1295:U:N3	2.75	0.54
34:BA:1781:A:C6	34:BA:1782:C:C4	2.96	0.54
34:BA:365:A:C5	34:BA:377:G:C6	2.95	0.54
34:BA:373:G:C2	35:BB:1238:A:C4	2.96	0.54
34:BA:480:G:H2'	34:BA:481:A:C8	2.42	0.54
34:BA:60:A:C2	34:BA:61:G:C4	2.95	0.54
34:BA:765:U:C4	34:BA:768:G:O6	2.59	0.54
34:BA:785:G:H2'	34:BA:786:U:C6	2.42	0.54
34:BA:801:U:H2'	34:BA:802:G:O4'	2.07	0.54
35:BB:1110:G:C2	35:BB:1155:U:C2	2.96	0.54
35:BB:1215:U:H6	35:BB:1215:U:O5'	1.90	0.54
35:BB:1291:G:C5	35:BB:1314:G:C6	2.95	0.54
35:BB:782:A:H2'	35:BB:783:U:O4'	2.07	0.54
37:BD:61:C:H2'	37:BD:62:A:C8	2.42	0.54
38:BE:97:G:N2	38:BE:98:C:C2	2.76	0.54
40:BG:171:A:N3	40:BG:171:A:H2'	2.22	0.54
41:BH:105:U:H2'	41:BH:106:G:C8	2.42	0.54
42:BI:32:LEU:HG	42:BI:33:TYR:N	2.22	0.54
58:BY:49:ASN:HD21	58:BY:51:ARG:HB2	1.73	0.54
85:AA:1269:A:C5	85:AA:1270:C:C6	2.96	0.54
85:AA:167:A:H2'	85:AA:168:A:C8	2.42	0.54
27:AT:111:ARG:NH1	85:AA:507:C:C5	2.76	0.54
85:AA:51:A:C2'	85:AA:52:U:H5'	2.37	0.54
85:AA:699:U:C2	85:AA:700:U:C5	2.95	0.54
85:AA:963:U:H4'	85:AA:964:C:C6	2.42	0.54
85:AA:1206:A:C5	85:AA:1207:C:N4	2.75	0.54
35:BB:1197:G:C6	35:BB:1198:C:C4	2.94	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1196:C:N3	85:AA:1197:U:C5	2.75	0.54
85:AA:1583:U:H2'	85:AA:1584:U:C5	2.41	0.54
21:AM:29:PHE:HA	21:AM:32:ARG:HB2	1.88	0.54
34:BA:191:G:C2	34:BA:192:G:C4	2.94	0.54
34:BA:192:G:N2	34:BA:292:C:C2	2.75	0.54
34:BA:262:A:N3	34:BA:279:U:C4	2.76	0.54
34:BA:262:A:H2	34:BA:279:U:H5	1.55	0.54
35:BB:1404:A:H2'	35:BB:1440:A:N6	2.22	0.54
35:BB:1524:G:C2	35:BB:1525:G:C4	2.95	0.54
85:AA:1670:U:C2	85:AA:1671:G:C8	2.96	0.54
85:AA:2215:C:H3'	85:AA:2218:G:N7	2.22	0.54
32:AY:47:LYS:CG	85:AA:556:C:H1'	2.37	0.54
85:AA:1542:A:H2'	85:AA:1543:C:C6	2.42	0.54
85:AA:777:U:H5	85:AA:778:C:C4	2.25	0.54
85:AA:777:U:H6	85:AA:778:C:C6	2.25	0.54
85:AA:888:A:H3'	85:AA:889:G:C8	2.41	0.54
35:BB:1008:U:C4	35:BB:1009:U:C2	2.95	0.54
85:AA:65:A:H3'	85:AA:66:U:C5	2.42	0.54
85:AA:75:U:H6	85:AA:75:U:O5'	1.90	0.54
34:BA:1447:C:C2	49:BP:47:TRP:CZ3	2.95	0.54
34:BA:1213:A:C6	34:BA:1214:U:C4	2.96	0.54
34:BA:895:U:H2'	34:BA:896:U:H5'	1.89	0.54
35:BB:632:U:C2	35:BB:633:C:C6	2.95	0.54
85:AA:1732:G:H22	85:AA:1797:U:H1'	1.72	0.54
21:AM:88:GLN:HA	21:AM:96:THR:HA	1.89	0.54
85:AA:1111:A:C5	85:AA:1212:C:C4	2.94	0.54
5:A4:58:ARG:HE	5:A4:173:LEU:CD2	2.20	0.54
34:BA:1003:A:C2	34:BA:1004:U:C5	2.96	0.54
85:AA:1021:G:H3'	85:AA:1022:G:C5'	2.37	0.54
35:BB:552:C:H2'	35:BB:553:U:C5	2.42	0.54
34:BA:113:G:C2	34:BA:329:G:N1	2.75	0.54
34:BA:1176:C:H2'	34:BA:1177:C:C6	2.42	0.54
34:BA:1226:G:C6	34:BA:1227:U:C4	2.96	0.54
34:BA:1597:G:N3	35:BB:622:G:C6	2.76	0.54
34:BA:1699:A:N1	34:BA:1808:A:C2	2.75	0.54
34:BA:451:A:C6	34:BA:452:A:C6	2.95	0.54
34:BA:706:C:H2'	34:BA:707:C:C6	2.42	0.54
34:BA:743:A:C6	34:BA:894:G:C2	2.96	0.54
34:BA:768:G:N3	34:BA:769:U:C5	2.75	0.54
34:BA:776:U:N3	34:BA:777:C:C4	2.75	0.54
34:BA:803:U:C5	34:BA:805:A:N1	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:804:G:C8	34:BA:805:A:C5	2.95	0.54
34:BA:862:C:C4	34:BA:875:G:C6	2.94	0.54
35:BB:1234:G:C6	35:BB:1243:A:C6	2.96	0.54
35:BB:1300:U:C5	35:BB:1301:U:C5	2.96	0.54
35:BB:1301:U:C5	35:BB:1302:C:C6	2.94	0.54
35:BB:1296:A:C6	35:BB:1309:A:C8	2.95	0.54
35:BB:1291:G:C4	35:BB:1314:G:C2	2.96	0.54
35:BB:783:U:H6	35:BB:783:U:O5'	1.90	0.54
35:BB:81:A:C2	35:BB:82:G:C4	2.95	0.54
36:BC:113:G:C4	36:BC:114:C:C5	2.96	0.54
38:BE:25:U:OP2	38:BE:25:U:C5	2.61	0.54
38:BE:7:U:H6	38:BE:7:U:O5'	1.90	0.54
38:BE:2:G:C4	38:BE:8:G:C4	2.95	0.54
40:BG:26:G:C5	40:BG:27:C:C5	2.96	0.54
41:BH:50:A:C6	41:BH:51:C:N3	2.75	0.54
47:BN:61:PRO:HD3	47:BN:79:GLY:O	2.08	0.54
21:AM:12:HIS:CB	21:AM:13:ILE:HG22	2.37	0.54
85:AA:1275:A:C4	85:AA:1279:A:N1	2.75	0.54
85:AA:1281:G:C4	85:AA:1282:A:N7	2.75	0.54
85:AA:179:G:H2'	85:AA:180:A:C6	2.42	0.54
85:AA:497:G:H2'	85:AA:498:C:C6	2.43	0.54
35:BB:1377:A:C6	35:BB:1378:U:C4	2.95	0.54
35:BB:855:G:C6	35:BB:856:U:C4	2.95	0.54
15:AG:101:HIS:CE1	85:AA:1200:A:H1'	2.42	0.54
85:AA:936:C:C2	85:AA:937:G:C6	2.95	0.54
35:BB:22:A:C4	35:BB:26:C:C5	2.95	0.54
27:AT:10:VAL:HG11	27:AT:37:TRP:CZ3	2.43	0.54
85:AA:1464:G:C5	85:AA:1465:C:C5	2.95	0.54
18:AJ:2:THR:HA	85:AA:1284:A:H4'	1.90	0.54
85:AA:549:A:C2	85:AA:550:G:C4	2.95	0.54
85:AA:572:G:C5	85:AA:573:U:C5	2.95	0.54
85:AA:616:A:C4	85:AA:617:C:H3'	2.42	0.54
85:AA:912:C:C5	85:AA:913:U:O4	2.61	0.54
85:AA:1159:C:C4	85:AA:1160:U:C4	2.95	0.54
85:AA:71:G:H2'	85:AA:72:C:H6	1.71	0.54
85:AA:813:G:C2	85:AA:865:G:C4	2.95	0.54
39:BF:36:G:C4	39:BF:48:G:C2	2.95	0.54
39:BF:50:C:H2'	39:BF:51:C:C6	2.42	0.54
34:BA:1140:A:C6	34:BA:1141:C:C2	2.95	0.54
35:BB:503:G:H4'	86:AB:71:G:H5'	1.88	0.54
85:AA:831:C:C6	85:AA:831:C:H3'	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1595:G:C4	85:AA:1883:C:C4	2.95	0.54
35:BB:863:U:H2'	35:BB:864:U:H5'	1.90	0.54
22:AO:58:HIS:N	22:AO:58:HIS:CD2	2.74	0.54
35:BB:1391:G:C5	35:BB:1392:A:C6	2.95	0.54
47:BN:101:ARG:HG2	47:BN:102:VAL:H	1.72	0.54
34:BA:997:U:H2'	34:BA:998:U:C6	2.42	0.54
57:BX:107:ILE:HG23	57:BX:141:LEU:HB2	1.87	0.54
49:BP:94:ARG:HA	49:BP:97:ARG:HE	1.72	0.54
35:BB:274:U:H2'	35:BB:275:A:C8	2.43	0.54
34:BA:1006:G:C2	34:BA:1025:A:C8	2.96	0.54
34:BA:1066:A:C6	34:BA:1067:G:C6	2.95	0.54
34:BA:1069:U:C6	34:BA:1225:A:N6	2.76	0.54
34:BA:1543:A:C2	34:BA:1544:G:H1'	2.43	0.54
34:BA:1551:G:C4	34:BA:1552:C:C5	2.96	0.54
34:BA:161:U:C1'	34:BA:165:C:C5	2.91	0.54
34:BA:1640:G:C2	34:BA:1641:G:C4	2.96	0.54
34:BA:1804:A:C5	34:BA:1807:G:C6	2.95	0.54
34:BA:1816:G:N1	34:BA:1818:A:C2	2.76	0.54
34:BA:1813:C:C2	34:BA:1834:A:C2	2.95	0.54
34:BA:383:G:H2'	34:BA:383:G:N3	2.23	0.54
34:BA:427:G:C2	34:BA:428:C:C2	2.95	0.54
34:BA:738:C:O5'	34:BA:738:C:C6	2.60	0.54
34:BA:744:G:C8	47:BN:6:ASN:C	2.81	0.54
34:BA:747:G:C4	34:BA:748:C:C6	2.96	0.54
34:BA:917:C:H2'	34:BA:917:C:O2	2.08	0.54
34:BA:994:G:C6	34:BA:996:U:C4	2.96	0.54
35:BB:1312:U:C2	35:BB:1313:C:C5	2.95	0.54
35:BB:1461:C:C4	40:BG:1:G:N1	2.71	0.54
35:BB:1470:G:C2	35:BB:1471:A:H4'	2.42	0.54
35:BB:448:G:C5	35:BB:449:C:C5	2.95	0.54
35:BB:66:G:C6	35:BB:67:A:C6	2.96	0.54
35:BB:95:A:H2'	35:BB:96:A:C8	2.43	0.54
36:BC:44:A:C5	36:BC:45:C:C4	2.96	0.54
36:BC:92:C:C2	36:BC:93:C:C6	2.96	0.54
37:BD:25:G:C6	37:BD:26:C:C4	2.95	0.54
37:BD:60:C:H2'	37:BD:61:C:C6	2.42	0.54
38:BE:104:G:C6	38:BE:105:A:C6	2.95	0.54
40:BG:60:A:C6	40:BG:61:A:C4	2.95	0.54
40:BG:41:U:C2	40:BG:69:G:N1	2.76	0.54
41:BH:100:A:H3'	41:BH:101:A:H4'	1.90	0.54
41:BH:38:G:C6	41:BH:113:G:N1	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:46:ARG:HB3	58:BY:48:LYS:HE3	1.90	0.54
34:BA:540:G:N2	34:BA:568:G:C4	2.76	0.54
34:BA:538:G:H1'	34:BA:572:G:N2	2.22	0.54
85:AA:683:U:C4	85:AA:1485:G:C2	2.94	0.54
85:AA:437:G:N2	85:AA:687:G:H1	2.05	0.54
85:AA:513:G:C5	85:AA:514:U:C5	2.95	0.54
35:BB:1377:A:H2'	35:BB:1378:U:C6	2.42	0.54
35:BB:856:U:H3'	35:BB:856:U:C6	2.42	0.54
35:BB:976:U:O2'	35:BB:977:G:C4	2.59	0.54
85:AA:2028:G:C6	85:AA:2029:G:C5	2.95	0.54
34:BA:191:G:C4	34:BA:293:A:C2	2.95	0.54
34:BA:1208:U:O2	34:BA:1210:A:H5"	2.08	0.54
85:AA:1462:A:C2	85:AA:1463:A:C4	2.96	0.54
85:AA:2067:A:C6	85:AA:2069:A:C4	2.95	0.54
85:AA:2091:C:C2	85:AA:2092:A:C8	2.95	0.54
85:AA:783:C:H2'	85:AA:784:C:C6	2.43	0.54
35:BB:1063:C:H3'	35:BB:1064:U:C2	2.43	0.54
35:BB:1019:C:H2'	35:BB:1020:U:C6	2.43	0.54
85:AA:868:A:N3	85:AA:868:A:H2'	2.23	0.54
85:AA:757:A:C5	85:AA:758:C:C5	2.95	0.54
85:AA:1296:G:C2	85:AA:1297:G:C4	2.95	0.54
35:BB:1387:C:C2	35:BB:1388:A:C8	2.95	0.54
35:BB:436:G:O5'	35:BB:436:G:C8	2.61	0.54
34:BA:711:C:N3	34:BA:721:A:C8	2.76	0.54
85:AA:732:G:H3'	85:AA:733:C:H6	1.72	0.54
35:BB:735:A:C2	35:BB:755:A:C2	2.95	0.54
35:BB:709:G:C2	35:BB:773:G:C5	2.94	0.54
40:BG:116:G:C2	40:BG:117:C:H1'	2.43	0.54
34:BA:1219:G:C6	34:BA:1220:C:C4	2.95	0.54
35:BB:48:G:C6	35:BB:50:A:C4	2.96	0.54
49:BP:152:LYS:HA	49:BP:156:SER:HB2	1.89	0.54
85:AA:298:C:H1'	85:AA:299:A:C6	2.43	0.54
8:A7:77:ASN:HB2	8:A7:121:ASN:HD21	1.72	0.54
18:AJ:102:VAL:H	18:AJ:113:HIS:CE1	2.25	0.54
47:BN:145:GLU:HB2	47:BN:148:VAL:HB	1.89	0.54
34:BA:1153:C:N3	34:BA:1154:U:C4	2.76	0.54
34:BA:1634:A:C4	34:BA:1634:A:O5'	2.61	0.54
34:BA:183:G:C6	34:BA:184:C:C5	2.96	0.54
34:BA:744:G:N1	34:BA:745:A:C5	2.76	0.54
34:BA:756:A:C2	34:BA:757:G:C2	2.96	0.54
34:BA:756:A:H5"	34:BA:757:G:C5	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:771:A:H5"	34:BA:774:A:N6	2.22	0.54
34:BA:856:G:C5	34:BA:857:C:C6	2.95	0.54
35:BB:1099:U:C4	35:BB:1206:G:C2	2.95	0.54
35:BB:679:G:C5	35:BB:1269:A:C6	2.95	0.54
35:BB:1314:G:C5	35:BB:1315:C:C5	2.96	0.54
35:BB:782:A:C5	35:BB:783:U:C4	2.95	0.54
34:BA:13:U:C2	36:BC:154:A:N1	2.76	0.54
36:BC:90:U:C4	36:BC:91:G:N7	2.75	0.54
38:BE:64:A:C2	38:BE:141:A:C5	2.96	0.54
39:BF:5:U:H2'	39:BF:5:U:O2	2.08	0.54
40:BG:174:G:N2	40:BG:175:G:C8	2.76	0.54
41:BH:31:A:C5	41:BH:32:U:H5	2.25	0.54
47:BN:12:HIS:CD2	47:BN:12:HIS:N	2.69	0.54
85:AA:129:U:H2'	85:AA:130:G:C8	2.42	0.54
85:AA:63:G:C1'	85:AA:174:U:C5	2.91	0.54
85:AA:456:A:H1'	85:AA:2182:A:H4'	1.88	0.54
85:AA:23:G:C6	85:AA:677:U:C4	2.95	0.54
85:AA:500:C:C4	85:AA:501:A:N1	2.75	0.54
85:AA:506:G:C2	85:AA:507:C:C6	2.96	0.54
85:AA:671:G:C6	85:AA:672:U:C4	2.95	0.54
85:AA:684:G:C5	85:AA:688:C:H1'	2.43	0.54
35:BB:804:U:C2	35:BB:805:G:H1'	2.41	0.54
35:BB:831:C:H2'	35:BB:832:C:C6	2.42	0.54
35:BB:836:U:C2'	35:BB:837:A:C8	2.89	0.54
35:BB:839:G:C2	35:BB:978:C:H1'	2.43	0.54
57:BX:47:LYS:HB2	57:BX:49:TYR:CE1	2.42	0.54
85:AA:956:C:H3'	85:AA:957:A:C5'	2.37	0.54
85:AA:2004:U:H3'	85:AA:2005:U:C4'	2.38	0.54
34:BA:593:G:C2	34:BA:594:G:C5	2.95	0.54
85:AA:1288:A:N1	85:AA:1289:U:N3	2.55	0.54
85:AA:1627:U:C4	85:AA:1628:U:C4	2.95	0.54
85:AA:270:A:C8	85:AA:270:A:H3'	2.42	0.54
85:AA:579:U:H2'	85:AA:580:C:C6	2.41	0.54
85:AA:582:A:C2	85:AA:583:U:C1'	2.90	0.54
85:AA:1537:A:C5	85:AA:1538:C:C4	2.95	0.54
85:AA:362:G:C2	85:AA:363:A:C4	2.95	0.54
51:BR:112:MET:SD	51:BR:150:MET:HB2	2.48	0.54
35:BB:1018:U:C6	35:BB:1018:U:H3'	2.43	0.54
85:AA:74:U:H2'	85:AA:75:U:O4'	2.07	0.54
85:AA:820:G:C6	85:AA:862:U:O2	2.60	0.54
85:AA:813:G:C4	85:AA:865:G:C2	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:38:C:O5'	39:BF:38:C:H6	1.91	0.54
85:AA:757:A:C6	85:AA:758:C:C4	2.95	0.54
85:AA:342:C:C5	85:AA:343:U:N3	2.76	0.54
34:BA:1124:U:C6	34:BA:1124:U:C5'	2.91	0.54
85:AA:1000:U:O4	85:AA:1001:G:C6	2.60	0.54
85:AA:1445:C:H2'	85:AA:1446:U:C6	2.43	0.54
85:AA:1610:G:H1	85:AA:1629:C:H42	1.54	0.54
5:A4:178:TYR:CE2	5:A4:182:THR:HG21	2.43	0.54
35:BB:710:A:H2'	35:BB:711:C:C6	2.43	0.54
34:BA:1266:A:C5	34:BA:1267:A:C6	2.96	0.54
85:AA:1208:C:C6	85:AA:1208:C:O5'	2.61	0.54
27:AT:114:VAL:HA	27:AT:116:GLU:HG2	1.89	0.54
85:AA:413:G:C6	85:AA:414:C:C5	2.96	0.54
12:AD:68:TRP:HE1	31:AX:22:GLU:CB	2.20	0.54
4:A3:79:LYS:HA	4:A3:95:ARG:HB2	1.90	0.54
22:AO:110:THR:HG22	22:AO:111:ARG:H	1.72	0.54
16:AH:8:LYS:HA	16:AH:10:TYR:CZ	2.43	0.54
15:AG:136:PRO:HG2	15:AG:139:TRP:CD1	2.43	0.54
85:AA:1930:U:C2	85:AA:1931:C:C2	2.96	0.54
85:AA:1942:U:H3	85:AA:1947:A:H61	1.55	0.54
34:BA:1049:G:O5'	34:BA:1049:G:C8	2.61	0.54
34:BA:1178:U:C2	34:BA:1179:U:C5	2.95	0.54
34:BA:1190:A:H2'	34:BA:1191:C:O4'	2.07	0.54
34:BA:125:G:C4	34:BA:126:G:C8	2.96	0.54
34:BA:1531:G:H1	34:BA:1575:U:H3	1.54	0.54
34:BA:1549:U:H2'	34:BA:1550:G:C8	2.43	0.54
34:BA:1635:A:H2'	34:BA:1636:C:C6	2.43	0.54
34:BA:1637:G:C4	34:BA:1638:U:C6	2.96	0.54
34:BA:1739:G:N1	34:BA:1740:U:C6	2.76	0.54
34:BA:170:U:C2	34:BA:319:C:N3	2.75	0.54
34:BA:472:G:H1'	36:BC:15:G:H22	1.72	0.54
34:BA:701:G:C2	34:BA:702:G:C8	2.96	0.54
34:BA:739:A:O2'	47:BN:12:HIS:CD2	2.61	0.54
35:BB:1110:G:H2'	35:BB:1111:C:C6	2.42	0.54
35:BB:126:C:H2'	35:BB:127:U:C6	2.43	0.54
35:BB:370:A:H2'	35:BB:371:C:C5	2.42	0.54
35:BB:483:C:C4	35:BB:484:G:C8	2.96	0.54
36:BC:44:A:C2	36:BC:100:U:C2	2.95	0.54
38:BE:25:U:H3	38:BE:195:G:H1	1.55	0.54
38:BE:23:G:C2	38:BE:197:A:C4	2.96	0.54
40:BG:102:G:C6	40:BG:103:C:C5	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:483:A:C5	40:BG:16:G:H4'	2.42	0.54
40:BG:23:C:C6	40:BG:23:C:OP2	2.61	0.54
40:BG:44:G:C6	40:BG:45:G:C5	2.96	0.54
50:BQ:215:MET:HB2	50:BQ:217:PHE:CZ	2.43	0.54
34:BA:541:C:H2'	34:BA:542:A:C8	2.42	0.54
85:AA:1188:A:C6	85:AA:1189:A:C6	2.95	0.54
85:AA:178:U:C6	85:AA:179:G:H4'	2.42	0.54
85:AA:160:A:N6	85:AA:483:G:C6	2.76	0.54
85:AA:491:G:H2'	85:AA:492:C:C6	2.43	0.54
85:AA:533:C:H5'	85:AA:533:C:H6	1.73	0.54
85:AA:634:U:H2'	85:AA:635:G:C8	2.42	0.54
85:AA:686:U:N3	85:AA:687:G:C6	2.76	0.54
32:AY:13:LYS:HB3	85:AA:641:A:H4'	1.90	0.54
35:BB:798:A:H2'	35:BB:799:A:C8	2.43	0.54
35:BB:812:G:C4	35:BB:828:G:C2	2.96	0.54
35:BB:843:G:N1	35:BB:844:G:C5	2.76	0.54
85:AA:2236:U:H6	85:AA:2236:U:H3'	1.73	0.54
34:BA:1294:C:H3'	52:BS:159:LYS:HE3	1.89	0.54
85:AA:1539:A:H2'	85:AA:1540:A:C8	2.43	0.54
85:AA:2051:G:H1'	85:AA:2052:U:C5	2.42	0.54
19:AK:141:ARG:CG	85:AA:2053:A:H5"	2.38	0.54
85:AA:725:G:C8	85:AA:777:U:C4	2.96	0.54
85:AA:793:C:N3	85:AA:801:U:C5	2.76	0.54
35:BB:1063:C:H3'	35:BB:1064:U:O2	2.08	0.54
85:AA:908:C:C2	85:AA:910:G:N2	2.76	0.54
34:BA:1341:A:C5	34:BA:1342:C:C5	2.96	0.54
6:A5:31:ARG:CZ	85:AA:398:U:H5"	2.38	0.54
35:BB:1013:U:C2	35:BB:1014:U:C6	2.96	0.54
35:BB:1001:G:C2	35:BB:1018:U:C2	2.95	0.54
85:AA:1259:U:C5	85:AA:1260:G:C5	2.96	0.54
35:BB:863:U:C5	35:BB:864:U:C6	2.95	0.54
85:AA:414:C:O5'	85:AA:414:C:C6	2.60	0.54
54:BU:105:PHE:HA	54:BU:108:LYS:CE	2.36	0.54
55:BV:26:PHE:CE2	55:BV:117:TYR:CE2	2.96	0.54
85:AA:198:U:H2'	85:AA:199:U:C5	2.42	0.54
17:AI:62:VAL:HA	17:AI:65:LYS:HE2	1.90	0.54
52:BS:16:THR:HG23	52:BS:57:HIS:CE1	2.42	0.54
85:AA:2156:C:C2	85:AA:2163:G:C2	2.95	0.54
34:BA:147:U:C6	34:BA:148:G:N7	2.76	0.54
34:BA:1597:G:C4	35:BB:622:G:C6	2.96	0.54
34:BA:159:U:C5	34:BA:161:U:O4	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1633:C:H5”	34:BA:1635:A:P	2.48	0.54
34:BA:1677:C:C2	34:BA:1679:C:C2	2.96	0.54
34:BA:1699:A:C5	34:BA:1700:C:C5	2.95	0.54
34:BA:440:A:C2	34:BA:441:A:C6	2.96	0.54
34:BA:694:G:H1’	34:BA:695:A:C5	2.43	0.54
34:BA:734:G:C6	34:BA:1582:C:C2	2.96	0.54
35:BB:1085:C:H3’	35:BB:1086:G:H8	1.73	0.54
35:BB:1133:C:H2’	35:BB:1134:G:C8	2.43	0.54
35:BB:1300:U:OP1	35:BB:1302:C:C4	2.61	0.54
35:BB:1342:C:H2’	35:BB:1343:C:C5	2.43	0.54
35:BB:380:G:C2	35:BB:381:C:C2	2.96	0.54
35:BB:413:A:C2	35:BB:414:C:C6	2.96	0.54
36:BC:108:A:C4	36:BC:113:G:C6	2.96	0.54
36:BC:11:G:H5”	51:BR:3:HIS:HB3	1.88	0.54
37:BD:11:A:C2	37:BD:14:C:C2	2.96	0.54
37:BD:2:G:C4	37:BD:3:G:C8	2.96	0.54
37:BD:71:G:H2’	37:BD:72:U:H6	1.72	0.54
35:BB:384:A:C8	40:BG:110:U:O4’	2.60	0.54
40:BG:130:G:C2	40:BG:161:C:N3	2.76	0.54
37:BD:63:C:H3’	44:BK:206:ILE:H	1.72	0.54
51:BR:4:TYR:CZ	51:BR:18:LYS:HB2	2.43	0.54
34:BA:1640:G:H5’	53:BT:24:LEU:O	2.08	0.54
35:BB:125:G:OP1	53:BT:75:HIS:CE1	2.61	0.54
85:AA:1227:A:C5	85:AA:1228:A:C4	2.95	0.54
85:AA:330:C:H5’	85:AA:331:G:C8	2.41	0.54
85:AA:689:U:H5’	85:AA:690:G:OP2	2.08	0.54
34:BA:610:A:C2	34:BA:611:A:C4	2.95	0.54
34:BA:945:A:C5	85:AA:702:G:H4’	2.42	0.54
85:AA:936:C:H2’	85:AA:937:G:C5	2.43	0.54
34:BA:265:A:C2	34:BA:277:A:N1	2.75	0.54
34:BA:593:G:N3	34:BA:594:G:H2’	2.23	0.54
35:BB:136:A:N1	35:BB:137:A:C5	2.76	0.54
85:AA:1527:G:C4	85:AA:2219:G:C5	2.96	0.54
85:AA:1621:U:C5	85:AA:1623:U:C6	2.95	0.54
85:AA:1219:A:C6	85:AA:1220:A:H1’	2.43	0.54
85:AA:966:G:H2’	85:AA:967:C:C6	2.43	0.54
85:AA:985:G:C6	85:AA:986:U:N3	2.76	0.54
85:AA:2049:U:H1’	85:AA:2081:A:C6	2.43	0.54
5:A4:183:HIS:CE1	85:AA:786:G:C4	2.96	0.54
85:AA:887:A:C2	85:AA:889:G:C8	2.96	0.54
85:AA:395:G:N1	85:AA:406:U:C4	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:520:A:H5”	85:AA:521:A:C2’	2.37	0.54
35:BB:1004:A:C8	35:BB:1004:A:O5’	2.61	0.54
35:BB:1020:U:H2’	35:BB:1021:C:C6	2.42	0.54
39:BF:46:G:C6	39:BF:47:C:C4	2.96	0.54
34:BA:1087:A:C2	34:BA:1213:A:C2	2.96	0.54
85:AA:1002:G:C6	85:AA:1003:G:C5	2.96	0.54
86:AB:69:G:C5	86:AB:70:G:C6	2.96	0.54
85:AA:202:U:C5	85:AA:203:C:H3’	2.43	0.54
35:BB:1489:A:C8	49:BP:158:PRO:HD3	2.43	0.54
34:BA:1015:G:C6	34:BA:1023:G:C4	2.95	0.54
11:AC:120:GLN:HA	11:AC:123:ILE:HG12	1.90	0.54
42:BI:114:LYS:CG	42:BI:115:SER:H	2.21	0.54
35:BB:709:G:C6	35:BB:773:G:C6	2.96	0.54
21:AM:45:VAL:HG22	21:AM:80:ILE:HG21	1.89	0.54
34:BA:1221:A:H2’	34:BA:1222:C:C5	2.43	0.54
34:BA:1274:A:N1	34:BA:1275:G:C5	2.76	0.54
34:BA:1322:A:C6	34:BA:1323:G:H1’	2.43	0.54
34:BA:136:A:H2’	34:BA:137:C:C6	2.43	0.54
34:BA:1433:U:O5’	34:BA:1433:U:H6	1.91	0.54
34:BA:1503:U:C6	34:BA:1503:U:H3’	2.43	0.54
34:BA:217:C:H1’	34:BA:219:U:C4	2.42	0.54
34:BA:74:A:H2’	34:BA:75:U:O4’	2.08	0.54
34:BA:774:A:C6	34:BA:775:C:N3	2.76	0.54
34:BA:819:G:C2	34:BA:852:C:C2	2.96	0.54
35:BB:1078:U:C4	35:BB:1095:G:C6	2.96	0.54
35:BB:1236:A:C5	35:BB:1237:C:C5	2.95	0.54
35:BB:392:G:C6	35:BB:393:A:C5	2.95	0.54
35:BB:426:A:C5	35:BB:428:G:C6	2.95	0.54
37:BD:13:A:C8	37:BD:110:G:H1’	2.42	0.54
38:BE:186:C:C6	38:BE:189:A:C5	2.95	0.54
39:BF:64:U:C2	49:BP:119:SER:OG	2.61	0.54
40:BG:28:A:C2	40:BG:29:U:C2	2.96	0.54
41:BH:123:G:C5	41:BH:124:C:C6	2.96	0.54
44:BK:171:TRP:HB3	44:BK:174:THR:HG23	1.89	0.54
53:BT:98:ARG:O	53:BT:102:LEU:HG	2.08	0.54
85:AA:1190:G:O2’	85:AA:1226:A:H5’	2.08	0.54
85:AA:152:A:N7	85:AA:153:C:C5	2.76	0.54
85:AA:2130:G:C6	85:AA:2131:C:C5	2.96	0.54
85:AA:477:U:H2’	85:AA:478:U:C5	2.42	0.54
85:AA:493:A:C6	85:AA:494:G:C4	2.96	0.54
35:BB:837:A:C5’	35:BB:1026:G:C6	2.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1027:U:C4	35:BB:1028:C:C4	2.96	0.54
35:BB:815:G:N1	35:BB:816:U:C2	2.75	0.54
35:BB:1163:U:C5	35:BB:1164:U:C5	2.96	0.54
85:AA:1106:A:C2'	85:AA:1107:A:O5'	2.55	0.54
85:AA:1984:A:C2	85:AA:1985:C:C6	2.96	0.54
35:BB:1286:G:C6	35:BB:1287:U:C2	2.96	0.54
27:AT:67:PHE:CZ	27:AT:69:THR:HG22	2.43	0.54
35:BB:138:A:H2'	35:BB:362:A:H61	1.72	0.54
85:AA:1665:G:N1	85:AA:1705:G:C4	2.76	0.54
2:A1:128:THR:HG21	85:AA:317:A:H2	1.73	0.54
85:AA:2147:A:C5	85:AA:2148:C:C5	2.96	0.54
85:AA:546:U:C5	85:AA:546:U:OP1	2.60	0.54
85:AA:432:A:C2	85:AA:433:U:C2	2.96	0.54
35:BB:1004:A:C2	35:BB:1005:A:C5	2.96	0.54
85:AA:1242:A:C6	85:AA:1243:G:C4	2.96	0.54
85:AA:808:A:H2'	85:AA:809:A:H5"	1.89	0.54
34:BA:532:C:H2'	34:BA:533:U:H5'	1.90	0.54
34:BA:530:A:C6	34:BA:582:U:N3	2.76	0.54
86:AB:10:G:C8	86:AB:26:A:C2	2.96	0.54
35:BB:441:G:C4	35:BB:442:U:C5	2.95	0.54
35:BB:646:U:C2	35:BB:647:U:C5	2.96	0.54
34:BA:1595:G:C4	34:BA:1596:C:C4	2.96	0.54
85:AA:1644:G:C6	85:AA:1645:G:C5	2.96	0.54
85:AA:1551:G:H2'	85:AA:1552:U:C6	2.43	0.54
40:BG:116:G:C4	40:BG:117:C:C6	2.96	0.54
15:AG:25:TRP:CH2	15:AG:26:LEU:HB3	2.42	0.54
16:AH:7:VAL:HG22	16:AH:9:TYR:H	1.73	0.54
58:BY:79:THR:HG21	85:AA:2163:G:H5"	1.84	0.54
34:BA:1175:G:C2	34:BA:1176:C:C2	2.96	0.54
34:BA:1473:A:C2	34:BA:1510:C:C2	2.96	0.54
34:BA:1484:A:C2	34:BA:1485:U:C6	2.96	0.54
34:BA:403:A:C4	34:BA:1531:G:H1'	2.43	0.54
34:BA:1566:G:H2'	34:BA:1567:G:C4	2.42	0.54
34:BA:1699:A:C6	34:BA:1700:C:C6	2.96	0.54
34:BA:111:U:O4	34:BA:382:G:C6	2.61	0.54
34:BA:417:A:C5	34:BA:419:U:C4	2.95	0.54
34:BA:759:A:C2	34:BA:760:G:C5	2.96	0.54
34:BA:819:G:C6	34:BA:820:C:C6	2.96	0.54
34:BA:823:G:N1	34:BA:824:C:C2	2.75	0.54
34:BA:919:A:C5	34:BA:920:U:C5	2.95	0.54
34:BA:941:G:N2	34:BA:942:G:H1'	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1042:U:H3'	35:BB:1043:C:H4'	1.88	0.54
35:BB:388:C:C6	35:BB:388:C:H5"	2.43	0.54
35:BB:681:G:C5	35:BB:682:U:C5	2.96	0.54
36:BC:126:G:C6	36:BC:127:C:C4	2.96	0.54
36:BC:66:G:C4	36:BC:67:U:C6	2.96	0.54
38:BE:121:G:C4	38:BE:122:G:C8	2.96	0.54
34:BA:483:A:N7	40:BG:16:G:H4'	2.23	0.54
40:BG:64:C:C4	40:BG:65:C:C4	2.96	0.54
41:BH:63:G:C8	41:BH:63:G:C5'	2.91	0.54
34:BA:63:A:C2	47:BN:105:ARG:CZ	2.90	0.54
85:AA:28:A:C6	85:AA:29:U:C4	2.95	0.54
85:AA:648:G:C6	85:AA:649:C:C5	2.95	0.54
85:AA:1114:A:C6	85:AA:1214:C:C4	2.96	0.54
85:AA:705:G:C5	85:AA:706:U:C4	2.95	0.54
34:BA:196:A:C6	34:BA:197:A:C5	2.96	0.54
34:BA:260:A:N1	34:BA:263:G:C6	2.76	0.54
34:BA:520:G:C4	34:BA:521:C:H1'	2.42	0.54
34:BA:1250:C:H2'	34:BA:1251:A:C8	2.43	0.54
35:BB:660:G:O6	35:BB:1440:A:H2'	2.08	0.54
35:BB:1521:G:H2'	35:BB:1522:G:C8	2.42	0.54
85:AA:10:G:C2	85:AA:11:A:C4	2.95	0.54
85:AA:1700:C:C4	85:AA:1701:G:C5	2.95	0.54
85:AA:965:G:C6	85:AA:989:U:H5"	2.43	0.54
34:BA:780:U:C4	34:BA:781:U:O2'	2.60	0.54
35:BB:999:G:C2	35:BB:1020:U:C2	2.96	0.54
34:BA:623:U:O2	34:BA:623:U:H2'	2.07	0.54
34:BA:1040:G:C6	34:BA:1041:U:N3	2.76	0.54
39:BF:36:G:C6	39:BF:37:C:C4	2.96	0.54
39:BF:42:G:C6	39:BF:44:C:C4	2.96	0.54
34:BA:532:C:C6	34:BA:532:C:OP2	2.61	0.54
34:BA:530:A:N3	34:BA:582:U:C2	2.76	0.54
34:BA:1122:G:N1	34:BA:1139:G:H1'	2.22	0.54
35:BB:504:C:H2'	35:BB:505:G:C8	2.43	0.54
34:BA:990:G:C6	34:BA:991:U:C4	2.96	0.54
34:BA:688:G:C6	34:BA:689:C:C5	2.96	0.54
35:BB:1480:G:N2	35:BB:1480:G:H2'	2.23	0.54
35:BB:1484:A:C8	35:BB:1485:G:C8	2.96	0.54
35:BB:1177:U:O4	35:BB:1178:A:C4	2.61	0.54
1:A0:195:LEU:O	1:A0:199:LEU:HD12	2.08	0.54
85:AA:1725:G:C8	85:AA:1982:C:H2'	2.43	0.54
34:BA:550:U:H3	34:BA:555:C:N4	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1011:G:C2	34:BA:1013:A:C2	2.96	0.53
34:BA:1272:U:H2'	34:BA:1273:U:C5	2.43	0.53
34:BA:1474:G:N1	34:BA:1475:G:C4	2.77	0.53
34:BA:1473:A:C6	34:BA:1510:C:C4	2.95	0.53
34:BA:240:C:C4	34:BA:241:U:C4	2.96	0.53
34:BA:501:U:C3'	34:BA:502:U:H5'	2.38	0.53
34:BA:801:U:C4	34:BA:802:G:C5	2.96	0.53
35:BB:1144:A:C2	35:BB:1145:G:C4	2.96	0.53
35:BB:131:A:C6	35:BB:132:G:C4	2.96	0.53
35:BB:1536:G:C8	35:BB:1536:G:H5"	2.41	0.53
35:BB:596:C:H2'	35:BB:597:C:C6	2.42	0.53
35:BB:986:C:H4'	35:BB:987:U:H5'	1.90	0.53
34:BA:1841:A:C2	35:BB:9:G:C2	2.97	0.53
36:BC:53:A:C6	36:BC:54:G:C4	2.96	0.53
37:BD:49:A:H5"	37:BD:49:A:C8	2.43	0.53
38:BE:111:C:H5"	38:BE:112:G:OP2	2.09	0.53
38:BE:180:G:OP2	38:BE:180:G:C8	2.61	0.53
38:BE:23:G:C2	38:BE:197:A:C2	2.96	0.53
39:BF:61:A:H5"	39:BF:62:U:C5	2.43	0.53
40:BG:26:G:C6	40:BG:27:C:N3	2.76	0.53
41:BH:75:G:C2	41:BH:100:A:C6	2.96	0.53
44:BK:178:ARG:O	44:BK:181:TYR:HB3	2.08	0.53
47:BN:184:LYS:HG2	47:BN:186:MET:SD	2.48	0.53
48:BO:145:HIS:NE2	52:BS:177:VAL:HA	2.23	0.53
58:BY:16:GLY:C	58:BY:17:HIS:CD2	2.82	0.53
58:BY:98:ARG:NH2	85:AA:2161:C:P	2.78	0.53
4:A3:54:ARG:HD3	4:A3:54:ARG:O	2.07	0.53
85:AA:1496:U:N3	85:AA:1497:U:C5	2.76	0.53
85:AA:2124:G:H1'	85:AA:2195:A:C2	2.42	0.53
35:BB:866:A:C6	35:BB:867:C:C4	2.96	0.53
35:BB:855:G:C2	35:BB:868:C:O2	2.61	0.53
35:BB:968:C:C4	35:BB:969:C:C5	2.96	0.53
85:AA:1116:G:C5	85:AA:1117:G:C8	2.96	0.53
85:AA:2015:U:H3	85:AA:2028:G:N2	2.07	0.53
24:AQ:69:ASN:HB2	85:AA:1566:A:H4'	1.90	0.53
34:BA:263:G:O6	34:BA:273:G:C6	2.61	0.53
35:BB:669:A:C2	35:BB:1329:G:C5	2.96	0.53
85:AA:2001:C:C5	85:AA:2001:C:OP1	2.61	0.53
85:AA:1456:A:H2'	85:AA:1457:C:C5	2.43	0.53
85:AA:1521:U:O4'	85:AA:1677:A:C2	2.61	0.53
85:AA:2215:C:H3'	85:AA:2218:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:309:G:C2	85:AA:317:A:C4	2.96	0.53
85:AA:2146:G:N2	85:AA:2171:A:C4	2.76	0.53
85:AA:276:C:C4	85:AA:277:G:C5	2.96	0.53
85:AA:980:U:C2	85:AA:981:A:C8	2.96	0.53
85:AA:912:C:C6	85:AA:913:U:C5	2.96	0.53
85:AA:115:U:O2	85:AA:365:G:C2	2.62	0.53
85:AA:421:G:C4	85:AA:422:G:C8	2.95	0.53
34:BA:1128:C:C2	34:BA:1130:U:C5	2.96	0.53
34:BA:1130:U:C2	34:BA:1131:G:C8	2.96	0.53
85:AA:821:U:H2'	85:AA:822:U:H6	1.73	0.53
85:AA:858:G:N2	85:AA:859:G:H1'	2.23	0.53
34:BA:1214:U:H2'	34:BA:1215:U:O4'	2.08	0.53
24:AQ:51:VAL:HG23	85:AA:1722:G:H21	1.72	0.53
23:AP:180:ILE:O	23:AP:206:VAL:HG23	2.08	0.53
35:BB:676:G:N1	35:BB:678:U:C4	2.77	0.53
35:BB:893:U:C4	35:BB:894:A:C8	2.95	0.53
20:AL:31:ASN:O	20:AL:35:VAL:HG23	2.08	0.53
4:A3:79:LYS:HA	4:A3:95:ARG:HA	1.89	0.53
23:AP:253:HIS:HB3	23:AP:256:PHE:CD1	2.43	0.53
8:A7:192:LEU:HD13	8:A7:223:TRP:CD2	2.42	0.53
85:AA:1068:A:H2'	85:AA:1069:U:C6	2.43	0.53
34:BA:113:G:N7	34:BA:151:A:C2	2.76	0.53
34:BA:1262:A:H4'	34:BA:1313:U:O4	2.09	0.53
34:BA:1412:G:C2	34:BA:1413:G:C4	2.97	0.53
34:BA:1417:C:C4	34:BA:1418:G:C5	2.96	0.53
34:BA:1441:C:O3'	52:BS:5:HIS:CE1	2.62	0.53
34:BA:1845:G:N1	35:BB:6:A:C6	2.76	0.53
34:BA:162:G:C5	34:BA:322:U:C5	2.96	0.53
34:BA:480:G:H2'	34:BA:481:A:O4'	2.09	0.53
34:BA:492:G:C6	34:BA:710:A:C2	2.96	0.53
34:BA:792:A:C2	35:BB:1232:A:H4'	2.43	0.53
34:BA:937:G:C4	34:BA:938:C:C5	2.96	0.53
34:BA:98:A:H2'	34:BA:99:G:C2	2.42	0.53
34:BA:1162:U:H4'	35:BB:1085:C:N3	2.23	0.53
35:BB:1108:G:C2	35:BB:1157:G:C4	2.96	0.53
35:BB:1159:U:H2'	35:BB:1160:U:C6	2.42	0.53
35:BB:1220:A:N1	35:BB:1221:G:C6	2.77	0.53
35:BB:1221:G:H2'	35:BB:1222:A:C4	2.44	0.53
35:BB:486:G:C2	35:BB:487:A:C5	2.96	0.53
37:BD:32:A:N1	37:BD:46:G:C6	2.76	0.53
37:BD:93:G:H2'	37:BD:94:C:C5	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:23:G:N3	38:BE:197:A:C2	2.76	0.53
40:BG:37:G:C6	40:BG:38:A:C5	2.95	0.53
40:BG:4:A:C4	40:BG:5:G:C8	2.96	0.53
41:BH:115:A:C5'	41:BH:118:U:H5	2.22	0.53
41:BH:31:A:C2	41:BH:125:U:O2	2.61	0.53
47:BN:32:ASN:O	47:BN:35:ALA:HB3	2.08	0.53
85:AA:1281:G:C4	85:AA:1282:A:C8	2.96	0.53
85:AA:161:A:C2	85:AA:162:A:C5	2.95	0.53
85:AA:2202:G:N2	85:AA:2203:C:H1'	2.23	0.53
85:AA:55:A:C5	85:AA:491:G:C6	2.96	0.53
85:AA:922:A:H2'	85:AA:923:A:H5'	1.91	0.53
85:AA:94:C:H1'	85:AA:491:G:H5'	1.90	0.53
34:BA:613:A:H2'	34:BA:614:A:C8	2.43	0.53
35:BB:846:A:C6	35:BB:967:G:C6	2.96	0.53
35:BB:841:U:C2	35:BB:975:G:C2	2.96	0.53
85:AA:938:A:OP2	85:AA:939:A:C8	2.61	0.53
34:BA:678:C:N3	34:BA:679:U:C2	2.76	0.53
35:BB:1493:A:C2	35:BB:1514:G:C4	2.97	0.53
85:AA:1526:G:H2'	85:AA:1528:A:C8	2.44	0.53
85:AA:1696:U:C6	85:AA:1697:C:C5	2.96	0.53
85:AA:777:U:C6	85:AA:778:C:C5	2.96	0.53
34:BA:1341:A:C8	34:BA:1404:A:C6	2.96	0.53
40:BG:137:G:C4	40:BG:138:C:C6	2.96	0.53
34:BA:1263:A:C2	34:BA:1264:U:C6	2.97	0.53
49:BP:128:PHE:CD2	49:BP:129:ASP:HA	2.43	0.53
35:BB:1430:G:C4	35:BB:1431:G:C8	2.97	0.53
34:BA:1126:U:C4	34:BA:1127:U:O4	2.61	0.53
39:BF:32:G:C2	39:BF:34:C:C4	2.95	0.53
85:AA:737:G:C2	85:AA:737:G:OP2	2.61	0.53
27:AT:65:PHE:CZ	27:AT:79:PHE:CD2	2.96	0.53
35:BB:1481:C:H3'	35:BB:1482:A:O4'	2.08	0.53
85:AA:1373:U:H5'	85:AA:1373:U:C6	2.43	0.53
20:AL:102:ASP:CG	20:AL:122:PRO:HA	2.28	0.53
7:A6:134:ALA:HA	7:A6:139:ILE:HA	1.91	0.53
52:BS:82:TYR:N	52:BS:82:TYR:CD1	2.75	0.53
56:BW:77:ASN:HB2	56:BW:105:VAL:HG12	1.91	0.53
5:A4:108:PRO:HB3	5:A4:116:GLN:CD	2.28	0.53
85:AA:307:G:OP2	85:AA:307:G:C8	2.61	0.53
34:BA:1233:U:C2	34:BA:1252:G:C2	2.96	0.53
23:AP:112:ASN:HD21	23:AP:135:ILE:HG23	1.72	0.53
34:BA:1310:C:N3	34:BA:1311:G:C4	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1446:G:H3'	49:BP:49:HIS:CG	2.43	0.53
34:BA:1451:A:H3'	34:BA:1452:U:C4'	2.38	0.53
34:BA:1460:U:O2	34:BA:1461:A:C8	2.62	0.53
34:BA:1050:A:C4	34:BA:1518:A:C2	2.96	0.53
34:BA:1533:G:N1	34:BA:1534:U:C2	2.76	0.53
34:BA:1563:G:N1	34:BA:1565:U:C4	2.77	0.53
34:BA:1627:U:C4	34:BA:1628:A:C5	2.96	0.53
34:BA:1656:A:C6	34:BA:1657:A:C6	2.97	0.53
34:BA:165:C:C2	34:BA:166:G:C5	2.96	0.53
34:BA:19:G:H3'	34:BA:1716:A:C2	2.44	0.53
34:BA:1707:C:C5	34:BA:1721:U:O4	2.62	0.53
34:BA:1736:A:H8	34:BA:1736:A:O5'	1.91	0.53
34:BA:1788:U:C5	34:BA:1789:A:C6	2.97	0.53
34:BA:341:U:N3	34:BA:349:G:C6	2.76	0.53
34:BA:478:G:C2	36:BC:11:G:C2	2.96	0.53
34:BA:57:A:C4	34:BA:390:A:C2	2.96	0.53
34:BA:66:C:C5	34:BA:67:A:C8	2.96	0.53
34:BA:785:G:C5	34:BA:786:U:C4	2.96	0.53
34:BA:798:G:C4	34:BA:800:G:C1'	2.91	0.53
35:BB:1108:G:C2	35:BB:1109:A:C4	2.96	0.53
35:BB:120:C:C2	35:BB:121:A:C8	2.97	0.53
35:BB:416:U:C4	35:BB:455:G:C2	2.96	0.53
34:BA:1600:G:H1	35:BB:621:C:H42	1.56	0.53
35:BB:680:A:H2'	35:BB:681:G:C8	2.43	0.53
36:BC:23:G:C6	36:BC:24:G:C5	2.96	0.53
36:BC:66:G:C6	36:BC:67:U:C4	2.96	0.53
37:BD:59:G:C6	37:BD:60:C:C4	2.96	0.53
37:BD:66:G:N2	37:BD:67:C:H1'	2.22	0.53
38:BE:69:C:C4	38:BE:137:A:N1	2.76	0.53
38:BE:93:U:C2	38:BE:94:U:C5	2.96	0.53
40:BG:31:G:C6	40:BG:174:G:N1	2.75	0.53
40:BG:8:U:C2	40:BG:17:A:N1	2.76	0.53
41:BH:119:U:C4	41:BH:120:C:C4	2.96	0.53
41:BH:35:G:C5	41:BH:36:C:C4	2.96	0.53
34:BA:846:U:H5'	42:BI:73:ARG:HH21	1.73	0.53
34:BA:900:A:C6	47:BN:14:ARG:HA	2.43	0.53
39:BF:23:G:C5	48:BO:132:ARG:HA	2.43	0.53
34:BA:564:C:C5	34:BA:565:U:N1	2.77	0.53
85:AA:161:A:H3'	85:AA:162:A:C8	2.43	0.53
85:AA:685:U:O2	85:AA:685:U:H2'	2.07	0.53
85:AA:686:U:C4	85:AA:687:G:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:567:G:C4	35:BB:568:A:C8	2.95	0.53
35:BB:798:A:O2'	35:BB:799:A:H5'	2.07	0.53
35:BB:828:G:C2	35:BB:829:C:C2	2.97	0.53
35:BB:1168:G:N1	35:BB:1185:G:C6	2.77	0.53
85:AA:1132:A:C5	85:AA:1133:C:C6	2.96	0.53
85:AA:1544:G:N2	85:AA:1545:U:H1'	2.23	0.53
34:BA:256:A:C5'	34:BA:257:G:H5'	2.38	0.53
34:BA:1208:U:C4	34:BA:1210:A:C2	2.96	0.53
34:BA:603:U:C6	34:BA:1492:G:C5	2.96	0.53
27:AT:10:VAL:HG21	27:AT:37:TRP:CD1	2.43	0.53
85:AA:2217:A:C2	85:AA:2245:A:C5	2.97	0.53
85:AA:317:A:C6	85:AA:318:A:C4	2.97	0.53
85:AA:2173:A:C6	85:AA:2174:G:C4	2.97	0.53
85:AA:984:A:C2	85:AA:985:G:C8	2.96	0.53
85:AA:287:G:H2'	85:AA:288:G:C8	2.42	0.53
85:AA:567:G:C6	85:AA:568:C:C4	2.96	0.53
85:AA:2057:G:C2	85:AA:2074:G:C6	2.97	0.53
27:AT:16:GLN:HE22	85:AA:905:C:H3'	1.74	0.53
85:AA:1263:G:C4	85:AA:1264:U:C5	2.96	0.53
35:BB:576:A:H1'	35:BB:1420:U:H4'	1.90	0.53
34:BA:1127:U:O4	34:BA:1128:C:C4	2.61	0.53
85:AA:824:C:C2	85:AA:857:G:N2	2.76	0.53
85:AA:346:U:C5	85:AA:347:U:C5	2.95	0.53
85:AA:654:A:C2	85:AA:657:C:C6	2.97	0.53
85:AA:1814:U:H1'	85:AA:1815:U:H5	1.72	0.53
85:AA:1937:G:C2	85:AA:1953:G:C2	2.96	0.53
35:BB:609:G:C2	35:BB:610:U:C2	2.95	0.53
34:BA:1023:G:C5	35:BB:1267:C:C1'	2.92	0.53
34:BA:344:G:C8	34:BA:344:G:H3'	2.43	0.53
26:AS:131:TYR:HA	26:AS:134:TYR:CD2	2.44	0.53
4:A3:28:LEU:HD22	4:A3:41:ILE:HG12	1.90	0.53
34:BA:1252:G:C2	34:BA:1253:G:H1'	2.44	0.53
85:AA:1237:A:C8	85:AA:1238:U:C5	2.97	0.53
2:A1:159:TYR:CZ	2:A1:164:LYS:HA	2.44	0.53
86:AB:21:A:C5	86:AB:48:C:C5	2.96	0.53
34:BA:1016:A:H3'	34:BA:1017:C:H6	1.73	0.53
34:BA:109:A:C2	34:BA:110:C:H1'	2.43	0.53
34:BA:138:C:C2	34:BA:139:U:C6	2.95	0.53
34:BA:1844:U:H2'	34:BA:1845:G:C8	2.43	0.53
34:BA:210:G:H2'	34:BA:211:C:C6	2.43	0.53
34:BA:744:G:O5'	34:BA:744:G:H8	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:764:G:C6	34:BA:765:U:C2	2.97	0.53
35:BB:1225:A:H4'	35:BB:1226:G:OP1	2.07	0.53
35:BB:66:G:H2'	35:BB:67:A:C8	2.44	0.53
35:BB:784:C:H2'	35:BB:785:G:C8	2.44	0.53
34:BA:1841:A:C6	35:BB:9:G:C6	2.96	0.53
34:BA:15:G:C4	36:BC:153:C:O2	2.62	0.53
34:BA:399:G:N1	36:BC:28:C:C2	2.73	0.53
37:BD:24:U:C6	37:BD:24:U:H3'	2.44	0.53
37:BD:73:U:H3'	37:BD:74:A:H2'	1.89	0.53
38:BE:10:G:C4	38:BE:11:A:N7	2.76	0.53
38:BE:180:G:C5'	38:BE:182:U:H5'	2.38	0.53
39:BF:6:C:H1'	39:BF:7:G:C4	2.43	0.53
40:BG:28:A:C2	40:BG:178:G:C5	2.97	0.53
40:BG:74:G:C5	40:BG:124:A:C6	2.97	0.53
40:BG:111:C:H4'	58:BY:46:ARG:CZ	2.38	0.53
34:BA:540:G:C2	34:BA:568:G:C2	2.96	0.53
4:A3:109:ILE:HG21	4:A3:112:LEU:HG	1.89	0.53
85:AA:132:G:H2'	85:AA:133:G:O4'	2.08	0.53
85:AA:2129:U:H2'	85:AA:2130:G:C8	2.43	0.53
85:AA:376:C:C2	85:AA:423:G:C4	2.95	0.53
85:AA:48:G:C5	85:AA:497:G:C2	2.96	0.53
85:AA:635:G:N2	85:AA:659:A:H1'	2.23	0.53
26:AS:18:ARG:NH2	85:AA:376:C:H5'	2.23	0.53
32:AY:63:GLY:HA3	85:AA:633:C:O3'	2.09	0.53
34:BA:615:A:C2	34:BA:667:U:C2	2.97	0.53
34:BA:630:U:C4	34:BA:631:G:C6	2.97	0.53
35:BB:817:C:N3	35:BB:823:G:C2	2.77	0.53
35:BB:839:G:C6	35:BB:840:C:C2	2.97	0.53
85:AA:1215:A:C2	85:AA:1216:A:C8	2.97	0.53
85:AA:706:U:C2	85:AA:707:U:C5	2.97	0.53
5:A4:46:PHE:O	5:A4:47:HIS:CD2	2.62	0.53
16:AH:128:VAL:HG12	85:AA:1178:A:C2	2.43	0.53
85:AA:871:U:H2'	85:AA:872:U:C6	2.44	0.53
15:AG:77:HIS:O	15:AG:77:HIS:CD2	2.61	0.53
85:AA:1654:G:C6	85:AA:1655:G:C4	2.97	0.53
85:AA:1657:C:H2'	85:AA:1658:G:H8	1.74	0.53
34:BA:598:G:H3'	34:BA:1494:G:H5'	1.90	0.53
23:AP:97:GLN:NE2	85:AA:11:A:H4'	2.24	0.53
34:BA:1287:G:C4	34:BA:1288:U:C5	2.97	0.53
51:BR:56:ARG:HH11	51:BR:57:CYS:N	2.07	0.53
85:AA:982:G:C4	85:AA:983:A:C4	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:717:G:C6	85:AA:718:C:C4	2.97	0.53
85:AA:383:C:C2	85:AA:384:C:C6	2.97	0.53
35:BB:1003:G:C2	35:BB:1004:A:C8	2.96	0.53
52:BS:35:ASN:OD1	52:BS:38:VAL:HG23	2.09	0.53
85:AA:66:U:O3'	85:AA:67:C:C6	2.61	0.53
34:BA:573:U:H4'	34:BA:1448:G:H5'	1.90	0.53
85:AA:811:A:C2	85:AA:812:C:C2	2.96	0.53
35:BB:730:G:H21	35:BB:760:C:N4	2.05	0.53
1:A0:165:TRP:CZ3	1:A0:168:MET:SD	3.01	0.53
34:BA:532:C:C6	34:BA:532:C:H3'	2.42	0.53
34:BA:526:C:C2	34:BA:587:U:C2	2.96	0.53
85:AA:1833:C:C6	85:AA:1833:C:O5'	2.62	0.53
35:BB:1379:U:H3	35:BB:1384:A:H61	1.56	0.53
25:AR:75:HIS:CD2	30:AW:4:PHE:CE1	2.96	0.53
35:BB:13:A:C6	35:BB:14:C:C4	2.96	0.53
35:BB:630:A:C5	35:BB:631:G:C6	2.97	0.53
85:AA:1595:G:N1	85:AA:1883:C:C2	2.76	0.53
21:AM:41:PHE:CD1	21:AM:43:TYR:HA	2.43	0.53
49:BP:162:LYS:HA	49:BP:165:GLU:HG3	1.89	0.53
16:AH:20:VAL:H	16:AH:84:ASN:HB3	1.72	0.53
34:BA:37:A:C6	34:BA:1036:G:C2	2.96	0.53
34:BA:1049:G:H3'	34:BA:1516:G:H1	1.74	0.53
34:BA:1052:G:C5	34:BA:1230:G:C8	2.97	0.53
34:BA:1225:A:C2	34:BA:1226:G:H1'	2.44	0.53
34:BA:1475:G:C2	34:BA:1476:G:C4	2.96	0.53
34:BA:1605:G:O4'	40:BG:106:G:C6	2.62	0.53
34:BA:212:A:C2	34:BA:221:G:N3	2.76	0.53
34:BA:23:A:H3'	34:BA:24:C:C5	2.44	0.53
34:BA:355:U:C5	34:BA:356:C:C5	2.96	0.53
34:BA:754:G:N1	34:BA:755:G:C4	2.76	0.53
34:BA:966:G:C2	34:BA:967:C:C2	2.97	0.53
34:BA:986:G:C5	34:BA:987:C:C4	2.96	0.53
35:BB:1136:G:H2'	35:BB:1136:G:N3	2.24	0.53
35:BB:1146:C:H3'	35:BB:1147:G:H8	1.73	0.53
35:BB:1212:C:H2'	35:BB:1213:U:C6	2.44	0.53
35:BB:1446:C:H2'	35:BB:1447:U:C5	2.42	0.53
35:BB:428:G:C2	35:BB:429:C:C2	2.96	0.53
35:BB:67:A:C2	35:BB:617:C:C2	2.96	0.53
35:BB:876:G:H2'	35:BB:901:U:C5	2.43	0.53
35:BB:94:A:C2	35:BB:95:A:C4	2.96	0.53
37:BD:51:G:C5	37:BD:52:U:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:192:A:C2	38:BE:193:A:C4	2.97	0.53
40:BG:15:G:H2'	40:BG:16:G:O4'	2.08	0.53
41:BH:58:C:C4	41:BH:59:G:C6	2.97	0.53
38:BE:160:C:C6	53:BT:43:LYS:HB3	2.43	0.53
34:BA:540:G:C2	34:BA:568:G:C4	2.96	0.53
85:AA:2120:C:N4	85:AA:2121:G:C6	2.77	0.53
85:AA:454:G:C6	85:AA:455:G:C5	2.97	0.53
85:AA:639:C:C2	85:AA:651:G:C2	2.97	0.53
34:BA:614:A:H61	34:BA:667:U:H3	1.57	0.53
34:BA:668:G:C2	34:BA:669:U:C2	2.96	0.53
35:BB:556:U:C2	35:BB:557:C:C5	2.97	0.53
35:BB:574:G:C2	35:BB:577:U:C2	2.96	0.53
35:BB:809:U:C6	35:BB:809:U:C3'	2.90	0.53
15:AG:124:ARG:NH1	85:AA:1215:A:H5"	2.22	0.53
85:AA:936:C:H2'	85:AA:937:G:C8	2.44	0.53
34:BA:278:U:O2	34:BA:279:U:C5	2.61	0.53
34:BA:719:G:C6	35:BB:639:A:C2	2.95	0.53
85:AA:592:C:N3	85:AA:601:A:C2	2.77	0.53
85:AA:1288:A:C2	85:AA:1454:U:O2	2.61	0.53
85:AA:1515:A:C5	85:AA:1516:A:N7	2.76	0.53
85:AA:1695:G:C6	85:AA:1696:U:C4	2.96	0.53
85:AA:2146:G:N2	85:AA:2171:A:C5	2.76	0.53
85:AA:1623:U:C5	85:AA:1624:U:C4	2.96	0.53
85:AA:561:C:C2	85:AA:567:G:C2	2.97	0.53
34:BA:1341:A:C5	34:BA:1342:C:C6	2.97	0.53
85:AA:419:A:N6	85:AA:420:C:C2	2.77	0.53
35:BB:1013:U:C4	35:BB:1014:U:C4	2.96	0.53
39:BF:45:G:N1	39:BF:46:G:C5	2.77	0.53
85:AA:739:C:C6	85:AA:739:C:C3'	2.89	0.53
35:BB:642:G:C5	35:BB:645:C:C4	2.96	0.53
34:BA:143:A:H4'	34:BA:144:C:C5'	2.38	0.53
26:AS:51:VAL:O	26:AS:97:ASN:HA	2.08	0.53
85:AA:358:U:H2'	85:AA:359:A:C8	2.43	0.53
34:BA:1056:C:H5"	35:BB:1257:A:H62	1.73	0.53
34:BA:1230:G:C4	34:BA:1231:C:C5	2.96	0.53
34:BA:128:C:H2'	34:BA:129:U:C5	2.44	0.53
34:BA:1673:G:C2	34:BA:1677:C:N4	2.76	0.53
34:BA:213:A:C5	34:BA:217:C:C4	2.97	0.53
34:BA:22:C:C6	34:BA:22:C:O5'	2.62	0.53
34:BA:325:A:C4	34:BA:326:A:H1'	2.43	0.53
34:BA:463:A:C4	34:BA:465:A:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:697:A:H2'	34:BA:698:U:C6	2.43	0.53
34:BA:98:A:H3'	34:BA:99:G:N2	2.23	0.53
35:BB:1313:C:C2	35:BB:1314:G:C8	2.97	0.53
35:BB:1450:G:H3'	35:BB:1451:C:C6	2.44	0.53
35:BB:86:A:C2	35:BB:604:C:H1'	2.44	0.53
35:BB:95:A:C2	35:BB:96:A:C8	2.97	0.53
36:BC:119:G:N1	36:BC:120:G:C4	2.76	0.53
36:BC:136:G:C2	36:BC:137:C:C2	2.97	0.53
36:BC:125:A:N6	36:BC:138:C:H42	2.07	0.53
36:BC:24:G:H2'	36:BC:25:C:C6	2.44	0.53
40:BG:25:G:C4	40:BG:26:G:C8	2.97	0.53
41:BH:32:U:C6	41:BH:33:G:C5	2.96	0.53
34:BA:743:A:C4	47:BN:6:ASN:O	2.62	0.53
85:AA:2181:G:HO2'	85:AA:2182:A:H8	1.51	0.53
85:AA:443:A:H3'	85:AA:444:U:C6	2.44	0.53
85:AA:47:A:N1	85:AA:97:A:C4	2.77	0.53
85:AA:513:G:C6	85:AA:514:U:C4	2.96	0.53
23:AP:217:ARG:O	23:AP:220:PHE:HB3	2.09	0.53
35:BB:569:G:N1	35:BB:570:A:C4	2.77	0.53
35:BB:536:U:O2	35:BB:538:A:C8	2.62	0.53
35:BB:516:G:C8	35:BB:539:G:H2'	2.44	0.53
34:BA:1210:A:N9	54:BU:129:LYS:HD3	2.24	0.53
41:BH:23:G:H3'	41:BH:24:U:C4'	2.37	0.53
85:AA:985:G:C2	85:AA:986:U:C2	2.97	0.53
85:AA:989:U:O2	85:AA:991:G:H3'	2.09	0.53
35:BB:1066:G:C8	44:BK:111:LEU:HD23	2.43	0.53
85:AA:433:U:C2	85:AA:434:U:C5	2.96	0.53
40:BG:137:G:C6	40:BG:138:C:C5	2.97	0.53
85:AA:1263:G:C5	85:AA:1264:U:C5	2.97	0.53
34:BA:1126:U:C6	34:BA:1126:U:O5'	2.61	0.53
11:AC:60:HIS:H	11:AC:60:HIS:CD2	2.24	0.53
85:AA:821:U:H3	85:AA:859:G:H1	1.55	0.53
85:AA:1732:G:H1'	85:AA:1799:C:H4'	1.91	0.53
35:BB:1517:G:C8	35:BB:1517:G:O5'	2.62	0.53
35:BB:888:U:H2'	35:BB:889:U:H5'	1.91	0.53
85:AA:1175:A:H2'	85:AA:1176:C:C6	2.44	0.53
35:BB:921:U:H3	35:BB:939:G:H1	1.57	0.53
35:BB:345:U:C5	35:BB:346:U:C5	2.97	0.53
8:A7:211:CYS:HB3	8:A7:225:LEU:HD21	1.90	0.53
5:A4:170:ARG:O	5:A4:174:LEU:HD13	2.08	0.53
58:BY:80:VAL:HA	85:AA:2163:G:H5'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:101:G:N1	34:BA:102:G:C5	2.77	0.53
34:BA:1193:A:C2	34:BA:1194:G:C4	2.97	0.53
34:BA:1223:C:H2'	34:BA:1224:A:C8	2.43	0.53
34:BA:1260:G:C4	34:BA:1270:G:C2	2.97	0.53
34:BA:1412:G:O2'	34:BA:1413:G:H5"	2.09	0.53
34:BA:1421:A:C6	35:BB:1345:A:C6	2.97	0.53
34:BA:1456:C:C2	34:BA:1457:C:C4	2.97	0.53
34:BA:1482:A:N1	34:BA:1483:U:C4	2.77	0.53
34:BA:19:G:C6	34:BA:1716:A:N1	2.77	0.53
34:BA:1734:U:C4	34:BA:1735:G:N7	2.77	0.53
34:BA:733:G:C6	34:BA:734:G:C5	2.97	0.53
34:BA:798:G:H2'	34:BA:800:G:C1'	2.39	0.53
35:BB:1232:A:C8	35:BB:1232:A:O5'	2.61	0.53
35:BB:1334:C:H2'	35:BB:1335:G:O4'	2.08	0.53
35:BB:35:G:C2	35:BB:36:U:C2	2.96	0.53
35:BB:43:G:C2	35:BB:44:C:C2	2.96	0.53
36:BC:108:A:C6	36:BC:109:A:C5	2.97	0.53
36:BC:136:G:C6	36:BC:137:C:C4	2.97	0.53
36:BC:137:C:C4	36:BC:138:C:C5	2.97	0.53
35:BB:4:C:C2	38:BE:13:A:C1'	2.91	0.53
39:BF:22:U:C3'	39:BF:23:G:H5'	2.39	0.53
40:BG:127:G:C6	40:BG:163:G:N1	2.76	0.53
40:BG:33:G:H1	40:BG:169:A:H5'	1.73	0.53
40:BG:170:G:C8	40:BG:173:C:OP1	2.61	0.53
40:BG:77:U:H3'	40:BG:78:C:C6	2.43	0.53
41:BH:35:G:C6	41:BH:36:C:C4	2.96	0.53
41:BH:38:G:N1	41:BH:114:G:C4	2.77	0.53
41:BH:97:C:OP2	55:BV:63:LYS:CG	2.50	0.53
34:BA:743:A:N1	47:BN:6:ASN:HB3	2.24	0.53
47:BN:62:GLN:HA	47:BN:76:LEU:HD13	1.91	0.53
4:A3:15:GLN:HG2	85:AA:157:G:H5'	1.90	0.53
85:AA:2193:A:C5	85:AA:2194:U:C5	2.97	0.53
85:AA:541:A:N1	85:AA:542:G:C8	2.77	0.53
85:AA:624:A:C2	85:AA:631:G:C5	2.97	0.53
34:BA:628:U:H1'	34:BA:629:G:C8	2.44	0.53
34:BA:670:U:C4	34:BA:671:C:C4	2.96	0.53
35:BB:844:G:N1	35:BB:969:C:C2	2.77	0.53
35:BB:846:A:C4	35:BB:967:G:N2	2.76	0.53
35:BB:967:G:C2	35:BB:968:C:C2	2.97	0.53
35:BB:976:U:H1'	35:BB:977:G:N1	2.24	0.53
53:BT:177:GLU:CG	85:AA:999:A:C8	2.79	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AG:120:SER:HA	34:BA:945:A:N1	2.24	0.53
85:AA:935:A:C2	85:AA:936:C:C2	2.97	0.53
40:BG:149:U:C2	40:BG:150:A:N7	2.77	0.53
34:BA:289:A:C2'	34:BA:289:A:C2	2.92	0.53
34:BA:679:U:C5	34:BA:680:C:N4	2.76	0.53
34:BA:680:C:H5'	34:BA:681:G:C8	2.44	0.53
35:BB:1494:G:C2	35:BB:1513:U:C2	2.97	0.53
85:AA:255:A:H61	85:AA:324:U:H3	1.56	0.53
85:AA:321:C:C2	85:AA:322:A:C8	2.97	0.53
41:BH:11:C:O2	41:BH:12:U:C5	2.62	0.53
41:BH:16:A:C5	41:BH:17:A:C5	2.97	0.53
85:AA:2174:G:H2'	85:AA:2175:U:C6	2.43	0.53
85:AA:965:G:C2	85:AA:989:U:H5"	2.44	0.53
85:AA:887:A:O2'	85:AA:888:A:C4	2.62	0.53
34:BA:1333:G:C5	34:BA:1409:A:N1	2.77	0.53
34:BA:1335:A:H2'	34:BA:1336:U:C6	2.44	0.53
85:AA:362:G:N2	85:AA:363:A:H1'	2.23	0.53
47:BN:207:ALA:O	47:BN:211:GLU:HG2	2.09	0.53
34:BA:203:U:H2'	34:BA:204:U:H6	1.69	0.53
34:BA:1128:C:H3'	34:BA:1129:U:H5"	1.90	0.53
85:AA:858:G:C5	85:AA:859:G:C8	2.96	0.53
85:AA:867:G:C8	85:AA:867:G:C3'	2.90	0.53
85:AA:345:U:O4	85:AA:346:U:C2	2.62	0.53
35:BB:1070:G:O6	35:BB:1071:G:C6	2.61	0.53
85:AA:1370:G:C6	85:AA:1371:C:C4	2.96	0.53
5:A4:145:TRP:O	18:AJ:51:GLU:HA	2.09	0.53
35:BB:686:A:H2'	35:BB:687:C:C6	2.43	0.53
15:AG:136:PRO:HG2	15:AG:139:TRP:CG	2.43	0.53
52:BS:57:HIS:CD2	52:BS:58:GLY:N	2.76	0.53
85:AA:1949:U:H2'	85:AA:1950:G:C8	2.43	0.53
34:BA:1051:A:C2	34:BA:1052:G:C4	2.97	0.53
34:BA:1502:G:C5	34:BA:1503:U:C6	2.97	0.53
34:BA:1613:G:H8	34:BA:1613:G:O5'	1.92	0.53
34:BA:1742:G:N2	34:BA:1743:U:H1'	2.24	0.53
34:BA:1745:G:N2	34:BA:1780:U:C2	2.77	0.53
34:BA:1787:U:H2'	34:BA:1788:U:C6	2.42	0.53
34:BA:1831:A:C5	34:BA:1831:A:OP1	2.62	0.53
34:BA:218:G:OP1	34:BA:219:U:H1'	2.08	0.53
34:BA:27:G:N2	34:BA:52:G:C4	2.77	0.53
34:BA:297:A:C4	36:BC:32:U:C4	2.97	0.53
34:BA:111:U:C4	34:BA:383:G:C4	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:417:A:C4	34:BA:419:U:C4	2.97	0.53
34:BA:503:C:N4	34:BA:699:G:H1	2.06	0.53
34:BA:757:G:C5'	34:BA:758:G:C2	2.92	0.53
34:BA:762:A:H61	34:BA:775:C:H42	1.56	0.53
34:BA:767:U:N3	34:BA:768:G:C4	2.77	0.53
35:BB:1075:A:C6	35:BB:1076:U:C2	2.96	0.53
35:BB:1083:C:H5"	35:BB:1084:A:H5'	1.91	0.53
35:BB:1087:A:C5	35:BB:1088:C:C5	2.97	0.53
35:BB:1124:G:H2'	35:BB:1126:A:C2	2.44	0.53
35:BB:1358:A:C2	35:BB:1359:G:C1'	2.92	0.53
35:BB:377:A:N3	35:BB:377:A:H2'	2.24	0.53
35:BB:391:G:C2	35:BB:598:C:C2	2.96	0.53
35:BB:449:C:H2'	35:BB:450:A:C8	2.43	0.53
35:BB:59:U:O4	35:BB:60:A:C8	2.62	0.53
35:BB:67:A:C2	35:BB:617:C:N3	2.76	0.53
35:BB:693:U:H2'	35:BB:694:C:H6	1.73	0.53
36:BC:12:A:C6	36:BC:13:U:C2	2.96	0.53
36:BC:147:G:N1	36:BC:148:C:C2	2.76	0.53
36:BC:151:G:C5	36:BC:152:C:C4	2.96	0.53
34:BA:15:G:C5	36:BC:153:C:N3	2.77	0.53
36:BC:48:A:H2	36:BC:62:A:HO2'	1.57	0.53
37:BD:94:C:O2	37:BD:95:G:C4	2.62	0.53
41:BH:38:G:C6	41:BH:114:G:C6	2.97	0.53
41:BH:44:A:C5	41:BH:45:G:C4	2.97	0.53
41:BH:57:A:C2	41:BH:65:G:C2	2.96	0.53
85:AA:1228:A:H2'	85:AA:1229:G:H8	1.74	0.53
85:AA:465:A:OP2	85:AA:465:A:C2	2.62	0.53
85:AA:531:G:C5	85:AA:532:G:C5	2.96	0.53
85:AA:33:U:C6	85:AA:538:A:C6	2.97	0.53
34:BA:612:U:C4	34:BA:613:A:C1'	2.91	0.53
34:BA:664:C:O5'	34:BA:664:C:C6	2.62	0.53
5:A4:6:HIS:NE2	53:BT:191:ASP:CA	2.71	0.53
34:BA:675:C:C5	34:BA:676:G:C6	2.97	0.53
85:AA:1695:G:C5	85:AA:1696:U:C5	2.97	0.53
2:A1:130:THR:HG22	85:AA:318:A:H5"	1.90	0.53
85:AA:269:G:C6	85:AA:980:U:H1'	2.44	0.53
34:BA:3:G:C4	36:BC:169:G:N2	2.77	0.53
85:AA:786:G:C5	85:AA:787:U:C5	2.96	0.53
85:AA:790:A:H1'	85:AA:791:C:C6	2.44	0.53
34:BA:573:U:H4'	34:BA:1448:G:O5'	2.07	0.53
85:AA:817:G:C8	85:AA:819:G:C8	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:33:C:C5	39:BF:34:C:H1'	2.44	0.53
34:BA:1123:G:C6	34:BA:1124:U:C5	2.97	0.53
85:AA:1727:U:H1'	85:AA:1816:C:N3	2.23	0.53
85:AA:1257:A:O2'	85:AA:1258:U:H5'	2.09	0.53
85:AA:1953:G:C2	85:AA:1954:C:C2	2.97	0.53
12:AD:33:TRP:CD2	85:AA:1957:C:C6	2.97	0.53
1:A0:201:LYS:HB3	85:AA:1373:U:H5"	1.89	0.53
85:AA:1374:A:C2	85:AA:1375:U:C5	2.97	0.53
86:AB:48:C:C5	86:AB:59:U:C6	2.97	0.53
2:A1:96:PHE:CG	2:A1:108:LEU:HG	2.44	0.53
38:BE:53:U:H5"	55:BV:96:LYS:HA	1.90	0.53
29:AV:43:VAL:HA	29:AV:72:TYR:HA	1.91	0.53
85:AA:214:C:C4	85:AA:215:U:C2	2.97	0.53
85:AA:2154:C:H2'	85:AA:2155:U:O4'	2.08	0.53
85:AA:2163:G:C2	85:AA:2164:G:C8	2.97	0.53
34:BA:1194:G:C2	34:BA:1195:G:C5	2.97	0.53
34:BA:1258:G:C6	34:BA:1259:C:C4	2.96	0.53
34:BA:1261:G:C2	34:BA:1262:A:C8	2.96	0.53
34:BA:131:A:C6	34:BA:184:C:C5'	2.91	0.53
34:BA:1466:U:N3	34:BA:1467:U:C5	2.77	0.53
34:BA:1622:U:C5	34:BA:1623:U:C2	2.97	0.53
34:BA:1665:G:C2	34:BA:1686:G:C2	2.97	0.53
34:BA:1667:G:C3'	34:BA:1668:C:H6	2.21	0.53
34:BA:1707:C:N4	34:BA:1721:U:C4	2.77	0.53
34:BA:1719:G:N1	34:BA:1720:U:C4	2.77	0.53
34:BA:804:G:C6	34:BA:810:A:N1	2.77	0.53
34:BA:873:G:C3'	34:BA:874:G:H5"	2.39	0.53
34:BA:912:G:C4	34:BA:913:U:C5	2.97	0.53
34:BA:914:G:C5	34:BA:1005:C:C5	2.97	0.53
35:BB:1081:U:N3	54:BU:3:HIS:CE1	2.77	0.53
35:BB:1147:G:C4	35:BB:1148:U:C5	2.96	0.53
35:BB:119:G:C5	35:BB:120:C:C5	2.97	0.53
35:BB:57:G:C6	35:BB:58:G:C5	2.97	0.53
35:BB:991:C:H2'	35:BB:992:C:C2	2.44	0.53
36:BC:37:U:H5"	36:BC:39:G:O4'	2.09	0.53
37:BD:101:A:C6	37:BD:102:C:C4	2.97	0.53
37:BD:74:A:N6	37:BD:102:C:H41	2.07	0.53
40:BG:29:U:H2'	40:BG:30:C:C6	2.44	0.53
40:BG:32:U:C6	40:BG:32:U:O5'	2.62	0.53
41:BH:28:U:N3	41:BH:29:G:C5	2.77	0.53
41:BH:38:G:C6	41:BH:113:G:C6	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:81:LYS:HA	45:BL:84:GLU:CD	2.29	0.53
49:BP:46:MET:HG2	49:BP:49:HIS:CE1	2.43	0.53
85:AA:135:C:C6	85:AA:135:C:H3'	2.44	0.53
85:AA:1492:U:O2	85:AA:1493:A:H1'	2.09	0.53
85:AA:2186:U:C4	85:AA:2187:G:N7	2.77	0.53
85:AA:921:C:C4	85:AA:922:A:C4	2.97	0.53
34:BA:668:G:H3'	34:BA:668:G:C8	2.44	0.53
35:BB:563:A:C2	35:BB:1377:A:O4'	2.62	0.53
35:BB:839:G:C2	35:BB:840:C:H1'	2.43	0.53
35:BB:969:C:N3	35:BB:970:C:C5	2.77	0.53
5:A4:13:LEU:HA	5:A4:47:HIS:HB3	1.91	0.53
28:AU:32:LYS:HE3	85:AA:2038:C:C4	2.44	0.53
34:BA:264:A:H3'	34:BA:265:A:H8	1.71	0.53
34:BA:677:U:O3'	34:BA:678:C:C6	2.62	0.53
34:BA:726:G:C6	34:BA:727:G:C6	2.97	0.53
35:BB:1287:U:O5'	35:BB:1287:U:H6	1.91	0.53
85:AA:1915:C:H2'	85:AA:1916:A:C8	2.43	0.53
85:AA:2217:A:C2	85:AA:2245:A:C6	2.96	0.53
85:AA:2137:A:H2'	85:AA:2138:G:O4'	2.08	0.53
85:AA:569:A:C5	85:AA:570:U:C5	2.96	0.53
85:AA:17:C:H4'	85:AA:1486:G:O4'	2.09	0.53
13:AE:125:VAL:HG21	13:AE:141:VAL:HB	1.91	0.53
35:BB:1007:U:H2'	35:BB:1009:U:C5	2.44	0.53
34:BA:1163:G:C5	34:BA:1164:C:C5	2.97	0.53
85:AA:817:G:C8	85:AA:817:G:H3'	2.44	0.53
39:BF:46:G:C5	39:BF:47:C:C5	2.97	0.53
85:AA:1034:U:H2'	85:AA:1035:C:C3'	2.37	0.53
85:AA:1002:G:C6	85:AA:1003:G:C6	2.97	0.53
35:BB:474:G:N3	35:BB:505:G:C2	2.77	0.53
85:AA:1297:G:C6	85:AA:1298:G:C5	2.96	0.53
85:AA:1852:U:C2	85:AA:1854:U:H4'	2.44	0.53
34:BA:513:U:C2	34:BA:691:A:C6	2.96	0.53
35:BB:636:G:C2	35:BB:637:G:C4	2.97	0.53
85:AA:1730:C:H1'	85:AA:1810:C:C2	2.44	0.53
35:BB:770:G:C6	35:BB:771:U:C4	2.97	0.53
28:AU:81:LEU:HB2	85:AA:2000:C:N1	2.24	0.53
85:AA:1021:G:H3'	85:AA:1022:G:H5"	1.91	0.53
2:A1:121:MET:HE2	2:A1:159:TYR:HB2	1.91	0.53
4:A3:80:ARG:CZ	4:A3:92:GLN:HB2	2.38	0.53
59:BZ:32:LEU:H	59:BZ:37:ARG:CZ	2.22	0.53
34:BA:1079:C:H4'	34:BA:1080:U:H5"	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AG:125:LEU:O	15:AG:129:TYR:CD2	2.62	0.53
34:BA:1102:A:N1	34:BA:1103:G:C6	2.77	0.53
34:BA:1177:C:N3	34:BA:1178:U:C4	2.77	0.53
34:BA:12:G:C6	34:BA:13:U:O4	2.62	0.53
34:BA:1597:G:C6	51:BR:25:HIS:CE1	2.97	0.53
34:BA:177:G:N2	34:BA:178:C:C2	2.76	0.53
34:BA:1804:A:C5	34:BA:1807:G:C5	2.97	0.53
34:BA:366:G:N2	35:BB:1236:A:C4	2.77	0.53
34:BA:732:A:C5	34:BA:733:G:N7	2.77	0.53
34:BA:810:A:N1	34:BA:811:C:C4	2.77	0.53
35:BB:1218:G:N2	35:BB:1231:U:H5"	2.24	0.53
35:BB:1269:A:C4	35:BB:1270:C:C5	2.97	0.53
35:BB:124:G:C2	35:BB:380:G:C5	2.97	0.53
35:BB:386:G:C4	35:BB:387:G:C8	2.97	0.53
36:BC:115:G:N2	36:BC:116:C:C2	2.77	0.53
36:BC:11:G:C5	36:BC:12:A:C8	2.97	0.53
34:BA:398:G:N1	36:BC:30:U:N3	2.57	0.53
36:BC:4:G:C6	36:BC:5:U:C4	2.97	0.53
36:BC:88:A:H3'	36:BC:88:A:C8	2.44	0.53
38:BE:32:U:C6	38:BE:32:U:C3'	2.91	0.53
38:BE:41:C:C2	38:BE:42:C:C6	2.97	0.53
40:BG:17:A:C4	40:BG:18:U:C6	2.97	0.53
40:BG:31:G:N2	40:BG:32:U:C6	2.77	0.53
40:BG:40:G:C5	40:BG:41:U:C5	2.97	0.53
41:BH:29:G:C8	41:BH:29:G:C3'	2.88	0.53
41:BH:98:U:P	55:BV:63:LYS:C	2.87	0.53
58:BY:33:LEU:HD23	58:BY:34:THR:N	2.23	0.53
32:AY:3:LYS:HA	85:AA:2205:A:H4'	1.90	0.53
85:AA:376:C:C4	85:AA:423:G:C6	2.97	0.53
85:AA:446:C:C2	85:AA:447:C:C5	2.97	0.53
85:AA:506:G:N1	85:AA:534:A:C5	2.77	0.53
85:AA:638:G:C5	85:AA:652:U:C2	2.97	0.53
85:AA:681:G:C5	85:AA:687:G:C5	2.97	0.53
85:AA:87:C:N3	85:AA:88:G:C5	2.77	0.53
35:BB:869:G:H3'	35:BB:870:C:C5'	2.39	0.53
35:BB:521:U:H2'	35:BB:528:G:N2	2.24	0.53
24:AQ:65:THR:CG2	24:AQ:67:CYS:SG	2.97	0.53
34:BA:260:A:C2	34:BA:263:G:C2	2.96	0.53
34:BA:714:G:C6	34:BA:715:U:N3	2.77	0.53
85:AA:605:A:C8	85:AA:607:U:OP1	2.62	0.53
35:BB:1494:G:C6	35:BB:1495:U:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:186:U:C5	85:AA:187:C:C6	2.97	0.53
35:BB:1520:C:H42	35:BB:1547:U:H3	1.56	0.53
41:BH:17:A:C5	41:BH:18:C:C6	2.97	0.53
7:A6:106:ARG:O	7:A6:147:VAL:HG23	2.08	0.53
34:BA:1289:C:C5	34:BA:1290:A:C5	2.96	0.53
85:AA:2145:G:H1'	85:AA:2174:G:N1	2.24	0.53
85:AA:2175:U:N3	85:AA:2176:U:C4	2.77	0.53
85:AA:557:G:H1	85:AA:570:U:H3	1.57	0.53
85:AA:2057:G:C2	85:AA:2074:G:C5	2.97	0.53
85:AA:789:A:O5'	85:AA:790:A:H2'	2.09	0.53
85:AA:520:A:H5'	85:AA:522:A:OP1	2.09	0.53
85:AA:341:C:C2	85:AA:342:C:C6	2.97	0.53
34:BA:1120:U:C6	34:BA:1120:U:H3'	2.44	0.53
35:BB:1280:U:C4	35:BB:1281:G:C4	2.97	0.53
34:BA:244:A:C6	34:BA:245:U:C5	2.97	0.53
85:AA:1003:G:C6	85:AA:1004:G:C5	2.97	0.53
20:AL:55:THR:HG21	85:AA:1828:C:H4'	1.91	0.53
85:AA:1715:C:C2	85:AA:1849:A:C2	2.96	0.53
34:BA:836:U:C6	34:BA:837:U:C5	2.97	0.53
54:BU:79:PRO:CA	54:BU:84:THR:HG22	2.38	0.53
85:AA:1754:G:H5"	85:AA:1788:U:C2	2.44	0.53
49:BP:15:ILE:HB	49:BP:21:GLN:HA	1.91	0.53
11:AC:59:CYS:C	11:AC:200:ASN:HB3	2.29	0.53
58:BY:37:ARG:HG2	58:BY:39:LYS:HB2	1.90	0.53
34:BA:1009:G:C4	34:BA:1010:C:C6	2.97	0.52
34:BA:1177:C:N3	34:BA:1195:G:C2	2.77	0.52
34:BA:1574:C:H2'	34:BA:1575:U:C6	2.44	0.52
34:BA:20:A:C5	34:BA:21:C:C6	2.98	0.52
34:BA:219:U:C4	34:BA:220:U:C5	2.97	0.52
34:BA:236:A:H1'	34:BA:239:C:C5	2.43	0.52
34:BA:438:A:C2	34:BA:439:A:C4	2.98	0.52
34:BA:768:G:C2	34:BA:769:U:C4	2.96	0.52
35:BB:1447:U:H2'	35:BB:1448:U:C6	2.44	0.52
35:BB:1457:A:H2'	35:BB:1460:G:OP1	2.09	0.52
35:BB:16:G:C6	35:BB:17:U:C4	2.97	0.52
35:BB:62:C:C2	35:BB:63:A:N1	2.77	0.52
35:BB:680:A:O5'	35:BB:680:A:C8	2.62	0.52
36:BC:113:G:C6	36:BC:114:C:C4	2.97	0.52
36:BC:35:C:H2'	36:BC:36:G:C8	2.45	0.52
36:BC:43:A:C2	36:BC:44:A:C8	2.97	0.52
37:BD:106:G:C5	37:BD:107:G:N7	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:66:G:C5	37:BD:67:C:C5	2.96	0.52
37:BD:9:C:H3'	37:BD:10:C:C5	2.44	0.52
34:BA:938:C:O4'	38:BE:112:G:H5'	2.09	0.52
38:BE:130:G:C2	38:BE:131:C:C5	2.97	0.52
39:BF:18:U:H5	45:BL:141:ARG:NH2	142.41	0.52
39:BF:22:U:H6	39:BF:57:C:C2	2.27	0.52
40:BG:102:G:C6	40:BG:103:C:C4	2.98	0.52
40:BG:133:C:H2'	40:BG:134:U:O4'	2.08	0.52
40:BG:23:C:C6	40:BG:23:C:H3'	2.44	0.52
40:BG:44:G:C6	40:BG:67:A:C5	2.97	0.52
41:BH:26:C:O2	41:BH:28:U:H1'	2.09	0.52
35:BB:1124:G:C6	45:BL:64:PHE:CE1	2.98	0.52
34:BA:567:U:O5'	34:BA:567:U:H6	1.92	0.52
85:AA:1278:C:H3'	85:AA:1278:C:C6	2.44	0.52
35:BB:557:C:H2'	35:BB:558:U:C6	2.44	0.52
35:BB:846:A:C2	35:BB:967:G:H1'	2.44	0.52
35:BB:799:A:N6	35:BB:976:U:H5	2.08	0.52
29:AV:17:ARG:NH1	85:AA:1185:G:C8	2.77	0.52
85:AA:1130:G:N1	85:AA:1131:A:C4	2.77	0.52
85:AA:806:G:C6	85:AA:807:A:C5	2.97	0.52
85:AA:1581:C:N4	85:AA:2021:A:H61	2.07	0.52
85:AA:255:A:N1	85:AA:325:C:N3	2.57	0.52
85:AA:1702:G:C2	85:AA:1703:A:C5	2.96	0.52
85:AA:2174:G:C4	85:AA:2175:U:C5	2.96	0.52
7:A6:122:HIS:CE1	85:AA:548:G:H5'	2.44	0.52
32:AY:34:ALA:HB3	85:AA:546:U:C6	2.44	0.52
85:AA:2067:A:C5	85:AA:2069:A:C5	2.98	0.52
85:AA:717:G:C2	85:AA:784:C:C2	2.97	0.52
85:AA:801:U:H5	85:AA:802:A:C4	2.27	0.52
34:BA:780:U:H2'	34:BA:781:U:H4'	1.90	0.52
35:BB:1062:G:C5	35:BB:1063:C:C4	2.97	0.52
85:AA:404:A:C6	85:AA:405:C:C4	2.97	0.52
85:AA:1155:A:C5	85:AA:1156:A:C5	2.97	0.52
18:AJ:26:LEU:HD11	18:AJ:60:LYS:CB	2.37	0.52
85:AA:824:C:C2	85:AA:857:G:C2	2.96	0.52
85:AA:865:G:C2	85:AA:866:U:H1'	2.44	0.52
39:BF:49:C:H2'	39:BF:50:C:H6	1.73	0.52
34:BA:1122:G:N1	34:BA:1123:G:C4	2.76	0.52
35:BB:478:G:OP2	35:BB:478:G:C8	2.61	0.52
85:AA:1296:G:C6	85:AA:1297:G:C5	2.97	0.52
35:BB:442:U:C2	35:BB:444:U:C2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:630:A:H2'	35:BB:631:G:C8	2.44	0.52
35:BB:412:A:C2	35:BB:548:A:N7	2.77	0.52
35:BB:543:G:C4	35:BB:544:C:C6	2.97	0.52
34:BA:1692:U:H5"	34:BA:1693:U:P	2.49	0.52
34:BA:1583:A:C6	34:BA:1584:G:C6	2.97	0.52
85:AA:1947:A:C2'	85:AA:1948:A:H5'	2.39	0.52
11:AC:200:ASN:HD21	11:AC:202:ARG:HG2	1.72	0.52
85:AA:1378:U:H3	85:AA:1425:G:H1	1.56	0.52
2:A1:33:HIS:CE1	2:A1:140:ASP:HB2	2.44	0.52
34:BA:1033:G:C2	34:BA:1034:U:C6	2.97	0.52
34:BA:117:C:H4'	34:BA:148:G:N2	2.25	0.52
34:BA:1194:G:C2	34:BA:1195:G:C4	2.97	0.52
34:BA:1412:G:C2	34:BA:1413:G:C8	2.97	0.52
34:BA:1413:G:C5	34:BA:1414:C:C4	2.97	0.52
34:BA:1815:G:C6	34:BA:1816:G:C5	2.97	0.52
34:BA:1832:A:C6	34:BA:1833:G:C5	2.97	0.52
34:BA:1839:G:C2	35:BB:11:A:C2	2.98	0.52
34:BA:416:A:C2	36:BC:53:A:H1'	2.43	0.52
34:BA:53:G:H4'	50:BQ:175:HIS:CE1	2.44	0.52
34:BA:792:A:C6	34:BA:793:A:C6	2.96	0.52
34:BA:890:G:C5	34:BA:891:C:C4	2.97	0.52
34:BA:986:G:C5	34:BA:987:C:C5	2.98	0.52
35:BB:1362:G:C4	35:BB:1363:A:C8	2.97	0.52
35:BB:1449:G:C6	35:BB:1450:G:N7	2.77	0.52
35:BB:1464:G:C2	40:BG:24:A:H4'	2.45	0.52
35:BB:593:A:C5	35:BB:594:U:C5	2.97	0.52
35:BB:62:C:C5	35:BB:63:A:C5	2.97	0.52
36:BC:68:A:C4	36:BC:91:G:C2	2.98	0.52
38:BE:49:A:C6	38:BE:50:G:C6	2.98	0.52
39:BF:19:A:H2'	39:BF:20:U:C6	2.44	0.52
39:BF:69:A:C2	39:BF:70:A:C2	2.96	0.52
40:BG:15:G:C6	40:BG:16:G:N7	2.78	0.52
41:BH:60:A:C2'	41:BH:61:C:H4'	2.38	0.52
47:BN:12:HIS:H	47:BN:12:HIS:HD2	1.55	0.52
53:BT:117:ARG:HH21	53:BT:118:HIS:CE1	2.27	0.52
34:BA:562:C:H2'	34:BA:563:A:H5'	1.91	0.52
34:BA:563:A:O2'	34:BA:564:C:H5'	2.10	0.52
85:AA:146:U:H3'	85:AA:146:U:C6	2.43	0.52
85:AA:2127:G:C2	85:AA:2192:A:C4	2.97	0.52
85:AA:2195:A:H2'	85:AA:2196:G:N9	2.25	0.52
85:AA:35:U:O4	85:AA:544:A:C2	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AY:22:SER:H	85:AA:660:G:H5'	1.74	0.52
34:BA:608:G:C2	34:BA:609:G:C4	2.97	0.52
35:BB:803:U:OP2	35:BB:804:U:C5	2.63	0.52
35:BB:810:G:C6	35:BB:811:C:C4	2.96	0.52
34:BA:556:A:N7	34:BA:557:U:C5	2.76	0.52
35:BB:467:G:C5	35:BB:468:U:C4	2.98	0.52
85:AA:1129:A:C3'	85:AA:1130:G:H5"	2.39	0.52
34:BA:593:G:C4	34:BA:594:G:C4	2.96	0.52
85:AA:1917:G:N2	85:AA:1995:U:H3	1.98	0.52
85:AA:254:G:C4	85:AA:255:A:C8	2.97	0.52
35:BB:1544:A:C2	35:BB:1545:U:N1	2.78	0.52
41:BH:15:A:H3'	41:BH:16:A:C8	2.44	0.52
85:AA:1526:G:H2'	85:AA:1528:A:H8	1.74	0.52
85:AA:547:A:C2	85:AA:582:A:H1'	2.43	0.52
85:AA:1990:U:H2'	85:AA:1991:C:H5	1.74	0.52
85:AA:798:A:HO2'	85:AA:799:G:H8	1.56	0.52
40:BG:155:A:H2'	40:BG:156:G:C8	2.44	0.52
85:AA:419:A:C6	85:AA:420:C:C6	2.97	0.52
18:AJ:26:LEU:CD1	18:AJ:60:LYS:HB3	2.38	0.52
34:BA:531:C:H3'	34:BA:531:C:C6	2.44	0.52
19:AK:5:LYS:HB3	85:AA:1793:A:C8	2.44	0.52
12:AD:33:TRP:CE2	85:AA:1957:C:C6	2.97	0.52
34:BA:515:U:H1'	39:BF:3:A:N1	2.24	0.52
34:BA:1152:A:C4	44:BK:22:PHE:CE2	2.97	0.52
35:BB:630:A:H3'	35:BB:631:G:C8	2.43	0.52
85:AA:1890:C:H2'	85:AA:1891:U:C6	2.43	0.52
85:AA:770:C:C4	85:AA:771:A:C8	2.97	0.52
86:AB:66:U:H2'	86:AB:67:C:C6	2.45	0.52
35:BB:955:U:C5	35:BB:956:G:C5	2.97	0.52
21:AM:41:PHE:CG	21:AM:43:TYR:HA	2.43	0.52
47:BN:101:ARG:HG3	47:BN:101:ARG:HH11	1.74	0.52
52:BS:16:THR:HA	52:BS:57:HIS:CE1	2.44	0.52
85:AA:2167:A:C2	85:AA:2168:C:C6	2.97	0.52
34:BA:1025:A:C6	34:BA:1026:C:C4	2.98	0.52
34:BA:1300:G:C2	34:BA:1301:G:C5	2.97	0.52
34:BA:1555:G:C5	34:BA:1556:A:C6	2.97	0.52
34:BA:1566:G:C4	34:BA:1567:G:C5	2.97	0.52
34:BA:1673:G:C2	34:BA:1680:G:C2	2.98	0.52
34:BA:1815:G:C2	34:BA:1832:A:C4	2.96	0.52
34:BA:415:C:C4	34:BA:432:A:C6	2.97	0.52
34:BA:450:G:H3'	34:BA:451:A:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:699:G:C2	34:BA:700:G:C8	2.98	0.52
34:BA:753:G:C4	34:BA:754:G:C8	2.97	0.52
34:BA:78:U:C2	34:BA:79:C:C6	2.97	0.52
34:BA:749:G:C6	34:BA:888:G:C5	2.97	0.52
35:BB:1225:A:H1'	47:BN:192:LYS:HE3	1.91	0.52
34:BA:40:A:C2	35:BB:1260:A:C2	2.98	0.52
35:BB:411:A:C4	35:BB:413:A:C8	2.97	0.52
35:BB:413:A:N3	35:BB:414:C:C6	2.77	0.52
36:BC:125:A:C6	36:BC:139:A:N6	2.78	0.52
36:BC:125:A:C5	36:BC:126:G:C8	2.98	0.52
36:BC:22:U:C4	59:BZ:17:PHE:CD2	2.97	0.52
37:BD:93:G:C2'	37:BD:94:C:C6	2.92	0.52
38:BE:25:U:P	38:BE:25:U:C6	3.02	0.52
40:BG:41:U:N3	40:BG:69:G:C6	2.77	0.52
50:BQ:70:TYR:HE1	50:BQ:76:TYR:CD2	2.26	0.52
51:BR:137:THR:HB	51:BR:138:PRO:HD2	1.92	0.52
34:BA:1097:G:H4'	54:BU:14:LEU:CD1	2.39	0.52
85:AA:1484:G:C6	85:AA:1485:G:C6	2.96	0.52
85:AA:1501:A:C5	85:AA:1502:A:C2	2.97	0.52
85:AA:2187:G:C2	85:AA:2188:C:N1	2.78	0.52
85:AA:457:G:C2	85:AA:458:C:C6	2.98	0.52
85:AA:464:A:N9	85:AA:466:A:H1'	2.24	0.52
85:AA:636:G:C2	85:AA:658:C:C2	2.97	0.52
34:BA:655:U:H3'	34:BA:656:U:H4'	1.92	0.52
35:BB:545:C:C5	35:BB:572:G:C6	2.97	0.52
35:BB:545:C:N3	35:BB:572:G:H2'	2.24	0.52
35:BB:800:U:C4	35:BB:837:A:N1	2.77	0.52
35:BB:802:G:H5"	35:BB:804:U:OP1	2.09	0.52
35:BB:840:C:C2	35:BB:841:U:C5	2.98	0.52
35:BB:872:A:C2	35:BB:873:C:C6	2.98	0.52
35:BB:846:A:H2	35:BB:967:G:H1'	1.74	0.52
85:AA:1199:C:H2'	85:AA:1200:A:N9	2.24	0.52
85:AA:939:A:C8	85:AA:939:A:H3'	2.44	0.52
24:AQ:72:ASN:HB3	24:AQ:74:TRP:CH2	2.44	0.52
34:BA:259:C:C2	34:BA:260:A:C5	2.97	0.52
34:BA:972:C:H2'	34:BA:974:G:O4'	2.09	0.52
85:AA:210:G:C8	85:AA:242:G:H5"	2.44	0.52
35:BB:136:A:C6	35:BB:137:A:C5	2.97	0.52
35:BB:138:A:C3'	35:BB:139:G:C5'	2.81	0.52
85:AA:547:A:C6	85:AA:582:A:C2	2.97	0.52
85:AA:576:U:H2'	85:AA:577:U:C5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:576:U:C3'	85:AA:577:U:H5'	2.40	0.52
85:AA:2071:U:C2	85:AA:2072:G:C8	2.97	0.52
52:BS:121:HIS:N	52:BS:121:HIS:CD2	2.75	0.52
85:AA:1821:C:C4	85:AA:1822:G:C5	2.98	0.52
85:AA:368:C:C5	85:AA:368:C:OP2	2.63	0.52
35:BB:1015:U:C2	35:BB:1016:C:C6	2.97	0.52
85:AA:1261:U:C6	85:AA:1261:U:O5'	2.63	0.52
4:A3:173:ARG:HD3	4:A3:174:PHE:H	1.75	0.52
34:BA:1263:A:H3'	34:BA:1264:U:C5	2.44	0.52
49:BP:128:PHE:CZ	49:BP:140:HIS:HE1	2.26	0.52
34:BA:1095:G:C6	34:BA:1163:G:C5	2.97	0.52
39:BF:45:G:C2	39:BF:46:G:C4	2.98	0.52
85:AA:763:U:OP1	85:AA:764:U:C5	2.62	0.52
34:BA:1213:A:H2'	34:BA:1214:U:C6	2.44	0.52
34:BA:529:A:C2	34:BA:530:A:C4	2.96	0.52
7:A6:132:HIS:HE1	7:A6:157:PHE:CE1	2.24	0.52
34:BA:1118:C:H2'	34:BA:1119:A:C5'	2.38	0.52
44:BK:75:TYR:CE1	44:BK:150:GLU:CD	2.83	0.52
85:AA:1165:C:C5	85:AA:1166:C:C5	2.98	0.52
34:BA:721:A:C6	34:BA:722:A:C5	2.97	0.52
35:BB:1332:G:C4	35:BB:1403:G:C6	2.97	0.52
35:BB:773:G:C5	35:BB:774:C:C4	2.97	0.52
85:AA:1111:A:C4	85:AA:1212:C:C4	2.97	0.52
85:AA:1599:G:C2	85:AA:1600:G:C4	2.96	0.52
85:AA:1599:G:C6	85:AA:1600:G:C6	2.97	0.52
8:A7:195:HIS:CE1	8:A7:221:ARG:HH11	2.27	0.52
34:BA:736:G:C6	34:BA:901:C:C6	2.97	0.52
21:AM:41:PHE:CE2	21:AM:43:TYR:CD2	2.98	0.52
7:A6:80:HIS:CE1	7:A6:86:ASP:HA	2.44	0.52
85:AA:412:G:C2	85:AA:413:G:C4	2.97	0.52
7:A6:27:MET:SD	32:AY:44:TYR:CE1	3.02	0.52
59:BZ:24:ARG:NH1	59:BZ:75:TRP:CE2	2.77	0.52
6:A5:156:SER:C	6:A5:159:LYS:H	2.12	0.52
34:BA:1614:G:C6	34:BA:1634:A:C6	2.97	0.52
34:BA:1816:G:H2'	34:BA:1818:A:N9	2.25	0.52
34:BA:1841:A:C2	34:BA:1842:U:C2	2.98	0.52
34:BA:221:G:N1	34:BA:222:C:C2	2.78	0.52
34:BA:165:C:C5	34:BA:322:U:C2	2.98	0.52
34:BA:24:C:H4'	34:BA:392:A:C8	2.44	0.52
34:BA:470:C:H2'	34:BA:471:U:O4'	2.10	0.52
34:BA:591:G:OP2	34:BA:591:G:C8	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:774:A:H3'	34:BA:774:A:C8	2.45	0.52
34:BA:906:A:H4'	35:BB:1270:C:H4'	1.91	0.52
35:BB:1336:G:C6	35:BB:1337:C:C4	2.98	0.52
35:BB:404:A:C2	35:BB:410:A:C5	2.98	0.52
35:BB:3:C:H1'	35:BB:4:C:OP2	2.10	0.52
35:BB:658:G:H2'	35:BB:659:C:C6	2.43	0.52
35:BB:992:C:O5'	35:BB:992:C:C6	2.63	0.52
35:BB:99:G:C6	35:BB:100:A:C5	2.97	0.52
36:BC:145:G:C4	36:BC:146:U:C6	2.98	0.52
36:BC:64:U:H3	36:BC:95:A:H61	1.57	0.52
37:BD:77:A:N3	37:BD:100:A:C5	2.78	0.52
40:BG:31:G:C2	40:BG:174:G:N2	2.78	0.52
40:BG:54:G:C2	40:BG:58:G:C6	2.97	0.52
41:BH:35:G:H1	41:BH:119:U:H3	1.57	0.52
34:BA:744:G:N3	47:BN:6:ASN:HA	2.24	0.52
34:BA:893:U:C4	47:BN:6:ASN:ND2	2.78	0.52
49:BP:121:ALA:HB3	49:BP:122:TYR:CE2	2.45	0.52
34:BA:1297:G:N2	49:BP:20:ARG:HH22	2.07	0.52
34:BA:541:C:H2'	34:BA:542:A:O4'	2.09	0.52
85:AA:179:G:H2'	85:AA:180:A:C4	2.45	0.52
85:AA:22:A:N1	85:AA:678:A:C4	2.77	0.52
85:AA:635:G:N3	85:AA:659:A:C2	2.77	0.52
34:BA:662:U:C2	34:BA:663:U:C5	2.97	0.52
35:BB:546:A:H5'	35:BB:571:C:N4	2.25	0.52
85:AA:959:C:N3	85:AA:960:G:H1'	2.25	0.52
85:AA:701:C:C2	85:AA:1222:A:C2	2.98	0.52
35:BB:519:A:C2	35:BB:520:G:C4	2.98	0.52
85:AA:877:G:C5	85:AA:878:U:C5	2.97	0.52
85:AA:2006:G:C2	85:AA:2007:G:H1'	2.45	0.52
34:BA:1234:U:C4	34:BA:1235:C:C4	2.98	0.52
40:BG:152:G:C6	40:BG:153:C:C4	2.97	0.52
85:AA:703:U:H2'	85:AA:704:A:H5'	1.91	0.52
85:AA:722:G:C6	85:AA:779:G:N2	2.78	0.52
85:AA:916:A:C8	85:AA:917:A:C8	2.98	0.52
16:AH:59:ARG:NH1	85:AA:1152:U:H2'	2.25	0.52
85:AA:865:G:C6	85:AA:866:U:C2	2.97	0.52
39:BF:32:G:C4	39:BF:52:A:C8	2.98	0.52
85:AA:342:C:C5	85:AA:343:U:C2	2.98	0.52
34:BA:526:C:C2	34:BA:527:C:C6	2.97	0.52
34:BA:531:C:OP2	34:BA:532:C:H4'	2.09	0.52
34:BA:1151:A:C6	34:BA:1152:A:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:634:A:C2	35:BB:635:A:C5	2.97	0.52
35:BB:637:G:H3'	35:BB:638:G:H8	1.73	0.52
36:BC:112:G:C4	57:BX:111:ARG:CZ	2.93	0.52
35:BB:1427:A:H2'	35:BB:1428:C:C6	2.45	0.52
7:A6:158:ALA:HB3	7:A6:161:SER:CB	2.39	0.52
40:BG:116:G:N2	40:BG:117:C:H1'	2.24	0.52
35:BB:140:U:H2'	35:BB:141:G:C8	2.45	0.52
85:AA:1758:C:C5	85:AA:1784:G:N7	2.77	0.52
23:AP:240:TRP:CD2	23:AP:241:ALA:N	2.75	0.52
34:BA:126:G:C2	34:BA:127:U:C2	2.98	0.52
34:BA:1418:G:H3'	34:BA:1419:A:C8	2.45	0.52
34:BA:1531:G:N1	34:BA:1532:G:C5	2.77	0.52
34:BA:1673:G:C2	34:BA:1680:G:N3	2.78	0.52
34:BA:1736:A:C5	34:BA:1737:A:C8	2.98	0.52
34:BA:1790:U:OP2	34:BA:1790:U:C6	2.62	0.52
34:BA:1804:A:C6	34:BA:1807:G:C4	2.97	0.52
34:BA:209:A:N6	34:BA:224:G:C4	2.78	0.52
34:BA:172:A:C2	34:BA:316:G:C4	2.98	0.52
34:BA:418:G:H1'	34:BA:429:G:H1	1.74	0.52
34:BA:74:A:C2	34:BA:75:U:H1'	2.45	0.52
34:BA:918:U:H6	34:BA:918:U:O5'	1.92	0.52
34:BA:949:C:C2	34:BA:950:C:C6	2.98	0.52
35:BB:1244:U:H5"	53:BT:38:ARG:HB2	115.02	0.52
34:BA:38:G:C4	35:BB:1259:A:C6	2.98	0.52
35:BB:1341:U:H2'	35:BB:1342:C:C6	2.45	0.52
35:BB:1359:G:C4	35:BB:1360:A:C8	2.98	0.52
35:BB:489:A:H2'	35:BB:490:G:C8	2.45	0.52
36:BC:163:A:H2'	36:BC:164:G:C8	2.44	0.52
36:BC:48:A:C2	36:BC:51:A:C6	2.97	0.52
37:BD:49:A:H5"	37:BD:49:A:H8	1.74	0.52
38:BE:123:A:N1	38:BE:124:G:C4	2.77	0.52
38:BE:151:C:C4	38:BE:152:U:C4	2.98	0.52
38:BE:153:C:C4	38:BE:154:A:H1'	2.45	0.52
38:BE:154:A:H3'	38:BE:154:A:C8	2.45	0.52
40:BG:92:U:N3	40:BG:93:U:C4	2.77	0.52
41:BH:31:A:C6	41:BH:32:U:C5	2.97	0.52
41:BH:35:G:H3'	41:BH:36:C:H6	1.73	0.52
51:BR:111:LYS:C	51:BR:152:GLN:HE21	2.13	0.52
85:AA:698:G:C2	85:AA:1225:C:H1'	2.44	0.52
85:AA:130:G:C2	85:AA:141:A:C2	2.98	0.52
85:AA:27:U:O5'	85:AA:27:U:C6	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:37:U:C2	85:AA:542:G:C2	2.97	0.52
85:AA:517:A:C6	85:AA:518:A:H1'	2.44	0.52
26:AS:67:ARG:NE	85:AA:643:C:C5	2.78	0.52
85:AA:88:G:C6	85:AA:89:C:C4	2.98	0.52
34:BA:651:U:H2'	34:BA:652:C:H6	1.74	0.52
35:BB:556:U:N3	35:BB:557:C:C4	2.77	0.52
35:BB:866:A:N1	35:BB:867:C:C2	2.77	0.52
85:AA:959:C:C4	85:AA:960:G:C4	2.98	0.52
35:BB:1194:A:C6	35:BB:1195:A:C2	2.98	0.52
17:AI:130:TYR:CG	21:AM:121:HIS:HB2	2.43	0.52
34:BA:196:A:H2'	34:BA:197:A:C8	2.44	0.52
85:AA:1959:G:H22	85:AA:1978:G:H1	1.54	0.52
85:AA:186:U:C6	85:AA:187:C:C6	2.97	0.52
85:AA:2102:A:H5'	85:AA:2105:G:H4'	1.91	0.52
35:BB:1023:G:C2'	35:BB:1024:G:C8	2.92	0.52
85:AA:985:G:C6	85:AA:986:U:C4	2.97	0.52
85:AA:582:A:C2	85:AA:583:U:H1'	2.44	0.52
85:AA:1540:A:C4	85:AA:1541:G:H1'	2.44	0.52
85:AA:794:A:H2	85:AA:800:A:HO2'	1.58	0.52
85:AA:801:U:H5'	85:AA:802:A:OP2	2.09	0.52
35:BB:1066:G:C6	35:BB:1067:G:C5	2.98	0.52
34:BA:1334:G:N7	34:BA:1335:A:C8	2.77	0.52
34:BA:1409:A:C5	34:BA:1410:C:C5	2.97	0.52
85:AA:431:G:H2'	85:AA:432:A:C8	2.44	0.52
33:AZ:78:ARG:NH1	33:AZ:99:ALA:HB2	2.22	0.52
85:AA:341:C:N3	85:AA:342:C:C5	2.77	0.52
34:BA:1139:G:C2	34:BA:1140:A:C8	2.97	0.52
85:AA:1792:C:H3'	85:AA:1793:A:H5'	1.91	0.52
85:AA:1001:G:C4	85:AA:1002:G:C8	2.96	0.52
85:AA:1009:G:H2'	85:AA:1010:U:C5	2.45	0.52
85:AA:1296:G:C4	85:AA:1297:G:C8	2.97	0.52
34:BA:1646:U:C4	34:BA:1647:G:C2	2.98	0.52
85:AA:1955:U:C4	85:AA:1956:C:C6	2.98	0.52
35:BB:643:G:C4	35:BB:644:A:C5	2.98	0.52
35:BB:396:C:C2	35:BB:397:C:C6	2.97	0.52
1:A0:199:LEU:HD22	1:A0:212:LEU:HD21	1.92	0.52
4:A3:39:GLY:HA3	4:A3:51:PHE:CE1	2.44	0.52
12:AD:10:ARG:HA	12:AD:52:LEU:HD21	1.91	0.52
28:AU:44:ASN:HD22	28:AU:77:ILE:C	2.12	0.52
29:AV:100:TYR:CD1	85:AA:2249:U:H5'	2.44	0.52
85:AA:2162:G:C6	85:AA:2163:G:C5	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2153:G:N1	85:AA:2166:G:C6	2.77	0.52
34:BA:110:C:H42	34:BA:111:U:H6	1.54	0.52
34:BA:1186:U:C6	34:BA:1187:U:O4'	2.63	0.52
34:BA:10:G:H2'	34:BA:11:U:H5"	1.92	0.52
34:BA:1293:A:C8	34:BA:1295:U:C5	2.98	0.52
34:BA:1461:A:C4	34:BA:1462:U:C5	2.98	0.52
34:BA:154:A:C6	34:BA:155:U:N1	2.78	0.52
34:BA:1572:G:C5	34:BA:1573:C:C5	2.98	0.52
34:BA:1599:A:OP2	34:BA:1600:G:C8	2.62	0.52
34:BA:1603:A:N3	35:BB:33:A:C2	2.77	0.52
34:BA:1642:A:C6	34:BA:1643:U:C4	2.98	0.52
34:BA:248:G:C5	34:BA:437:G:H2'	2.45	0.52
34:BA:183:G:C6	34:BA:306:G:C6	2.97	0.52
34:BA:320:G:C6	34:BA:321:G:C6	2.97	0.52
34:BA:33:C:C5	34:BA:34:U:C6	2.98	0.52
34:BA:367:G:C6	50:BQ:196:HIS:CG	2.97	0.52
34:BA:503:C:C2	34:BA:700:G:C2	2.97	0.52
34:BA:791:A:C8	34:BA:792:A:C8	2.97	0.52
34:BA:799:A:OP2	34:BA:800:G:H4'	2.09	0.52
34:BA:827:A:C4	34:BA:841:G:C2	2.97	0.52
35:BB:1292:G:C4	35:BB:1293:C:C5	2.98	0.52
35:BB:130:G:C6	35:BB:374:A:C5	2.98	0.52
35:BB:486:G:C2	35:BB:495:A:C2	2.98	0.52
35:BB:620:G:C2	35:BB:621:C:H1'	2.45	0.52
37:BD:3:G:C5	37:BD:4:U:C5	2.98	0.52
37:BD:51:G:C6	37:BD:52:U:C4	2.98	0.52
38:BE:85:G:C6	38:BE:86:C:H1'	2.45	0.52
35:BB:1452:U:C2	40:BG:171:A:N1	2.77	0.52
40:BG:22:G:H4'	40:BG:23:C:H5'	1.90	0.52
40:BG:80:G:H5"	58:BY:19:ARG:HH11	1.74	0.52
34:BA:564:C:H5	34:BA:565:U:C2	2.28	0.52
85:AA:1226:A:C4	85:AA:1227:A:C8	2.97	0.52
85:AA:1497:U:C2	85:AA:1505:G:C2	2.98	0.52
85:AA:512:U:H2'	85:AA:513:G:O4'	2.09	0.52
35:BB:812:G:N2	35:BB:813:C:H1'	2.25	0.52
35:BB:839:G:C2	35:BB:840:C:C1'	2.93	0.52
85:AA:1124:G:H1'	85:AA:1186:C:H4'	1.92	0.52
34:BA:945:A:N7	85:AA:702:G:H4'	2.25	0.52
85:AA:1173:A:C2	85:AA:1174:G:C2	2.97	0.52
85:AA:1197:U:C4	85:AA:1198:U:C4	2.97	0.52
85:AA:933:U:H2'	85:AA:934:A:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:519:G:C5'	34:BA:520:G:C5	2.92	0.52
34:BA:680:C:H4'	34:BA:681:G:H8	1.70	0.52
85:AA:1928:A:H62	85:AA:1978:G:H2'	1.74	0.52
85:AA:1912:U:H2'	85:AA:1913:G:H5'	1.91	0.52
85:AA:1916:A:C4	85:AA:1917:G:C8	2.98	0.52
85:AA:593:U:C5	85:AA:594:C:C4	2.97	0.52
27:AT:67:PHE:HD1	85:AA:593:U:H4'	1.73	0.52
85:AA:242:G:H2'	85:AA:243:A:C2	2.45	0.52
85:AA:1289:U:C2	85:AA:1290:G:H1'	2.44	0.52
85:AA:1450:U:H3'	85:AA:1451:U:C5	2.45	0.52
85:AA:2227:A:C6	85:AA:2237:G:C6	2.98	0.52
85:AA:309:G:C6	85:AA:317:A:C5	2.98	0.52
85:AA:2146:G:C2	85:AA:2171:A:C5	2.97	0.52
34:BA:1343:A:H1'	40:BG:144:G:C2	2.45	0.52
16:AH:35:VAL:O	16:AH:48:LYS:HA	2.10	0.52
39:BF:33:C:C6	39:BF:34:C:O2'	2.62	0.52
34:BA:1122:G:C8	34:BA:1139:G:N2	2.77	0.52
34:BA:230:A:C2	34:BA:246:G:C2	2.98	0.52
85:AA:1247:A:H2'	85:AA:1248:U:C5'	2.40	0.52
86:AB:1:G:C6	86:AB:73:A:C6	2.97	0.52
34:BA:690:G:C1'	34:BA:691:A:C2	2.93	0.52
34:BA:144:C:H3'	34:BA:145:U:C5'	2.40	0.52
22:AO:58:HIS:H	22:AO:58:HIS:CD2	2.27	0.52
44:BK:89:ILE:HA	44:BK:136:LEU:HG	1.91	0.52
85:AA:386:G:H3'	85:AA:387:U:C5'	2.37	0.52
23:AP:167:LYS:HA	23:AP:179:LEU:O	2.09	0.52
35:BB:405:U:C4	35:BB:409:U:C4	2.98	0.52
59:BZ:51:ASP:CG	59:BZ:107:LYS:H	2.12	0.52
34:BA:1285:G:N2	34:BA:1286:C:H1'	2.25	0.52
34:BA:211:C:C2	34:BA:212:A:C8	2.97	0.52
34:BA:23:A:C6	34:BA:24:C:C2	2.97	0.52
34:BA:183:G:C2	34:BA:306:G:C4	2.97	0.52
34:BA:183:G:C2	34:BA:306:G:C5	2.97	0.52
34:BA:334:G:C6	34:BA:335:C:C4	2.98	0.52
34:BA:480:G:C4	34:BA:481:A:C4	2.97	0.52
34:BA:731:A:C6	34:BA:732:A:C6	2.97	0.52
34:BA:859:G:C5	34:BA:860:G:C8	2.98	0.52
34:BA:939:C:C2	34:BA:940:C:C5	2.98	0.52
35:BB:1121:A:O4'	45:BL:112:GLY:HA3	2.09	0.52
35:BB:1145:G:C4	35:BB:1146:C:C5	2.98	0.52
35:BB:1219:A:H2'	35:BB:1220:A:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:426:A:H2'	35:BB:445:G:H22	1.73	0.52
36:BC:125:A:N3	36:BC:139:A:C2	2.78	0.52
36:BC:160:C:N3	36:BC:161:U:C5	2.77	0.52
36:BC:24:G:C4	36:BC:25:C:C4	2.98	0.52
38:BE:152:U:C6	38:BE:152:U:H5"	2.45	0.52
38:BE:160:C:C4	53:BT:43:LYS:HA	2.45	0.52
38:BE:209:U:C5	38:BE:210:G:C4	2.97	0.52
38:BE:23:G:N1	38:BE:197:A:C6	2.78	0.52
38:BE:48:G:H5"	55:BV:111:ALA:HB3	1.92	0.52
39:BF:64:U:H4'	48:BO:208:MET:SD	2.50	0.52
40:BG:9:G:N2	40:BG:10:U:C2	2.78	0.52
40:BG:165:C:C2	40:BG:166:C:C5	2.97	0.52
40:BG:175:G:N1	40:BG:176:G:C5	2.78	0.52
40:BG:19:C:C2	40:BG:20:U:C6	2.98	0.52
35:BB:1463:A:H4'	40:BG:23:C:H5	1.72	0.52
40:BG:46:G:C5	40:BG:47:G:C8	2.97	0.52
41:BH:58:C:H2'	41:BH:59:G:C8	2.45	0.52
34:BA:846:U:H5'	42:BI:73:ARG:NH2	2.25	0.52
44:BK:139:ARG:HD3	44:BK:173:PHE:CD2	2.44	0.52
34:BA:464:U:C6	51:BR:3:HIS:CE1	2.97	0.52
34:BA:1412:G:N3	52:BS:116:HIS:CE1	2.78	0.52
85:AA:138:C:C2	85:AA:139:G:C8	2.97	0.52
85:AA:332:A:C5	85:AA:334:A:N6	2.78	0.52
27:AT:126:GLY:H	85:AA:83:U:H5'	1.75	0.52
56:BW:93:THR:HA	58:BY:20:ARG:CZ	2.39	0.52
35:BB:818:U:H1'	35:BB:822:G:H1	1.75	0.52
35:BB:823:G:C6	35:BB:824:C:C5	2.98	0.52
85:AA:1120:G:C4	85:AA:1206:A:C2	2.98	0.52
85:AA:708:G:C6	85:AA:1215:A:C6	2.98	0.52
85:AA:877:G:C2	85:AA:878:U:H1'	2.45	0.52
85:AA:2013:A:C4	85:AA:2014:G:C8	2.98	0.52
85:AA:2020:C:C4	85:AA:2021:A:C6	2.98	0.52
34:BA:194:G:C5	34:BA:195:G:C5	2.98	0.52
34:BA:290:G:C2	34:BA:291:C:C6	2.98	0.52
34:BA:1243:A:H3'	34:BA:1245:C:H6	1.75	0.52
34:BA:974:G:C6	34:BA:975:A:C8	2.97	0.52
35:BB:1092:G:C6	35:BB:1093:C:C4	2.98	0.52
35:BB:1493:A:N1	35:BB:1494:G:C5	2.77	0.52
35:BB:362:A:H3'	35:BB:363:A:H4'	1.90	0.52
85:AA:1457:C:C5	85:AA:1458:G:C4	2.97	0.52
85:AA:1678:U:N3	85:AA:1679:U:C5	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:313:A:C2	85:AA:313:A:H2'	2.44	0.52
85:AA:2178:A:C6	85:AA:2179:C:C5	2.98	0.52
85:AA:272:C:C4	85:AA:273:C:C4	2.97	0.52
85:AA:985:G:C5	85:AA:986:U:C5	2.97	0.52
3:A2:44:LYS:CA	85:AA:2082:C:C5	2.92	0.52
85:AA:119:G:H2'	85:AA:120:C:O4'	2.10	0.52
85:AA:395:G:C5	85:AA:396:U:C5	2.97	0.52
35:BB:1000:U:C4	35:BB:1001:G:C8	2.98	0.52
35:BB:1002:G:N2	35:BB:1017:U:H1'	2.25	0.52
35:BB:998:G:C2	35:BB:1021:C:C2	2.97	0.52
85:AA:78:A:C2	85:AA:79:G:H1'	2.44	0.52
34:BA:1378:A:C2	34:BA:1379:G:C8	2.98	0.52
85:AA:864:C:C6	85:AA:864:C:H3'	2.45	0.52
85:AA:264:A:H61	85:AA:865:G:N2	2.08	0.52
39:BF:33:C:C5	39:BF:52:A:N1	2.78	0.52
23:AP:139:MET:HG2	23:AP:140:ILE:N	2.24	0.52
35:BB:479:U:H2'	35:BB:480:C:C6	2.44	0.52
44:BK:21:ARG:CZ	44:BK:22:PHE:CE2	2.93	0.52
35:BB:1482:A:C4	35:BB:1483:A:C8	2.98	0.52
85:AA:1809:G:H3'	85:AA:1809:G:C8	2.44	0.52
35:BB:1490:G:C6	35:BB:1491:G:C4	2.98	0.52
35:BB:736:G:C5	35:BB:737:C:C4	2.97	0.52
4:A3:28:LEU:HD13	4:A3:41:ILE:HG12	1.91	0.52
85:AA:1556:G:H2'	85:AA:1557:U:C6	2.45	0.52
49:BP:94:ARG:HA	49:BP:97:ARG:NE	2.24	0.52
52:BS:16:THR:HA	52:BS:57:HIS:HE1	1.75	0.52
85:AA:307:G:C8	85:AA:307:G:H3'	2.45	0.52
31:AX:101:ALA:HB2	31:AX:170:ALA:HB3	1.90	0.52
4:A3:210:ARG:HH22	4:A3:211:GLU:CD	2.11	0.52
34:BA:1057:C:N4	34:BA:1063:G:C6	2.78	0.52
34:BA:1162:U:O5'	34:BA:1162:U:C6	2.63	0.52
34:BA:1513:G:C2	34:BA:1514:A:C4	2.98	0.52
34:BA:1527:G:C6	34:BA:1528:U:C5	2.98	0.52
34:BA:1547:G:C6	34:BA:1549:U:O4	2.62	0.52
34:BA:1555:G:C4	34:BA:1556:A:C5	2.98	0.52
34:BA:1603:A:C5	35:BB:33:A:C6	2.97	0.52
34:BA:1707:C:C2	34:BA:1708:A:C8	2.97	0.52
34:BA:1831:A:H4'	34:BA:1833:G:H5'	1.90	0.52
34:BA:131:A:N1	34:BA:184:C:H5"	2.25	0.52
34:BA:242:U:H2'	34:BA:243:C:C6	2.45	0.52
34:BA:477:C:H2'	34:BA:478:G:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:743:A:C6	34:BA:894:G:N1	2.78	0.52
34:BA:774:A:N7	34:BA:775:C:C5	2.78	0.52
34:BA:775:C:N4	34:BA:776:U:C4	2.78	0.52
34:BA:802:G:C2	34:BA:803:U:C2	2.98	0.52
34:BA:804:G:C6	34:BA:805:A:C2	2.98	0.52
34:BA:86:A:C5	34:BA:97:A:C5	2.98	0.52
35:BB:1048:A:C6	35:BB:1049:G:C5	2.97	0.52
35:BB:1138:A:H2'	35:BB:1139:A:O4'	2.10	0.52
35:BB:1311:G:C6	35:BB:1312:U:C4	2.98	0.52
35:BB:134:G:N1	35:BB:135:C:C2	2.77	0.52
35:BB:124:G:C4	35:BB:380:G:C6	2.97	0.52
35:BB:482:A:H2'	35:BB:483:C:H5'	1.92	0.52
35:BB:110:U:C5	35:BB:587:A:H1'	2.45	0.52
35:BB:68:G:C2	35:BB:69:A:N1	2.78	0.52
36:BC:147:G:C6	36:BC:148:C:C4	2.98	0.52
38:BE:93:U:C2	38:BE:128:G:C2	2.98	0.52
38:BE:13:A:C6	38:BE:14:C:C4	2.97	0.52
40:BG:24:A:C2'	40:BG:182:G:H21	2.23	0.52
41:BH:116:A:C3'	41:BH:117:U:H2'	2.39	0.52
44:BK:49:CYS:H	44:BK:178:ARG:NH1	2.08	0.52
44:BK:35:ASP:OD1	44:BK:86:HIS:CE1	2.62	0.52
85:AA:177:A:C2	85:AA:178:U:O2	2.63	0.52
85:AA:372:U:O4	85:AA:373:G:C5	2.63	0.52
85:AA:474:C:C4	85:AA:475:A:C5	2.98	0.52
34:BA:608:G:C8	34:BA:608:G:OP2	2.62	0.52
35:BB:839:G:H4'	35:BB:1025:A:C2	2.44	0.52
35:BB:846:A:H3'	35:BB:847:U:C6	2.45	0.52
29:AV:17:ARG:HA	85:AA:1186:C:N4	2.25	0.52
85:AA:702:G:H3'	85:AA:1218:C:H42	1.75	0.52
35:BB:1161:G:C8	35:BB:1163:U:N3	2.78	0.52
21:AM:38:GLY:HA2	85:AA:2033:C:H5'	1.92	0.52
34:BA:682:A:C8	34:BA:682:A:C5'	2.93	0.52
22:AO:132:LYS:HD2	22:AO:138:HIS:CE1	2.45	0.52
85:AA:245:A:C2	85:AA:246:C:C2	2.97	0.52
85:AA:1293:U:C2	85:AA:1294:U:H1'	2.45	0.52
85:AA:1519:A:C2	85:AA:1520:A:C4	2.98	0.52
85:AA:552:C:H2'	85:AA:553:G:H8	1.74	0.52
85:AA:562:C:O2	85:AA:564:A:H3'	2.09	0.52
85:AA:576:U:H3'	85:AA:577:U:H5'	1.92	0.52
85:AA:581:A:C6	85:AA:613:G:C6	2.98	0.52
85:AA:1578:G:N7	85:AA:2062:U:C2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:713:G:H3'	85:AA:714:U:H5'	1.90	0.52
34:BA:1341:A:C4	34:BA:1404:A:C2	2.97	0.52
85:AA:522:A:H5"	85:AA:523:U:H3'	1.92	0.52
85:AA:818:C:C5	85:AA:863:C:O2	2.62	0.52
85:AA:822:U:C2	85:AA:859:G:C2	2.97	0.52
35:BB:554:C:C5	35:BB:565:U:C5	2.97	0.52
34:BA:585:G:N2	34:BA:587:U:C5	2.78	0.52
34:BA:587:U:H2'	34:BA:588:C:C6	2.44	0.52
19:AK:70:ARG:N	85:AA:1792:C:H2'	2.25	0.52
85:AA:1001:G:H2'	85:AA:1002:G:O4'	2.10	0.52
85:AA:1094:G:C6	85:AA:1095:C:C4	2.98	0.52
27:AT:83:TYR:N	27:AT:83:TYR:CD1	2.76	0.52
35:BB:1174:C:C2	35:BB:1176:G:C2	2.97	0.52
1:A0:116:LEU:HD21	1:A0:118:LYS:HG3	1.92	0.52
86:AB:52:G:C2	86:AB:63:G:C4	2.98	0.52
34:BA:1219:G:N7	34:BA:1220:C:C5	2.78	0.52
6:A5:159:LYS:HA	6:A5:162:TRP:HE1	1.75	0.52
7:A6:159:ASP:HA	7:A6:164:GLY:HA3	1.91	0.52
11:AC:126:PHE:CZ	11:AC:215:ALA:HA	2.45	0.52
48:BO:113:GLY:O	48:BO:116:ALA:HB3	2.10	0.52
19:AK:146:LYS:HG2	19:AK:148:TYR:H	1.74	0.52
23:AP:67:PHE:CD2	23:AP:249:PRO:HD3	2.44	0.52
85:AA:2152:C:H2'	85:AA:2153:G:C8	2.44	0.52
58:BY:79:THR:HG22	85:AA:2163:G:O3'	2.10	0.52
34:BA:1049:G:C5	34:BA:1516:G:C6	2.98	0.52
34:BA:1063:G:H5"	34:BA:1228:G:H22	1.74	0.52
34:BA:1150:A:C6	34:BA:1153:C:C2	2.98	0.52
34:BA:1158:A:C6	34:BA:1159:A:C5	2.97	0.52
34:BA:1170:A:C2	34:BA:1171:C:C4	2.98	0.52
34:BA:1415:C:H2'	34:BA:1416:C:C6	2.45	0.52
34:BA:1456:C:H2'	34:BA:1457:C:C6	2.45	0.52
34:BA:1484:A:C6	34:BA:1502:G:C6	2.97	0.52
34:BA:1547:G:C4	34:BA:1562:G:C6	2.98	0.52
34:BA:1547:G:C2	34:BA:1549:U:C5	2.98	0.52
34:BA:1648:G:C2	35:BB:42:A:C8	2.98	0.52
34:BA:1735:G:C2	34:BA:1790:U:C2	2.98	0.52
34:BA:1729:G:C6	34:BA:1794:A:N7	2.76	0.52
34:BA:210:G:H2'	34:BA:211:C:H6	1.75	0.52
34:BA:419:U:OP2	34:BA:429:G:C2	2.62	0.52
34:BA:69:C:C2	34:BA:71:G:C5	2.97	0.52
34:BA:917:C:H3'	34:BA:918:U:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:102:G:C2	35:BB:121:A:C2	2.97	0.52
35:BB:1353:G:C2	35:BB:1354:C:C5	2.97	0.52
35:BB:456:A:C8	35:BB:456:A:H3'	2.44	0.52
35:BB:658:G:C6	35:BB:659:C:N3	2.77	0.52
35:BB:695:U:H2'	35:BB:696:G:C8	2.45	0.52
35:BB:898:U:H2'	35:BB:899:C:C6	2.45	0.52
36:BC:117:A:C5	36:BC:147:G:N1	2.77	0.52
37:BD:79:G:H1	37:BD:97:U:H3	1.58	0.52
38:BE:119:U:O5'	38:BE:119:U:H6	1.92	0.52
38:BE:21:C:C2'	38:BE:23:G:C8	2.92	0.52
38:BE:58:U:H2'	38:BE:59:U:C6	2.45	0.52
40:BG:129:G:C4	40:BG:162:A:N1	2.78	0.52
41:BH:39:G:C2	41:BH:113:G:N1	2.78	0.52
44:BK:43:VAL:HG11	44:BK:197:VAL:CG1	2.40	0.52
34:BA:772:G:C8	47:BN:34:PRO:CD	2.92	0.52
34:BA:1640:G:H4'	53:BT:23:TRP:NE1	2.25	0.52
85:AA:1224:C:C4	85:AA:1225:C:C5	2.98	0.52
85:AA:1484:G:C6	85:AA:1485:G:O6	2.63	0.52
85:AA:2130:G:N1	85:AA:2131:C:C2	2.78	0.52
85:AA:28:A:N1	85:AA:29:U:C2	2.78	0.52
85:AA:371:C:N4	85:AA:372:U:C4	2.78	0.52
85:AA:620:U:C2	85:AA:667:A:C2	2.98	0.52
85:AA:63:G:C6	85:AA:64:A:N7	2.77	0.52
35:BB:839:G:C5	35:BB:840:C:C6	2.98	0.52
85:AA:1204:A:C6	85:AA:1205:U:C4	2.98	0.52
35:BB:1187:G:C5	35:BB:1188:A:C8	2.97	0.52
85:AA:1132:A:C2	85:AA:1133:C:H1'	2.45	0.52
85:AA:1563:U:C5	85:AA:1564:U:C5	2.98	0.52
85:AA:1583:U:H2'	85:AA:1584:U:C4	2.45	0.52
85:AA:2013:A:H2'	85:AA:2013:A:N3	2.24	0.52
34:BA:605:G:O6	34:BA:606:G:C6	2.63	0.52
34:BA:1038:U:C4	34:BA:1039:G:C8	2.97	0.52
35:BB:1493:A:C4	35:BB:1494:G:C8	2.97	0.52
85:AA:192:G:C2	85:AA:247:G:C2	2.97	0.52
35:BB:1522:G:C2	35:BB:1523:U:C6	2.98	0.52
35:BB:1544:A:C2	35:BB:1545:U:C2	2.97	0.52
85:AA:1705:G:N3	85:AA:1705:G:H2'	2.25	0.52
85:AA:309:G:C5	85:AA:317:A:C6	2.98	0.52
34:BA:2:A:C2	36:BC:169:G:C4	2.98	0.52
85:AA:610:C:C4	85:AA:611:G:N7	2.78	0.52
34:BA:1343:A:C2	40:BG:144:G:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BS:8:HIS:CD2	52:BS:32:PHE:CD2	2.97	0.52
52:BS:8:HIS:CE1	52:BS:30:GLU:HB3	2.45	0.52
85:AA:1261:U:O5'	85:AA:1261:U:H6	1.93	0.52
34:BA:573:U:O3'	34:BA:1448:G:H4'	2.10	0.52
85:AA:814:G:N2	85:AA:818:C:C6	2.78	0.52
34:BA:999:G:C4	34:BA:1000:G:C8	2.98	0.52
39:BF:36:G:N2	39:BF:48:G:C4	2.78	0.52
85:AA:744:C:C2	85:AA:766:G:C4	2.98	0.52
34:BA:584:A:H2'	34:BA:585:G:C8	2.45	0.52
16:AH:21:TYR:CE1	16:AH:87:HIS:HE1	2.28	0.52
35:BB:1481:C:C4	35:BB:1482:A:C6	2.98	0.52
35:BB:1056:A:H2'	35:BB:1057:G:C8	2.45	0.52
35:BB:630:A:C4	35:BB:643:G:C6	2.97	0.52
35:BB:709:G:H1'	35:BB:773:G:N2	2.25	0.52
35:BB:773:G:H2'	35:BB:774:C:C6	2.45	0.52
34:BA:921:G:C6	34:BA:1003:A:C5	2.97	0.52
34:BA:1080:U:H2'	34:BA:1081:U:H5"	1.90	0.52
1:A0:135:TYR:HB3	1:A0:137:LEU:HD21	1.90	0.52
35:BB:163:G:H1	35:BB:259:U:H3	1.57	0.52
23:AP:118:ASN:O	23:AP:120:HIS:CE1	2.62	0.52
34:BA:1108:U:O5'	34:BA:1108:U:H6	1.93	0.52
34:BA:12:G:C4	34:BA:13:U:C6	2.97	0.52
34:BA:133:A:H3'	34:BA:134:U:C6	2.44	0.52
34:BA:1457:C:O5'	34:BA:1457:C:C6	2.63	0.52
34:BA:1482:A:C6	34:BA:1483:U:C4	2.98	0.52
34:BA:1529:G:O6	34:BA:1530:G:C6	2.63	0.52
34:BA:1551:G:C5	34:BA:1552:C:C5	2.98	0.52
34:BA:1599:A:C8	34:BA:1599:A:OP2	2.63	0.52
34:BA:161:U:C5'	34:BA:161:U:H6	2.23	0.52
34:BA:1659:G:C8	34:BA:1660:A:C2	2.98	0.52
34:BA:1734:U:C3'	34:BA:1735:G:H5'	2.40	0.52
34:BA:114:U:H3'	34:BA:327:G:H21	1.75	0.52
34:BA:333:A:H3'	34:BA:334:G:H8	1.74	0.52
34:BA:817:U:C2	34:BA:854:A:C2	2.98	0.52
34:BA:825:G:C2	34:BA:826:C:C6	2.98	0.52
34:BA:841:G:C5	34:BA:842:U:C6	2.98	0.52
34:BA:953:G:N1	34:BA:954:U:C2	2.78	0.52
34:BA:994:G:O2'	34:BA:996:U:H5'	2.10	0.52
35:BB:1105:G:H5'	35:BB:1201:G:H21	1.74	0.52
35:BB:1311:G:C6	35:BB:1312:U:C2	2.98	0.52
35:BB:1450:G:C5	35:BB:1451:C:C4	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:490:G:H2'	35:BB:491:A:C8	2.45	0.52
36:BC:125:A:C2	36:BC:126:G:N9	2.78	0.52
34:BA:6:C:H1'	36:BC:166:G:N2	2.25	0.52
37:BD:94:C:O2	37:BD:95:G:C5	2.63	0.52
38:BE:153:C:H5"	38:BE:154:A:C8	2.44	0.52
38:BE:161:G:C5	38:BE:162:U:C4	2.98	0.52
38:BE:203:C:C6	38:BE:203:C:C3'	2.93	0.52
38:BE:32:U:C6	38:BE:32:U:O5'	2.63	0.52
40:BG:163:G:H3'	40:BG:164:U:C5	2.45	0.52
40:BG:176:G:C2	40:BG:177:U:C2	2.98	0.52
40:BG:17:A:C2	40:BG:18:U:C2	2.98	0.52
41:BH:39:G:C5	41:BH:40:C:C5	2.98	0.52
45:BL:91:LEU:HB3	45:BL:96:PHE:CD1	2.45	0.52
39:BF:23:G:C2	48:BO:131:VAL:HG22	2.45	0.52
51:BR:121:GLN:O	51:BR:145:HIS:CE1	2.63	0.52
53:BT:102:LEU:O	53:BT:105:LEU:HB3	2.09	0.52
53:BT:63:TRP:CE3	53:BT:67:LYS:CE	2.93	0.52
85:AA:354:C:H2'	85:AA:355:G:H5'	1.92	0.52
85:AA:444:U:OP2	85:AA:444:U:H6	1.92	0.52
85:AA:452:A:H3'	85:AA:467:U:C4	2.45	0.52
85:AA:493:A:H4'	85:AA:504:U:C5	2.44	0.52
85:AA:517:A:H2'	85:AA:518:A:O4'	2.09	0.52
85:AA:91:U:OP1	85:AA:91:U:H4'	2.09	0.52
34:BA:610:A:C2	34:BA:670:U:O2	2.63	0.52
85:AA:1184:A:C2	85:AA:1185:G:C8	2.98	0.52
35:BB:516:G:C6	35:BB:517:G:C5	2.98	0.52
85:AA:1128:G:C2	85:AA:1129:A:C4	2.97	0.52
34:BA:196:A:C6	34:BA:197:A:C6	2.97	0.52
85:AA:589:A:C6	85:AA:608:A:H1'	2.45	0.52
35:BB:1541:G:C6	35:BB:1542:C:C4	2.98	0.52
85:AA:1466:U:C2'	85:AA:1467:U:H5"	2.40	0.52
10:A9:93:HIS:CG	85:AA:1622:G:N2	2.78	0.52
85:AA:983:A:C8	85:AA:983:A:O5'	2.63	0.52
35:BB:1003:G:C4	35:BB:1004:A:C8	2.98	0.52
85:AA:338:G:C2	85:AA:339:A:C4	2.98	0.52
34:BA:1134:A:C6	34:BA:1135:U:N3	2.78	0.52
34:BA:1399:A:C6	34:BA:1400:A:C5	2.98	0.52
34:BA:230:A:C2	34:BA:231:U:C4	2.98	0.52
85:AA:1252:A:H2'	85:AA:1253:G:OP2	2.10	0.52
85:AA:1003:G:C2	85:AA:1004:G:C4	2.97	0.52
86:AB:1:G:C5	86:AB:73:A:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1830:U:H2'	85:AA:1831:U:C6	2.45	0.52
35:BB:584:A:C5	35:BB:585:U:C5	2.97	0.52
5:A4:188:PHE:CD2	5:A4:188:PHE:N	2.78	0.52
85:AA:770:C:H3'	85:AA:771:A:H5"	1.92	0.52
35:BB:543:G:C5	35:BB:544:C:C5	2.98	0.52
44:BK:59:GLN:CD	44:BK:59:GLN:N	2.63	0.52
35:BB:1374:U:C4	35:BB:1393:C:C2	2.98	0.52
28:AU:65:VAL:HA	28:AU:108:THR:HA	1.91	0.52
34:BA:883:C:H4'	42:BI:98:ARG:CZ	2.40	0.52
5:A4:63:ALA:HA	5:A4:95:ILE:O	2.09	0.52
3:A2:27:TYR:HB3	3:A2:130:MET:SD	2.50	0.52
34:BA:634:U:H2'	34:BA:635:G:C8	2.45	0.52
35:BB:722:U:C4	35:BB:723:A:C5	2.98	0.52
35:BB:1474:A:H2'	35:BB:1475:U:H5'	1.92	0.52
34:BA:1048:C:C4	34:BA:1049:G:C5	2.98	0.51
34:BA:1115:A:C2	34:BA:1144:A:N1	2.78	0.51
34:BA:1231:C:N3	34:BA:1232:C:C5	2.79	0.51
34:BA:1329:U:C2	34:BA:1330:G:C8	2.98	0.51
34:BA:1435:A:N7	34:BA:1437:G:C8	2.78	0.51
34:BA:1677:C:N3	34:BA:1679:C:C2	2.78	0.51
34:BA:174:A:C2	34:BA:313:C:C2	2.98	0.51
34:BA:1746:G:N2	34:BA:1779:U:C2	2.78	0.51
34:BA:1817:G:H2'	34:BA:1817:G:N3	2.23	0.51
34:BA:1830:A:O2'	34:BA:1831:A:C2	2.63	0.51
34:BA:166:G:H1	34:BA:324:C:N4	2.08	0.51
34:BA:384:U:O5'	34:BA:384:U:C6	2.62	0.51
34:BA:481:A:H2'	34:BA:482:C:C6	2.45	0.51
34:BA:493:G:C2	34:BA:494:A:C4	2.98	0.51
34:BA:502:U:H2'	34:BA:503:C:H6	1.75	0.51
34:BA:798:G:H3'	34:BA:800:G:H5'	1.92	0.51
35:BB:1355:C:C4	35:BB:1357:C:C2	2.98	0.51
34:BA:1659:G:H1	35:BB:19:C:H42	1.58	0.51
35:BB:28:G:C6	35:BB:32:C:C5	2.98	0.51
35:BB:423:G:N1	35:BB:424:U:C2	2.78	0.51
34:BA:1604:A:C6	35:BB:63:A:C5	2.99	0.51
35:BB:85:A:C4	35:BB:91:G:N7	2.78	0.51
36:BC:41:A:C6	36:BC:42:G:C4	2.98	0.51
36:BC:47:C:H1'	36:BC:61:A:C4	2.46	0.51
37:BD:113:G:C4	37:BD:114:U:C5	2.98	0.51
37:BD:115:A:C6	37:BD:116:C:C5	2.97	0.51
37:BD:25:G:C5	37:BD:26:C:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:1:G:C2	37:BD:2:G:C5	2.98	0.51
37:BD:48:G:C2	37:BD:49:A:N6	2.78	0.51
37:BD:56:G:C2	37:BD:57:C:H1'	2.45	0.51
38:BE:13:A:H3'	38:BE:14:C:C5	2.45	0.51
38:BE:63:C:H41	38:BE:167:U:H2'	1.74	0.51
38:BE:32:U:O2	38:BE:183:C:C6	2.63	0.51
40:BG:88:G:C2	40:BG:112:C:O2	2.63	0.51
40:BG:25:G:C6	40:BG:181:C:C5	2.98	0.51
40:BG:181:C:C3'	40:BG:182:G:C8	2.93	0.51
40:BG:29:U:C2	40:BG:30:C:C5	2.98	0.51
41:BH:104:U:C4	41:BH:105:U:C4	2.98	0.51
41:BH:131:A:C5	41:BH:132:C:C5	2.99	0.51
41:BH:30:C:C2	41:BH:31:A:C4	2.99	0.51
44:BK:47:PRO:O	44:BK:178:ARG:HD3	2.10	0.51
45:BL:92:LYS:HA	45:BL:96:PHE:CE2	2.45	0.51
85:AA:2125:A:N1	85:AA:2193:A:N1	2.58	0.51
32:AY:62:PRO:HG2	85:AA:633:C:H1'	1.91	0.51
34:BA:609:G:C2	34:BA:610:A:C4	2.98	0.51
34:BA:633:G:C6	34:BA:649:A:C6	2.98	0.51
35:BB:976:U:O2	35:BB:977:G:C6	2.63	0.51
57:BX:58:HIS:C	57:BX:58:HIS:CD2	2.82	0.51
85:AA:1125:G:C2	85:AA:1193:A:N7	2.78	0.51
85:AA:1203:G:C2	85:AA:1204:A:C4	2.97	0.51
85:AA:705:G:C6	85:AA:706:U:C4	2.98	0.51
85:AA:707:U:C2	85:AA:708:G:C8	2.98	0.51
35:BB:1186:A:N6	35:BB:1200:A:H61	2.08	0.51
85:AA:1654:G:H3'	85:AA:1655:G:H8	1.75	0.51
85:AA:1471:G:N3	85:AA:1471:G:H2'	2.26	0.51
85:AA:1665:G:C6	85:AA:1705:G:C4	2.98	0.51
2:A1:127:TYR:CD2	2:A1:128:THR:N	2.78	0.51
85:AA:2140:U:C6	85:AA:2141:G:N7	2.78	0.51
85:AA:276:C:H2'	85:AA:277:G:C8	2.45	0.51
85:AA:722:G:N1	85:AA:779:G:C2	2.78	0.51
85:AA:779:G:H2'	85:AA:780:U:C6	2.45	0.51
85:AA:395:G:H2'	85:AA:396:U:C6	2.45	0.51
49:BP:128:PHE:CG	49:BP:129:ASP:HA	2.45	0.51
39:BF:45:G:C6	39:BF:46:G:C5	2.99	0.51
34:BA:979:G:N7	34:BA:981:A:C8	2.78	0.51
35:BB:314:A:C6	35:BB:315:C:H1'	2.45	0.51
17:AI:25:ARG:HD2	21:AM:89:ARG:O	2.09	0.51
85:AA:1759:U:C6	85:AA:1761:C:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BN:149:LYS:HA	47:BN:150:ALA:HB3	1.90	0.51
20:AL:106:LEU:HD21	20:AL:118:ARG:HB2	1.91	0.51
2:A1:205:ALA:HB2	2:A1:219:ALA:HA	1.92	0.51
34:BA:559:C:OP2	34:BA:559:C:H6	1.92	0.51
42:BI:175:SER:HA	42:BI:180:ARG:HB3	1.91	0.51
35:BB:356:C:H2'	35:BB:358:U:C5	2.45	0.51
2:A1:197:ARG:HA	2:A1:203:ASP:CG	2.31	0.51
34:BA:1186:U:C4	34:BA:1187:U:H1'	2.45	0.51
34:BA:1189:A:H2'	34:BA:1190:A:C8	2.45	0.51
34:BA:1325:G:H1	34:BA:1415:C:H42	1.58	0.51
34:BA:1312:A:C5	34:BA:1427:U:C2	2.98	0.51
34:BA:146:G:H2'	34:BA:147:U:O5'	2.10	0.51
34:BA:161:U:O4'	34:BA:165:C:C6	2.63	0.51
34:BA:1707:C:N3	34:BA:1708:A:C8	2.78	0.51
34:BA:224:G:C2	34:BA:225:A:C2	2.98	0.51
34:BA:183:G:N3	34:BA:306:G:C2	2.79	0.51
34:BA:320:G:C5	34:BA:321:G:N7	2.78	0.51
34:BA:413:A:H1'	34:BA:417:A:C2	2.45	0.51
34:BA:451:A:C6	34:BA:452:A:C5	2.98	0.51
34:BA:505:U:H2'	34:BA:506:U:C6	2.45	0.51
34:BA:737:U:H2'	34:BA:738:C:C2	2.46	0.51
34:BA:820:C:H5'	34:BA:1169:A:N1	2.25	0.51
34:BA:861:C:C4	34:BA:862:C:C5	2.98	0.51
34:BA:94:G:C6	34:BA:95:C:C4	2.98	0.51
34:BA:957:A:C5	34:BA:958:G:C6	2.98	0.51
35:BB:1077:C:N3	35:BB:1078:U:C5	2.78	0.51
35:BB:1249:G:C6	35:BB:1250:A:C5	2.98	0.51
35:BB:1291:G:C2	35:BB:1292:G:H1'	2.45	0.51
35:BB:43:G:N1	35:BB:54:U:C2	2.78	0.51
35:BB:790:A:C2	35:BB:1033:U:C4	2.99	0.51
37:BD:30:A:N6	37:BD:48:G:C6	2.78	0.51
38:BE:26:G:H1'	38:BE:194:A:N6	2.24	0.51
40:BG:65:C:H2'	40:BG:66:C:H6	1.71	0.51
41:BH:31:A:C4	41:BH:32:U:H5	2.28	0.51
41:BH:54:U:C2	41:BH:68:G:C2	2.98	0.51
35:BB:1296:A:H5'	44:BK:71:GLN:HE22	1.76	0.51
50:BQ:70:TYR:CZ	50:BQ:72:THR:HA	2.45	0.51
85:AA:6:G:C2	85:AA:19:A:C5	2.98	0.51
85:AA:2112:G:C6	85:AA:2113:U:C4	2.99	0.51
85:AA:31:C:C4	85:AA:32:U:C5	2.98	0.51
85:AA:334:A:C2	85:AA:355:G:N1	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:370:A:H2'	85:AA:371:C:C6	2.46	0.51
85:AA:679:A:H5'	85:AA:680:U:H3'	1.91	0.51
23:AP:217:ARG:HH21	85:AA:5:U:P	2.32	0.51
34:BA:610:A:C5	34:BA:611:A:N7	2.78	0.51
34:BA:613:A:C2	34:BA:668:G:H1'	2.45	0.51
34:BA:630:U:C2	34:BA:631:G:C5	2.98	0.51
35:BB:849:A:H3'	35:BB:850:U:C4'	2.41	0.51
35:BB:1185:G:C4	35:BB:1186:A:C8	2.98	0.51
5:A4:104:ILE:HG22	5:A4:105:THR:N	2.09	0.51
85:AA:1137:C:H3'	85:AA:1138:U:H5"	1.91	0.51
85:AA:1652:A:C6	85:AA:1877:G:C5	2.98	0.51
85:AA:2018:U:H3	85:AA:2022:A:N6	2.08	0.51
85:AA:2026:U:C5	85:AA:2027:U:C5	2.98	0.51
34:BA:520:G:C8	34:BA:520:G:O5'	2.64	0.51
85:AA:1287:C:H4'	85:AA:1287:C:OP1	2.10	0.51
85:AA:1464:G:C6	85:AA:1465:C:C4	2.98	0.51
18:AJ:12:ARG:NH1	85:AA:1472:G:C5	2.77	0.51
85:AA:2103:C:C2	85:AA:2105:G:C6	2.98	0.51
85:AA:309:G:C6	85:AA:310:U:N3	2.78	0.51
85:AA:2081:A:N7	85:AA:2082:C:C5	2.78	0.51
85:AA:365:G:C2	85:AA:366:A:C4	2.98	0.51
85:AA:397:G:C4	85:AA:398:U:C5	2.98	0.51
85:AA:421:G:N1	85:AA:422:G:C4	2.79	0.51
16:AH:24:VAL:HB	16:AH:86:LEU:HD21	1.92	0.51
35:BB:999:G:H3'	35:BB:999:G:C8	2.45	0.51
85:AA:65:A:C4	85:AA:66:U:C2	2.98	0.51
85:AA:66:U:C3'	85:AA:67:C:H5'	2.40	0.51
85:AA:811:A:C2	85:AA:812:C:C4	2.98	0.51
85:AA:1244:A:C2	85:AA:1245:U:C2	2.98	0.51
85:AA:1254:A:C2	85:AA:1255:C:C6	2.98	0.51
34:BA:968:G:C5	34:BA:969:A:C6	2.97	0.51
35:BB:684:U:O5'	35:BB:684:U:H6	1.94	0.51
35:BB:1481:C:C4	35:BB:1482:A:C5	2.98	0.51
35:BB:420:U:O4'	35:BB:510:A:C2	2.63	0.51
35:BB:634:A:C2	35:BB:648:G:C4	2.98	0.51
5:A4:146:ARG:HA	18:AJ:51:GLU:HB2	1.92	0.51
35:BB:736:G:N2	35:BB:755:A:H2'	2.25	0.51
40:BG:141:A:H2'	40:BG:142:A:C8	2.45	0.51
85:AA:297:A:H2'	85:AA:298:C:C5	2.45	0.51
85:AA:360:C:C2	85:AA:361:U:C6	2.98	0.51
13:AE:91:VAL:HA	13:AE:102:ILE:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AP:248:ASP:HB3	23:AP:251:ASP:H	1.75	0.51
85:AA:1932:C:C2	85:AA:1952:C:OP1	2.64	0.51
34:BA:1153:C:H2'	34:BA:1154:U:C6	2.45	0.51
34:BA:1293:A:C2'	34:BA:1295:U:C6	2.94	0.51
34:BA:125:G:N1	34:BA:139:U:C2	2.79	0.51
34:BA:123:C:N3	34:BA:142:A:C2	2.79	0.51
34:BA:1507:C:C4	34:BA:1508:C:C4	2.99	0.51
34:BA:1517:U:C4	34:BA:1518:A:C8	2.97	0.51
34:BA:1551:G:N1	34:BA:1559:C:C2	2.78	0.51
34:BA:1742:G:C2	34:BA:1743:U:C2	2.98	0.51
34:BA:1815:G:C4	34:BA:1832:A:C2	2.98	0.51
34:BA:21:C:H3'	34:BA:22:C:H6	1.72	0.51
34:BA:240:C:C5	34:BA:241:U:C4	2.98	0.51
34:BA:442:G:C8	34:BA:467:A:N1	2.79	0.51
34:BA:795:G:C6	34:BA:796:G:C5	2.98	0.51
34:BA:801:U:N3	34:BA:802:G:C5	2.78	0.51
34:BA:824:C:H5"	42:BI:142:ASN:H	1.75	0.51
34:BA:878:G:C2	34:BA:880:G:C8	2.98	0.51
34:BA:966:G:H2'	34:BA:967:C:C6	2.45	0.51
35:BB:1081:U:N3	35:BB:1082:A:C5	2.79	0.51
35:BB:1079:G:C2	35:BB:1094:A:C2	2.98	0.51
35:BB:423:G:C5	35:BB:424:U:C5	2.98	0.51
35:BB:62:C:H2'	35:BB:63:A:H5'	1.92	0.51
35:BB:958:C:H2'	35:BB:959:C:C6	2.45	0.51
34:BA:416:A:C2	36:BC:52:A:C2	2.98	0.51
36:BC:54:G:C2	36:BC:55:U:C1'	2.93	0.51
38:BE:137:A:C6	38:BE:138:U:C4	2.99	0.51
38:BE:65:U:C5	38:BE:140:G:O6	2.63	0.51
40:BG:110:U:H2'	40:BG:111:C:C6	2.46	0.51
35:BB:1453:G:C2	40:BG:172:C:C6	2.99	0.51
40:BG:23:C:C6	40:BG:23:C:C3'	2.93	0.51
40:BG:36:G:C6	40:BG:37:G:C5	2.99	0.51
41:BH:101:A:C4	41:BH:102:C:C5	2.98	0.51
41:BH:5:G:C2	41:BH:131:A:N1	2.78	0.51
35:BB:488:G:H4'	43:BJ:42:LYS:HE3	1.93	0.51
85:AA:1281:G:C2	85:AA:1282:A:C4	2.98	0.51
85:AA:2121:G:C6	85:AA:2122:A:N6	2.79	0.51
85:AA:93:G:C2	85:AA:94:C:C2	2.99	0.51
85:AA:47:A:C6	85:AA:97:A:C8	2.98	0.51
32:AY:62:PRO:HB3	85:AA:631:G:H21	1.75	0.51
85:AA:961:U:H3	85:AA:992:G:H1	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BT:181:ARG:HD3	85:AA:999:A:C2'	2.33	0.51
85:AA:710:A:C5	85:AA:711:C:N3	2.77	0.51
35:BB:469:G:H2'	35:BB:470:C:C6	2.46	0.51
35:BB:534:C:C2	35:BB:535:U:C6	2.98	0.51
85:AA:1650:G:N7	85:AA:1870:C:C6	2.78	0.51
34:BA:1236:U:N3	34:BA:1237:U:C4	2.79	0.51
35:BB:1283:C:C2	35:BB:1284:U:C6	2.99	0.51
85:AA:1451:U:C6	85:AA:1452:C:C5	2.99	0.51
13:AE:56:LEU:HD11	85:AA:313:A:N3	2.25	0.51
85:AA:787:U:C4	85:AA:788:G:N1	2.78	0.51
85:AA:797:C:H41	85:AA:799:G:N2	2.09	0.51
85:AA:789:A:H2'	85:AA:802:A:N1	2.25	0.51
1:A0:165:TRP:CE3	1:A0:168:MET:SD	3.04	0.51
34:BA:1213:A:N1	34:BA:1214:U:C2	2.78	0.51
85:AA:1954:C:C4	85:AA:1955:U:C4	2.99	0.51
85:AA:1954:C:C4	85:AA:1955:U:O4	2.64	0.51
34:BA:686:U:C4	34:BA:687:G:C5	2.98	0.51
85:AA:1648:G:C5	85:AA:1649:U:C4	2.98	0.51
86:AB:7:A:C2	86:AB:67:C:H1'	2.45	0.51
35:BB:770:G:C5	35:BB:771:U:C4	2.98	0.51
40:BG:142:A:H2'	40:BG:143:C:C5	2.45	0.51
44:BK:8:CYS:SG	44:BK:9:TYR:CE2	3.03	0.51
24:AQ:39:HIS:CD2	24:AQ:101:PHE:CE1	2.99	0.51
6:A5:64:ASN:N	6:A5:75:ARG:HH21	2.06	0.51
26:AS:27:TRP:CD1	26:AS:31:HIS:CE1	2.98	0.51
1:A0:187:VAL:HA	1:A0:190:LEU:HD12	1.91	0.51
18:AJ:7:LEU:HD13	18:AJ:34:VAL:HG12	1.91	0.51
23:AP:96:VAL:O	23:AP:106:THR:HA	2.10	0.51
34:BA:1362:A:C8	34:BA:1389:A:H5'	2.46	0.51
34:BA:104:A:C4	34:BA:105:U:C6	2.99	0.51
18:AJ:128:PHE:CE2	18:AJ:130:TYR:CD2	2.99	0.51
34:BA:1168:C:N4	34:BA:1205:A:C8	2.78	0.51
34:BA:1174:A:C2	34:BA:1175:G:C4	2.99	0.51
34:BA:134:U:C2	34:BA:135:G:C8	2.99	0.51
34:BA:1667:G:C5	34:BA:1668:C:C5	2.98	0.51
34:BA:1781:A:C5	34:BA:1782:C:C5	2.98	0.51
34:BA:1704:G:C4	34:BA:1803:A:C2	2.98	0.51
34:BA:300:C:C2'	34:BA:301:U:H5'	2.40	0.51
34:BA:777:C:C4	34:BA:778:U:C5	2.99	0.51
34:BA:817:U:C2	34:BA:854:A:N1	2.79	0.51
35:BB:1138:A:N7	35:BB:1139:A:C5	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1227:G:H4'	35:BB:1228:A:C5'	2.41	0.51
35:BB:1359:G:H3'	35:BB:1360:A:H8	1.75	0.51
35:BB:28:G:C2	35:BB:34:G:C6	2.98	0.51
35:BB:378:C:C4	35:BB:379:U:C5	2.98	0.51
35:BB:991:C:C2	35:BB:992:C:N3	2.79	0.51
36:BC:115:G:N3	36:BC:116:C:C6	2.78	0.51
36:BC:134:G:C4	36:BC:135:A:C8	2.99	0.51
36:BC:117:A:C4	36:BC:147:G:C2	2.98	0.51
36:BC:166:G:H3'	36:BC:167:U:C5	2.45	0.51
36:BC:72:A:C5	36:BC:73:U:C4	2.98	0.51
36:BC:7:U:H3'	36:BC:8:C:C5	2.45	0.51
36:BC:67:U:H3	36:BC:91:G:H1	1.59	0.51
37:BD:67:C:C2	37:BD:68:C:C6	2.99	0.51
37:BD:94:C:H2'	37:BD:95:G:C8	2.45	0.51
38:BE:101:C:C4	38:BE:120:C:C6	2.98	0.51
40:BG:93:U:H2'	40:BG:94:G:C8	2.46	0.51
41:BH:103:C:C2	41:BH:104:U:N1	2.79	0.51
41:BH:123:G:C5	41:BH:124:C:C5	2.98	0.51
36:BC:146:U:C1'	57:BX:70:SER:HA	2.39	0.51
34:BA:543:A:H2'	34:BA:544:U:C6	2.42	0.51
85:AA:690:G:C2	85:AA:1483:A:C4	2.98	0.51
85:AA:157:G:C6	85:AA:158:C:C5	2.98	0.51
85:AA:174:U:C6	85:AA:174:U:H3'	2.45	0.51
85:AA:456:A:C2	85:AA:457:G:C4	2.99	0.51
35:BB:804:U:C6	35:BB:805:G:C1'	2.93	0.51
35:BB:823:G:C5	35:BB:824:C:C6	2.99	0.51
53:BT:175:LYS:HA	53:BT:178:LEU:HD12	1.92	0.51
85:AA:1120:G:C2	85:AA:1121:U:C5	2.99	0.51
85:AA:1134:G:N1	85:AA:1177:G:C6	2.78	0.51
28:AU:27:LYS:HD2	85:AA:2039:G:O6	2.11	0.51
21:AM:121:HIS:CE1	85:AA:2024:U:H4'	2.45	0.51
34:BA:254:U:O4	34:BA:255:G:C6	2.63	0.51
34:BA:675:C:C5	34:BA:676:G:N7	2.79	0.51
34:BA:594:G:C5	34:BA:684:G:C8	2.99	0.51
57:BX:151:SER:O	57:BX:152:TYR:CD1	2.63	0.51
85:AA:309:G:C2	85:AA:310:U:C2	2.99	0.51
85:AA:983:A:O5'	85:AA:983:A:H8	1.94	0.51
34:BA:3:G:C6	36:BC:169:G:N1	2.78	0.51
85:AA:2074:G:H2'	85:AA:2075:C:C5	2.45	0.51
85:AA:722:G:N1	85:AA:723:U:C2	2.79	0.51
85:AA:792:A:N1	85:AA:801:U:H5"	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1147:A:H62	85:AA:1163:G:H21	1.59	0.51
35:BB:1003:G:N3	35:BB:1004:A:C8	2.78	0.51
47:BN:84:GLU:CG	47:BN:114:MET:HA	2.40	0.51
34:BA:574:U:H3'	34:BA:575:U:H5"	1.91	0.51
34:BA:513:U:O2	34:BA:691:A:N6	2.42	0.51
34:BA:514:U:C5	34:BA:515:U:C4	2.98	0.51
34:BA:899:G:C4	34:BA:1032:A:C6	2.98	0.51
85:AA:850:U:C4	85:AA:851:G:N7	2.78	0.51
35:BB:864:U:H6	35:BB:864:U:O5'	1.94	0.51
35:BB:1426:G:N1	35:BB:1427:A:C5	2.78	0.51
35:BB:116:G:C6	35:BB:389:G:C4	2.97	0.51
34:BA:1358:A:C4	34:BA:1367:G:C2	2.98	0.51
85:AA:1947:A:H2'	85:AA:1948:A:H5'	1.91	0.51
8:A7:192:LEU:HD13	8:A7:223:TRP:CG	2.46	0.51
8:A7:63:LEU:HB3	8:A7:94:TRP:CH2	2.46	0.51
15:AG:105:ASN:CG	15:AG:106:THR:H	2.13	0.51
47:BN:201:ARG:HG2	47:BN:204:ASN:HB2	1.92	0.51
34:BA:1068:C:H6	34:BA:1068:C:O5'	1.94	0.51
34:BA:1474:G:C6	34:BA:1475:G:C4	2.98	0.51
34:BA:155:U:C6	34:BA:156:U:H3'	2.45	0.51
34:BA:221:G:C6	34:BA:222:C:C5	2.98	0.51
34:BA:306:G:C6	34:BA:307:C:C4	2.99	0.51
34:BA:378:C:C2	34:BA:379:C:C5	2.99	0.51
34:BA:382:G:H1'	50:BQ:68:VAL:HA	1.93	0.51
34:BA:23:A:C4	34:BA:395:G:C4	2.99	0.51
34:BA:459:U:C4	34:BA:460:G:C5	2.98	0.51
34:BA:62:A:C2	34:BA:109:A:C8	2.97	0.51
34:BA:492:G:C5	34:BA:710:A:C2	2.99	0.51
34:BA:775:C:C4	34:BA:776:U:C6	2.99	0.51
34:BA:804:G:N7	34:BA:805:A:C5	2.79	0.51
34:BA:884:G:H3'	42:BI:66:ARG:HH22	1.74	0.51
34:BA:8:G:H21	34:BA:1727:A:N6	2.08	0.51
34:BA:93:A:O5'	34:BA:93:A:H8	1.93	0.51
34:BA:966:G:N1	34:BA:967:C:C2	2.78	0.51
35:BB:785:G:C6	35:BB:1036:G:C2	2.98	0.51
35:BB:1104:A:C2	35:BB:1141:A:C8	2.98	0.51
35:BB:1108:G:C6	35:BB:1157:G:C5	2.97	0.51
35:BB:1353:G:H2'	35:BB:1354:C:H5"	1.92	0.51
35:BB:1358:A:C6	35:BB:1359:G:C5	2.99	0.51
35:BB:1467:A:N7	35:BB:1468:A:C4	2.78	0.51
35:BB:481:A:C6	35:BB:482:A:C6	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:599:U:C4	35:BB:600:C:C6	2.98	0.51
35:BB:3:C:N3	35:BB:5:A:N6	2.58	0.51
35:BB:614:U:H3'	35:BB:615:A:H8	1.76	0.51
34:BA:1845:G:N2	35:BB:6:A:C4	2.79	0.51
35:BB:700:C:O5'	35:BB:700:C:H6	1.93	0.51
35:BB:93:A:H3'	35:BB:94:A:H8	1.75	0.51
34:BA:472:G:C2	36:BC:15:G:C6	2.99	0.51
36:BC:24:G:C6	36:BC:25:C:N3	2.79	0.51
37:BD:22:A:C2	37:BD:23:A:C4	2.98	0.51
37:BD:4:U:H4'	37:BD:25:G:O2'	2.10	0.51
37:BD:28:C:H1'	37:BD:54:A:H61	1.76	0.51
37:BD:47:U:C5	37:BD:48:G:N7	2.78	0.51
37:BD:66:G:C4	37:BD:67:C:C6	2.98	0.51
37:BD:92:G:N1	37:BD:93:G:C4	2.79	0.51
38:BE:157:C:C6	38:BE:158:U:C6	2.99	0.51
38:BE:179:A:H5"	38:BE:182:U:C2	2.45	0.51
38:BE:74:U:C6	38:BE:75:C:C6	2.99	0.51
38:BE:2:G:C5	38:BE:8:G:C5	2.99	0.51
34:BA:982:A:C8	51:BR:133:HIS:O	2.64	0.51
38:BE:106:C:OP1	53:BT:118:HIS:HA	2.09	0.51
34:BA:542:A:H1'	34:BA:566:G:N2	2.25	0.51
85:AA:23:G:H2'	85:AA:24:U:C6	2.45	0.51
85:AA:493:A:C5	85:AA:494:G:C8	2.98	0.51
85:AA:499:G:H2'	85:AA:501:A:OP2	2.11	0.51
34:BA:666:C:N3	34:BA:667:U:C4	2.78	0.51
35:BB:561:C:N4	35:BB:563:A:H2'	2.25	0.51
35:BB:810:G:C4	35:BB:811:C:C6	2.99	0.51
35:BB:812:G:C5	35:BB:813:C:C5	2.99	0.51
85:AA:701:C:C4	85:AA:702:G:C4	2.98	0.51
40:BG:139:U:H2'	40:BG:140:G:H5'	1.92	0.51
34:BA:522:C:C3'	34:BA:522:C:C6	2.94	0.51
34:BA:970:U:C6	35:BB:591:A:C2	2.99	0.51
34:BA:1495:A:C4	34:BA:1498:A:C8	2.98	0.51
35:BB:1495:U:C5'	35:BB:1495:U:C6	2.94	0.51
35:BB:1513:U:O5'	35:BB:1513:U:C6	2.63	0.51
85:AA:247:G:N1	85:AA:248:U:C4	2.78	0.51
85:AA:309:G:N1	85:AA:310:U:C2	2.79	0.51
85:AA:972:G:C2	85:AA:973:U:C5	2.99	0.51
85:AA:556:C:H2'	85:AA:557:G:H8	1.75	0.51
85:AA:572:G:C2	85:AA:573:U:C2	2.99	0.51
85:AA:1922:A:C3'	85:AA:1922:A:C8	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BN:200:PHE:CD2	47:BN:207:ALA:HB2	2.46	0.51
85:AA:1147:A:C8	85:AA:1161:U:C4	2.97	0.51
35:BB:1004:A:C2	35:BB:1015:U:H1'	2.45	0.51
85:AA:867:G:C2	85:AA:869:A:C5	2.98	0.51
35:BB:1401:G:C8	35:BB:1402:U:C4	2.98	0.51
34:BA:1122:G:C5	34:BA:1123:G:C8	2.98	0.51
85:AA:1004:G:H2'	85:AA:1005:C:H5'	1.93	0.51
35:BB:474:G:C5	35:BB:475:A:C6	2.99	0.51
35:BB:1069:C:C4	35:BB:1070:G:C5	2.99	0.51
35:BB:1071:G:C6	35:BB:1072:C:C5	2.98	0.51
35:BB:1175:A:C2	35:BB:1177:U:N1	2.78	0.51
3:A2:190:ARG:HG2	16:AH:65:TYR:CE2	2.45	0.51
34:BA:144:C:H3'	34:BA:145:U:H5'	1.92	0.51
34:BA:1218:G:C6	34:BA:1219:G:C6	2.99	0.51
34:BA:1076:U:H2'	34:BA:1077:G:C8	2.45	0.51
3:A2:19:THR:HA	3:A2:99:ILE:CG2	2.39	0.51
25:AR:41:ILE:O	25:AR:54:THR:HA	2.11	0.51
18:AJ:104:LEU:HB2	18:AJ:124:LYS:O	2.11	0.51
58:BY:83:GLU:CA	85:AA:2161:C:C4'	2.88	0.51
34:BA:1016:A:H3'	34:BA:1017:C:C6	2.44	0.51
34:BA:1147:C:C2	34:BA:1148:U:C5	2.98	0.51
34:BA:1201:G:C6	34:BA:1202:G:C5	2.98	0.51
34:BA:1297:G:C8	49:BP:17:ARG:O	2.64	0.51
34:BA:1437:G:C4	34:BA:1438:C:C6	2.99	0.51
34:BA:1550:G:N1	34:BA:1551:G:C5	2.79	0.51
34:BA:1630:A:C6	34:BA:1631:U:C5	2.99	0.51
34:BA:1664:C:H2'	34:BA:1665:G:C8	2.46	0.51
34:BA:1687:A:C5	34:BA:1688:G:C6	2.98	0.51
34:BA:1724:G:C8	34:BA:1724:G:H3'	2.46	0.51
34:BA:235:C:H6	34:BA:235:C:O5'	1.92	0.51
34:BA:165:C:H5	34:BA:322:U:C4	2.27	0.51
34:BA:331:G:C5	34:BA:356:C:C5	2.98	0.51
34:BA:417:A:O4'	34:BA:419:U:C6	2.63	0.51
34:BA:709:C:H2'	34:BA:710:A:C8	2.46	0.51
34:BA:774:A:C5	34:BA:775:C:C4	2.99	0.51
34:BA:794:G:C6	34:BA:795:G:C5	2.99	0.51
34:BA:6:C:C2	34:BA:7:U:C5	2.99	0.51
34:BA:874:G:C2'	34:BA:875:G:C8	2.89	0.51
35:BB:1086:G:O6	35:BB:1087:A:C6	2.64	0.51
35:BB:1215:U:H3	35:BB:1248:A:N6	2.06	0.51
35:BB:18:A:H2'	35:BB:19:C:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:411:A:C6	35:BB:413:A:C5	2.98	0.51
35:BB:65:A:C2	35:BB:66:G:C4	2.98	0.51
35:BB:72:G:C5	35:BB:73:G:C5	2.99	0.51
35:BB:899:C:C5	35:BB:900:C:C5	2.98	0.51
36:BC:10:C:O2'	36:BC:11:G:H5'	2.09	0.51
36:BC:154:A:C4	36:BC:155:C:C6	2.99	0.51
36:BC:24:G:H3'	36:BC:25:C:C5	2.45	0.51
34:BA:395:G:C2	36:BC:34:U:O4	2.64	0.51
36:BC:78:G:C2	36:BC:79:A:C2	2.98	0.51
37:BD:3:G:N2	37:BD:117:U:H1'	2.26	0.51
38:BE:116:U:H5"	38:BE:119:U:H5'	1.92	0.51
38:BE:65:U:H3'	38:BE:65:U:C6	2.45	0.51
39:BF:9:C:C4	39:BF:18:U:C6	2.99	0.51
40:BG:15:G:C2	40:BG:16:G:N9	2.79	0.51
40:BG:173:C:C4	40:BG:174:G:C5	2.99	0.51
41:BH:97:C:OP2	55:BV:63:LYS:CD	2.59	0.51
44:BK:83:GLU:C	44:BK:85:PHE:H	2.14	0.51
45:BL:103:PHE:CE2	45:BL:109:PHE:CD1	2.98	0.51
35:BB:1121:A:H4'	45:BL:112:GLY:HA3	1.93	0.51
47:BN:29:VAL:HA	50:BQ:217:PHE:HB3	1.92	0.51
53:BT:6:LEU:HD13	53:BT:10:LEU:HB2	1.92	0.51
34:BA:540:G:N3	34:BA:568:G:C2	2.78	0.51
34:BA:562:C:C2'	34:BA:563:A:H5'	2.40	0.51
4:A3:58:ASP:HA	4:A3:110:ALA:H	1.74	0.51
85:AA:139:G:C5	85:AA:140:C:C5	2.98	0.51
85:AA:2195:A:C5	85:AA:2196:G:C6	2.98	0.51
85:AA:500:C:C4	85:AA:501:A:C2	2.99	0.51
85:AA:597:A:C5	85:AA:598:C:C5	2.99	0.51
85:AA:689:U:H5"	85:AA:689:U:C6	2.45	0.51
85:AA:98:U:H2'	85:AA:99:U:H5'	1.92	0.51
34:BA:662:U:H2'	34:BA:663:U:C6	2.45	0.51
35:BB:567:G:C5	35:BB:568:A:C8	2.98	0.51
35:BB:805:G:C8	35:BB:806:U:C4	2.98	0.51
85:AA:1127:G:C2	85:AA:1200:A:C2	2.98	0.51
22:AO:124:LEU:HB2	22:AO:130:LEU:HD22	1.93	0.51
35:BB:667:G:H3'	35:BB:667:G:C8	2.46	0.51
85:AA:602:U:OP1	85:AA:603:C:C6	2.63	0.51
85:AA:2106:C:C5	85:AA:2107:C:C2	2.99	0.51
34:BA:1289:C:H2'	34:BA:1290:A:H2	1.76	0.51
85:AA:2138:G:C2	85:AA:2139:G:C4	2.99	0.51
85:AA:981:A:C2	85:AA:982:G:H1'	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:987:C:C2	85:AA:989:U:OP2	2.63	0.51
85:AA:547:A:H2'	85:AA:547:A:N3	2.25	0.51
85:AA:2084:U:H2'	85:AA:2085:C:C6	2.45	0.51
85:AA:792:A:C8	85:AA:800:A:C2	2.98	0.51
85:AA:109:G:H2'	85:AA:110:U:C6	2.45	0.51
85:AA:520:A:H5"	85:AA:521:A:H3'	1.92	0.51
34:BA:203:U:H2'	34:BA:204:U:C5	2.45	0.51
35:BB:1252:G:C4	35:BB:1253:U:C4	2.97	0.51
85:AA:814:G:C6	85:AA:864:C:C2	2.99	0.51
39:BF:35:C:H6	39:BF:35:C:O5'	1.93	0.51
4:A3:125:GLU:HA	4:A3:129:ASP:HB3	1.93	0.51
23:AP:164:ILE:HG12	23:AP:166:ILE:H	1.76	0.51
85:AA:843:U:H2'	85:AA:844:C:H6	1.76	0.51
85:AA:1374:A:H5'	85:AA:1421:U:C2	2.45	0.51
21:AM:83:TRP:CD1	85:AA:1968:A:C8	2.99	0.51
85:AA:1929:G:H2'	85:AA:1930:U:C6	2.46	0.51
85:AA:1942:U:C2	85:AA:1948:A:C2	2.99	0.51
22:AO:28:PRO:HA	22:AO:32:VAL:H	1.75	0.51
35:BB:1325:C:C6	35:BB:1325:C:H5'	2.46	0.51
85:AA:1510:A:H3'	85:AA:1511:C:C6	2.45	0.51
34:BA:1280:A:C2	34:BA:1281:U:H1'	2.45	0.51
18:AJ:28:ARG:HD3	85:AA:1113:G:C5	2.46	0.51
1:A0:111:ARG:HD2	29:AV:66:PHE:CE1	2.45	0.51
85:AA:2154:C:C4	85:AA:2155:U:C4	2.99	0.51
34:BA:1107:A:C5	34:BA:1108:U:C6	2.98	0.51
34:BA:1299:G:N2	34:BA:1300:G:C8	2.79	0.51
34:BA:1310:C:C5	34:BA:1311:G:C5	2.99	0.51
34:BA:1327:G:N1	34:BA:1328:U:C2	2.79	0.51
34:BA:1547:G:N1	34:BA:1562:G:C5	2.78	0.51
34:BA:1618:A:C5	34:BA:1632:G:C5	2.99	0.51
34:BA:373:G:C5	34:BA:374:U:C5	2.99	0.51
34:BA:414:A:C4	36:BC:23:G:H1'	2.46	0.51
34:BA:767:U:O4	34:BA:768:G:C2	2.64	0.51
34:BA:858:C:C2	34:BA:880:G:C2	2.99	0.51
34:BA:955:G:N1	34:BA:956:G:C2	2.78	0.51
34:BA:958:G:C6	34:BA:960:C:N4	2.79	0.51
35:BB:1079:G:N1	35:BB:1094:A:C6	2.79	0.51
35:BB:1116:U:O5'	35:BB:1116:U:C6	2.64	0.51
35:BB:28:G:O6	35:BB:32:C:C6	2.63	0.51
35:BB:425:G:C4	35:BB:446:U:O4	2.64	0.51
36:BC:128:U:H2'	36:BC:129:C:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:45:U:C2	37:BD:46:G:C8	2.98	0.51
38:BE:16:C:C4	38:BE:17:U:C6	2.98	0.51
38:BE:23:G:N1	38:BE:197:A:C5	2.79	0.51
38:BE:61:A:H2'	38:BE:62:C:C6	2.46	0.51
41:BH:115:A:H1'	41:BH:116:A:C2	2.46	0.51
41:BH:2:U:H2'	41:BH:3:U:O5'	2.11	0.51
41:BH:36:C:C2	41:BH:37:U:C5	2.99	0.51
47:BN:28:LYS:N	50:BQ:217:PHE:CZ	2.79	0.51
59:BZ:47:VAL:HG12	59:BZ:48:ARG:H	1.75	0.51
85:AA:1476:C:O5'	85:AA:1476:C:C6	2.64	0.51
85:AA:175:A:C2	85:AA:176:C:C6	2.99	0.51
85:AA:2199:G:C2	85:AA:2200:A:C8	2.98	0.51
85:AA:533:C:H5'	85:AA:533:C:C6	2.46	0.51
34:BA:609:G:C6	34:BA:610:A:C5	2.99	0.51
34:BA:613:A:N1	34:BA:614:A:C5	2.78	0.51
35:BB:547:A:C4	35:BB:549:U:C4	2.99	0.51
35:BB:857:G:C2	35:BB:866:A:C4	2.99	0.51
35:BB:857:G:N3	35:BB:866:A:C2	2.78	0.51
85:AA:960:G:HO2'	85:AA:961:U:H6	1.58	0.51
85:AA:2108:C:H42	85:AA:2211:G:H1	1.58	0.51
85:AA:942:A:C5'	85:AA:943:U:H6	2.22	0.51
85:AA:1862:C:C4	85:AA:1863:A:C5	2.99	0.51
34:BA:603:U:C4	34:BA:680:C:C5	2.99	0.51
35:BB:672:C:C4	35:BB:673:C:C4	2.98	0.51
51:BR:59:PRO:CG	51:BR:76:TRP:CD1	2.93	0.51
35:BB:1494:G:H1	35:BB:1512:C:H42	1.57	0.51
85:AA:2244:G:O3'	85:AA:2245:A:H3'	2.11	0.51
85:AA:314:C:C6	85:AA:316:C:C6	2.99	0.51
85:AA:314:C:H2'	85:AA:316:C:H6	1.76	0.51
85:AA:2140:U:O5'	85:AA:2140:U:H6	1.94	0.51
85:AA:611:G:N3	85:AA:611:G:H2'	2.25	0.51
85:AA:2055:G:C2	85:AA:2056:C:H1'	2.46	0.51
85:AA:899:A:C6	85:AA:900:G:C8	2.99	0.51
85:AA:892:C:C5	85:AA:900:G:N1	2.79	0.51
34:BA:1334:G:C2	34:BA:1408:C:C2	2.99	0.51
35:BB:1005:A:N1	35:BB:1014:U:C2	2.79	0.51
85:AA:80:G:N2	85:AA:81:A:H62	2.08	0.51
25:AR:6:THR:O	25:AR:13:ASN:HA	2.10	0.51
85:AA:264:A:OP1	85:AA:308:U:C6	2.64	0.51
34:BA:226:A:C3'	34:BA:227:C:H5"	2.41	0.51
35:BB:460:C:C5	35:BB:461:U:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:831:C:H2'	85:AA:832:U:H5"	1.92	0.51
85:AA:1643:U:C4	85:AA:1882:U:C2	2.99	0.51
35:BB:1332:G:C6	35:BB:1403:G:C8	2.99	0.51
34:BA:1395:C:O2	34:BA:1396:A:C8	2.63	0.51
21:AM:83:TRP:CD2	85:AA:1968:A:C4	2.98	0.51
35:BB:687:C:C5	35:BB:688:U:C5	2.98	0.51
42:BI:156:VAL:HA	42:BI:159:PHE:CE1	2.46	0.51
6:A5:113:TYR:CE1	6:A5:117:TYR:CD2	2.98	0.51
7:A6:61:LEU:HB3	7:A6:65:HIS:CE1	2.45	0.51
35:BB:408:U:C5	35:BB:1414:A:C2	2.99	0.51
85:AA:297:A:H2'	85:AA:298:C:C6	2.46	0.51
45:BL:54:LEU:HD21	45:BL:71:LYS:HG2	1.91	0.51
86:AB:13:C:H2'	86:AB:22:G:C2	2.46	0.51
20:AL:19:LYS:NZ	31:AX:208:GLU:N	2.59	0.51
34:BA:1099:U:C6	34:BA:1099:U:H5"	2.46	0.51
34:BA:1318:G:H22	35:BB:1315:C:H5"	1.76	0.51
34:BA:1467:U:C2	34:BA:1468:U:C5	2.99	0.51
34:BA:1527:G:C2	34:BA:1581:G:C5	2.98	0.51
34:BA:1599:A:H5"	34:BA:1600:G:OP2	2.11	0.51
34:BA:1604:A:C6	35:BB:63:A:C4	2.99	0.51
34:BA:1687:A:C5	34:BA:1688:G:C5	2.98	0.51
34:BA:1711:G:H1'	34:BA:1719:G:N2	2.26	0.51
34:BA:1738:G:C5	34:BA:1739:G:C8	2.98	0.51
34:BA:1742:G:C5	34:BA:1743:U:C5	2.99	0.51
34:BA:1743:U:H2'	34:BA:1744:C:O4'	2.11	0.51
34:BA:1778:U:O5'	34:BA:1778:U:C6	2.64	0.51
34:BA:468:A:H4'	34:BA:469:C:O5'	2.11	0.51
34:BA:816:G:H2'	34:BA:817:U:C5	2.46	0.51
35:BB:1144:A:C6	35:BB:1145:G:C5	2.98	0.51
35:BB:1291:G:C2	35:BB:1292:G:N9	2.79	0.51
35:BB:1445:A:H2'	35:BB:1446:C:C6	2.46	0.51
34:BA:1662:U:H5	35:BB:18:A:C2	2.29	0.51
35:BB:422:U:C2	35:BB:423:G:C8	2.98	0.51
35:BB:661:G:C6	35:BB:1445:A:C2	2.99	0.51
35:BB:662:G:C2	35:BB:663:G:C4	2.98	0.51
36:BC:106:G:C2	36:BC:107:C:C6	2.99	0.51
36:BC:157:U:H4'	36:BC:158:U:H6	1.76	0.51
34:BA:484:A:C2	36:BC:6:G:C2	2.98	0.51
36:BC:97:U:C2	36:BC:98:C:O2	2.64	0.51
37:BD:95:G:C4	37:BD:96:C:C5	2.98	0.51
38:BE:104:G:C4	38:BE:105:A:C5	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:122:G:C2	38:BE:123:A:C4	2.98	0.51
38:BE:126:G:N1	38:BE:127:G:C4	2.79	0.51
38:BE:35:A:C2	38:BE:36:U:C2	2.99	0.51
38:BE:5:A:H2'	38:BE:6:A:C8	2.46	0.51
38:BE:72:C:C6	38:BE:72:C:H3'	2.45	0.51
39:BF:10:A:H4'	39:BF:13:U:N1	2.26	0.51
39:BF:59:U:P	49:BP:118:ARG:HH21	2.33	0.51
40:BG:15:G:C4	40:BG:16:G:C8	2.99	0.51
40:BG:15:G:C2	40:BG:16:G:C4	2.99	0.51
41:BH:107:A:C5	41:BH:108:U:C5	2.98	0.51
35:BB:1536:G:C2'	41:BH:27:A:H62	2.24	0.51
41:BH:6:U:O2	41:BH:131:A:C2	2.64	0.51
44:BK:171:TRP:HA	44:BK:178:ARG:HD3	1.93	0.51
47:BN:64:ASN:HA	47:BN:74:ARG:HA	1.92	0.51
85:AA:1271:U:H4'	85:AA:1501:A:N6	2.26	0.51
85:AA:181:A:H3'	85:AA:182:C:C4'	2.41	0.51
85:AA:23:G:C5	85:AA:24:U:C4	2.99	0.51
85:AA:37:U:C2	85:AA:38:C:C6	2.98	0.51
85:AA:46:U:HO2'	85:AA:48:G:H8	1.59	0.51
85:AA:488:G:H4'	85:AA:489:C:OP1	2.11	0.51
26:AS:65:ALA:HB2	85:AA:650:G:N2	2.26	0.51
85:AA:684:G:C4	85:AA:688:C:C6	2.99	0.51
23:AP:215:ARG:HA	23:AP:217:ARG:CZ	2.41	0.51
34:BA:655:U:O2'	34:BA:657:C:H5'	2.11	0.51
34:BA:663:U:C6	34:BA:664:C:C5	2.98	0.51
35:BB:822:G:C5	35:BB:823:G:C8	2.99	0.51
35:BB:537:A:C2	35:BB:538:A:C2	2.99	0.51
85:AA:1194:U:C4	85:AA:1195:U:C4	2.99	0.51
85:AA:1105:G:C4	85:AA:1106:A:C6	2.98	0.51
85:AA:2008:G:H1	85:AA:2034:G:H2'	1.76	0.51
85:AA:2064:A:C6	85:AA:2065:U:C2	2.99	0.51
85:AA:1984:A:H5'	85:AA:1984:A:H8	1.76	0.51
34:BA:725:C:H5"	35:BB:1330:A:OP1	2.10	0.51
34:BA:1489:U:C5	34:BA:1490:U:C2	2.99	0.51
34:BA:1494:G:H1'	34:BA:1495:A:C5'	2.39	0.51
85:AA:1290:G:N3	85:AA:1453:U:C2	2.79	0.51
85:AA:1457:C:C6	85:AA:1457:C:H3'	2.45	0.51
85:AA:1287:C:H42	85:AA:1469:G:N2	2.08	0.51
85:AA:2222:G:N7	85:AA:2223:C:C5	2.78	0.51
85:AA:309:G:C5	85:AA:310:U:C5	2.99	0.51
85:AA:2142:A:C5	85:AA:2177:C:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:786:G:C6	85:AA:787:U:C4	2.98	0.51
85:AA:787:U:C6	85:AA:788:G:C2	2.99	0.51
34:BA:1334:G:C6	34:BA:1335:A:C4	2.98	0.51
85:AA:1259:U:C4	85:AA:1260:G:C4	2.98	0.51
85:AA:1240:A:C2	85:AA:1263:G:O6	2.64	0.51
85:AA:338:G:C4	85:AA:352:G:C2	2.98	0.51
34:BA:1136:A:C2	34:BA:1137:U:C1'	2.94	0.51
34:BA:529:A:N1	34:BA:583:G:C6	2.78	0.51
34:BA:1431:G:C4	34:BA:1432:C:C6	2.98	0.51
85:AA:1938:G:C5	85:AA:1939:C:C5	2.99	0.51
85:AA:1081:U:C5	85:AA:1082:U:C2	2.98	0.51
35:BB:1179:C:H2'	35:BB:1180:G:O4'	2.10	0.51
35:BB:1045:G:C6	35:BB:1046:C:C4	2.99	0.51
85:AA:1144:G:C5	85:AA:1145:U:C6	2.98	0.51
16:AH:36:HIS:CE1	16:AH:45:THR:HG22	2.45	0.51
35:BB:710:A:C6	35:BB:711:C:C4	2.99	0.51
34:BA:409:A:C2	34:BA:410:G:H1'	2.46	0.51
85:AA:1022:G:C8	85:AA:1022:G:H5'	2.46	0.51
20:AL:21:PHE:CZ	20:AL:72:LYS:HE2	2.46	0.51
7:A6:171:VAL:C	7:A6:174:VAL:H	2.15	0.51
9:A8:19:SER:O	9:A8:21:HIS:CE1	2.63	0.51
85:AA:1603:G:N3	85:AA:1633:A:C2	2.79	0.51
1:A0:21:GLN:CD	1:A0:26:ARG:HA	2.31	0.51
34:BA:444:A:C6	34:BA:445:C:H1'	2.46	0.51
59:BZ:55:VAL:HG21	59:BZ:63:ARG:HD3	1.93	0.51
34:BA:1384:G:C6	34:BA:1385:U:C4	2.99	0.51
34:BA:37:A:C5	34:BA:1036:G:C5	2.99	0.51
34:BA:1161:G:C4	34:BA:1162:U:C6	2.99	0.51
34:BA:1172:C:C2	34:BA:1203:G:C2	2.99	0.51
34:BA:1174:A:C6	34:BA:1201:G:C6	2.99	0.51
34:BA:1203:G:C8	34:BA:1203:G:H3'	2.46	0.51
34:BA:1225:A:H2'	34:BA:1226:G:C8	2.46	0.51
34:BA:124:G:N2	34:BA:125:G:C4	2.79	0.51
34:BA:125:G:H5'	50:BQ:158:ALA:HB2	1.92	0.51
34:BA:1260:G:C2	34:BA:1261:G:C8	2.99	0.51
34:BA:1292:A:H1'	34:BA:1456:C:H1'	1.92	0.51
34:BA:1442:A:H2'	34:BA:1443:U:C6	2.46	0.51
34:BA:1535:G:C6	34:BA:1537:G:N7	2.79	0.51
34:BA:162:G:H1	34:BA:320:G:H3'	1.76	0.51
34:BA:1671:A:C2'	34:BA:1672:C:H5'	2.41	0.51
34:BA:1735:G:N1	34:BA:1736:A:C5	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1739:G:C8	34:BA:1739:G:O5'	2.64	0.51
34:BA:702:G:H2'	34:BA:703:U:C5	2.45	0.51
34:BA:739:A:C2	47:BN:12:HIS:C	2.84	0.51
34:BA:744:G:C6	47:BN:6:ASN:ND2	2.79	0.51
34:BA:849:G:N2	34:BA:850:C:C4	2.79	0.51
34:BA:9:A:H8	34:BA:9:A:H5"	1.74	0.51
35:BB:1109:A:N1	35:BB:1156:U:C2	2.79	0.51
35:BB:382:U:H2'	35:BB:384:A:C2	2.46	0.51
35:BB:423:G:C2	35:BB:424:U:C2	2.98	0.51
35:BB:73:G:H2'	35:BB:74:U:C6	2.46	0.51
35:BB:790:A:C4	35:BB:1033:U:C2	2.99	0.51
36:BC:129:C:O2	36:BC:135:A:C2	2.64	0.51
36:BC:157:U:C4'	36:BC:158:U:H6	2.24	0.51
36:BC:35:C:N3	36:BC:36:G:C5	2.79	0.51
37:BD:113:G:C5	37:BD:114:U:C4	2.99	0.51
37:BD:66:G:N1	37:BD:67:C:C2	2.79	0.51
38:BE:141:A:C5	38:BE:144:A:H1'	2.46	0.51
38:BE:24:G:O6	38:BE:179:A:C8	2.64	0.51
38:BE:48:G:C2	38:BE:49:A:C5	2.99	0.51
40:BG:105:A:N1	40:BG:108:G:C4	2.79	0.51
40:BG:88:G:C6	40:BG:112:C:N3	2.79	0.51
40:BG:28:A:C6	40:BG:178:G:O6	2.64	0.51
40:BG:55:A:H2'	40:BG:56:G:C8	2.46	0.51
40:BG:67:A:C6	40:BG:68:U:C4	2.99	0.51
40:BG:74:G:N2	40:BG:75:C:H1'	2.25	0.51
41:BH:125:U:N3	41:BH:126:C:C5	2.79	0.51
41:BH:39:G:H2'	41:BH:40:C:C6	2.46	0.51
47:BN:49:LYS:HA	47:BN:52:PHE:CZ	2.46	0.51
53:BT:23:TRP:O	53:BT:50:VAL:HA	2.10	0.51
85:AA:1503:G:H2'	85:AA:1504:A:C8	2.44	0.51
85:AA:159:G:C2	85:AA:164:G:C4	2.99	0.51
85:AA:2135:A:C2	85:AA:2184:A:C4	2.99	0.51
85:AA:376:C:H2'	85:AA:376:C:O2	2.10	0.51
85:AA:44:C:H5	85:AA:45:U:C5	2.29	0.51
35:BB:967:G:C2	35:BB:968:C:N1	2.79	0.51
85:AA:995:G:N1	85:AA:996:A:C4	2.79	0.51
5:A4:13:LEU:CD1	5:A4:47:HIS:CD2	2.86	0.51
34:BA:258:C:H2'	34:BA:259:C:C6	2.46	0.51
34:BA:522:C:H3'	34:BA:522:C:C6	2.46	0.51
34:BA:602:G:C4	34:BA:1492:G:N2	2.78	0.51
85:AA:1987:G:H5'	85:AA:1988:A:C4	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1244:G:C4	35:BB:640:A:N1	2.79	0.51
85:AA:1458:G:O2'	85:AA:1459:C:H5'	2.11	0.51
85:AA:1460:G:H2'	85:AA:1462:A:OP2	2.11	0.51
85:AA:1287:C:C5	85:AA:1468:G:H4'	2.45	0.51
13:AE:79:ASN:O	13:AE:80:VAL:HG22	2.11	0.51
7:A6:119:LYS:HB3	7:A6:123:HIS:CD2	2.46	0.51
35:BB:1001:G:C8	35:BB:1001:G:H3'	2.46	0.51
35:BB:1252:G:H1'	35:BB:1253:U:C6	2.46	0.51
35:BB:1419:G:C5	35:BB:1420:U:C5	2.99	0.51
85:AA:863:C:C2	85:AA:864:C:C6	2.98	0.51
34:BA:587:U:H3'	34:BA:588:C:C5	2.46	0.51
34:BA:1139:G:N2	34:BA:1140:A:C4	2.78	0.51
85:AA:1954:C:C2	85:AA:1955:U:C6	2.98	0.51
85:AA:1013:C:C6	85:AA:1053:A:N1	2.79	0.51
16:AH:87:HIS:CE1	16:AH:121:ARG:HB3	2.46	0.51
35:BB:630:A:H3'	35:BB:631:G:H8	1.75	0.51
85:AA:1880:C:H3'	85:AA:1881:C:C5	2.45	0.51
35:BB:891:U:N3	35:BB:893:U:N3	2.59	0.51
59:BZ:49:LYS:HA	59:BZ:67:VAL:HG11	1.93	0.51
13:AE:120:HIS:CD2	13:AE:121:ARG:N	2.79	0.51
54:BU:105:PHE:HA	54:BU:108:LYS:HE2	1.93	0.51
8:A7:192:LEU:HD13	8:A7:223:TRP:CE3	2.45	0.51
29:AV:100:TYR:C	29:AV:100:TYR:CD1	2.84	0.51
22:AO:31:TRP:CE2	22:AO:35:CYS:SG	2.94	0.51
52:BS:77:SER:O	52:BS:128:VAL:HA	2.11	0.51
35:BB:989:C:O2	35:BB:989:C:H2'	2.10	0.51
85:AA:1072:U:C2	85:AA:1079:C:C5	2.99	0.51
44:BK:98:ARG:HA	44:BK:121:LYS:O	2.11	0.51
33:AZ:62:ARG:CZ	33:AZ:73:ASN:HA	2.41	0.51
85:AA:1841:G:C6	85:AA:1842:C:C4	2.99	0.51
34:BA:1102:A:C2	34:BA:1103:G:C5	2.99	0.51
34:BA:1413:G:C2	34:BA:1414:C:C2	2.99	0.51
34:BA:1475:G:C6	34:BA:1476:G:C5	2.99	0.51
34:BA:1502:G:N1	34:BA:1503:U:C2	2.79	0.51
34:BA:450:G:C5	34:BA:1615:A:C2	2.99	0.51
34:BA:1648:G:C6	35:BB:42:A:C8	2.99	0.51
34:BA:1682:A:C2	34:BA:1683:C:C2	3.00	0.51
34:BA:1723:U:C2	34:BA:1724:G:C2	2.99	0.51
34:BA:1742:G:N2	34:BA:1783:C:C2	2.79	0.51
34:BA:1743:U:C2	34:BA:1744:C:C6	2.99	0.51
34:BA:19:G:C5	34:BA:1716:A:N1	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:402:G:C2	34:BA:404:C:C6	2.99	0.51
34:BA:453:A:N1	34:BA:454:G:C5	2.79	0.51
34:BA:753:G:C4	34:BA:785:G:C6	2.99	0.51
34:BA:757:G:H4'	34:BA:758:G:N3	2.27	0.51
34:BA:765:U:C5	34:BA:768:G:O6	2.64	0.51
34:BA:787:A:H1'	34:BA:797:A:H62	1.76	0.51
34:BA:862:C:N3	34:BA:875:G:C5	2.78	0.51
34:BA:937:G:C6	34:BA:938:C:C4	2.98	0.51
35:BB:1145:G:C6	35:BB:1146:C:C4	2.99	0.51
35:BB:1296:A:C6	35:BB:1297:G:C4	2.99	0.51
35:BB:404:A:C4	35:BB:410:A:C2	2.99	0.51
35:BB:71:A:C6	35:BB:72:G:C5	2.99	0.51
35:BB:780:U:C5	35:BB:1038:G:C6	2.99	0.51
36:BC:106:G:C4	36:BC:107:C:C6	2.99	0.51
36:BC:139:A:C2	36:BC:140:U:C5	2.98	0.51
34:BA:484:A:C2	36:BC:5:U:O2	2.64	0.51
36:BC:7:U:C2'	36:BC:8:C:C6	2.92	0.51
34:BA:480:G:C6	36:BC:8:C:N3	2.79	0.51
37:BD:44:U:C2	37:BD:45:U:C5	2.98	0.51
37:BD:66:G:H2'	37:BD:67:C:O4'	2.10	0.51
37:BD:73:U:H2'	37:BD:74:A:C4	2.46	0.51
38:BE:109:C:H2'	38:BE:111:C:OP2	2.10	0.51
38:BE:117:A:H5"	38:BE:119:U:C6	2.45	0.51
39:BF:58:U:H6	39:BF:58:U:O5'	1.94	0.51
40:BG:16:G:N2	40:BG:17:A:C4	2.79	0.51
40:BG:72:G:C4	40:BG:73:U:C5	2.99	0.51
41:BH:35:G:H3'	41:BH:36:C:C6	2.46	0.51
44:BK:85:PHE:HA	44:BK:139:ARG:O	2.10	0.51
34:BA:1496:G:N1	56:BW:21:VAL:HG21	133.32	0.51
85:AA:160:A:C6	85:AA:161:A:C5	2.98	0.51
85:AA:2115:G:C2	85:AA:2204:A:C2	2.98	0.51
85:AA:122:A:C6	85:AA:330:C:N4	2.79	0.51
85:AA:51:A:C6	85:AA:52:U:H1'	2.46	0.51
32:AY:13:LYS:HE3	85:AA:638:G:H5'	1.93	0.51
35:BB:839:G:C5	35:BB:840:C:C5	2.99	0.51
85:AA:962:U:C4	85:AA:963:U:C6	2.99	0.51
85:AA:701:C:N3	85:AA:702:G:C4	2.79	0.51
24:AQ:69:ASN:HB2	85:AA:1566:A:C4'	2.41	0.51
34:BA:194:G:C2'	34:BA:195:G:H5'	2.41	0.51
85:AA:1913:G:C6	85:AA:1914:U:C4	2.99	0.51
27:AT:10:VAL:HG11	27:AT:37:TRP:CZ2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1528:U:H6	35:BB:1528:U:O5'	1.94	0.51
85:AA:2215:C:C6	85:AA:2218:G:C8	2.99	0.51
85:AA:1526:G:O4'	85:AA:2216:A:C5	2.64	0.51
85:AA:2222:G:C6	85:AA:2223:C:C4	2.98	0.51
85:AA:270:A:C2	85:AA:979:U:C2	2.99	0.51
85:AA:2079:U:C2	85:AA:2080:U:C2	2.99	0.51
85:AA:2086:C:H3'	85:AA:2087:C:C6	2.46	0.51
85:AA:789:A:C5	85:AA:802:A:C5	2.98	0.51
34:BA:1334:G:C2	34:BA:1335:A:H1'	2.45	0.51
52:BS:100:CYS:SG	52:BS:102:ALA:HB3	2.51	0.51
85:AA:441:C:H3'	85:AA:442:G:H8	1.74	0.51
35:BB:1005:A:C2	35:BB:1014:U:H1'	2.46	0.51
35:BB:1005:A:C2	35:BB:1014:U:O2	2.64	0.51
85:AA:71:G:C2	85:AA:78:A:C5	2.99	0.51
85:AA:338:G:C5	85:AA:352:G:N1	2.79	0.51
39:BF:32:G:H8	39:BF:53:G:H3'	1.76	0.51
85:AA:766:G:C5	85:AA:767:A:H1'	2.46	0.51
34:BA:588:C:C2	34:BA:589:A:N7	2.79	0.51
34:BA:1123:G:C6	34:BA:1124:U:C4	2.99	0.51
20:AL:28:PHE:CG	85:AA:1826:U:C6	2.95	0.51
47:BN:57:LYS:HB2	47:BN:158:TYR:H	1.75	0.51
20:AL:109:LEU:HD23	20:AL:118:ARG:HH12	1.75	0.51
30:AW:64:LEU:O	30:AW:75:VAL:HG12	2.11	0.51
22:AO:162:ALA:HB2	28:AU:100:CYS:SG	2.51	0.51
34:BA:11:U:H2'	34:BA:12:G:C8	2.47	0.50
34:BA:125:G:C5	34:BA:126:G:C5	2.99	0.50
34:BA:132:U:O2	34:BA:133:A:C4	2.64	0.50
34:BA:1653:G:C6	34:BA:1654:G:C5	2.99	0.50
34:BA:165:C:C2	34:BA:166:G:C4	2.99	0.50
34:BA:1832:A:C6	34:BA:1833:G:C6	2.99	0.50
34:BA:1832:A:N6	34:BA:1833:G:C6	2.79	0.50
34:BA:382:G:C4	34:BA:383:G:C8	2.99	0.50
34:BA:442:G:C2	34:BA:467:A:C5	2.98	0.50
34:BA:475:A:C2	34:BA:1592:U:C4'	2.93	0.50
34:BA:887:U:H6	34:BA:887:U:O5'	1.94	0.50
34:BA:888:G:C6	34:BA:889:U:C5	2.99	0.50
34:BA:893:U:C2	47:BN:6:ASN:CB	2.94	0.50
34:BA:898:G:H3'	34:BA:898:G:C8	2.45	0.50
35:BB:1310:C:H6	35:BB:1310:C:O5'	1.94	0.50
35:BB:1533:U:H5	35:BB:1535:G:C5'	2.24	0.50
35:BB:1533:U:C5	35:BB:1536:G:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:404:A:C6	35:BB:410:A:N3	2.80	0.50
35:BB:624:A:N1	35:BB:625:A:C5	2.78	0.50
36:BC:106:G:H1'	36:BC:115:G:N2	2.26	0.50
36:BC:19:A:N7	36:BC:20:C:C5	2.79	0.50
34:BA:397:A:C6	36:BC:31:A:C5	2.99	0.50
36:BC:59:A:C4	36:BC:61:A:C6	2.99	0.50
37:BD:55:A:C2	37:BD:56:G:H1'	2.46	0.50
38:BE:124:G:C5	38:BE:125:C:C6	2.99	0.50
38:BE:33:C:C4	38:BE:183:C:N4	2.79	0.50
38:BE:198:A:N1	38:BE:199:A:C4	2.79	0.50
38:BE:32:U:H2'	38:BE:33:C:C6	2.46	0.50
38:BE:98:C:C4	38:BE:99:C:C4	2.99	0.50
40:BG:108:G:C5	40:BG:109:C:C6	2.99	0.50
40:BG:80:G:H5"	58:BY:19:ARG:NH1	2.26	0.50
40:BG:9:G:C4	40:BG:16:G:C2	2.99	0.50
41:BH:110:C:C2	41:BH:111:U:C6	2.99	0.50
41:BH:39:G:C4	41:BH:40:C:C6	2.99	0.50
41:BH:7:C:H3'	41:BH:8:C:H6	1.76	0.50
42:BI:32:LEU:HG	42:BI:33:TYR:CG	2.46	0.50
47:BN:48:ALA:O	47:BN:52:PHE:CD1	2.64	0.50
85:AA:480:U:N3	85:AA:482:C:C2	2.79	0.50
85:AA:30:G:C2	85:AA:671:G:C4	2.99	0.50
85:AA:88:G:H3'	85:AA:89:C:C6	2.46	0.50
35:BB:793:A:N6	35:BB:794:G:C6	2.80	0.50
35:BB:810:G:C2	35:BB:830:G:N3	2.79	0.50
35:BB:854:G:C2	35:BB:869:G:N3	2.79	0.50
35:BB:536:U:H6	35:BB:536:U:O5'	1.94	0.50
85:AA:1863:A:C5	85:AA:1864:G:C8	2.99	0.50
17:AI:133:VAL:HG22	85:AA:1558:U:O2	2.11	0.50
34:BA:676:G:C6	34:BA:677:U:O2	2.63	0.50
35:BB:1499:U:C5	35:BB:1500:U:C4	2.98	0.50
85:AA:1665:G:C6	85:AA:1666:U:C5	2.99	0.50
85:AA:1685:G:C6	85:AA:1695:G:C2	2.99	0.50
13:AE:56:LEU:H	85:AA:313:A:C1'	2.22	0.50
40:BG:152:G:C4	40:BG:153:C:C6	2.98	0.50
85:AA:610:C:C5	85:AA:611:G:N7	2.79	0.50
85:AA:614:U:C4	85:AA:616:A:C5	2.99	0.50
85:AA:902:A:C2	85:AA:914:U:O2	2.64	0.50
34:BA:1333:G:C6	34:BA:1409:A:C6	3.00	0.50
35:BB:1003:G:C2	35:BB:1004:A:C4	2.99	0.50
85:AA:68:A:H2'	85:AA:69:C:H5'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1377:A:C2	34:BA:1398:C:O2	2.64	0.50
85:AA:809:A:N1	85:AA:869:A:H2	2.09	0.50
34:BA:1000:G:C4	34:BA:1001:G:C8	2.99	0.50
35:BB:459:U:C4	35:BB:460:C:C5	2.99	0.50
85:AA:1370:G:C5	85:AA:1371:C:C5	2.98	0.50
11:AC:192:PHE:CE2	25:AR:65:CYS:HA	2.46	0.50
25:AR:64:ARG:HA	25:AR:69:SER:HB3	1.93	0.50
35:BB:48:G:C5	35:BB:50:A:C5	2.99	0.50
21:AM:90:ASP:HB3	21:AM:94:GLY:H	1.77	0.50
11:AC:144:PHE:CE1	11:AC:153:MET:SD	3.04	0.50
85:AA:646:C:C2	85:AA:647:C:C6	2.98	0.50
35:BB:284:C:H2'	35:BB:285:C:C6	2.46	0.50
85:AA:2166:G:C2	85:AA:2167:A:H1'	2.45	0.50
34:BA:1010:C:H2'	34:BA:1011:G:C8	2.46	0.50
34:BA:1297:G:C4	49:BP:19:PRO:HD2	2.45	0.50
34:BA:1049:G:N2	34:BA:1519:G:C6	2.79	0.50
34:BA:1533:G:C4	34:BA:1534:U:C5	2.99	0.50
34:BA:1585:A:C5	34:BA:1587:C:H1'	2.47	0.50
34:BA:161:U:C5	34:BA:165:C:O2	2.64	0.50
34:BA:1706:A:C2	34:BA:1707:C:H1'	2.47	0.50
34:BA:1704:G:H1	34:BA:1802:C:H42	1.59	0.50
34:BA:233:U:C4	34:BA:234:A:N7	2.79	0.50
34:BA:499:C:C4	34:BA:500:C:C5	2.98	0.50
34:BA:771:A:C8	34:BA:774:A:C4	3.00	0.50
34:BA:787:A:C2	34:BA:797:A:C6	2.99	0.50
34:BA:804:G:C6	34:BA:810:A:C6	3.00	0.50
34:BA:897:U:C2	47:BN:14:ARG:NE	2.78	0.50
34:BA:917:C:C5	34:BA:1019:C:C6	2.99	0.50
34:BA:943:G:H2'	34:BA:944:G:C8	2.46	0.50
35:BB:1211:C:H6	35:BB:1211:C:O5'	1.94	0.50
35:BB:1291:G:N1	35:BB:1314:G:C4	2.79	0.50
35:BB:1335:G:H2'	35:BB:1336:G:C8	2.46	0.50
35:BB:1459:U:OP1	40:BG:1:G:H1'	2.11	0.50
35:BB:402:G:C4	35:BB:403:U:C5	2.99	0.50
35:BB:66:G:C2	35:BB:618:U:C2	3.00	0.50
36:BC:146:U:H1'	57:BX:70:SER:HA	1.93	0.50
36:BC:18:G:H2'	36:BC:19:A:O4'	2.11	0.50
37:BD:75:G:C2	37:BD:99:G:C4	3.00	0.50
38:BE:84:U:C5	38:BE:85:G:C4	3.00	0.50
40:BG:4:A:C6	40:BG:5:G:C6	2.98	0.50
50:BQ:37:ARG:HA	50:BQ:40:GLN:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:28:C:C5	52:BS:177:VAL:HB	2.46	0.50
34:BA:539:C:H1'	34:BA:571:G:N1	2.26	0.50
85:AA:130:G:C6	85:AA:131:C:C4	2.99	0.50
85:AA:1496:U:N3	85:AA:1497:U:C4	2.79	0.50
85:AA:2132:A:C2	85:AA:2187:G:N3	2.79	0.50
85:AA:479:C:C2	85:AA:480:U:C5	2.99	0.50
85:AA:477:U:C2	85:AA:487:G:N1	2.79	0.50
85:AA:543:A:C6	85:AA:544:A:C4	2.99	0.50
85:AA:598:C:H2'	85:AA:599:C:C6	2.46	0.50
34:BA:609:G:C5	34:BA:610:A:C8	2.99	0.50
34:BA:651:U:H2'	34:BA:652:C:C6	2.46	0.50
35:BB:851:U:C4	35:BB:854:G:H4'	2.46	0.50
53:BT:174:ARG:O	53:BT:178:LEU:HG	2.12	0.50
85:AA:2208:G:C5	85:AA:2209:U:C5	2.99	0.50
35:BB:530:C:O2'	85:AA:2210:C:H4'	2.11	0.50
35:BB:465:C:C6	35:BB:509:A:C6	2.99	0.50
85:AA:1196:C:N3	85:AA:1197:U:C4	2.79	0.50
85:AA:1863:A:C2	85:AA:1864:G:H1'	2.46	0.50
34:BA:521:C:H3'	34:BA:522:C:H6	1.75	0.50
34:BA:603:U:C5	34:BA:1492:G:N7	2.79	0.50
85:AA:1911:A:H1'	85:AA:1913:G:N9	2.25	0.50
34:BA:1695:G:H3'	34:BA:1696:G:C8	2.47	0.50
34:BA:596:G:C6	34:BA:1487:U:H2'	2.46	0.50
85:AA:242:G:H2'	85:AA:243:A:C4	2.45	0.50
35:BB:1521:G:N2	35:BB:1522:G:H1'	2.26	0.50
35:BB:1527:A:C6	35:BB:1528:U:C2	3.00	0.50
85:AA:1696:U:C5	85:AA:1697:C:C4	2.99	0.50
11:AC:141:PRO:HG3	85:AA:1698:A:C4	2.46	0.50
85:AA:2173:A:C4	85:AA:2174:G:C8	3.00	0.50
85:AA:965:G:N2	85:AA:966:G:C4	2.79	0.50
3:A2:42:TRP:HE1	3:A2:51:ARG:HB3	1.76	0.50
85:AA:1540:A:N1	85:AA:1541:G:C2	2.79	0.50
85:AA:2089:G:H2'	85:AA:2090:C:C6	2.47	0.50
85:AA:889:G:C4	85:AA:890:U:C5	2.99	0.50
85:AA:407:G:C6	85:AA:408:C:C4	2.99	0.50
34:BA:1425:G:C2	34:BA:1426:A:C2	2.99	0.50
85:AA:1260:G:C2	85:AA:1261:U:O4	2.64	0.50
85:AA:339:A:C2	85:AA:351:C:C2	2.98	0.50
34:BA:925:G:C4	34:BA:926:A:C8	2.99	0.50
85:AA:345:U:C5	85:AA:346:U:C6	2.99	0.50
85:AA:1244:A:H2'	85:AA:1245:U:H6	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:480:C:C2	35:BB:501:G:C6	2.99	0.50
85:AA:1937:G:C2	85:AA:1938:G:C5	2.98	0.50
35:BB:1483:A:N7	35:BB:1484:A:C5	2.79	0.50
23:AP:163:THR:HG22	23:AP:164:ILE:HG22	1.93	0.50
4:A3:40:ALA:HA	4:A3:47:ARG:HG2	1.92	0.50
34:BA:1219:G:C5	34:BA:1220:C:C5	3.00	0.50
34:BA:1076:U:H2'	34:BA:1077:G:O4'	2.11	0.50
35:BB:1475:U:C6	35:BB:1475:U:H3'	2.46	0.50
35:BB:144:G:H1	35:BB:316:U:H3	1.57	0.50
3:A2:145:ARG:O	3:A2:149:PHE:CG	2.64	0.50
43:BJ:20:ARG:HH12	43:BJ:27:GLU:CD	2.15	0.50
35:BB:738:G:H5'	43:BJ:207:MET:HG3	1.92	0.50
34:BA:1017:C:H2'	34:BA:1018:U:C6	2.46	0.50
34:BA:1082:U:H5"	34:BA:1083:A:H5'	1.93	0.50
34:BA:1469:G:C2	34:BA:1513:G:C2	2.99	0.50
34:BA:1478:G:O6	34:BA:1482:A:C2	2.64	0.50
34:BA:1527:G:C6	34:BA:1528:U:C4	2.99	0.50
34:BA:1529:G:C6	34:BA:1530:G:C6	3.00	0.50
34:BA:15:G:C6	34:BA:16:C:C5	3.00	0.50
34:BA:1719:G:C2	34:BA:1720:U:N1	2.80	0.50
34:BA:1795:A:H3'	35:BB:789:G:C5	2.46	0.50
34:BA:214:A:C6	34:BA:214:A:C2	2.97	0.50
34:BA:359:G:O6	34:BA:362:G:H5"	2.11	0.50
34:BA:370:U:H2'	34:BA:371:U:C6	2.46	0.50
34:BA:395:G:H2'	34:BA:396:U:C5	2.46	0.50
34:BA:440:A:O2'	34:BA:442:G:C8	2.60	0.50
34:BA:704:G:C4	34:BA:705:C:C5	2.99	0.50
34:BA:737:U:H3'	34:BA:738:C:C4	2.47	0.50
35:BB:100:A:C5	35:BB:101:U:C5	2.99	0.50
35:BB:1076:U:H2'	35:BB:1077:C:C5	2.45	0.50
35:BB:1224:C:O2	35:BB:1225:A:C5	2.64	0.50
35:BB:1335:G:C2	35:BB:1336:G:C4	2.99	0.50
35:BB:375:G:C2'	35:BB:376:A:H5'	2.42	0.50
34:BA:1593:U:H3	35:BB:627:G:N2	2.09	0.50
35:BB:991:C:OP1	35:BB:991:C:C6	2.64	0.50
34:BA:478:G:C6	36:BC:11:G:N1	2.78	0.50
36:BC:53:A:C4	36:BC:54:G:C8	2.99	0.50
37:BD:105:G:C6	37:BD:106:G:C5	3.00	0.50
37:BD:30:A:N6	37:BD:31:U:C4	2.79	0.50
37:BD:32:A:C4	37:BD:46:G:N1	2.79	0.50
37:BD:77:A:C8	37:BD:78:C:C6	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:104:G:C2	38:BE:105:A:C2	2.98	0.50
38:BE:25:U:H3'	38:BE:25:U:OP1	2.12	0.50
38:BE:45:G:C6	38:BE:46:G:C6	3.00	0.50
39:BF:63:U:P	39:BF:66:C:H41	2.35	0.50
40:BG:33:G:C6	40:BG:168:A:C6	2.99	0.50
40:BG:57:A:H3'	40:BG:58:G:O4'	2.11	0.50
41:BH:121:A:C2	41:BH:123:G:N9	2.80	0.50
41:BH:7:C:N4	41:BH:129:G:C6	2.80	0.50
41:BH:61:C:H3'	41:BH:62:C:C5'	2.42	0.50
85:AA:20:G:C4	85:AA:21:U:C6	3.00	0.50
32:AY:60:GLN:HG2	85:AA:632:U:C6	2.47	0.50
85:AA:6:G:C2	85:AA:19:A:C4	2.99	0.50
85:AA:961:U:H1'	85:AA:993:G:N2	2.26	0.50
85:AA:708:G:N3	85:AA:1215:A:C2	2.80	0.50
85:AA:2012:G:H2'	85:AA:2013:A:C8	2.46	0.50
34:BA:603:U:C6	34:BA:680:C:C4	2.99	0.50
22:AO:39:PHE:CE2	22:AO:74:CYS:SG	3.04	0.50
35:BB:665:A:C2	35:BB:1404:A:C6	3.00	0.50
35:BB:1494:G:C5	35:BB:1495:U:C5	2.99	0.50
85:AA:192:G:H1'	85:AA:193:C:C4	2.47	0.50
85:AA:1294:U:O4	85:AA:1450:U:C5	2.65	0.50
85:AA:2214:A:C3'	85:AA:2215:C:H5"	2.41	0.50
85:AA:725:G:H1'	85:AA:777:U:C1'	2.41	0.50
85:AA:799:G:H3'	85:AA:800:A:H8	1.75	0.50
85:AA:894:A:H2'	85:AA:896:C:H5	1.76	0.50
85:AA:362:G:H2'	85:AA:363:A:O4'	2.11	0.50
85:AA:397:G:H2'	85:AA:398:U:C6	2.46	0.50
85:AA:382:G:O6	85:AA:415:G:C6	2.64	0.50
1:A0:89:THR:HG23	1:A0:103:HIS:CG	2.47	0.50
34:BA:1163:G:N2	34:BA:1164:C:H1'	2.26	0.50
39:BF:44:C:H2'	39:BF:45:G:C8	2.47	0.50
39:BF:49:C:C6	39:BF:49:C:O5'	2.64	0.50
85:AA:1034:U:C2	85:AA:1035:C:C6	2.99	0.50
85:AA:654:A:H2'	85:AA:656:U:OP2	2.12	0.50
86:AB:69:G:C6	86:AB:70:G:C6	3.00	0.50
35:BB:584:A:C6	35:BB:585:U:C5	2.99	0.50
34:BA:1151:A:C2	34:BA:1152:A:C4	2.99	0.50
35:BB:611:U:O5'	35:BB:611:U:C6	2.64	0.50
35:BB:436:G:N7	35:BB:438:G:C8	2.79	0.50
85:AA:1644:G:O5'	85:AA:1644:G:C8	2.64	0.50
35:BB:396:C:C4	35:BB:397:C:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AH:64:PRO:CA	16:AH:104:GLY:HA2	2.42	0.50
34:BA:1380:G:C2	34:BA:1396:A:C5	2.99	0.50
35:BB:773:G:N2	35:BB:774:C:C2	2.78	0.50
85:AA:1790:G:O5'	85:AA:1790:G:C8	2.64	0.50
14:AF:117:LYS:HE3	85:AA:1602:U:C5	2.46	0.50
2:A1:174:ASN:HA	2:A1:192:ILE:HG21	1.94	0.50
38:BE:175:U:OP2	38:BE:175:U:C6	2.64	0.50
34:BA:1583:A:C4	34:BA:1584:G:C5	2.99	0.50
35:BB:1531:G:H1	35:BB:1537:C:H42	1.59	0.50
85:AA:1930:U:C4	85:AA:1931:C:N3	2.80	0.50
56:BW:41:VAL:HG22	56:BW:60:VAL:HG12	1.92	0.50
85:AA:1510:A:H3'	85:AA:1511:C:H6	1.76	0.50
34:BA:444:A:N1	34:BA:445:C:H1'	2.26	0.50
50:BQ:60:THR:H	50:BQ:148:GLU:CD	2.15	0.50
85:AA:295:U:H5'	85:AA:296:A:C8	2.47	0.50
34:BA:1193:A:C6	34:BA:1194:G:C6	2.99	0.50
34:BA:1311:G:C6	34:BA:1312:A:C6	3.00	0.50
34:BA:1322:A:C8	34:BA:1323:G:C8	2.99	0.50
34:BA:1328:U:C2	34:BA:1329:U:C6	3.00	0.50
34:BA:1485:U:C5	34:BA:1486:U:H5	2.29	0.50
34:BA:160:G:O2'	34:BA:165:C:H4'	2.10	0.50
34:BA:1643:U:H6	34:BA:1643:U:O5'	1.94	0.50
34:BA:1845:G:N1	35:BB:5:A:C6	2.79	0.50
34:BA:304:G:C8	34:BA:304:G:H3'	2.47	0.50
34:BA:172:A:C2	34:BA:316:G:N3	2.79	0.50
34:BA:744:G:C2	34:BA:745:A:N9	2.79	0.50
34:BA:810:A:C6	34:BA:811:C:C5	3.00	0.50
34:BA:966:G:C6	34:BA:967:C:C4	2.99	0.50
35:BB:1118:G:C2	35:BB:1119:G:C4	2.99	0.50
35:BB:1230:A:C6	47:BN:206:ARG:NH2	2.80	0.50
35:BB:133:G:C6	35:BB:134:G:C5	2.99	0.50
35:BB:1372:G:C5	35:BB:1373:U:C4	3.00	0.50
35:BB:1468:A:H2'	35:BB:1469:A:C8	2.47	0.50
35:BB:415:A:C4	35:BB:416:U:C6	3.00	0.50
35:BB:390:G:C2	35:BB:599:U:H1'	2.45	0.50
35:BB:679:G:N1	35:BB:680:A:C4	2.80	0.50
35:BB:82:G:C6	35:BB:83:G:C5	2.99	0.50
35:BB:89:C:N4	35:BB:90:G:C5	2.79	0.50
36:BC:101:U:C4	36:BC:102:G:C5	2.99	0.50
36:BC:107:C:H2'	36:BC:108:A:C5'	2.42	0.50
36:BC:125:A:H61	36:BC:138:C:H42	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:125:A:N6	36:BC:126:G:C6	2.80	0.50
36:BC:40:A:C5	36:BC:41:A:C5	2.99	0.50
37:BD:23:A:C2	37:BD:24:U:C2	2.99	0.50
37:BD:37:G:C6	37:BD:38:U:C4	2.99	0.50
37:BD:95:G:H8	37:BD:95:G:O5'	1.95	0.50
38:BE:126:G:C6	38:BE:127:G:C5	2.99	0.50
38:BE:154:A:H4'	38:BE:157:C:C4	2.46	0.50
38:BE:166:G:C5	38:BE:167:U:C5	3.00	0.50
38:BE:93:U:N3	38:BE:94:U:C4	2.80	0.50
39:BF:8:C:H2'	39:BF:10:A:C5	2.45	0.50
40:BG:46:G:C6	40:BG:47:G:C4	3.00	0.50
45:BL:28:ILE:O	45:BL:73:ALA:HA	2.12	0.50
47:BN:68:VAL:HA	47:BN:71:ASN:HB3	1.94	0.50
85:AA:1226:A:C8	85:AA:1226:A:H3'	2.47	0.50
85:AA:146:U:C4	85:AA:333:A:C8	2.99	0.50
85:AA:691:U:C5	85:AA:1470:A:C4	3.00	0.50
85:AA:1508:A:C5	85:AA:1509:A:C6	2.99	0.50
85:AA:90:A:C8	85:AA:464:A:N3	2.80	0.50
35:BB:545:C:C6	35:BB:572:G:C6	2.99	0.50
35:BB:976:U:H1'	35:BB:977:G:C6	2.46	0.50
35:BB:1164:U:O4	35:BB:1200:A:C2	2.65	0.50
13:AE:172:SER:HA	85:AA:941:C:C4	2.46	0.50
85:AA:1875:A:C2	85:AA:1876:U:C2	3.00	0.50
17:AI:45:HIS:CE1	85:AA:2014:G:H3'	2.47	0.50
85:AA:2030:U:H2'	85:AA:2031:C:C6	2.47	0.50
34:BA:195:G:C8	34:BA:290:G:N3	2.79	0.50
35:BB:1288:G:C5	35:BB:1289:G:C8	2.99	0.50
35:BB:1495:U:H5"	35:BB:1495:U:C6	2.47	0.50
52:BS:75:ASN:OD1	52:BS:145:HIS:HE1	1.95	0.50
85:AA:1671:G:C4	85:AA:1672:G:C8	3.00	0.50
85:AA:1680:U:C4	85:AA:1681:G:C2	2.99	0.50
85:AA:314:C:C5	85:AA:316:C:C5	2.99	0.50
85:AA:1612:C:H3'	85:AA:1613:A:H8	1.76	0.50
85:AA:1611:A:H3'	85:AA:1622:G:N7	2.26	0.50
85:AA:968:U:H2'	85:AA:969:U:C6	2.47	0.50
85:AA:548:G:C6	85:AA:549:A:C4	3.00	0.50
85:AA:2073:U:H2'	85:AA:2074:G:C8	2.47	0.50
85:AA:914:U:C4	85:AA:915:G:C5	2.99	0.50
85:AA:78:A:C6	85:AA:79:G:C4	2.99	0.50
34:BA:1263:A:C4	34:BA:1264:U:C5	2.99	0.50
34:BA:1135:U:O5'	34:BA:1135:U:H6	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:820:G:H2'	85:AA:821:U:H6	1.74	0.50
34:BA:526:C:N3	34:BA:527:C:C6	2.80	0.50
34:BA:578:C:O2'	34:BA:579:U:C5'	2.59	0.50
85:AA:1362:A:H2'	85:AA:1363:U:H6	1.75	0.50
3:A2:12:TRP:HE1	3:A2:87:HIS:CD2	2.29	0.50
27:AT:27:GLN:HA	27:AT:81:LEU:HD23	1.93	0.50
35:BB:1069:C:H2'	35:BB:1070:G:O4'	2.11	0.50
85:AA:1731:G:N1	85:AA:1732:G:C6	2.79	0.50
85:AA:1755:U:H1'	85:AA:1791:U:C4	2.46	0.50
34:BA:409:A:C4	34:BA:410:G:C8	3.00	0.50
8:A7:91:LEU:HD22	8:A7:105:PHE:CD2	2.47	0.50
30:AW:80:PHE:CD2	30:AW:80:PHE:C	2.83	0.50
2:A1:207:LEU:HD12	2:A1:215:PHE:CD2	2.47	0.50
2:A1:105:ARG:HE	2:A1:105:ARG:HA	1.74	0.50
35:BB:1322:A:C4	35:BB:1323:U:C6	2.99	0.50
2:A1:156:THR:HG21	2:A1:224:VAL:O	2.10	0.50
34:BA:1115:A:C2	34:BA:1116:G:C5	3.00	0.50
34:BA:1201:G:C4	34:BA:1202:G:C8	2.99	0.50
34:BA:1321:A:C5	34:BA:1322:A:C8	3.00	0.50
34:BA:1329:U:C2	34:BA:1413:G:N1	2.80	0.50
34:BA:1560:U:C4	34:BA:1561:C:N4	2.80	0.50
34:BA:1745:G:C6	34:BA:1746:G:C6	2.99	0.50
34:BA:1706:A:C2	34:BA:1800:G:C1'	2.94	0.50
34:BA:27:G:C5	34:BA:28:C:C5	3.00	0.50
34:BA:324:C:H2'	34:BA:325:A:O4'	2.11	0.50
34:BA:365:A:N1	34:BA:377:G:C5	2.79	0.50
34:BA:423:G:C2	34:BA:427:G:C2	3.00	0.50
34:BA:248:G:C1'	34:BA:437:G:C6	2.95	0.50
34:BA:478:G:N1	36:BC:11:G:C2	2.80	0.50
34:BA:50:G:C6	34:BA:51:C:C4	2.99	0.50
34:BA:785:G:C4	34:BA:786:U:C6	3.00	0.50
34:BA:792:A:C4	34:BA:793:A:C5	2.99	0.50
34:BA:799:A:C4	34:BA:857:C:O3'	2.64	0.50
34:BA:848:U:O2'	34:BA:849:G:H5"	2.12	0.50
34:BA:934:G:C6	34:BA:956:G:C6	2.99	0.50
34:BA:960:C:C2	34:BA:961:C:C5	2.99	0.50
34:BA:982:A:C2	34:BA:1020:A:C4	2.99	0.50
34:BA:986:G:C4	34:BA:987:C:C5	3.00	0.50
35:BB:102:G:C6	35:BB:121:A:C6	2.99	0.50
35:BB:1036:G:N2	35:BB:1037:A:H1'	2.26	0.50
35:BB:1213:U:C2	35:BB:1214:U:C4	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1343:C:C2	35:BB:1344:U:C5	3.00	0.50
35:BB:1353:G:H1	35:BB:1364:C:N4	2.10	0.50
35:BB:1447:U:C2	35:BB:1448:U:C4	3.00	0.50
35:BB:386:G:C3'	35:BB:387:G:H8	2.25	0.50
35:BB:387:G:C6	35:BB:388:C:C6	3.00	0.50
35:BB:681:G:C6	35:BB:682:U:C4	2.99	0.50
35:BB:904:C:H2'	35:BB:905:C:C6	2.46	0.50
36:BC:129:C:H3'	36:BC:130:U:H5"	1.93	0.50
36:BC:146:U:C2'	36:BC:147:G:H5"	2.39	0.50
37:BD:29:C:H5'	45:BL:142:GLY:HA2	1.93	0.50
37:BD:76:U:C4	37:BD:77:A:C8	3.00	0.50
38:BE:180:G:H2'	38:BE:180:G:N3	2.27	0.50
38:BE:88:G:C8	38:BE:88:G:O5'	2.65	0.50
40:BG:119:A:C5	40:BG:122:G:C5	3.00	0.50
40:BG:175:G:C6	40:BG:176:G:C5	2.99	0.50
40:BG:67:A:C2	40:BG:68:U:C2	2.99	0.50
40:BG:74:G:C6	40:BG:75:C:C4	3.00	0.50
34:BA:1471:U:H4'	42:BI:17:HIS:CE1	2.46	0.50
48:BO:50:LYS:HG3	48:BO:121:VAL:HG12	1.93	0.50
34:BA:331:G:C5'	50:BQ:137:TRP:CZ3	2.94	0.50
38:BE:107:U:C6	53:BT:121:ARG:NH2	2.80	0.50
34:BA:566:G:C6	34:BA:567:U:C5	2.99	0.50
85:AA:1281:G:C4	85:AA:1282:A:C5	2.99	0.50
85:AA:152:A:H8	85:AA:152:A:O5'	1.94	0.50
85:AA:159:G:C4	85:AA:164:G:N1	2.79	0.50
85:AA:449:G:C5	85:AA:450:A:C8	3.00	0.50
85:AA:639:C:H5	85:AA:650:G:H3'	1.77	0.50
35:BB:556:U:H2'	35:BB:557:C:C6	2.46	0.50
35:BB:793:A:C2	35:BB:794:G:C4	3.00	0.50
35:BB:812:G:C6	35:BB:828:G:C6	2.99	0.50
35:BB:814:A:C2	35:BB:826:G:C6	2.99	0.50
85:AA:959:C:C5	85:AA:995:G:C2	3.00	0.50
49:BP:93:ARG:O	49:BP:96:HIS:CD2	2.65	0.50
85:AA:1563:U:C6	85:AA:1585:A:C5	3.00	0.50
85:AA:1927:G:H1	85:AA:1984:A:N6	2.08	0.50
85:AA:1959:G:N2	85:AA:1978:G:H1	2.10	0.50
35:BB:666:A:N7	35:BB:667:G:C5	2.80	0.50
34:BA:1696:G:C5	34:BA:1697:U:O2	2.64	0.50
35:BB:1496:C:O5'	35:BB:1496:C:C6	2.64	0.50
35:BB:1521:G:N2	35:BB:1547:U:C2	2.80	0.50
35:BB:1529:G:N2	35:BB:1540:U:H1'	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1459:C:C4	85:AA:1460:G:C5	2.98	0.50
85:AA:2223:C:H2'	85:AA:2224:U:C6	2.46	0.50
85:AA:971:U:N3	85:AA:972:G:C5	2.80	0.50
85:AA:725:G:H2'	85:AA:726:U:C5'	2.42	0.50
85:AA:906:U:H1'	85:AA:908:C:C5'	2.41	0.50
34:BA:1341:A:C2	34:BA:1405:A:N3	2.80	0.50
34:BA:1409:A:H2'	34:BA:1410:C:O4'	2.11	0.50
85:AA:402:G:C6	85:AA:404:A:N9	2.79	0.50
1:A0:99:LEU:HD23	1:A0:234:HIS:CG	2.45	0.50
34:BA:1425:G:C6	34:BA:1426:A:N1	2.79	0.50
35:BB:1017:U:C6	35:BB:1017:U:H3'	2.46	0.50
34:BA:205:G:C2	34:BA:252:A:C2	2.98	0.50
85:AA:868:A:H3'	85:AA:869:A:H8	1.76	0.50
85:AA:1297:G:N1	85:AA:1298:G:C5	2.79	0.50
34:BA:689:C:H2'	39:BF:4:A:N6	2.26	0.50
85:AA:1303:U:C5	85:AA:1305:A:C2	2.99	0.50
35:BB:452:A:H2'	35:BB:453:C:C6	2.46	0.50
85:AA:832:U:O2	85:AA:834:U:C5	2.65	0.50
35:BB:743:C:H2'	35:BB:744:U:H4'	1.94	0.50
86:AB:52:G:C2	86:AB:53:G:C8	3.00	0.50
34:BA:736:G:C2	34:BA:901:C:C2	2.99	0.50
85:AA:1604:A:C6	85:AA:1633:A:H3'	2.46	0.50
25:AR:23:HIS:CG	25:AR:58:CYS:H	2.30	0.50
2:A1:182:GLY:HA2	2:A1:186:ARG:CZ	2.41	0.50
7:A6:81:GLY:O	7:A6:149:VAL:HB	2.12	0.50
10:A9:140:ARG:HE	10:A9:149:THR:HG23	1.75	0.50
34:BA:1255:G:H3'	34:BA:1256:A:H2'	1.93	0.50
34:BA:1418:G:C4	34:BA:1419:A:N7	2.80	0.50
34:BA:1559:C:N3	34:BA:1560:U:C5	2.80	0.50
34:BA:156:U:H5'	34:BA:167:U:H5"	1.92	0.50
34:BA:238:C:O5'	34:BA:238:C:H6	1.94	0.50
34:BA:392:A:H4'	34:BA:393:G:C5	2.47	0.50
34:BA:23:A:H5"	34:BA:394:A:C4	2.46	0.50
34:BA:430:A:C6	34:BA:431:A:C5	2.99	0.50
34:BA:455:A:C6	34:BA:456:G:C5	2.99	0.50
34:BA:63:A:O2'	34:BA:379:C:H5'	2.11	0.50
34:BA:729:C:H2'	34:BA:730:C:H6	1.76	0.50
35:BB:1123:A:C5	35:BB:1127:A:C5	3.00	0.50
35:BB:125:G:H2'	35:BB:126:C:H6	1.76	0.50
35:BB:1410:G:C4	35:BB:1411:U:C6	3.00	0.50
35:BB:375:G:N1	35:BB:376:A:C4	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:125:A:C5	36:BC:126:G:N7	2.79	0.50
36:BC:72:A:C4	36:BC:73:U:C6	3.00	0.50
37:BD:59:G:C2	37:BD:60:C:C2	3.00	0.50
37:BD:98:G:H3'	37:BD:99:G:C8	2.47	0.50
39:BF:57:C:C6	39:BF:57:C:O5'	2.64	0.50
34:BA:239:C:O2	40:BG:13:A:C5	2.65	0.50
40:BG:56:G:C6	40:BG:57:A:C6	3.00	0.50
40:BG:90:G:C6	40:BG:91:U:C4	2.99	0.50
41:BH:101:A:C5	41:BH:102:C:C4	2.99	0.50
35:BB:1534:U:C6	41:BH:27:A:N3	2.80	0.50
41:BH:32:U:C4	41:BH:33:G:C4	3.00	0.50
37:BD:57:C:H5"	45:BL:151:ARG:CZ	2.42	0.50
41:BH:97:C:C6	55:BV:63:LYS:HD3	2.47	0.50
58:BY:33:LEU:HD13	58:BY:35:PHE:CZ	2.46	0.50
85:AA:1495:G:C4	85:AA:1496:U:C6	3.00	0.50
85:AA:157:G:H2'	85:AA:158:C:C6	2.46	0.50
85:AA:2187:G:C6	85:AA:2188:C:C5	3.00	0.50
85:AA:123:A:N1	85:AA:330:C:C4	2.79	0.50
85:AA:99:U:O4	85:AA:426:C:H4'	2.11	0.50
35:BB:797:C:N3	35:BB:798:A:C6	2.80	0.50
35:BB:816:U:C2	35:BB:817:C:C5	2.99	0.50
34:BA:947:A:C6	34:BA:948:C:H1'	2.46	0.50
85:AA:1140:G:N1	85:AA:1141:U:C2	2.80	0.50
85:AA:944:C:C5	85:AA:945:A:H2'	2.46	0.50
21:AM:143:ARG:NH1	85:AA:1548:A:H4'	2.26	0.50
85:AA:2013:A:C5	85:AA:2014:G:C5	2.99	0.50
35:BB:1286:G:C6	35:BB:1321:G:C2	3.00	0.50
85:AA:589:A:C8	85:AA:605:A:C2	3.00	0.50
85:AA:1673:A:C2	85:AA:1674:G:C4	2.99	0.50
85:AA:1681:G:H2'	85:AA:1682:U:C5	2.46	0.50
85:AA:1694:C:C4	85:AA:1695:G:C5	2.99	0.50
85:AA:267:U:O2	85:AA:268:A:C2	2.65	0.50
85:AA:981:A:C2'	85:AA:982:G:H5'	2.41	0.50
85:AA:553:G:C4	85:AA:575:G:C2	3.00	0.50
85:AA:547:A:C8	85:AA:612:A:C2	3.00	0.50
85:AA:2081:A:N7	85:AA:2082:C:H5	2.09	0.50
85:AA:721:C:N3	85:AA:722:G:C5	2.79	0.50
85:AA:890:U:O2	85:AA:918:U:C4	2.65	0.50
34:BA:1409:A:C4	34:BA:1410:C:C6	2.99	0.50
34:BA:251:U:O4	34:BA:252:A:C5	2.65	0.50
85:AA:71:G:C4	85:AA:76:G:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:53:G:O3'	39:BF:54:U:C6	2.65	0.50
85:AA:741:G:N1	85:AA:767:A:C2	2.80	0.50
85:AA:750:A:H2'	85:AA:751:C:O4'	2.12	0.50
34:BA:524:G:C6	34:BA:525:A:N7	2.79	0.50
35:BB:608:A:N1	35:BB:609:G:C6	2.79	0.50
85:AA:1164:A:C2	85:AA:1165:C:H1'	2.46	0.50
85:AA:1142:G:C6	85:AA:1169:A:C6	3.00	0.50
35:BB:419:G:C2	35:BB:454:U:H1'	2.46	0.50
85:AA:1610:G:H1	85:AA:1629:C:N4	2.10	0.50
35:BB:412:A:C2	35:BB:548:A:C8	2.99	0.50
85:AA:1375:U:H5"	85:AA:1418:U:C6	2.47	0.50
34:BA:1085:G:H21	34:BA:1218:G:H5'	1.76	0.50
35:BB:1531:G:C2	35:BB:1532:C:C2	2.99	0.50
85:AA:1725:G:C8	85:AA:1982:C:C2'	2.94	0.50
35:BB:741:A:H2'	35:BB:742:G:C8	2.46	0.50
11:AC:147:GLN:HA	11:AC:152:PHE:CG	2.47	0.50
11:AC:146:ASN:HD22	11:AC:149:GLN:CD	2.15	0.50
34:BA:1009:G:C4	34:BA:1010:C:C5	2.99	0.50
34:BA:1009:G:H3'	34:BA:1010:C:C6	2.46	0.50
34:BA:1073:G:C4	34:BA:1221:A:N1	2.80	0.50
34:BA:1194:G:N2	34:BA:1195:G:C4	2.79	0.50
34:BA:1440:C:C4	34:BA:1441:C:C5	3.00	0.50
34:BA:1451:A:C2'	34:BA:1452:U:H4'	2.42	0.50
34:BA:1522:G:H2'	34:BA:1523:U:C6	2.47	0.50
34:BA:1578:A:C4	34:BA:1580:U:C5	3.00	0.50
34:BA:1845:G:N1	35:BB:6:A:C5	2.79	0.50
34:BA:19:G:N1	36:BC:36:G:N1	2.60	0.50
34:BA:301:U:C3'	34:BA:303:C:H1'	2.41	0.50
34:BA:31:A:C2	34:BA:32:A:C4	3.00	0.50
34:BA:38:G:H3'	34:BA:39:C:C6	2.47	0.50
34:BA:407:A:C6	34:BA:414:A:C5	3.00	0.50
34:BA:41:U:C5	34:BA:42:A:C8	3.00	0.50
34:BA:42:A:C5	34:BA:43:U:C5	3.00	0.50
34:BA:449:G:N3	34:BA:453:A:C5	2.79	0.50
34:BA:740:A:C2	34:BA:741:A:C4	3.00	0.50
34:BA:751:A:C2	34:BA:886:G:C6	2.99	0.50
34:BA:808:U:OP1	34:BA:809:U:C2	2.65	0.50
34:BA:915:A:C2	34:BA:919:A:C6	3.00	0.50
35:BB:623:A:H2'	35:BB:623:A:N3	2.26	0.50
35:BB:650:A:C6	35:BB:651:G:C5	2.99	0.50
35:BB:779:C:H2'	35:BB:780:U:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:878:G:C2	35:BB:900:C:H1'	2.46	0.50
36:BC:139:A:O5'	36:BC:139:A:C8	2.65	0.50
34:BA:396:U:C5	36:BC:34:U:O4	2.64	0.50
37:BD:7:G:H2'	37:BD:8:A:C8	2.46	0.50
37:BD:93:G:C2'	37:BD:94:C:H6	2.25	0.50
38:BE:159:A:N7	38:BE:160:C:H1'	2.27	0.50
39:BF:8:C:C6	39:BF:10:A:N1	2.80	0.50
39:BF:61:A:C5'	39:BF:62:U:C5	2.95	0.50
40:BG:133:C:C6	40:BG:157:A:C5	3.00	0.50
40:BG:35:G:N1	40:BG:36:G:C5	2.80	0.50
40:BG:8:U:H1'	40:BG:17:A:C2	2.47	0.50
41:BH:57:A:H2'	41:BH:58:C:C6	2.47	0.50
41:BH:8:C:H3'	41:BH:9:C:C5	2.47	0.50
39:BF:22:U:H2'	48:BO:136:ARG:NH2	2.27	0.50
4:A3:152:ARG:HG2	85:AA:145:C:H5"	1.93	0.50
85:AA:1274:A:C5	85:AA:1276:A:C4	3.00	0.50
85:AA:1505:G:C2	85:AA:1506:U:C2	3.00	0.50
85:AA:28:A:C2	85:AA:29:U:C2	3.00	0.50
85:AA:331:G:H3'	85:AA:332:A:H5"	1.94	0.50
85:AA:540:A:C2	85:AA:541:A:C8	3.00	0.50
85:AA:680:U:N3	85:AA:682:C:C4	2.79	0.50
85:AA:698:G:C8	85:AA:698:G:O5'	2.64	0.50
85:AA:85:U:C6	85:AA:85:U:C3'	2.94	0.50
35:BB:558:U:C2	35:BB:569:G:C2	3.00	0.50
35:BB:850:U:H1'	35:BB:852:G:P	2.51	0.50
5:A4:6:HIS:HE1	53:BT:191:ASP:C	1.66	0.50
35:BB:467:G:C5	35:BB:468:U:C5	3.00	0.50
85:AA:942:A:O3'	85:AA:943:U:C6	2.65	0.50
85:AA:1561:A:H4'	85:AA:1586:C:H2'	1.94	0.50
59:BZ:97:HIS:CE1	59:BZ:100:ASN:N	2.80	0.50
34:BA:1242:A:C6	34:BA:1243:A:C6	3.00	0.50
35:BB:1289:G:C6	35:BB:1290:C:C5	2.99	0.50
35:BB:666:A:N7	35:BB:667:G:C6	2.80	0.50
35:BB:641:C:C4	35:BB:1399:A:C5	3.00	0.50
85:AA:2216:A:C5	85:AA:2218:G:C2	2.99	0.50
85:AA:1532:G:H2'	85:AA:1533:C:C6	2.47	0.50
24:AQ:15:GLN:NE2	24:AQ:115:HIS:CE1	2.77	0.50
85:AA:900:G:C2	85:AA:901:C:C6	3.00	0.50
85:AA:113:U:N3	85:AA:114:C:C5	2.79	0.50
85:AA:382:G:C5	85:AA:383:C:C5	3.00	0.50
85:AA:1234:G:C2	85:AA:1266:C:C2	2.98	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:925:G:C2	34:BA:999:G:C4	2.99	0.50
34:BA:999:G:O6	34:BA:1000:G:C6	2.65	0.50
85:AA:746:G:C2	85:AA:759:G:C5	3.00	0.50
34:BA:526:C:H42	34:BA:585:G:H1	1.59	0.50
34:BA:527:C:C6	34:BA:527:C:O5'	2.65	0.50
85:AA:654:A:C2	85:AA:657:C:C5	3.00	0.50
3:A2:12:TRP:HE1	3:A2:87:HIS:CG	2.30	0.50
6:A5:130:THR:HB	6:A5:158:LEU:HD22	1.92	0.50
35:BB:1487:G:H2'	35:BB:1488:G:C8	2.46	0.50
35:BB:1487:G:C6	35:BB:1488:G:C5	3.00	0.50
27:AT:132:MET:CE	27:AT:132:MET:H	2.25	0.50
35:BB:1246:C:H2'	35:BB:1247:C:H5'	1.93	0.50
34:BA:107:C:H2'	47:BN:96:ARG:CZ	2.42	0.50
22:AO:27:HIS:HB3	22:AO:29:TRP:CE3	2.47	0.50
58:BY:45:MET:SD	58:BY:45:MET:N	2.85	0.50
34:BA:1011:G:C2	34:BA:1013:A:N3	2.80	0.50
34:BA:1072:U:H3'	34:BA:1072:U:C6	2.47	0.50
34:BA:1145:U:O2	44:BK:196:HIS:CE1	2.64	0.50
34:BA:1161:G:N3	34:BA:1162:U:C6	2.80	0.50
34:BA:1228:G:O5'	34:BA:1228:G:C8	2.65	0.50
34:BA:127:U:O5'	34:BA:127:U:H6	1.95	0.50
34:BA:1588:U:H2'	34:BA:1589:U:C5	2.47	0.50
34:BA:1613:G:C6	34:BA:1614:G:C5	2.99	0.50
34:BA:1700:C:C5	34:BA:1701:U:C5	3.00	0.50
34:BA:1736:A:C2'	34:BA:1737:A:H5'	2.41	0.50
34:BA:1815:G:N1	34:BA:1816:G:C5	2.80	0.50
34:BA:216:C:C5	34:BA:216:C:OP2	2.64	0.50
34:BA:440:A:N3	34:BA:441:A:C5	2.80	0.50
34:BA:739:A:C6	47:BN:14:ARG:HB2	2.47	0.50
34:BA:853:A:N1	34:BA:854:A:C5	2.79	0.50
35:BB:108:G:C4	35:BB:109:U:C4	3.00	0.50
35:BB:1218:G:H1	35:BB:1231:U:P	2.35	0.50
35:BB:490:G:H1	35:BB:1241:U:H1'	1.77	0.50
35:BB:126:C:O5'	35:BB:126:C:C6	2.64	0.50
35:BB:446:U:C2	35:BB:448:G:C6	2.99	0.50
35:BB:657:A:C4	35:BB:658:G:C8	3.00	0.50
35:BB:696:G:C4	35:BB:697:G:N7	2.79	0.50
34:BA:1845:G:C6	35:BB:6:A:C6	2.99	0.50
36:BC:104:A:H4'	36:BC:105:C:C6	2.45	0.50
34:BA:480:G:N1	36:BC:9:G:C6	2.79	0.50
37:BD:86:A:C6	37:BD:87:G:C5	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:114:G:O6	38:BE:115:U:C4	2.65	0.50
38:BE:179:A:H4'	38:BE:180:G:H4'	1.94	0.50
38:BE:75:C:C4	38:BE:76:U:C5	2.99	0.50
40:BG:111:C:C4	40:BG:112:C:C5	2.99	0.50
40:BG:80:G:N3	40:BG:119:A:C2	2.80	0.50
41:BH:29:G:C2'	41:BH:30:C:H5'	2.38	0.50
34:BA:1424:G:C4	48:BO:79:ARG:O	2.65	0.50
34:BA:543:A:H3'	34:BA:543:A:C8	2.47	0.50
34:BA:561:U:O2'	34:BA:562:C:C5'	2.59	0.50
85:AA:24:U:H3'	85:AA:25:C:H5"	1.94	0.50
85:AA:925:G:C4	85:AA:926:C:C6	2.99	0.50
34:BA:633:G:N1	34:BA:649:A:C6	2.80	0.50
35:BB:795:A:C2	35:BB:1028:C:N3	2.80	0.50
35:BB:830:G:C8	35:BB:830:G:H3'	2.45	0.50
15:AG:128:TYR:CE2	85:AA:1214:C:H4'	2.47	0.50
15:AG:77:HIS:CD2	15:AG:77:HIS:C	2.83	0.50
34:BA:201:A:H62	59:BZ:100:ASN:HA	1.76	0.50
34:BA:253:U:C4	34:BA:254:U:C6	2.99	0.50
85:AA:190:A:C2	85:AA:249:C:C2	3.00	0.50
85:AA:1290:G:C2	85:AA:1291:A:N7	2.79	0.50
85:AA:1707:G:O5'	85:AA:1707:G:C8	2.64	0.50
13:AE:55:GLY:HA2	85:AA:313:A:H1'	1.92	0.50
85:AA:2147:A:C8	85:AA:2148:C:C5	2.99	0.50
85:AA:276:C:C2	85:AA:277:G:C8	2.99	0.50
85:AA:577:U:H3'	85:AA:578:U:C5'	2.42	0.50
85:AA:1991:C:H42	85:AA:2075:C:C4'	2.25	0.50
85:AA:2056:C:C4	85:AA:2057:G:N7	2.80	0.50
85:AA:782:G:C6	85:AA:783:C:C4	3.00	0.50
85:AA:16:G:N3	85:AA:16:G:H2'	2.26	0.50
16:AH:49:VAL:HG21	16:AH:74:VAL:HG22	1.93	0.50
85:AA:1153:G:C8	85:AA:1154:A:O5'	2.64	0.50
35:BB:1430:G:C5	35:BB:1431:G:N7	2.80	0.50
34:BA:1346:U:H3	34:BA:1399:A:N6	2.07	0.50
85:AA:860:C:H1'	85:AA:861:G:C6	2.47	0.50
34:BA:1001:G:N2	34:BA:1002:U:H1'	2.27	0.50
34:BA:523:A:C4	34:BA:524:G:C8	3.00	0.50
34:BA:529:A:C4	34:BA:530:A:C8	3.00	0.50
35:BB:474:G:H1'	35:BB:505:G:N2	2.26	0.50
35:BB:542:A:C2	35:BB:579:A:C2	3.00	0.50
34:BA:686:U:H3'	34:BA:686:U:C6	2.46	0.50
35:BB:1482:A:C2	35:BB:1483:A:C5	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1175:A:C2	35:BB:1177:U:C1'	2.95	0.50
27:AT:128:ALA:HB1	27:AT:132:MET:SD	2.51	0.50
11:AC:57:MET:HB3	11:AC:209:MET:HG3	1.93	0.50
34:BA:343:G:C6	34:BA:344:G:C6	2.99	0.50
50:BQ:47:PHE:CD2	50:BQ:146:TRP:CE2	3.00	0.50
34:BA:736:G:C5	34:BA:901:C:C6	2.99	0.50
34:BA:1252:G:C6	34:BA:1253:G:C5	3.00	0.50
34:BA:444:A:C8	34:BA:445:C:C5	3.00	0.50
29:AV:91:ARG:CB	29:AV:92:PRO:HD2	2.41	0.50
34:BA:1195:G:H2'	34:BA:1196:C:O4'	2.12	0.50
34:BA:1200:U:C4	34:BA:1202:G:O6	2.64	0.50
34:BA:1330:G:C2	34:BA:1412:G:C2	3.00	0.50
34:BA:1547:G:C6	34:BA:1562:G:C5	2.99	0.50
34:BA:1621:U:H2'	34:BA:1623:U:C5	2.47	0.50
34:BA:1661:U:O2	34:BA:1663:U:C4	2.65	0.50
34:BA:1667:G:H2'	34:BA:1668:C:O4'	2.12	0.50
34:BA:351:A:H5"	50:BQ:114:ASN:CB	2.42	0.50
34:BA:52:G:N1	34:BA:53:G:C4	2.79	0.50
34:BA:59:A:N6	34:BA:60:A:C6	2.80	0.50
34:BA:692:U:H6	34:BA:692:U:C5'	2.25	0.50
34:BA:790:G:C5	34:BA:794:G:C6	3.00	0.50
34:BA:890:G:C2	34:BA:891:C:C2	3.00	0.50
34:BA:908:G:O6	34:BA:909:G:C6	2.65	0.50
34:BA:917:C:C4	34:BA:918:U:C4	3.00	0.50
35:BB:106:A:C5	35:BB:117:A:C2	3.00	0.50
35:BB:1236:A:C6	35:BB:1237:C:C4	2.99	0.50
34:BA:38:G:H1'	35:BB:1259:A:H61	1.77	0.50
35:BB:1299:G:C8	35:BB:1302:C:N3	2.80	0.50
35:BB:1347:C:H2'	35:BB:1348:C:H6	1.76	0.50
35:BB:1358:A:C5	35:BB:1359:G:C8	2.99	0.50
37:BD:52:U:C2	37:BD:53:U:C5	3.00	0.50
37:BD:90:A:OP2	37:BD:90:A:C8	2.64	0.50
38:BE:186:C:C5	38:BE:189:A:C4	2.99	0.50
38:BE:26:G:C6	38:BE:27:A:C5	3.00	0.50
38:BE:48:G:N1	38:BE:49:A:C5	2.80	0.50
40:BG:44:G:C6	40:BG:45:G:N7	2.80	0.50
41:BH:121:A:C2	41:BH:123:G:C4	3.00	0.50
41:BH:39:G:C5	41:BH:40:C:C4	3.00	0.50
42:BI:29:LEU:HA	42:BI:32:LEU:HD23	1.93	0.50
39:BF:22:U:C2	48:BO:136:ARG:CZ	2.95	0.50
34:BA:541:C:C2	34:BA:542:A:C8	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1282:A:C2	85:AA:1283:C:C2	3.00	0.50
85:AA:2135:A:C2	85:AA:2184:A:C2	2.99	0.50
85:AA:2:A:C4	85:AA:435:A:C4	2.99	0.50
85:AA:376:C:C5	85:AA:423:G:N1	2.80	0.50
85:AA:89:C:OP2	85:AA:90:A:C2	2.65	0.50
35:BB:817:C:C4	35:BB:823:G:C6	3.00	0.50
35:BB:856:U:C4	35:BB:857:G:N7	2.80	0.50
85:AA:958:C:O2	85:AA:959:C:C6	2.64	0.50
29:AV:17:ARG:HH22	85:AA:1184:A:H3'	1.77	0.50
35:BB:516:G:C4	35:BB:539:G:C6	3.00	0.50
85:AA:932:A:H2'	85:AA:933:U:C6	2.47	0.50
85:AA:938:A:C5	85:AA:939:A:N9	2.80	0.50
85:AA:1544:G:C4	85:AA:2046:G:N1	2.80	0.50
85:AA:1584:U:H1'	85:AA:1585:A:C6	2.47	0.50
85:AA:1960:C:C2	85:AA:1978:G:C2	2.99	0.50
34:BA:1241:U:C6	34:BA:1242:A:C8	2.99	0.50
35:BB:1288:G:C2	35:BB:1319:U:C5	2.99	0.50
35:BB:1529:G:C2	35:BB:1540:U:C2	3.00	0.50
85:AA:2218:G:H5"	85:AA:2219:G:H5'	1.94	0.50
85:AA:2236:U:C2	85:AA:2237:G:C8	3.00	0.50
85:AA:2147:A:H3'	85:AA:2148:C:C6	2.47	0.50
85:AA:987:C:C4	85:AA:989:U:OP1	2.65	0.50
85:AA:549:A:C2	85:AA:550:G:C5	3.00	0.50
85:AA:567:G:C5	85:AA:568:C:C4	3.00	0.50
85:AA:794:A:C8	85:AA:794:A:O5'	2.65	0.50
57:BX:88:PRO:HA	57:BX:106:PHE:CD2	2.47	0.50
34:BA:1337:A:C2	34:BA:1405:A:C6	3.00	0.50
85:AA:114:C:C4	85:AA:115:U:C6	3.00	0.50
85:AA:367:A:C8	85:AA:368:C:H5	2.30	0.50
16:AH:53:MET:HA	85:AA:1148:G:H5'	1.94	0.50
85:AA:1938:G:C6	85:AA:1939:C:C4	2.99	0.50
34:BA:979:G:C5	34:BA:981:A:C4	3.00	0.50
85:AA:1880:C:H2'	85:AA:1881:C:C6	2.47	0.50
85:AA:1373:U:C6	85:AA:1373:U:C5'	2.95	0.50
85:AA:1904:C:N3	85:AA:1905:A:C8	2.80	0.50
35:BB:552:C:C4	35:BB:553:U:N3	2.79	0.50
85:AA:1930:U:H2'	85:AA:1931:C:C6	2.47	0.50
15:AG:25:TRP:CZ3	15:AG:26:LEU:HB3	2.47	0.50
23:AP:236:THR:O	23:AP:240:TRP:CG	2.65	0.50
2:A1:178:VAL:HG22	2:A1:224:VAL:HA	1.93	0.50
17:AI:64:LEU:HA	17:AI:67:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AP:224:THR:O	23:AP:227:ALA:HB3	2.12	0.50
34:BA:1115:A:N1	34:BA:1116:G:C5	2.79	0.49
34:BA:1192:A:C6	34:BA:1193:A:C4	3.00	0.49
34:BA:1203:G:C6	34:BA:1204:U:C5	3.00	0.49
34:BA:1203:G:N1	34:BA:1204:U:C2	2.80	0.49
34:BA:1587:C:C4	34:BA:1588:U:C5	2.99	0.49
34:BA:1687:A:H2'	34:BA:1688:G:C8	2.47	0.49
34:BA:1719:G:C2	34:BA:1720:U:C2	3.00	0.49
34:BA:1738:G:O5'	34:BA:1738:G:H8	1.95	0.49
34:BA:1732:A:N6	34:BA:1792:U:H3	2.03	0.49
34:BA:234:A:C6	34:BA:235:C:C2	3.00	0.49
34:BA:239:C:C5	34:BA:240:C:C6	3.00	0.49
34:BA:373:G:C6	35:BB:1238:A:C6	3.00	0.49
34:BA:499:C:H2'	34:BA:500:C:C6	2.46	0.49
34:BA:60:A:C4	34:BA:61:G:C8	3.00	0.49
34:BA:771:A:C5'	34:BA:774:A:N6	2.75	0.49
35:BB:1040:C:C4	35:BB:1041:A:C6	3.00	0.49
35:BB:112:G:N2	35:BB:113:C:C6	2.80	0.49
35:BB:1141:A:C4	35:BB:1142:C:C5	3.00	0.49
35:BB:1306:G:H2'	35:BB:1307:C:O4'	2.12	0.49
35:BB:374:A:C2	35:BB:375:G:N9	2.80	0.49
35:BB:128:C:N3	35:BB:376:A:C2	2.80	0.49
35:BB:449:C:C2	35:BB:450:A:C8	2.99	0.49
35:BB:656:A:C5	35:BB:1449:G:C2	3.00	0.49
35:BB:68:G:C6	35:BB:69:A:N6	2.80	0.49
35:BB:83:G:H2'	35:BB:84:G:C8	2.47	0.49
35:BB:94:A:C6	35:BB:95:A:C5	2.99	0.49
36:BC:132:U:H2'	36:BC:133:C:C5'	2.42	0.49
34:BA:6:C:N3	36:BC:166:G:C6	2.80	0.49
37:BD:4:U:H2'	37:BD:5:A:C8	2.47	0.49
37:BD:94:C:C3'	37:BD:95:G:C8	2.95	0.49
38:BE:29:C:C5	38:BE:190:U:C6	3.00	0.49
39:BF:5:U:O2	39:BF:6:C:H5'	2.12	0.49
40:BG:34:A:H1'	40:BG:169:A:C5	2.46	0.49
41:BH:25:A:C8	41:BH:128:G:C6	3.00	0.49
35:BB:1534:U:C6	41:BH:27:A:C2	3.00	0.49
41:BH:33:G:O2'	41:BH:34:G:C8	2.62	0.49
41:BH:43:G:C4	41:BH:111:U:H4'	2.47	0.49
48:BO:89:PHE:O	48:BO:91:HIS:CE1	2.64	0.49
58:BY:59:TYR:CE2	58:BY:65:LYS:HE3	2.47	0.49
85:AA:2185:U:H2'	85:AA:2186:U:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:635:G:C6	85:AA:659:A:N1	2.80	0.49
85:AA:23:G:C6	85:AA:677:U:O4	2.65	0.49
85:AA:99:U:H2'	85:AA:100:A:C8	2.47	0.49
35:BB:837:A:H5"	35:BB:1026:G:C2	2.47	0.49
35:BB:867:C:C2	35:BB:868:C:C6	3.00	0.49
85:AA:708:G:C2	85:AA:1215:A:C4	3.00	0.49
35:BB:1193:G:H2'	35:BB:1195:A:OP2	2.11	0.49
35:BB:537:A:C5	35:BB:538:A:C6	3.00	0.49
85:AA:1583:U:H6	85:AA:1583:U:O5'	1.95	0.49
34:BA:257:G:H2'	34:BA:258:C:C6	2.47	0.49
34:BA:262:A:C2	34:BA:279:U:C4	3.00	0.49
34:BA:279:U:C3'	34:BA:280:A:C8	2.95	0.49
34:BA:677:U:H1'	34:BA:678:C:C5	2.46	0.49
35:BB:665:A:C4	35:BB:1404:A:N6	2.80	0.49
22:AO:63:ALA:HB1	22:AO:64:PRO:HD2	1.93	0.49
35:BB:1496:C:C6	35:BB:1510:G:N2	2.80	0.49
85:AA:1287:C:H42	85:AA:1469:G:H21	1.60	0.49
85:AA:2137:A:C5	85:AA:2138:G:C5	3.00	0.49
34:BA:1333:G:C6	34:BA:1409:A:N1	2.80	0.49
85:AA:395:G:C4	85:AA:396:U:C5	3.00	0.49
85:AA:395:G:N1	85:AA:396:U:C4	2.80	0.49
34:BA:1091:U:H2'	34:BA:1092:U:C6	2.47	0.49
85:AA:339:A:C8	85:AA:339:A:O5'	2.65	0.49
85:AA:352:G:C2	85:AA:353:G:C4	3.00	0.49
11:AC:55:LEU:HD23	11:AC:60:HIS:CG	2.46	0.49
85:AA:811:A:N1	85:AA:812:C:C4	2.81	0.49
85:AA:823:C:C2	85:AA:824:C:C6	3.00	0.49
85:AA:865:G:C5	85:AA:866:U:C6	2.99	0.49
85:AA:865:G:N1	85:AA:866:U:C2	2.80	0.49
35:BB:961:G:C6	35:BB:962:U:C5	3.00	0.49
35:BB:1179:C:H2'	35:BB:1180:G:C8	2.47	0.49
85:AA:1065:G:C5	85:AA:1066:U:C4	3.00	0.49
85:AA:510:A:C2	85:AA:511:A:C4	2.99	0.49
85:AA:1903:G:C5	85:AA:1904:C:C6	2.99	0.49
85:AA:319:U:C2	85:AA:320:U:C5	3.00	0.49
5:A4:68:TYR:H	5:A4:100:ALA:HA	1.77	0.49
29:AV:96:ARG:O	85:AA:2247:C:C6	2.65	0.49
34:BA:1202:G:C5	34:BA:1203:G:C8	2.99	0.49
34:BA:121:A:N1	34:BA:146:G:H1'	2.26	0.49
34:BA:1221:A:C2	34:BA:1222:C:C4	3.00	0.49
34:BA:1261:G:H2'	34:BA:1262:A:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1329:U:C2	34:BA:1413:G:C6	2.99	0.49
34:BA:1417:C:C2	34:BA:1418:G:C8	3.00	0.49
34:BA:1424:G:C6	48:BO:80:LYS:HA	2.47	0.49
34:BA:1456:C:H3'	34:BA:1457:C:C5	2.47	0.49
34:BA:1477:C:C5	34:BA:1505:G:O4'	2.66	0.49
34:BA:1503:U:C3'	34:BA:1503:U:C6	2.95	0.49
34:BA:161:U:C6	34:BA:165:C:N1	2.80	0.49
34:BA:165:C:C2	34:BA:166:G:C8	3.00	0.49
34:BA:1796:A:C8	34:BA:1796:A:OP2	2.65	0.49
34:BA:301:U:H5"	34:BA:302:A:O5'	2.11	0.49
34:BA:333:A:C5	34:BA:334:G:C8	3.00	0.49
34:BA:365:A:C2	34:BA:377:G:C4	3.00	0.49
34:BA:23:A:C6	34:BA:395:G:C6	2.99	0.49
34:BA:480:G:N1	36:BC:9:G:C5	2.80	0.49
34:BA:62:A:C4	34:BA:74:A:H1'	2.47	0.49
34:BA:698:U:C2	34:BA:699:G:C8	3.00	0.49
34:BA:702:G:C2	34:BA:703:U:C2	3.00	0.49
34:BA:756:A:C8	34:BA:757:G:H1'	2.47	0.49
34:BA:777:C:O2'	34:BA:778:U:H5'	2.11	0.49
34:BA:87:G:H2'	34:BA:88:C:C6	2.47	0.49
35:BB:28:G:C6	35:BB:34:G:O6	2.65	0.49
35:BB:483:C:N4	35:BB:484:G:C5	2.80	0.49
35:BB:490:G:C6	35:BB:491:A:C6	3.01	0.49
37:BD:59:G:H2'	37:BD:60:C:C6	2.47	0.49
38:BE:108:U:H2'	38:BE:109:C:C1'	2.42	0.49
38:BE:144:A:C6	38:BE:145:A:C5	3.00	0.49
38:BE:35:A:C2	38:BE:178:G:C2	3.00	0.49
40:BG:166:C:C2	40:BG:167:C:C5	3.00	0.49
40:BG:50:G:C2	40:BG:59:G:C5	2.99	0.49
40:BG:90:G:C6	40:BG:91:U:C5	3.00	0.49
41:BH:43:G:C4	41:BH:44:A:C8	2.99	0.49
42:BI:16:ARG:C	42:BI:17:HIS:CG	2.85	0.49
53:BT:102:LEU:O	53:BT:106:LEU:HG	2.12	0.49
34:BA:561:U:O2	34:BA:562:C:C6	2.65	0.49
85:AA:106:G:H3'	85:AA:107:A:H8	1.76	0.49
85:AA:144:A:H3'	85:AA:145:C:C5'	2.41	0.49
85:AA:63:G:C8	85:AA:174:U:O4	2.65	0.49
85:AA:2132:A:C4	85:AA:2187:G:C2	3.00	0.49
23:AP:189:VAL:HG21	85:AA:2:A:C4	2.47	0.49
34:BA:629:G:H22	34:BA:655:U:C4'	2.25	0.49
34:BA:614:A:N6	34:BA:667:U:H3	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1027:U:C4	35:BB:1028:C:C5	3.00	0.49
85:AA:1197:U:H2'	85:AA:1198:U:O4'	2.12	0.49
85:AA:1868:G:C5	85:AA:1869:U:C6	3.00	0.49
34:BA:254:U:C4	34:BA:255:G:C5	3.00	0.49
34:BA:261:A:N1	34:BA:282:A:C6	2.80	0.49
85:AA:1916:A:H2'	85:AA:1917:G:O4'	2.12	0.49
34:BA:597:C:C4	34:BA:598:G:C5	3.00	0.49
85:AA:590:U:H1'	85:AA:601:A:C2	2.47	0.49
85:AA:124:A:C6	85:AA:184:A:C2	2.99	0.49
85:AA:234:G:C5	85:AA:237:G:C6	3.00	0.49
85:AA:1285:C:C2	85:AA:1286:C:C6	3.00	0.49
85:AA:1291:A:N6	85:AA:1292:A:C2	2.80	0.49
85:AA:1698:A:H4'	85:AA:1699:A:O5'	2.12	0.49
85:AA:2213:A:H3'	85:AA:2213:A:C8	2.47	0.49
85:AA:2236:U:C6	85:AA:2236:U:C3'	2.95	0.49
85:AA:2175:U:C2	85:AA:2176:U:C5	3.00	0.49
85:AA:269:G:OP2	85:AA:270:A:C5	2.65	0.49
85:AA:965:G:C2	85:AA:966:G:C5	3.00	0.49
85:AA:269:G:C4	85:AA:980:U:O2	2.65	0.49
85:AA:551:C:H2'	85:AA:552:C:H6	1.76	0.49
35:BB:1016:C:N3	35:BB:1017:U:C5	2.80	0.49
34:BA:1125:G:N3	34:BA:1136:A:C2	2.80	0.49
34:BA:923:C:N3	34:BA:924:U:C4	2.80	0.49
85:AA:1257:A:C5	85:AA:1258:U:C5	3.01	0.49
85:AA:1007:G:C5	85:AA:1008:C:C5	3.01	0.49
35:BB:584:A:C4	35:BB:585:U:C6	3.01	0.49
34:BA:513:U:O2	34:BA:514:U:C5	2.65	0.49
25:AR:75:HIS:HB3	30:AW:4:PHE:CZ	2.47	0.49
85:AA:771:A:C5	85:AA:773:G:C5	3.01	0.49
35:BB:1490:G:C6	35:BB:1517:G:C2	3.00	0.49
35:BB:687:C:C4	35:BB:688:U:C4	3.00	0.49
18:AJ:113:HIS:HA	18:AJ:116:ALA:HB3	1.93	0.49
30:AW:75:VAL:HG22	30:AW:76:THR:N	2.27	0.49
57:BX:156:ASP:HA	57:BX:159:ASN:HD21	1.77	0.49
28:AU:96:ARG:O	28:AU:107:TYR:HA	2.12	0.49
35:BB:729:G:C8	35:BB:761:A:C2	3.00	0.49
34:BA:1274:A:C2	34:BA:1275:G:C8	2.99	0.49
34:BA:1297:G:C6	34:BA:1451:A:H1'	2.48	0.49
34:BA:133:A:C8	34:BA:134:U:N1	2.80	0.49
34:BA:1641:G:N1	34:BA:1642:A:C5	2.80	0.49
34:BA:1699:A:C8	34:BA:1700:C:OP2	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:170:U:O2	34:BA:319:C:C2	2.65	0.49
34:BA:1711:G:C4	34:BA:1719:G:N1	2.80	0.49
34:BA:1816:G:C5	34:BA:1818:A:C5	3.00	0.49
34:BA:21:C:H3'	34:BA:22:C:C5	2.48	0.49
34:BA:355:U:H2'	34:BA:356:C:O4'	2.11	0.49
34:BA:374:U:C4	34:BA:375:C:C4	3.00	0.49
34:BA:111:U:O4	34:BA:383:G:C5	2.66	0.49
34:BA:480:G:C6	36:BC:9:G:O6	2.66	0.49
34:BA:78:U:H2'	34:BA:79:C:C6	2.47	0.49
35:BB:1041:A:C5	35:BB:1042:U:C6	3.00	0.49
35:BB:1109:A:N1	35:BB:1110:G:C4	2.80	0.49
35:BB:1218:G:N3	35:BB:1218:G:H3'	2.28	0.49
35:BB:102:G:N1	35:BB:121:A:C6	2.81	0.49
35:BB:1299:G:H3'	35:BB:1302:C:N4	2.27	0.49
35:BB:390:G:C5	35:BB:391:G:C8	3.01	0.49
35:BB:425:G:C4	35:BB:446:U:C4	2.99	0.49
35:BB:43:G:C5	35:BB:44:C:C4	3.00	0.49
35:BB:616:U:H5'	35:BB:658:G:OP1	2.12	0.49
35:BB:620:G:N1	35:BB:621:C:C2	2.80	0.49
35:BB:706:G:C2	35:BB:707:G:C8	3.00	0.49
35:BB:87:G:C2	35:BB:88:U:H1'	2.46	0.49
36:BC:106:G:C6	36:BC:107:C:C4	3.00	0.49
36:BC:157:U:H1'	36:BC:158:U:C6	2.46	0.49
37:BD:93:G:H2'	37:BD:94:C:H6	1.72	0.49
37:BD:95:G:C4	37:BD:96:C:H5	2.29	0.49
37:BD:98:G:C5	37:BD:99:G:C4	3.01	0.49
38:BE:102:U:O4	38:BE:117:A:C2	2.65	0.49
38:BE:29:C:C4	38:BE:30:C:N4	2.81	0.49
40:BG:101:G:C4	40:BG:102:G:C8	2.99	0.49
40:BG:104:A:C4	40:BG:105:A:C8	3.01	0.49
40:BG:25:G:C5	40:BG:26:G:C8	3.00	0.49
41:BH:34:G:C4	41:BH:121:A:C2	3.00	0.49
85:AA:1280:U:O4	85:AA:1470:A:C8	2.65	0.49
85:AA:1496:U:O5'	85:AA:1496:U:H6	1.94	0.49
85:AA:160:A:HO2'	85:AA:481:A:N6	2.09	0.49
85:AA:356:U:H3'	85:AA:357:C:C5	2.46	0.49
85:AA:373:G:C2'	85:AA:374:C:O5'	2.59	0.49
85:AA:60:U:C3'	85:AA:61:C:H5"	2.41	0.49
85:AA:636:G:N2	85:AA:637:U:H1'	2.27	0.49
85:AA:639:C:C5	85:AA:650:G:H3'	2.47	0.49
34:BA:610:A:N1	34:BA:611:A:C4	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:806:U:O4	35:BB:833:G:N1	2.44	0.49
85:AA:1123:C:H6	85:AA:1123:C:O5'	1.96	0.49
85:AA:1136:A:C2	85:AA:1137:C:C2	3.00	0.49
34:BA:193:C:C2	34:BA:194:G:O2'	2.66	0.49
35:BB:1288:G:C4	35:BB:1289:G:C8	3.00	0.49
34:BA:1696:G:H2'	34:BA:1697:U:H5'	1.94	0.49
85:AA:604:C:H5'	85:AA:608:A:H5'	1.95	0.49
35:BB:1495:U:H6	35:BB:1495:U:H5"	1.76	0.49
35:BB:363:A:O2'	35:BB:364:U:C6	2.65	0.49
85:AA:1288:A:C6	85:AA:1289:U:N3	2.80	0.49
85:AA:1525:C:H5'	85:AA:2103:C:OP2	2.12	0.49
85:AA:2145:G:C5	85:AA:2146:G:C6	3.00	0.49
85:AA:270:A:C2	85:AA:271:A:C8	3.00	0.49
85:AA:1538:C:H4'	85:AA:2087:C:C2	2.46	0.49
85:AA:887:A:O2'	85:AA:888:A:C5	2.64	0.49
85:AA:906:U:H5'	85:AA:907:G:C8	2.48	0.49
6:A5:31:ARG:HH22	85:AA:399:A:P	2.35	0.49
85:AA:1158:U:C5'	85:AA:1158:U:C6	2.95	0.49
85:AA:1240:A:C2	85:AA:1261:U:O4	2.66	0.49
49:BP:137:VAL:HG23	49:BP:140:HIS:HB2	1.95	0.49
85:AA:1835:U:C6	85:AA:1839:G:O6	2.64	0.49
34:BA:1001:G:C5	34:BA:1002:U:C4	3.00	0.49
85:AA:1362:A:C6	85:AA:1363:U:C4	3.01	0.49
35:BB:457:U:C4	35:BB:458:U:C6	3.01	0.49
23:AP:163:THR:HG22	23:AP:164:ILE:N	2.27	0.49
35:BB:510:A:C2	35:BB:580:A:C5	3.00	0.49
35:BB:432:C:C4	35:BB:439:G:C6	3.00	0.49
35:BB:634:A:H2'	35:BB:635:A:C8	2.47	0.49
85:AA:1754:G:H1'	85:AA:1790:G:C5	2.46	0.49
34:BA:902:C:H2'	34:BA:903:C:C6	2.46	0.49
37:BD:20:C:H2'	37:BD:21:G:C8	2.47	0.49
34:BA:883:C:C2	34:BA:883:C:OP2	2.66	0.49
6:A5:36:THR:O	6:A5:95:THR:HG23	2.10	0.49
35:BB:885:U:HO2'	35:BB:886:G:H8	1.59	0.49
3:A2:143:GLY:HA2	3:A2:174:TYR:CG	2.46	0.49
34:BA:1070:G:N1	34:BA:1071:G:C4	2.81	0.49
34:BA:1277:G:C2	34:BA:1278:A:C4	3.01	0.49
34:BA:1433:U:H4'	34:BA:1435:A:C5'	2.41	0.49
34:BA:1723:U:O2	34:BA:1724:G:C4	2.66	0.49
34:BA:172:A:C5	34:BA:316:G:N1	2.81	0.49
34:BA:187:G:N1	34:BA:300:C:C2	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:208:A:H1'	34:BA:224:G:C2	2.47	0.49
34:BA:358:A:C4	34:BA:360:C:N4	2.80	0.49
34:BA:387:A:C2	34:BA:388:A:N1	2.81	0.49
34:BA:733:G:C6	34:BA:734:G:C6	3.01	0.49
34:BA:757:G:H4'	34:BA:758:G:C2	2.46	0.49
34:BA:816:G:O6	34:BA:855:C:C4	2.65	0.49
35:BB:1099:U:N3	35:BB:1100:C:C6	2.80	0.49
35:BB:1211:C:C2	35:BB:1212:C:C5	3.00	0.49
35:BB:1339:C:H2'	35:BB:1340:U:C6	2.47	0.49
35:BB:9:G:C6	35:BB:10:C:C4	3.01	0.49
34:BA:6:C:N3	36:BC:166:G:N1	2.59	0.49
36:BC:18:G:C5	36:BC:19:A:N7	2.80	0.49
36:BC:91:G:C5	36:BC:92:C:C5	2.99	0.49
37:BD:101:A:C4	37:BD:102:C:C6	3.01	0.49
37:BD:115:A:C5	37:BD:116:C:C5	3.01	0.49
38:BE:101:C:C6	38:BE:117:A:C6	3.01	0.49
38:BE:135:A:H3'	38:BE:136:G:H4'	1.95	0.49
41:BH:100:A:C3'	41:BH:101:A:H4'	2.43	0.49
34:BA:542:A:C4	34:BA:543:A:C8	3.00	0.49
34:BA:545:U:H2'	34:BA:546:U:H5'	1.93	0.49
4:A3:3:LEU:HD11	4:A3:18:VAL:HG12	1.94	0.49
4:A3:2:LYS:O	4:A3:111:VAL:HA	2.12	0.49
85:AA:1497:U:O2	85:AA:1505:G:C2	2.66	0.49
85:AA:2120:C:N3	85:AA:2199:G:N2	2.61	0.49
85:AA:2121:G:C8	85:AA:2121:G:O5'	2.65	0.49
85:AA:596:A:C6	85:AA:597:A:C6	3.00	0.49
85:AA:658:C:C6	85:AA:658:C:O5'	2.65	0.49
35:BB:831:C:N3	35:BB:832:C:C5	2.81	0.49
35:BB:854:G:N2	35:BB:869:G:H1'	2.27	0.49
85:AA:877:G:C8	85:AA:877:G:H3'	2.47	0.49
85:AA:879:G:C6	85:AA:880:A:C5	3.00	0.49
85:AA:944:C:H5	85:AA:945:A:H2'	1.77	0.49
85:AA:1565:G:C6	85:AA:1575:G:C2	3.00	0.49
34:BA:678:C:C2'	34:BA:679:U:H5'	2.42	0.49
34:BA:1239:G:C4	34:BA:1240:G:C5	3.00	0.49
34:BA:1239:G:C6	34:BA:1246:G:C6	3.00	0.49
85:AA:242:G:C8	85:AA:243:A:C2	3.00	0.49
85:AA:1451:U:C6	85:AA:1452:C:C6	3.01	0.49
85:AA:1471:G:C6	85:AA:1472:G:N7	2.80	0.49
85:AA:1685:G:C6	85:AA:1686:G:C5	3.00	0.49
85:AA:2147:A:C8	85:AA:2147:A:OP2	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2141:G:N1	85:AA:2178:A:C6	2.81	0.49
44:BK:32:ARG:H	44:BK:69:ARG:NH1	2.06	0.49
85:AA:557:G:C4	85:AA:571:G:N2	2.81	0.49
85:AA:1534:A:C2	85:AA:1537:A:O4'	2.65	0.49
85:AA:1540:A:C8	85:AA:1540:A:O5'	2.65	0.49
85:AA:887:A:C6	85:AA:889:G:C2	3.00	0.49
85:AA:911:A:C6	85:AA:912:C:N4	2.80	0.49
35:BB:1001:G:N1	35:BB:1018:U:C2	2.80	0.49
85:AA:1153:G:C5	85:AA:1154:A:C8	3.01	0.49
34:BA:1087:A:C6	34:BA:1213:A:N1	2.81	0.49
34:BA:531:C:O2	34:BA:579:U:H3'	2.12	0.49
3:A2:12:TRP:HE1	3:A2:87:HIS:CE1	2.31	0.49
35:BB:475:A:OP1	35:BB:475:A:H4'	2.13	0.49
34:BA:988:U:C4	34:BA:989:C:C5	3.00	0.49
34:BA:512:U:H3	34:BA:690:G:H22	1.59	0.49
85:AA:202:U:H6	85:AA:203:C:H3'	1.75	0.49
34:BA:837:U:O5'	34:BA:837:U:H6	1.95	0.49
35:BB:636:G:C6	35:BB:637:G:C5	3.01	0.49
34:BA:723:C:O4'	35:BB:664:A:C4	2.65	0.49
19:AK:2:SER:HA	85:AA:1730:C:H5"	1.93	0.49
35:BB:605:C:H2'	35:BB:606:C:C2	2.47	0.49
85:AA:729:U:C4	85:AA:730:G:C5	3.00	0.49
35:BB:735:A:C6	35:BB:755:A:C5	3.01	0.49
35:BB:955:U:H3'	35:BB:956:G:H8	1.76	0.49
59:BZ:31:PRO:HA	59:BZ:37:ARG:HH22	1.76	0.49
58:BY:37:ARG:HG3	58:BY:39:LYS:H	1.77	0.49
34:BA:105:U:C6	34:BA:105:U:O5'	2.65	0.49
35:BB:942:G:N1	35:BB:943:U:N3	2.61	0.49
45:BL:24:LEU:C	45:BL:24:LEU:HD23	2.32	0.49
50:BQ:55:ARG:HA	50:BQ:79:PHE:CD1	2.47	0.49
12:AD:18:PHE:CZ	12:AD:93:ALA:HB1	2.47	0.49
34:BA:1374:G:C2	34:BA:1375:C:C2	3.00	0.49
35:BB:726:A:H2'	35:BB:727:U:H5"	1.95	0.49
34:BA:1150:A:C5	34:BA:1153:C:C4	3.00	0.49
34:BA:1285:G:C2	34:BA:1286:C:C6	3.00	0.49
34:BA:1325:G:C2	34:BA:1416:C:C2	3.01	0.49
34:BA:1505:G:H4'	34:BA:1506:C:N1	2.26	0.49
34:BA:1517:U:O4	34:BA:1518:A:C4	2.65	0.49
34:BA:1628:A:C6	34:BA:1629:A:C6	3.00	0.49
34:BA:1667:G:C4	34:BA:1668:C:C6	3.01	0.49
34:BA:176:G:N1	34:BA:177:G:C4	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1796:A:C4	34:BA:1799:G:OP1	2.66	0.49
34:BA:241:U:C2	34:BA:242:U:C6	3.00	0.49
34:BA:27:G:C5	34:BA:28:C:C6	3.00	0.49
34:BA:183:G:N2	34:BA:306:G:C4	2.81	0.49
34:BA:438:A:H2'	34:BA:439:A:C8	2.46	0.49
34:BA:490:A:C5	34:BA:491:U:C4	3.00	0.49
34:BA:500:C:N3	34:BA:702:G:C6	2.81	0.49
34:BA:749:G:H2'	34:BA:750:C:C6	2.47	0.49
34:BA:771:A:H5"	34:BA:774:A:H62	1.77	0.49
34:BA:786:U:H6	34:BA:786:U:O5'	1.95	0.49
35:BB:1051:U:O5'	35:BB:1051:U:C6	2.65	0.49
35:BB:1223:A:H2	35:BB:1227:G:OP2	1.96	0.49
35:BB:135:C:C6	35:BB:135:C:O5'	2.65	0.49
35:BB:4:C:N3	38:BE:13:A:C8	2.80	0.49
35:BB:62:C:C2'	35:BB:63:A:H5'	2.42	0.49
36:BC:106:G:C4	36:BC:115:G:N1	2.81	0.49
36:BC:134:G:C6	36:BC:135:A:C5	3.00	0.49
36:BC:23:G:C8	36:BC:23:G:O5'	2.66	0.49
36:BC:71:A:OP1	59:BZ:25:ARG:HD2	2.13	0.49
37:BD:111:U:C4	37:BD:112:U:C4	3.00	0.49
38:BE:91:G:C2	38:BE:130:G:O6	2.66	0.49
38:BE:33:C:H2'	38:BE:34:C:C6	2.47	0.49
40:BG:128:U:C2	40:BG:129:G:C8	3.01	0.49
40:BG:37:G:C6	40:BG:38:A:C6	3.00	0.49
40:BG:55:A:H2'	40:BG:56:G:O4'	2.12	0.49
38:BE:59:U:H4'	53:BT:57:VAL:HB	1.93	0.49
21:AM:13:ILE:O	45:BL:123:TYR:CD2	2.65	0.49
85:AA:2115:G:H1	85:AA:2203:C:H42	1.61	0.49
85:AA:2180:C:C4	85:AA:2181:G:C4	3.00	0.49
85:AA:335:G:C5	85:AA:355:G:N3	2.80	0.49
85:AA:443:A:H3'	85:AA:444:U:C5	2.47	0.49
85:AA:538:A:N6	85:AA:669:G:C5	2.80	0.49
85:AA:684:G:C6	85:AA:688:C:H1'	2.47	0.49
35:BB:563:A:O5'	35:BB:563:A:C8	2.66	0.49
85:AA:705:G:C6	85:AA:1218:C:O2	2.65	0.49
35:BB:516:G:OP1	35:BB:540:G:C8	2.65	0.49
85:AA:1660:U:H2'	85:AA:1661:U:C4	2.47	0.49
85:AA:1547:G:C2	85:AA:2041:G:N3	2.80	0.49
34:BA:289:A:H2'	34:BA:289:A:C2	2.47	0.49
34:BA:603:U:C5	34:BA:1492:G:C6	3.00	0.49
27:AT:38:CYS:N	85:AA:605:A:OP1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:192:G:C5	85:AA:247:G:N1	2.81	0.49
35:BB:1544:A:C2	35:BB:1545:U:C6	3.01	0.49
85:AA:1453:U:C6	85:AA:1454:U:C6	3.00	0.49
29:AV:14:PRO:HB2	85:AA:1450:U:P	2.52	0.49
85:AA:2092:A:H2'	85:AA:2093:U:C6	2.47	0.49
34:BA:1334:G:C6	34:BA:1408:C:C4	3.00	0.49
85:AA:410:A:C5	85:AA:411:U:C4	3.01	0.49
85:AA:422:G:H2'	85:AA:422:G:N3	2.28	0.49
35:BB:434:A:C4	35:BB:435:A:C5	3.01	0.49
85:AA:757:A:C2	85:AA:758:C:N1	2.81	0.49
34:BA:524:G:N2	34:BA:589:A:C2	2.81	0.49
34:BA:530:A:C2	34:BA:531:C:C5	3.00	0.49
34:BA:580:U:H2'	34:BA:582:U:H5'	1.93	0.49
35:BB:474:G:C6	35:BB:475:A:C6	3.00	0.49
35:BB:474:G:C6	35:BB:475:A:N6	2.80	0.49
85:AA:1011:G:H4'	85:AA:1012:C:H5'	1.95	0.49
85:AA:1012:C:C2	85:AA:1013:C:C5	3.01	0.49
35:BB:441:G:C6	35:BB:442:U:C4	3.00	0.49
16:AH:42:GLY:O	16:AH:45:THR:HG23	2.11	0.49
35:BB:769:C:C6	35:BB:770:G:C6	3.00	0.49
85:AA:1367:C:H2'	85:AA:1368:G:C8	2.47	0.49
85:AA:1237:A:O2'	85:AA:1238:U:H5'	2.12	0.49
7:A6:27:MET:HA	7:A6:30:CYS:SG	2.52	0.49
34:BA:444:A:C5	34:BA:445:C:C6	3.00	0.49
25:AR:63:LEU:H	25:AR:63:LEU:HD12	1.78	0.49
44:BK:26:VAL:HG12	44:BK:27:PRO:O	2.13	0.49
18:AJ:105:THR:HB	18:AJ:126:LEU:HD21	1.94	0.49
34:BA:1070:G:H2'	34:BA:1071:G:C8	2.47	0.49
34:BA:1073:G:C4	34:BA:1074:C:C6	3.01	0.49
34:BA:1099:U:C2	34:BA:1100:A:C8	3.00	0.49
34:BA:1102:A:N1	34:BA:1103:G:C5	2.80	0.49
34:BA:1113:A:H4'	44:BK:39:ARG:NE	2.28	0.49
34:BA:1322:A:C2'	34:BA:1323:G:H5'	2.42	0.49
34:BA:1327:G:C6	34:BA:1328:U:N3	2.81	0.49
34:BA:1469:G:N1	34:BA:1513:G:C6	2.81	0.49
34:BA:1659:G:H3'	34:BA:1660:A:N3	2.28	0.49
34:BA:1673:G:C6	34:BA:1680:G:C6	3.01	0.49
34:BA:1708:A:C2	34:BA:1724:G:N7	2.81	0.49
34:BA:1739:G:H2'	34:BA:1739:G:C2	2.48	0.49
34:BA:185:A:C2	34:BA:304:G:C4	2.99	0.49
34:BA:358:A:C2'	34:BA:360:C:C5	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:427:G:N2	34:BA:428:C:H1'	2.28	0.49
34:BA:457:A:C6	34:BA:458:G:C5	3.00	0.49
34:BA:54:A:C2	34:BA:55:G:C4	3.00	0.49
34:BA:753:G:C5	34:BA:754:G:N7	2.81	0.49
34:BA:792:A:C5	34:BA:793:A:C5	3.01	0.49
34:BA:792:A:C2	34:BA:793:A:C2	3.00	0.49
34:BA:841:G:N1	34:BA:842:U:C2	2.80	0.49
34:BA:880:G:C2	34:BA:881:C:C6	3.01	0.49
35:BB:1079:G:C6	35:BB:1094:A:N1	2.81	0.49
35:BB:1340:U:C2	35:BB:1341:U:C4	3.01	0.49
35:BB:374:A:C2	35:BB:375:G:C1'	2.96	0.49
35:BB:378:C:C5	35:BB:379:U:C5	3.01	0.49
35:BB:661:G:O6	35:BB:662:G:C6	2.66	0.49
36:BC:156:A:C8	36:BC:159:U:O4	2.66	0.49
36:BC:36:G:H1'	36:BC:40:A:H1'	1.94	0.49
36:BC:48:A:N1	36:BC:51:A:C5	2.81	0.49
36:BC:56:G:C5	36:BC:57:C:C5	3.01	0.49
36:BC:4:G:C6	36:BC:5:U:N3	2.81	0.49
37:BD:1:G:C5	37:BD:2:G:N7	2.81	0.49
37:BD:37:G:C2	37:BD:38:U:C2	3.00	0.49
37:BD:95:G:H8	37:BD:95:G:P	2.34	0.49
38:BE:27:A:H4'	38:BE:28:C:O5'	2.12	0.49
38:BE:60:C:C4	38:BE:61:A:C5	2.99	0.49
40:BG:102:G:C5	40:BG:103:C:C5	3.01	0.49
40:BG:108:G:C6	40:BG:109:C:C4	3.00	0.49
40:BG:44:G:C6	40:BG:67:A:C6	3.00	0.49
40:BG:80:G:C4	40:BG:81:G:C8	3.00	0.49
40:BG:98:A:C8	40:BG:98:A:O5'	2.66	0.49
41:BH:131:A:H2'	41:BH:132:C:O4'	2.12	0.49
35:BB:1534:U:H2'	41:BH:27:A:H1'	1.94	0.49
44:BK:85:PHE:C	44:BK:85:PHE:CD2	2.86	0.49
45:BL:61:VAL:HG11	45:BL:64:PHE:CD2	2.48	0.49
34:BA:545:U:H6	34:BA:545:U:O5'	1.96	0.49
85:AA:130:G:C2	85:AA:131:C:C2	3.01	0.49
85:AA:1508:A:C5	85:AA:1509:A:C5	3.01	0.49
85:AA:151:A:C2	85:AA:172:A:C6	3.00	0.49
85:AA:2115:G:N2	85:AA:2204:A:C4	2.81	0.49
85:AA:355:G:C4	85:AA:356:U:C5	3.00	0.49
85:AA:456:A:N1	85:AA:457:G:C4	2.80	0.49
85:AA:3:U:H2'	85:AA:4:C:C4'	2.43	0.49
85:AA:59:C:H42	85:AA:85:U:H3	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:30:G:C5	85:AA:671:G:C6	3.00	0.49
85:AA:97:A:C8	85:AA:97:A:C3'	2.93	0.49
35:BB:574:G:C4	35:BB:577:U:C5	3.00	0.49
35:BB:812:G:C2	35:BB:828:G:C4	3.01	0.49
35:BB:841:U:H1'	35:BB:975:G:N2	2.27	0.49
35:BB:1166:A:H3'	35:BB:1167:C:C4'	2.42	0.49
21:AM:29:PHE:CE2	85:AA:2005:U:C6	3.00	0.49
34:BA:1210:A:H3'	34:BA:1211:G:C5'	2.42	0.49
85:AA:1988:A:C2	85:AA:1989:A:N1	2.80	0.49
34:BA:1244:G:C4	35:BB:640:A:C6	3.01	0.49
85:AA:1471:G:N2	85:AA:1472:G:C4	2.80	0.49
18:AJ:12:ARG:HE	85:AA:1472:G:H2'	1.77	0.49
85:AA:2142:A:C4	85:AA:2177:C:N3	2.81	0.49
85:AA:280:U:C4	85:AA:290:G:C6	3.01	0.49
85:AA:290:G:N1	85:AA:291:G:C4	2.81	0.49
85:AA:1529:A:H3'	85:AA:1530:U:C6	2.48	0.49
85:AA:1923:A:H62	85:AA:1991:C:N4	2.09	0.49
85:AA:1535:C:C5	85:AA:2049:U:OP2	2.66	0.49
85:AA:2092:A:H2'	85:AA:2093:U:C5	2.46	0.49
85:AA:781:G:N1	85:AA:782:G:C5	2.81	0.49
85:AA:440:U:C6	85:AA:440:U:H3'	2.48	0.49
16:AH:24:VAL:HG21	16:AH:35:VAL:HG13	1.94	0.49
11:AC:212:TRP:HE1	11:AC:233:VAL:HG23	1.76	0.49
34:BA:1125:G:C2	34:BA:1126:U:N3	2.80	0.49
85:AA:819:G:C6	85:AA:820:G:N7	2.80	0.49
34:BA:1040:G:C5	34:BA:1041:U:C2	3.00	0.49
85:AA:169:G:C4	85:AA:170:C:C5	3.00	0.49
39:BF:38:C:H2'	39:BF:39:C:C6	2.47	0.49
85:AA:759:G:N2	85:AA:763:U:C2	2.81	0.49
85:AA:1094:G:C2	85:AA:1095:C:C2	3.00	0.49
86:AB:5:G:C6	86:AB:69:G:N1	2.81	0.49
34:BA:963:G:O6	34:BA:992:A:C8	2.65	0.49
35:BB:1480:G:N2	35:BB:1483:A:OP2	2.46	0.49
35:BB:1483:A:C5	35:BB:1484:A:C5	3.00	0.49
34:BA:979:G:C2	34:BA:981:A:C6	3.00	0.49
35:BB:689:C:C2	35:BB:690:C:C6	3.00	0.49
51:BR:35:VAL:O	51:BR:44:ALA:HA	2.13	0.49
35:BB:1491:G:H2'	35:BB:1492:C:C6	2.48	0.49
85:AA:1111:A:C2	85:AA:1212:C:C6	3.01	0.49
20:AL:103:LYS:H	20:AL:122:PRO:HA	1.78	0.49
34:BA:736:G:C6	34:BA:901:C:C5	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1555:G:C6	85:AA:1556:G:C5	2.99	0.49
85:AA:1557:U:O5'	85:AA:1557:U:H6	1.96	0.49
34:BA:1357:C:H1'	34:BA:1368:G:N2	2.27	0.49
2:A1:207:LEU:HB2	2:A1:215:PHE:CD1	2.47	0.49
2:A1:104:GLY:HA2	2:A1:187:GLY:HA3	1.94	0.49
16:AH:27:TYR:CE1	16:AH:93:THR:HA	2.47	0.49
85:AA:2161:C:H6	85:AA:2161:C:H5"	1.77	0.49
34:BA:1160:U:H6	34:BA:1160:U:O5'	1.95	0.49
34:BA:1295:U:C4'	34:BA:1296:U:C2	2.96	0.49
34:BA:1413:G:C5	34:BA:1414:C:C5	3.01	0.49
34:BA:141:G:N3	34:BA:142:A:C8	2.81	0.49
34:BA:1463:U:C2	34:BA:1464:C:C5	3.01	0.49
34:BA:1470:G:H4'	34:BA:1471:U:OP2	2.12	0.49
34:BA:1484:A:C2	34:BA:1485:U:C2	3.01	0.49
34:BA:1551:G:C6	34:BA:1559:C:N3	2.81	0.49
34:BA:167:U:H2'	34:BA:168:U:O4'	2.12	0.49
34:BA:1725:U:O2'	34:BA:1726:U:H5"	2.11	0.49
34:BA:213:A:C2	34:BA:217:C:O2	2.66	0.49
34:BA:210:G:N1	34:BA:223:U:C4	2.80	0.49
34:BA:237:A:C8	34:BA:238:C:N3	2.81	0.49
34:BA:400:A:C2	34:BA:401:A:C1'	2.94	0.49
34:BA:411:C:H41	34:BA:413:A:H3'	1.78	0.49
34:BA:65:A:C2	34:BA:66:C:C1'	2.96	0.49
34:BA:738:C:C6	34:BA:739:A:H8	2.30	0.49
34:BA:827:A:H2'	34:BA:828:A:C8	2.46	0.49
35:BB:1039:A:H4'	35:BB:1040:C:C6	2.48	0.49
35:BB:1108:G:H2'	35:BB:1109:A:C8	2.48	0.49
35:BB:1138:A:C5	35:BB:1139:A:C4	3.01	0.49
35:BB:1211:C:N3	35:BB:1212:C:C5	2.81	0.49
34:BA:792:A:H2	35:BB:1232:A:H4'	1.76	0.49
35:BB:657:A:H61	35:BB:1447:U:H3	1.60	0.49
35:BB:661:G:C5	35:BB:662:G:C8	3.01	0.49
35:BB:697:G:C5	35:BB:698:C:C4	3.00	0.49
35:BB:89:C:C4	35:BB:90:G:C4	3.00	0.49
36:BC:129:C:C2'	36:BC:131:C:C5	2.95	0.49
34:BA:433:G:H1	36:BC:20:C:H42	1.59	0.49
36:BC:66:G:C2	36:BC:67:U:C2	3.00	0.49
37:BD:38:U:H3'	37:BD:40:C:OP2	2.13	0.49
37:BD:79:G:N1	37:BD:80:G:C5	2.81	0.49
37:BD:75:G:N2	37:BD:99:G:H2'	2.28	0.49
38:BE:9:C:N3	38:BE:12:A:C2	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:13:A:C2	38:BE:14:C:C5	3.00	0.49
38:BE:151:C:H3'	38:BE:152:U:H6	1.78	0.49
38:BE:161:G:C2	38:BE:162:U:C2	3.01	0.49
40:BG:71:C:C6	40:BG:71:C:C3'	2.95	0.49
40:BG:98:A:H2'	40:BG:99:A:C8	2.48	0.49
41:BH:45:G:H2'	41:BH:46:C:C6	2.48	0.49
41:BH:52:G:C4	41:BH:53:C:C6	3.00	0.49
41:BH:66:G:C6	41:BH:67:G:N7	2.81	0.49
35:BB:1230:A:C4	47:BN:206:ARG:NH2	2.80	0.49
58:BY:53:ILE:O	58:BY:59:TYR:HB2	2.13	0.49
4:A3:53:LEU:HD12	4:A3:54:ARG:H	1.78	0.49
85:AA:1226:A:N9	85:AA:1274:A:C6	2.80	0.49
85:AA:162:A:OP2	85:AA:164:G:C8	2.66	0.49
85:AA:629:A:C6	85:AA:630:A:N1	2.81	0.49
85:AA:690:G:C2	85:AA:696:G:C5	3.01	0.49
85:AA:923:A:H2'	85:AA:924:A:C8	2.48	0.49
34:BA:621:G:N2	34:BA:662:U:H1'	2.28	0.49
35:BB:545:C:C2'	35:BB:546:A:H5"	2.42	0.49
35:BB:573:C:H5'	35:BB:574:G:C8	2.48	0.49
56:BW:88:ARG:HA	56:BW:94:VAL:HA	1.94	0.49
35:BB:811:C:C2	35:BB:812:G:C8	3.00	0.49
35:BB:826:G:H2'	35:BB:827:U:C6	2.48	0.49
35:BB:846:A:C2	35:BB:967:G:N3	2.81	0.49
35:BB:971:A:OP2	35:BB:972:C:C4	2.65	0.49
15:AG:55:ARG:HD2	30:AW:48:TYR:CD2	2.48	0.49
53:BT:166:ASP:O	53:BT:170:ARG:HG3	2.13	0.49
85:AA:1140:G:C6	85:AA:1141:U:C4	3.00	0.49
85:AA:1129:A:C2	85:AA:1198:U:C2	3.01	0.49
15:AG:77:HIS:NE2	85:AA:944:C:N4	2.60	0.49
34:BA:253:U:H2'	34:BA:254:U:O4'	2.13	0.49
34:BA:1210:A:C1'	54:BU:129:LYS:HD3	2.42	0.49
54:BU:130:VAL:HG22	54:BU:131:SER:N	2.28	0.49
34:BA:593:G:N1	34:BA:594:G:C5	2.80	0.49
34:BA:714:G:H2'	34:BA:715:U:O4'	2.13	0.49
34:BA:1488:C:C3'	34:BA:1488:C:C6	2.96	0.49
85:AA:602:U:H2'	85:AA:602:U:O2	2.12	0.49
35:BB:1493:A:C2	35:BB:1514:G:C2	3.01	0.49
35:BB:1521:G:C6	35:BB:1522:G:C5	3.01	0.49
41:BH:16:A:C8	41:BH:16:A:O5'	2.66	0.49
85:AA:1291:A:C4	85:AA:1453:U:H1'	2.48	0.49
11:AC:139:PHE:CE1	11:AC:143:THR:HG21	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1617:G:N2	85:AA:1621:U:C6	2.81	0.49
85:AA:801:U:C6	85:AA:802:A:C5	3.01	0.49
85:AA:7:G:H1	85:AA:17:C:H42	1.58	0.49
35:BB:1002:G:N2	35:BB:1003:G:H1'	2.27	0.49
85:AA:1152:U:C6	85:AA:1155:A:C8	3.01	0.49
47:BN:80:PHE:CB	47:BN:85:LEU:HD11	2.41	0.49
85:AA:863:C:C4	85:AA:864:C:C5	3.01	0.49
85:AA:340:G:C2	85:AA:350:U:C2	3.00	0.49
7:A6:132:HIS:CD2	7:A6:163:PHE:CD2	3.00	0.49
34:BA:1122:G:C6	34:BA:1139:G:C4	3.00	0.49
86:AB:26:A:H2'	86:AB:27:G:H5'	1.95	0.49
34:BA:226:A:C5'	34:BA:227:C:H5"	2.42	0.49
34:BA:968:G:C6	34:BA:969:A:C6	3.01	0.49
85:AA:1012:C:H2'	85:AA:1013:C:C6	2.48	0.49
35:BB:630:A:C5	35:BB:631:G:C5	3.01	0.49
35:BB:396:C:H42	35:BB:592:G:H1	1.60	0.49
21:AM:83:TRP:CD2	85:AA:1968:A:C5	3.00	0.49
35:BB:155:G:H1'	35:BB:307:A:H4'	1.94	0.49
34:BA:921:G:C6	34:BA:922:C:C4	3.00	0.49
16:AH:27:TYR:HB3	16:AH:34:PHE:HB2	1.94	0.49
85:AA:1636:C:H2'	85:AA:1637:C:O4'	2.13	0.49
85:AA:1014:U:H4'	85:AA:1015:U:C6	2.48	0.49
27:AT:9:GLU:HB3	27:AT:35:PRO:HD2	1.94	0.49
23:AP:154:TRP:CD1	23:AP:181:PRO:HB2	2.47	0.49
34:BA:820:C:H4'	34:BA:1169:A:H61	1.78	0.49
34:BA:1321:A:H2'	34:BA:1322:A:O4'	2.13	0.49
34:BA:1474:G:O6	34:BA:1475:G:C6	2.66	0.49
34:BA:1477:C:H5"	34:BA:1478:G:N1	2.28	0.49
34:BA:1533:G:C4	34:BA:1534:U:C6	3.00	0.49
34:BA:1553:G:C6	34:BA:1557:G:C6	3.01	0.49
34:BA:1557:G:H8	34:BA:1557:G:H5"	1.78	0.49
34:BA:1573:C:H2'	34:BA:1574:C:C6	2.48	0.49
34:BA:1633:C:H3'	34:BA:1634:A:H3'	1.94	0.49
34:BA:1676:A:C2	34:BA:1677:C:C2	3.01	0.49
34:BA:1744:C:N3	34:BA:1745:G:C5	2.81	0.49
34:BA:1797:A:C2	34:BA:1798:G:O6	2.66	0.49
34:BA:1796:A:C5	34:BA:1799:G:OP1	2.66	0.49
34:BA:1816:G:C2	34:BA:1818:A:N3	2.80	0.49
34:BA:214:A:OP2	34:BA:215:C:C5	2.65	0.49
34:BA:234:A:C2	34:BA:242:U:C2	3.01	0.49
34:BA:315:U:H5"	34:BA:316:G:OP2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:320:G:C2	34:BA:321:G:C4	3.00	0.49
34:BA:478:G:N1	36:BC:11:G:N1	2.61	0.49
34:BA:504:A:O2'	34:BA:505:U:H5'	2.13	0.49
34:BA:60:A:H2'	34:BA:61:G:C8	2.48	0.49
34:BA:70:C:H4'	34:BA:71:G:OP2	2.13	0.49
34:BA:74:A:C8	34:BA:74:A:H3'	2.47	0.49
34:BA:767:U:C4	34:BA:768:G:C2	3.00	0.49
34:BA:848:U:C6	42:BI:66:ARG:HD3	2.47	0.49
35:BB:107:A:C6	35:BB:108:G:C4	3.00	0.49
35:BB:1108:G:N1	35:BB:1157:G:C5	2.81	0.49
35:BB:111:C:H4'	35:BB:112:G:O4'	2.13	0.49
35:BB:1145:G:C6	35:BB:1146:C:N4	2.80	0.49
35:BB:1354:C:N3	35:BB:1363:A:N1	2.60	0.49
35:BB:133:G:C6	35:BB:369:A:C6	3.00	0.49
35:BB:484:G:C4	35:BB:485:U:C5	3.00	0.49
35:BB:602:G:C4	35:BB:607:G:O6	2.66	0.49
35:BB:62:C:O2	35:BB:63:A:C2	2.66	0.49
36:BC:113:G:N3	36:BC:114:C:C6	2.80	0.49
36:BC:2:A:HO2'	36:BC:3:C:C1'	2.25	0.49
37:BD:100:A:C6	37:BD:101:A:C5	3.00	0.49
37:BD:95:G:C5	37:BD:96:C:C5	3.00	0.49
38:BE:150:G:H2'	38:BE:151:C:O4'	2.13	0.49
38:BE:157:C:C5	38:BE:158:U:N3	2.81	0.49
38:BE:159:A:H3'	38:BE:160:C:H4'	1.95	0.49
40:BG:16:G:C2	40:BG:17:A:C4	3.00	0.49
40:BG:173:C:C6	40:BG:174:G:N7	2.80	0.49
40:BG:33:G:H1	40:BG:169:A:H5"	1.77	0.49
40:BG:46:G:C2	40:BG:65:C:C2	3.01	0.49
41:BH:130:G:C2	41:BH:131:A:C8	3.01	0.49
51:BR:116:HIS:HB3	51:BR:149:PHE:CE2	2.47	0.49
39:BF:55:A:C4	52:BS:173:SER:HB2	2.48	0.49
53:BT:60:ARG:HA	53:BT:63:TRP:CD1	2.48	0.49
4:A3:4:ASN:HA	4:A3:15:GLN:HA	1.94	0.49
85:AA:456:A:C1'	85:AA:2182:A:H4'	2.42	0.49
35:BB:527:U:O5'	35:BB:527:U:C6	2.66	0.49
35:BB:814:A:C2	35:BB:815:G:N9	2.80	0.49
34:BA:946:A:OP2	34:BA:946:A:H8	1.94	0.49
85:AA:2208:G:H5"	85:AA:2208:G:H8	1.78	0.49
85:AA:1661:U:OP2	85:AA:1661:U:C6	2.65	0.49
28:AU:32:LYS:C	85:AA:2039:G:C8	2.86	0.49
85:AA:2042:G:C2	85:AA:2043:A:C4	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AI:133:VAL:HG13	85:AA:1558:U:C1'	2.41	0.49
34:BA:199:U:H1'	34:BA:259:C:H1'	1.95	0.49
34:BA:266:G:N2	34:BA:277:A:H1'	2.28	0.49
34:BA:272:A:C2	34:BA:275:C:C6	3.00	0.49
34:BA:1236:U:C4	34:BA:1237:U:C4	3.01	0.49
85:AA:1916:A:N1	85:AA:1997:G:C6	2.81	0.49
85:AA:242:G:OP2	85:AA:243:A:N6	2.45	0.49
35:BB:136:A:C6	35:BB:137:A:N7	2.81	0.49
35:BB:1521:G:C4	35:BB:1522:G:C8	3.01	0.49
85:AA:1448:A:H2'	85:AA:1449:C:O4'	2.13	0.49
85:AA:1449:C:C6	85:AA:1449:C:H3'	2.47	0.49
85:AA:1456:A:H3'	85:AA:1456:A:C8	2.47	0.49
85:AA:1527:G:C8	85:AA:2219:G:C6	3.01	0.49
85:AA:1705:G:C4	85:AA:1706:A:C8	3.01	0.49
34:BA:1289:C:C5	34:BA:1290:A:C4	3.01	0.49
85:AA:362:G:N1	85:AA:363:A:C2	2.81	0.49
25:AR:7:TYR:HA	25:AR:12:VAL:C	2.33	0.49
39:BF:42:G:C2	39:BF:44:C:C2	3.01	0.49
39:BF:45:G:C6	39:BF:46:G:C6	3.01	0.49
39:BF:32:G:C8	39:BF:54:U:OP2	2.66	0.49
34:BA:1122:G:C8	34:BA:1122:G:H3'	2.47	0.49
34:BA:1122:G:C6	34:BA:1139:G:N3	2.81	0.49
85:AA:1793:A:C2	85:AA:1794:U:C4	3.01	0.49
34:BA:895:U:H3'	47:BN:9:PRO:CG	2.43	0.49
34:BA:1702:G:C5	34:BA:1703:A:N6	2.81	0.49
85:AA:1953:G:C6	85:AA:1954:C:N4	2.81	0.49
35:BB:430:A:C2	35:BB:441:G:N3	2.81	0.49
34:BA:721:A:C6	34:BA:722:A:C6	3.01	0.49
85:AA:849:A:C5	85:AA:850:U:C5	3.00	0.49
20:AL:65:PRO:HB3	20:AL:74:GLN:HE22	1.78	0.49
85:AA:231:G:C6	85:AA:232:U:C4	3.01	0.49
85:AA:260:A:N1	85:AA:261:U:C2	2.81	0.49
4:A3:144:ILE:HB	4:A3:156:VAL:HG11	1.94	0.49
34:BA:1009:G:H3'	34:BA:1010:C:H6	1.78	0.49
34:BA:117:C:N3	34:BA:118:C:C4	2.81	0.49
34:BA:1255:G:C6	34:BA:1256:A:C5	3.01	0.49
34:BA:135:G:C5	34:BA:136:A:N7	2.81	0.49
34:BA:1282:G:C4	34:BA:1458:A:C5	3.00	0.49
34:BA:1575:U:N3	34:BA:1576:C:C5	2.81	0.49
34:BA:1590:G:C6	34:BA:1591:G:C5	3.01	0.49
34:BA:1634:A:OP1	34:BA:1634:A:C2	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:166:G:C6	34:BA:167:U:H1'	2.48	0.49
34:BA:1726:U:C2	34:BA:1728:G:C8	3.00	0.49
34:BA:315:U:C5	34:BA:316:G:C8	3.01	0.49
34:BA:333:A:N1	34:BA:357:A:C8	2.80	0.49
34:BA:337:C:H2'	34:BA:338:U:C6	2.47	0.49
34:BA:396:U:C4	36:BC:34:U:O4	2.66	0.49
34:BA:71:G:C2	34:BA:72:U:C6	3.01	0.49
34:BA:823:G:C2	34:BA:824:C:C2	3.01	0.49
34:BA:893:U:C2	34:BA:894:G:C8	3.01	0.49
34:BA:905:A:C8	34:BA:1035:A:N6	2.80	0.49
35:BB:1151:A:C4	35:BB:1153:G:C8	3.00	0.49
35:BB:1343:C:C4	35:BB:1396:G:N1	2.81	0.49
35:BB:1353:G:C5	35:BB:1365:G:N1	2.81	0.49
35:BB:1458:U:C4	35:BB:1462:G:N1	2.81	0.49
35:BB:1468:A:H3'	35:BB:1468:A:OP2	2.13	0.49
35:BB:484:G:C4	35:BB:485:U:C6	3.01	0.49
35:BB:620:G:C6	35:BB:621:C:C4	3.01	0.49
35:BB:981:A:C6	57:BX:51:ARG:HD2	28.54	0.49
37:BD:79:G:C4	37:BD:98:G:C2	3.01	0.49
38:BE:111:C:C5	38:BE:112:G:O6	2.66	0.49
38:BE:18:U:N3	38:BE:20:C:C5	2.81	0.49
38:BE:26:G:C8	38:BE:26:G:H5'	2.47	0.49
39:BF:55:A:C5	52:BS:172:ASN:O	2.66	0.49
40:BG:15:G:O2'	40:BG:16:G:H5'	2.12	0.49
40:BG:75:C:H2'	40:BG:76:C:C2	2.48	0.49
41:BH:129:G:H1'	41:BH:130:G:C8	2.48	0.49
41:BH:2:U:C5	41:BH:3:U:C6	3.01	0.49
50:BQ:137:TRP:CD2	50:BQ:137:TRP:C	2.85	0.49
34:BA:125:G:H5"	50:BQ:158:ALA:HB2	1.94	0.49
34:BA:10:G:H5"	57:BX:56:ARG:CZ	2.43	0.49
36:BC:83:A:C2	59:BZ:110:THR:HG23	2.47	0.49
85:AA:1227:A:C5	85:AA:1228:A:C5	3.01	0.49
85:AA:145:C:C2'	85:AA:146:U:H5'	2.43	0.49
85:AA:690:G:C6	85:AA:1483:A:C6	3.00	0.49
85:AA:2120:C:H2'	85:AA:2121:G:O4'	2.13	0.49
85:AA:253:C:OP2	85:AA:253:C:C5	2.65	0.49
85:AA:253:C:H2'	85:AA:329:G:C2	2.48	0.49
85:AA:484:G:H2'	85:AA:485:A:O4'	2.12	0.49
85:AA:698:G:C6	85:AA:699:U:C5	3.01	0.49
34:BA:613:A:C2	34:BA:614:A:C5	3.01	0.49
34:BA:624:G:OP2	34:BA:624:G:C8	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:526:A:N7	35:BB:527:U:C4	2.81	0.49
85:AA:1115:G:H2'	85:AA:1116:G:C5'	2.42	0.49
85:AA:1126:G:C2	85:AA:1127:G:C4	3.00	0.49
85:AA:1105:G:C2'	85:AA:1106:A:C2	2.96	0.49
85:AA:879:G:H2'	85:AA:880:A:O4'	2.13	0.49
85:AA:932:A:C2	85:AA:933:U:N3	2.81	0.49
34:BA:272:A:C4	34:BA:275:C:N4	2.81	0.49
35:BB:1404:A:H2'	35:BB:1440:A:H62	1.77	0.49
85:AA:591:A:OP2	85:AA:591:A:C8	2.66	0.49
85:AA:602:U:H3'	85:AA:603:C:H5'	1.95	0.49
85:AA:324:U:H2'	85:AA:325:C:C6	2.48	0.49
85:AA:255:A:C2	85:AA:325:C:N3	2.81	0.49
85:AA:2229:G:H3'	85:AA:2230:U:H5	1.76	0.49
34:BA:1287:G:C2	34:BA:1436:A:C6	3.00	0.49
85:AA:1624:U:C5	85:AA:1625:C:H5	2.31	0.49
85:AA:268:A:C5'	85:AA:269:G:H5'	2.43	0.49
85:AA:969:U:N3	85:AA:984:A:C2	2.81	0.49
34:BA:1:C:C2	34:BA:2:A:C2	3.01	0.49
32:AY:47:LYS:HG3	85:AA:572:G:N2	2.28	0.49
85:AA:431:G:N2	85:AA:441:C:H1'	2.28	0.49
85:AA:1150:G:C5	85:AA:1151:G:C6	3.00	0.49
27:AT:91:ARG:HA	85:AA:521:A:C2	2.48	0.49
35:BB:1003:G:N1	35:BB:1004:A:C5	2.81	0.49
34:BA:712:C:H2'	34:BA:713:C:H6	1.77	0.49
85:AA:826:C:C5'	85:AA:856:G:C2	2.94	0.49
34:BA:529:A:C2	34:BA:530:A:C5	3.01	0.49
3:A2:17:LEU:HD21	3:A2:93:ASN:ND2	2.26	0.49
35:BB:476:A:OP2	85:AA:1162:A:C2'	2.55	0.49
85:AA:1297:G:H2'	85:AA:1298:G:C8	2.48	0.49
85:AA:1714:G:H2'	85:AA:1715:C:C6	2.48	0.49
34:BA:513:U:H2'	34:BA:514:U:C5	2.48	0.49
16:AH:83:ILE:HG22	16:AH:85:ALA:O	2.13	0.49
23:AP:163:THR:HG23	23:AP:182:ALA:H	1.78	0.49
23:AP:163:THR:CG2	23:AP:182:ALA:H	2.26	0.49
35:BB:634:A:C4	35:BB:648:G:C2	3.01	0.49
35:BB:1057:G:C5	35:BB:1058:U:C4	3.01	0.49
85:AA:1799:C:C2	85:AA:1808:G:H1'	2.47	0.49
57:BX:110:SER:HA	57:BX:142:LYS:HB2	1.94	0.49
85:AA:1891:U:H2'	85:AA:1892:G:C8	2.47	0.49
40:BG:116:G:C6	40:BG:117:C:C4	3.00	0.49
34:BA:409:A:C5	34:BA:410:G:C5	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AQ:64:LYS:HE2	24:AQ:73:THR:C	2.33	0.49
85:AA:413:G:O5'	85:AA:413:G:C8	2.66	0.49
34:BA:104:A:H3'	34:BA:105:U:C5	2.48	0.49
85:AA:1636:C:C2	85:AA:1637:C:C6	3.01	0.49
85:AA:795:C:N3	85:AA:796:U:C4	2.81	0.49
31:AX:70:ALA:O	31:AX:74:GLN:HG2	2.13	0.49
18:AJ:40:VAL:CG1	18:AJ:44:HIS:CE1	2.96	0.49
25:AR:36:ALA:HB2	25:AR:60:ALA:HA	1.95	0.49
19:AK:65:TYR:HA	19:AK:68:ARG:CZ	2.42	0.49
34:BA:1202:G:C6	34:BA:1203:G:N7	2.81	0.49
34:BA:1275:G:N2	34:BA:1466:U:C2	2.81	0.49
34:BA:1618:A:C8	34:BA:1618:A:O5'	2.66	0.49
34:BA:1673:G:C6	34:BA:1680:G:N1	2.81	0.49
34:BA:1673:G:N1	34:BA:1680:G:C5	2.81	0.49
34:BA:1723:U:O2	34:BA:1724:G:C5	2.66	0.49
34:BA:1795:A:H3'	35:BB:789:G:C6	2.48	0.49
34:BA:17:A:C6	34:BA:18:G:C6	3.00	0.49
34:BA:1827:C:H5"	34:BA:1828:A:P	2.53	0.49
34:BA:315:U:C6	34:BA:316:G:C8	3.01	0.49
34:BA:342:U:C4	34:BA:348:U:O4	2.66	0.49
34:BA:57:A:C5	34:BA:58:A:N7	2.80	0.49
34:BA:754:G:H2'	34:BA:755:G:O4'	2.13	0.49
34:BA:754:G:C6	34:BA:755:G:C4	3.01	0.49
34:BA:862:C:C2	34:BA:875:G:C2	3.00	0.49
34:BA:907:A:N1	34:BA:1033:G:C2	2.81	0.49
34:BA:934:G:C2	34:BA:956:G:C2	3.00	0.49
35:BB:701:U:C4	35:BB:1040:C:OP2	2.66	0.49
35:BB:1081:U:C4	35:BB:1082:A:C4	3.01	0.49
35:BB:1133:C:O5'	35:BB:1133:C:H6	1.96	0.49
35:BB:114:A:C6	35:BB:115:A:C5	3.01	0.49
35:BB:125:G:C2	35:BB:126:C:C2	3.00	0.49
35:BB:1359:G:C8	35:BB:1360:A:N7	2.81	0.49
35:BB:385:C:C6	35:BB:386:G:C8	3.01	0.49
34:BA:1845:G:C2	35:BB:6:A:C4	3.01	0.49
35:BB:877:A:C6	35:BB:901:U:H5"	2.47	0.49
35:BB:85:A:H61	35:BB:93:A:H61	1.60	0.49
36:BC:124:A:C6	36:BC:139:A:N1	2.80	0.49
36:BC:71:A:C2	36:BC:82:C:C4	3.01	0.49
37:BD:32:A:C6	37:BD:46:G:C6	3.00	0.49
37:BD:34:C:C5	37:BD:35:C:C4	3.01	0.49
37:BD:34:C:C6	37:BD:35:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:127:G:C6	38:BE:128:G:C5	3.01	0.49
38:BE:32:U:O2	38:BE:183:C:C5	2.65	0.49
38:BE:4:A:N7	38:BE:5:A:C5	2.81	0.49
38:BE:8:G:C6	38:BE:9:C:C4	3.01	0.49
40:BG:173:C:C5	40:BG:174:G:N7	2.81	0.49
40:BG:94:G:C6	40:BG:95:U:C4	3.00	0.49
41:BH:34:G:C2	41:BH:121:A:N3	2.80	0.49
85:AA:1226:A:H62	85:AA:1273:C:N4	2.11	0.49
85:AA:2122:A:P	85:AA:2122:A:C8	3.06	0.49
85:AA:426:C:C2	85:AA:427:G:C8	3.01	0.49
27:AT:126:GLY:HA3	85:AA:152:A:C4'	2.39	0.49
35:BB:1377:A:C5	35:BB:1378:U:C5	3.01	0.49
35:BB:570:A:C6	35:BB:571:C:C2	3.01	0.49
35:BB:828:G:C5	35:BB:829:C:C5	3.01	0.49
35:BB:867:C:H2'	35:BB:868:C:C6	2.48	0.49
35:BB:515:C:O4'	35:BB:538:A:C2	2.65	0.49
85:AA:935:A:H2'	85:AA:936:C:C4	2.47	0.49
85:AA:2018:U:O2	85:AA:2064:A:C2	2.66	0.49
34:BA:191:G:C5	34:BA:293:A:N1	2.81	0.49
34:BA:198:U:C2	34:BA:262:A:C8	3.01	0.49
34:BA:256:A:H5"	34:BA:257:G:H5'	1.95	0.49
35:BB:1284:U:C4	35:BB:1285:U:C5	3.01	0.49
35:BB:27:C:C6	35:BB:27:C:H3'	2.46	0.49
35:BB:665:A:C5	35:BB:666:A:C8	3.01	0.49
35:BB:1500:U:O2	35:BB:1506:C:C4	2.66	0.49
85:AA:211:C:N4	85:AA:241:U:C4	2.81	0.49
85:AA:258:G:C2	85:AA:322:A:C2	3.01	0.49
35:BB:366:G:H2'	35:BB:367:C:C6	2.47	0.49
35:BB:1522:G:C2	35:BB:1546:C:C2	3.00	0.49
85:AA:1675:U:C5	85:AA:1676:G:C6	3.00	0.49
7:A6:84:PHE:HA	7:A6:106:ARG:CD	2.43	0.49
85:AA:564:A:H2'	85:AA:565:G:C5'	2.43	0.49
85:AA:2060:G:C6	85:AA:2061:C:C4	3.00	0.49
85:AA:118:C:N3	85:AA:119:G:C5	2.81	0.49
35:BB:576:A:H1'	35:BB:1420:U:C4'	2.43	0.49
85:AA:817:G:C6	85:AA:820:G:N7	2.80	0.49
85:AA:821:U:H3	85:AA:859:G:H22	1.60	0.49
34:BA:1040:G:N1	34:BA:1041:U:C2	2.81	0.49
85:AA:736:U:C4	85:AA:740:A:C5	2.99	0.49
85:AA:756:G:OP1	85:AA:756:G:H4'	2.12	0.49
34:BA:532:C:H2'	34:BA:533:U:C5'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1830:U:H2'	85:AA:1831:U:O4'	2.13	0.49
85:AA:1711:C:C2	85:AA:1857:G:N2	2.81	0.49
34:BA:1702:G:C8	34:BA:1703:A:C5	3.01	0.49
9:A8:24:ILE:HG21	9:A8:43:CYS:SG	2.53	0.49
85:AA:1372:C:C6	85:AA:1372:C:H3'	2.48	0.49
35:BB:772:U:H2'	35:BB:773:G:C8	2.48	0.49
35:BB:773:G:C2	35:BB:774:C:C2	3.01	0.49
8:A7:195:HIS:CE1	8:A7:214:SER:HA	2.47	0.49
8:A7:301:TYR:CD1	8:A7:301:TYR:N	2.81	0.49
85:AA:2156:C:C2	85:AA:2163:G:N2	2.81	0.48
34:BA:1108:U:C4	34:BA:1109:G:N7	2.80	0.48
34:BA:129:U:C4	34:BA:135:G:N1	2.81	0.48
34:BA:132:U:O2	34:BA:182:U:H1'	2.13	0.48
34:BA:1519:G:C2	34:BA:1520:A:C4	3.00	0.48
34:BA:1691:G:C6	34:BA:1825:U:C4	3.01	0.48
34:BA:1782:C:N3	34:BA:1783:C:C5	2.81	0.48
34:BA:182:U:C4	34:BA:183:G:N7	2.81	0.48
34:BA:184:C:C4	34:BA:185:A:C8	3.01	0.48
34:BA:354:G:N1	34:BA:355:U:C2	2.81	0.48
34:BA:355:U:C4	34:BA:356:C:C5	3.01	0.48
34:BA:373:G:C2	34:BA:374:U:C2	3.01	0.48
34:BA:497:U:C2	34:BA:498:A:C8	3.01	0.48
34:BA:52:G:C4	34:BA:53:G:C8	3.01	0.48
34:BA:932:G:C2	34:BA:933:U:H1'	2.48	0.48
35:BB:1078:U:C2	35:BB:1095:G:C2	3.01	0.48
35:BB:1456:G:C2	35:BB:1457:A:C5	3.01	0.48
35:BB:39:C:C2	35:BB:40:C:C5	3.01	0.48
34:BA:1652:G:C2	35:BB:41:A:C2	3.01	0.48
35:BB:40:C:C2	35:BB:41:A:C5	3.01	0.48
35:BB:446:U:O2	35:BB:448:G:C6	2.65	0.48
35:BB:487:A:C2	35:BB:494:C:C2	3.01	0.48
35:BB:62:C:C3'	35:BB:62:C:C6	2.96	0.48
36:BC:113:G:C2	36:BC:114:C:C2	3.00	0.48
36:BC:166:G:H3'	36:BC:167:U:C6	2.49	0.48
36:BC:166:G:C8	36:BC:167:U:C4	3.01	0.48
36:BC:98:C:C5	36:BC:98:C:OP2	2.66	0.48
37:BD:56:G:C6	37:BD:57:C:C2	3.01	0.48
38:BE:105:A:H2'	38:BE:106:C:H6	1.77	0.48
38:BE:23:G:C4	38:BE:25:U:C5	3.00	0.48
39:BF:24:G:C4	48:BO:187:HIS:HB2	2.48	0.48
40:BG:118:U:H2'	40:BG:119:A:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:158:A:H3'	40:BG:158:A:N3	2.27	0.48
41:BH:115:A:H5"	41:BH:118:U:H5	1.78	0.48
41:BH:29:G:H1'	41:BH:128:G:N2	2.28	0.48
41:BH:29:G:N2	41:BH:127:A:C2	2.80	0.48
41:BH:39:G:C6	41:BH:113:G:C6	3.00	0.48
41:BH:42:U:H4'	41:BH:43:G:H5"	1.95	0.48
41:BH:48:G:H5"	41:BH:49:C:OP1	2.13	0.48
41:BH:50:A:H2'	41:BH:51:C:O4'	2.13	0.48
48:BO:30:LYS:HA	48:BO:58:LYS:HB3	1.94	0.48
4:A3:97:ARG:CZ	85:AA:472:A:H5'	2.42	0.48
85:AA:1498:C:C2	85:AA:1499:G:C8	3.01	0.48
85:AA:2114:U:O2	85:AA:2205:A:C2	2.66	0.48
85:AA:332:A:H4'	85:AA:333:A:OP2	2.13	0.48
85:AA:424:A:H2'	85:AA:425:G:N7	2.27	0.48
85:AA:478:U:O5'	85:AA:478:U:C6	2.66	0.48
85:AA:499:G:N2	85:AA:501:A:C8	2.81	0.48
85:AA:924:A:C5	85:AA:925:G:C8	3.01	0.48
34:BA:655:U:H2'	34:BA:657:C:H5'	1.95	0.48
35:BB:843:G:C2	35:BB:844:G:C4	3.00	0.48
35:BB:855:G:C2	35:BB:856:U:C6	3.01	0.48
35:BB:967:G:N2	35:BB:968:C:C2	2.81	0.48
35:BB:971:A:C5'	35:BB:972:C:H2'	2.43	0.48
3:A2:184:ARG:NH1	86:AB:41:C:C4'	2.70	0.48
85:AA:1187:G:C6	85:AA:1191:G:C6	3.01	0.48
35:BB:533:U:H2'	35:BB:534:C:C6	2.48	0.48
5:A4:13:LEU:HD11	5:A4:29:LEU:CD2	2.43	0.48
17:AI:45:HIS:CE1	85:AA:2014:G:C8	3.00	0.48
85:AA:2037:A:C6	85:AA:2038:C:C2	3.01	0.48
34:BA:594:G:C2	34:BA:684:G:C2	3.01	0.48
22:AO:132:LYS:CD	22:AO:138:HIS:CE1	2.96	0.48
34:BA:726:G:C2	34:BA:727:G:C4	3.01	0.48
35:BB:1093:C:H5"	44:BK:119:TYR:CD2	2.48	0.48
35:BB:22:A:C5	35:BB:26:C:C4	3.01	0.48
85:AA:589:A:N7	85:AA:605:A:C4	2.81	0.48
85:AA:1676:G:H2'	85:AA:1677:A:C8	2.47	0.48
85:AA:1684:U:C5	85:AA:1685:G:C8	3.00	0.48
85:AA:977:U:C6	85:AA:977:U:H5"	2.48	0.48
85:AA:883:A:C4	85:AA:884:A:N6	2.81	0.48
85:AA:278:C:H2'	85:AA:279:C:H6	1.72	0.48
34:BA:1:C:O2	34:BA:2:A:C2	2.66	0.48
34:BA:2:A:N3	36:BC:169:G:C2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2088:U:C4	85:AA:2089:G:N7	2.81	0.48
85:AA:791:C:C2	85:AA:792:A:N6	2.81	0.48
85:AA:1486:G:C4	85:AA:1487:G:C8	3.01	0.48
34:BA:1347:G:C6	34:BA:1399:A:C6	3.00	0.48
35:BB:1401:G:H3'	35:BB:1402:U:C5	2.48	0.48
85:AA:744:C:C2	85:AA:766:G:C5	3.01	0.48
34:BA:1431:G:H2'	34:BA:1432:C:C6	2.47	0.48
34:BA:989:C:H2'	34:BA:990:G:H8	1.78	0.48
85:AA:1954:C:C2	85:AA:1955:U:C5	3.01	0.48
12:AD:33:TRP:CD2	12:AD:33:TRP:N	2.79	0.48
35:BB:690:C:C2	35:BB:1055:G:C2	3.01	0.48
5:A4:190:PHE:HB3	85:AA:1357:U:OP2	2.12	0.48
85:AA:847:G:C5	85:AA:848:C:C5	3.01	0.48
18:AJ:68:ARG:HA	23:AP:235:LEU:HD22	1.95	0.48
85:AA:1421:U:H4'	85:AA:1422:A:C8	2.48	0.48
35:BB:710:A:C5	35:BB:711:C:C4	3.01	0.48
85:AA:1212:C:OP2	85:AA:1212:C:C4	2.66	0.48
2:A1:105:ARG:NE	2:A1:105:ARG:HA	2.27	0.48
85:AA:1979:A:H4'	85:AA:1981:A:C2	2.48	0.48
11:AC:88:HIS:CE1	11:AC:92:GLU:OE2	2.66	0.48
17:AI:88:ARG:HB3	85:AA:2023:U:C5	2.48	0.48
34:BA:110:C:C3'	34:BA:110:C:C6	2.93	0.48
34:BA:1155:U:C4	34:BA:1156:U:C4	3.02	0.48
34:BA:1158:A:H3'	34:BA:1159:A:H8	1.76	0.48
34:BA:12:G:C5	34:BA:13:U:C4	3.01	0.48
34:BA:1535:G:C4	34:BA:1572:G:C5	3.00	0.48
34:BA:1597:G:N2	35:BB:622:G:C4	2.81	0.48
34:BA:1731:A:C5	34:BA:1732:A:N7	2.80	0.48
34:BA:1741:G:H1'	35:BB:2:C:P	2.53	0.48
34:BA:1797:A:N3	34:BA:1798:G:C5	2.81	0.48
34:BA:320:G:H2'	34:BA:321:G:H8	1.73	0.48
34:BA:473:A:C6	34:BA:474:A:C6	3.01	0.48
34:BA:478:G:C5	34:BA:479:U:C5	3.01	0.48
34:BA:57:A:C8	34:BA:390:A:C6	3.01	0.48
34:BA:744:G:C6	34:BA:745:A:N7	2.81	0.48
34:BA:771:A:C5	34:BA:774:A:H1'	2.48	0.48
34:BA:818:G:C6	34:BA:853:A:C5	3.01	0.48
34:BA:857:C:H2'	34:BA:858:C:C6	2.48	0.48
35:BB:1096:G:H2'	35:BB:1096:G:N3	2.27	0.48
34:BA:38:G:H1'	35:BB:1259:A:N6	2.28	0.48
35:BB:1360:A:O5'	35:BB:1360:A:C8	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:653:G:C5	35:BB:1452:U:C2	3.01	0.48
35:BB:1454:G:C8	35:BB:1455:A:N7	2.81	0.48
35:BB:423:G:C6	35:BB:424:U:C2	3.00	0.48
34:BA:1846:G:C4	35:BB:5:A:N1	2.81	0.48
35:BB:65:A:N1	35:BB:66:G:C5	2.81	0.48
35:BB:6:A:C6	35:BB:7:C:C4	3.01	0.48
36:BC:145:G:C2	36:BC:146:U:C2	3.01	0.48
34:BA:484:A:C2	36:BC:5:U:C2	3.01	0.48
37:BD:41:G:N2	37:BD:45:U:C2	2.80	0.48
37:BD:90:A:N7	37:BD:91:U:H1'	2.28	0.48
38:BE:119:U:OP2	38:BE:119:U:C6	2.66	0.48
38:BE:123:A:C6	38:BE:124:G:C5	3.01	0.48
38:BE:180:G:H5"	38:BE:182:U:H5'	1.95	0.48
40:BG:104:A:C2	40:BG:105:A:C4	3.01	0.48
40:BG:44:G:N1	40:BG:45:G:C4	2.81	0.48
41:BH:127:A:C2	41:BH:128:G:C5	3.02	0.48
44:BK:68:ALA:HB2	44:BK:158:LYS:HB2	1.95	0.48
49:BP:28:VAL:HG21	49:BP:39:GLU:CB	2.42	0.48
34:BA:567:U:H3'	34:BA:567:U:C6	2.48	0.48
85:AA:476:C:N3	85:AA:477:U:C5	2.81	0.48
85:AA:506:G:C2	85:AA:534:A:C2	3.01	0.48
85:AA:637:U:H2'	85:AA:638:G:C8	2.48	0.48
85:AA:640:C:H2'	85:AA:641:A:C8	2.48	0.48
85:AA:669:G:C6	85:AA:670:C:C4	3.00	0.48
85:AA:690:G:H1'	85:AA:695:A:C4	2.47	0.48
85:AA:696:G:C2	85:AA:1482:C:C2	3.01	0.48
34:BA:649:A:C2	34:BA:650:C:N1	2.82	0.48
35:BB:526:A:H3'	35:BB:527:U:C6	2.47	0.48
35:BB:804:U:C5	35:BB:805:G:N9	2.80	0.48
35:BB:812:G:H1	35:BB:827:U:H3	1.61	0.48
35:BB:831:C:H3'	35:BB:831:C:C6	2.48	0.48
35:BB:834:U:C5	35:BB:834:U:OP2	2.66	0.48
35:BB:975:G:H2'	35:BB:975:G:N3	2.27	0.48
35:BB:1191:G:C6	35:BB:1199:A:C6	3.02	0.48
85:AA:1564:U:H3	85:AA:1575:G:N2	2.11	0.48
21:AM:35:LYS:CG	21:AM:36:GLY:H	2.27	0.48
34:BA:194:G:H2'	34:BA:195:G:H5'	1.94	0.48
34:BA:677:U:O5'	34:BA:677:U:C6	2.65	0.48
34:BA:1243:A:C8	34:BA:1245:C:C5	3.01	0.48
35:BB:22:A:C4	35:BB:26:C:C4	3.01	0.48
35:BB:1497:C:C2	35:BB:1509:G:C2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1671:G:C5	85:AA:1672:G:C8	3.01	0.48
85:AA:1679:U:H2'	85:AA:1680:U:C6	2.48	0.48
85:AA:983:A:C8	85:AA:983:A:H3'	2.48	0.48
85:AA:279:C:C2	85:AA:291:G:N2	2.81	0.48
34:BA:2:A:C2	36:BC:169:G:N3	2.80	0.48
19:AK:19:LYS:HB3	19:AK:129:ARG:HD2	1.95	0.48
34:BA:1091:U:H6	34:BA:1091:U:O5'	1.96	0.48
34:BA:1136:A:C2	34:BA:1137:U:H1'	2.49	0.48
34:BA:529:A:N6	34:BA:530:A:H62	2.09	0.48
85:AA:1251:G:C2	85:AA:1252:A:C4	3.01	0.48
85:AA:1444:U:H3'	85:AA:1445:C:C6	2.48	0.48
12:AD:33:TRP:CE2	85:AA:1957:C:C5	3.01	0.48
35:BB:451:A:C5	35:BB:452:A:N7	2.81	0.48
35:BB:637:G:C6	35:BB:638:G:C5	3.01	0.48
5:A4:192:TRP:HA	85:AA:1356:U:H5'	1.95	0.48
85:AA:1595:G:C8	85:AA:1595:G:H5"	2.48	0.48
35:BB:891:U:N3	35:BB:893:U:C4	2.81	0.48
47:BN:59:LEU:CD1	47:BN:158:TYR:CE1	2.96	0.48
85:AA:510:A:H3'	85:AA:511:A:H8	1.78	0.48
2:A1:79:TYR:CE2	2:A1:80:PRO:HG2	2.47	0.48
35:BB:408:U:N1	35:BB:1436:U:C5	2.81	0.48
34:BA:1077:G:C2	34:BA:1217:A:C2	3.01	0.48
85:AA:1784:G:C2	85:AA:1785:U:C2	3.02	0.48
35:BB:859:U:C4	35:BB:861:C:H5"	2.48	0.48
85:AA:1641:A:C2	85:AA:1642:A:C4	3.01	0.48
19:AK:37:ILE:HB	19:AK:45:ILE:HG21	1.95	0.48
12:AD:30:LEU:HD21	12:AD:38:GLY:O	2.14	0.48
34:BA:1046:G:C4	34:BA:1047:U:C5	3.01	0.48
34:BA:1073:G:C5	34:BA:1074:C:C6	3.01	0.48
34:BA:112:C:O2	34:BA:112:C:H2'	2.12	0.48
34:BA:1323:G:C6	34:BA:1324:G:N7	2.81	0.48
34:BA:1566:G:C2	34:BA:1567:G:N1	2.81	0.48
34:BA:1607:U:O4	35:BB:60:A:C2	2.66	0.48
34:BA:1666:U:H2'	34:BA:1667:G:O4'	2.13	0.48
34:BA:1634:A:N7	34:BA:1678:U:C2	2.81	0.48
34:BA:1665:G:C4	34:BA:1686:G:N2	2.81	0.48
34:BA:1841:A:C4	35:BB:9:G:C2	3.01	0.48
34:BA:213:A:C2	34:BA:220:U:C2	3.00	0.48
34:BA:172:A:C5	34:BA:316:G:C6	3.02	0.48
34:BA:359:G:H3'	34:BA:360:C:C5'	2.43	0.48
34:BA:374:U:H3'	34:BA:375:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:38:G:C4	34:BA:39:C:C6	3.02	0.48
34:BA:426:A:H3'	34:BA:427:G:O4'	2.12	0.48
34:BA:502:U:C4	34:BA:701:G:C6	3.01	0.48
34:BA:733:G:H3'	34:BA:734:G:H8	1.78	0.48
34:BA:758:G:H22	34:BA:782:C:H1'	1.78	0.48
34:BA:825:G:N2	34:BA:826:C:C2	2.81	0.48
34:BA:424:U:H1'	34:BA:916:A:H62	1.78	0.48
34:BA:931:G:O6	34:BA:932:G:C5	2.66	0.48
35:BB:1241:U:C2	35:BB:1242:C:C6	3.00	0.48
35:BB:1291:G:C2	35:BB:1314:G:N3	2.81	0.48
35:BB:1355:C:H2'	35:BB:1357:C:C5'	2.42	0.48
35:BB:622:G:H4'	51:BR:139:TYR:CD2	2.48	0.48
35:BB:693:U:H2'	35:BB:694:C:C6	2.47	0.48
35:BB:99:G:C2	35:BB:100:A:C4	3.02	0.48
34:BA:1842:U:H4'	36:BC:126:G:H4'	1.95	0.48
36:BC:55:U:C2	36:BC:62:A:C2	3.01	0.48
37:BD:110:G:N1	37:BD:111:U:C4	2.81	0.48
37:BD:31:U:C2	37:BD:32:A:C8	3.01	0.48
40:BG:28:A:C5	40:BG:29:U:C5	3.01	0.48
40:BG:35:G:C4	40:BG:36:G:C8	3.01	0.48
40:BG:74:G:C2	40:BG:124:A:C5	3.01	0.48
41:BH:100:A:H3'	41:BH:101:A:C5'	2.44	0.48
41:BH:29:G:O6	41:BH:30:C:C4	2.66	0.48
41:BH:31:A:C4	41:BH:32:U:C5	3.01	0.48
41:BH:44:A:C8	41:BH:45:G:C8	3.01	0.48
49:BP:17:ARG:CB	49:BP:55:ASN:HD21	2.26	0.48
85:AA:147:G:N1	85:AA:148:G:C5	2.81	0.48
85:AA:1495:G:N1	85:AA:1496:U:C2	2.81	0.48
85:AA:175:A:C5	85:AA:176:C:C5	3.01	0.48
85:AA:2129:U:C4	85:AA:2130:G:C6	3.00	0.48
85:AA:36:U:C2	85:AA:543:A:C2	3.01	0.48
85:AA:25:C:C6	85:AA:540:A:H4'	2.49	0.48
34:BA:611:A:C2	34:BA:668:G:N2	2.82	0.48
34:BA:611:A:H3'	34:BA:611:A:C8	2.47	0.48
34:BA:618:G:H2'	34:BA:619:U:C6	2.48	0.48
35:BB:797:C:H2'	35:BB:798:A:O4'	2.14	0.48
35:BB:830:G:C2	35:BB:831:C:C6	3.01	0.48
35:BB:842:G:C2	35:BB:843:G:C8	3.01	0.48
35:BB:843:G:C2	35:BB:970:C:O2	2.66	0.48
85:AA:1217:U:H2'	85:AA:1218:C:O4'	2.14	0.48
85:AA:1128:G:C2	85:AA:1129:A:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:927:A:C6	85:AA:928:U:C4	3.01	0.48
85:AA:1549:G:C5	85:AA:1550:C:C4	3.01	0.48
85:AA:1988:A:N3	85:AA:1989:A:C5	2.82	0.48
34:BA:596:G:C5	34:BA:1487:U:H2'	2.49	0.48
85:AA:1286:C:N3	85:AA:1287:C:C5	2.82	0.48
85:AA:15:U:O4'	85:AA:693:A:C5	2.66	0.48
23:AP:100:THR:HG23	85:AA:1523:G:H4'	1.95	0.48
85:AA:704:A:N3	85:AA:1219:A:C4	2.81	0.48
85:AA:271:A:H3'	85:AA:271:A:C8	2.48	0.48
34:BA:1:C:N3	34:BA:2:A:C2	2.81	0.48
85:AA:555:C:H2'	85:AA:556:C:N1	2.29	0.48
85:AA:560:C:N3	85:AA:561:C:C5	2.81	0.48
85:AA:2060:G:C6	85:AA:2061:C:C5	3.00	0.48
52:BS:8:HIS:ND1	52:BS:66:VAL:HG13	2.28	0.48
85:AA:342:C:H2'	85:AA:343:U:O4'	2.14	0.48
85:AA:345:U:C4	85:AA:346:U:C2	3.01	0.48
86:AB:30:G:H3'	86:AB:31:A:H8	1.78	0.48
86:AB:44:G:C2	86:AB:45:U:H1'	2.49	0.48
85:AA:1004:G:C5	85:AA:1005:C:C6	3.01	0.48
86:AB:5:G:C6	86:AB:69:G:C6	3.01	0.48
34:BA:1702:G:C8	34:BA:1703:A:N7	2.81	0.48
85:AA:1304:C:H3'	85:AA:1305:A:N7	2.28	0.48
11:AC:192:PHE:CD1	25:AR:64:ARG:CB	2.97	0.48
85:AA:1797:U:C2	85:AA:1798:U:H4'	2.48	0.48
35:BB:736:G:H2'	35:BB:737:C:C6	2.49	0.48
35:BB:735:A:C6	35:BB:745:C:H4'	2.48	0.48
35:BB:300:U:H2'	35:BB:301:G:C8	2.48	0.48
42:BI:112:PHE:CE2	42:BI:127:CYS:HA	2.47	0.48
85:AA:1553:G:C2	85:AA:1554:C:C2	3.02	0.48
11:AC:126:PHE:HA	11:AC:129:LEU:HD23	1.95	0.48
85:AA:1872:G:C8	85:AA:1873:U:C6	3.01	0.48
23:AP:113:VAL:HG11	23:AP:197:ILE:HG23	1.94	0.48
5:A4:149:THR:HG23	18:AJ:49:GLU:OE1	2.14	0.48
48:BO:28:ASP:O	48:BO:32:HIS:CE1	2.66	0.48
34:BA:1392:A:C5	34:BA:1393:C:C5	3.01	0.48
35:BB:747:A:H3'	35:BB:748:A:C8	2.48	0.48
4:A3:186:THR:O	4:A3:189:ALA:HB3	2.14	0.48
34:BA:1059:U:OP2	35:BB:677:U:C5	2.66	0.48
34:BA:1190:A:C5	34:BA:1191:C:C4	3.01	0.48
34:BA:1329:U:H1'	34:BA:1413:G:N2	2.29	0.48
34:BA:124:G:N2	34:BA:141:G:C6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1441:C:C2	34:BA:1442:A:C8	3.00	0.48
34:BA:1537:G:OP2	34:BA:1537:G:C6	2.67	0.48
34:BA:1653:G:C6	34:BA:1654:G:N7	2.82	0.48
34:BA:184:C:N3	34:BA:185:A:C8	2.81	0.48
34:BA:18:G:C3'	34:BA:19:G:H8	2.26	0.48
34:BA:20:A:N7	34:BA:21:C:C5	2.81	0.48
34:BA:316:G:H1'	34:BA:317:U:H5	1.78	0.48
34:BA:427:G:C6	34:BA:428:C:C4	3.02	0.48
34:BA:474:A:N1	34:BA:475:A:N1	2.61	0.48
34:BA:481:A:H2	36:BC:8:C:C2	2.30	0.48
34:BA:737:U:C2	34:BA:738:C:N3	2.82	0.48
34:BA:782:C:O2'	34:BA:783:U:H5'	2.13	0.48
34:BA:800:G:C4	34:BA:801:U:C5	3.02	0.48
34:BA:809:U:C2	34:BA:810:A:C8	3.02	0.48
34:BA:86:A:C8	34:BA:97:A:C6	3.01	0.48
34:BA:1420:A:H1'	35:BB:1345:A:H5"	1.94	0.48
35:BB:1533:U:C4	35:BB:1536:G:C6	3.01	0.48
34:BA:1661:U:C4	35:BB:18:A:C5	3.01	0.48
35:BB:377:A:C2	35:BB:378:C:C6	3.01	0.48
35:BB:43:G:C4	35:BB:44:C:C6	3.00	0.48
36:BC:136:G:C4	36:BC:137:C:C6	3.02	0.48
36:BC:138:C:H2'	36:BC:139:A:C8	2.48	0.48
36:BC:18:G:C4	36:BC:19:A:N7	2.81	0.48
36:BC:75:G:C6	36:BC:76:C:C4	3.01	0.48
37:BD:105:G:C4	37:BD:106:G:C8	3.02	0.48
37:BD:28:C:C5	37:BD:29:C:C5	3.01	0.48
37:BD:71:G:C4	37:BD:72:U:C6	3.02	0.48
38:BE:170:U:C6	38:BE:171:U:C6	3.01	0.48
38:BE:23:G:C2	38:BE:197:A:C6	3.01	0.48
38:BE:19:G:H4'	38:BE:20:C:OP2	2.13	0.48
38:BE:26:G:N2	38:BE:193:A:C8	2.81	0.48
38:BE:31:A:H2'	38:BE:32:U:C4	2.49	0.48
38:BE:59:U:H2'	38:BE:60:C:C6	2.47	0.48
38:BE:5:A:C6	38:BE:6:A:C6	3.01	0.48
40:BG:112:C:C4	40:BG:113:G:N7	2.81	0.48
40:BG:25:G:C5	40:BG:26:G:N7	2.81	0.48
40:BG:36:G:N1	40:BG:167:C:C4	2.82	0.48
40:BG:44:G:C2	40:BG:45:G:N9	2.81	0.48
40:BG:88:G:H2'	40:BG:89:A:O4'	2.14	0.48
41:BH:134:U:C3'	41:BH:134:U:C6	2.96	0.48
34:BA:1111:U:O2'	44:BK:92:HIS:CE1	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:103:PHE:CD2	45:BL:109:PHE:HB3	2.48	0.48
45:BL:44:LEU:HD23	45:BL:74:VAL:HB	1.96	0.48
45:BL:123:TYR:CZ	45:BL:125:PRO:HA	2.48	0.48
85:AA:28:A:C4	85:AA:29:U:C6	3.01	0.48
85:AA:35:U:H6	85:AA:35:U:H5"	1.76	0.48
85:AA:472:A:O5'	85:AA:472:A:H8	1.96	0.48
85:AA:480:U:C5	85:AA:482:C:N4	2.81	0.48
85:AA:52:U:O5'	85:AA:52:U:H6	1.96	0.48
85:AA:634:U:N3	85:AA:660:G:C2	2.82	0.48
85:AA:635:G:C4	85:AA:659:A:C2	3.01	0.48
85:AA:637:U:C4	85:AA:638:G:O6	2.67	0.48
85:AA:675:A:C5	85:AA:676:U:C4	3.01	0.48
85:AA:698:G:C5	85:AA:699:U:C5	3.01	0.48
85:AA:85:U:H5'	85:AA:85:U:H6	1.78	0.48
35:BB:823:G:O6	35:BB:824:C:C4	2.66	0.48
85:AA:705:G:H2'	85:AA:706:U:C6	2.48	0.48
85:AA:1897:A:C4	85:AA:1897:A:OP2	2.66	0.48
85:AA:2008:G:H1	85:AA:2034:G:C2'	2.25	0.48
35:BB:628:A:H2'	35:BB:629:C:C6	2.49	0.48
85:AA:1917:G:H2'	85:AA:1918:U:C6	2.48	0.48
35:BB:1529:G:C2	35:BB:1530:U:C2	3.01	0.48
18:AJ:2:THR:HG22	85:AA:1284:A:C5'	2.43	0.48
85:AA:1612:C:H3'	85:AA:1613:A:C8	2.49	0.48
85:AA:1540:A:C2	85:AA:2049:U:N3	2.81	0.48
85:AA:1540:A:H8	85:AA:1540:A:O5'	1.95	0.48
85:AA:2059:A:C2	85:AA:2072:G:C4	3.01	0.48
85:AA:2069:A:C5	85:AA:2070:C:C5	3.01	0.48
85:AA:774:C:H3'	85:AA:775:C:C6	2.48	0.48
85:AA:792:A:N6	85:AA:800:A:H3'	2.27	0.48
24:AQ:16:ARG:HH21	24:AQ:115:HIS:C	2.16	0.48
35:BB:1064:U:C5	35:BB:1068:G:OP2	2.66	0.48
35:BB:1067:G:C5	35:BB:1068:G:C8	3.02	0.48
34:BA:1343:A:H3'	34:BA:1344:G:H8	1.79	0.48
85:AA:118:C:N3	85:AA:362:G:C2	2.81	0.48
1:A0:234:HIS:HE1	1:A0:237:VAL:H	1.61	0.48
34:BA:1093:G:N1	34:BA:1094:U:C2	2.81	0.48
85:AA:338:G:N1	85:AA:339:A:C4	2.81	0.48
34:BA:1125:G:C6	34:BA:1126:U:O4	2.66	0.48
85:AA:264:A:H61	85:AA:866:U:H1'	1.79	0.48
85:AA:867:G:C6	85:AA:869:A:C6	3.02	0.48
85:AA:348:G:C4	85:AA:349:C:C6	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:534:C:C4	34:BA:535:G:N7	2.81	0.48
34:BA:534:C:C2	34:BA:535:G:C8	3.02	0.48
34:BA:586:G:H2'	34:BA:587:U:H5"	1.95	0.48
34:BA:587:U:H6	34:BA:587:U:C5'	2.27	0.48
19:AK:36:ARG:HH21	19:AK:70:ARG:HD3	1.77	0.48
85:AA:1844:A:C2	85:AA:1845:G:C4	3.01	0.48
85:AA:1934:A:C5	85:AA:1957:C:H4'	2.48	0.48
85:AA:1935:G:C2	85:AA:1955:U:O2	2.67	0.48
85:AA:1089:G:C2	85:AA:1090:A:H1'	2.48	0.48
85:AA:1091:C:H2'	85:AA:1092:G:C8	2.47	0.48
38:BE:175:U:O2	38:BE:175:U:H2'	2.12	0.48
35:BB:145:G:H4'	35:BB:146:U:OP1	2.13	0.48
18:AJ:102:VAL:HB	18:AJ:113:HIS:CG	2.48	0.48
45:BL:145:VAL:HA	45:BL:148:ARG:CZ	2.43	0.48
20:AL:53:TYR:CE1	20:AL:56:HIS:CD2	3.00	0.48
34:BA:123:C:H2'	34:BA:124:G:C8	2.48	0.48
34:BA:125:G:N2	34:BA:126:G:H1'	2.28	0.48
34:BA:1458:A:C6	34:BA:1460:U:C6	3.02	0.48
34:BA:1547:G:C4	34:BA:1549:U:C5	3.01	0.48
34:BA:1565:U:H2'	34:BA:1566:G:C8	2.49	0.48
34:BA:1731:A:N6	34:BA:1732:A:C2	2.82	0.48
34:BA:1741:G:C2	34:BA:1742:G:C4	3.02	0.48
34:BA:1815:G:C2	34:BA:1816:G:C4	3.02	0.48
34:BA:1828:A:H3'	34:BA:1828:A:C8	2.48	0.48
34:BA:307:C:C4	34:BA:308:C:C5	3.01	0.48
34:BA:332:U:C4	34:BA:333:A:N7	2.81	0.48
34:BA:431:A:N6	34:BA:432:A:C2	2.82	0.48
34:BA:485:C:H4'	34:BA:705:C:C5'	2.43	0.48
34:BA:66:C:N3	34:BA:67:A:H1'	2.28	0.48
34:BA:744:G:C4	34:BA:745:A:C8	3.01	0.48
35:BB:1118:G:C6	35:BB:1119:G:C6	3.02	0.48
35:BB:1122:C:H3'	35:BB:1123:A:H2'	1.94	0.48
35:BB:121:A:H2'	35:BB:121:A:N3	2.29	0.48
35:BB:1455:A:O5'	35:BB:1455:A:C8	2.67	0.48
35:BB:1:U:H5"	35:BB:2:C:H1'	1.94	0.48
35:BB:782:A:H3'	35:BB:783:U:C6	2.48	0.48
35:BB:89:C:C4	35:BB:90:G:C5	3.01	0.48
36:BC:125:A:N1	36:BC:126:G:C4	2.80	0.48
37:BD:108:G:C6	37:BD:109:U:O4	2.65	0.48
38:BE:144:A:N3	38:BE:144:A:H2'	2.29	0.48
38:BE:166:G:C5	38:BE:167:U:C4	3.00	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:28:A:C6	40:BG:178:G:C6	3.01	0.48
41:BH:31:A:N1	41:BH:32:U:C4	2.81	0.48
44:BK:64:ALA:HB1	44:BK:158:LYS:O	2.12	0.48
47:BN:133:LEU:HD13	47:BN:136:LYS:HD3	1.96	0.48
34:BA:1818:A:C5'	53:BT:42:ARG:HH21	2.27	0.48
35:BB:100:A:H5"	53:BT:84:THR:CA	2.43	0.48
4:A3:58:ASP:O	4:A3:61:GLY:HA2	2.13	0.48
85:AA:172:A:N1	85:AA:173:A:C5	2.81	0.48
85:AA:147:G:C2	85:AA:177:A:H1'	2.48	0.48
85:AA:30:G:C6	85:AA:31:C:C4	3.01	0.48
85:AA:39:A:H1'	85:AA:540:A:C5	2.48	0.48
85:AA:57:G:C6	85:AA:88:G:N1	2.82	0.48
85:AA:84:C:N4	85:AA:85:U:C5	2.81	0.48
27:AT:126:GLY:HA3	85:AA:152:A:C5'	2.44	0.48
34:BA:615:A:N1	34:BA:666:C:N3	2.60	0.48
34:BA:648:C:C2	34:BA:649:A:C8	3.02	0.48
34:BA:653:U:C6	34:BA:653:U:O5'	2.66	0.48
35:BB:793:A:C6	35:BB:794:G:C6	3.02	0.48
85:AA:1654:G:H3'	85:AA:1655:G:C8	2.47	0.48
85:AA:2012:G:C2	85:AA:2032:G:C2	3.01	0.48
85:AA:1909:C:C5	85:AA:2040:A:C6	3.01	0.48
31:AX:173:HIS:CE1	85:AA:1654:G:H21	2.31	0.48
34:BA:1247:G:C2	34:BA:1248:A:C8	3.02	0.48
34:BA:1488:C:C5	34:BA:1489:U:C5	3.01	0.48
85:AA:604:C:H2'	85:AA:605:A:C6	2.48	0.48
8:A7:33:SER:O	8:A7:40:LEU:HA	2.13	0.48
35:BB:1524:G:N1	35:BB:1525:G:C5	2.82	0.48
35:BB:1543:C:H2'	35:BB:1544:A:C8	2.47	0.48
85:AA:1290:G:N2	85:AA:1291:A:C6	2.82	0.48
85:AA:1671:G:C5	85:AA:1672:G:N7	2.81	0.48
34:BA:1294:C:H1'	48:BO:141:LYS:NZ	2.29	0.48
85:AA:1598:A:C4	85:AA:1640:G:C2	3.01	0.48
32:AY:38:LEU:HD13	32:AY:39:LYS:N	2.29	0.48
85:AA:2086:C:O2	85:AA:2086:C:H2'	2.13	0.48
35:BB:1061:G:H2'	35:BB:1062:G:C8	2.49	0.48
85:AA:362:G:C2	85:AA:363:A:H1'	2.49	0.48
34:BA:1163:G:H1'	54:BU:60:ARG:HA	1.95	0.48
34:BA:1346:U:H2'	34:BA:1347:G:C8	2.49	0.48
85:AA:823:C:C4	85:AA:824:C:C5	3.01	0.48
85:AA:1721:A:C2	85:AA:1722:G:C4	3.01	0.48
86:AB:30:G:C2	86:AB:31:A:C4	3.00	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1569:C:O2	34:BA:1570:C:C6	2.67	0.48
34:BA:687:G:C8	34:BA:687:G:C3'	2.94	0.48
35:BB:510:A:N1	35:BB:580:A:C5	2.81	0.48
35:BB:1056:A:C2	35:BB:1057:G:C5	3.02	0.48
35:BB:1332:G:C6	35:BB:1403:G:C5	3.01	0.48
35:BB:736:G:C6	35:BB:737:C:C4	3.01	0.48
18:AJ:98:GLN:HG3	18:AJ:99:PHE:CE2	2.47	0.48
34:BA:1077:G:N3	34:BA:1217:A:C2	2.81	0.48
4:A3:220:ARG:HD3	85:AA:307:G:C8	2.48	0.48
48:BO:39:ALA:O	48:BO:42:ALA:HB3	2.13	0.48
34:BA:104:A:C8	34:BA:105:U:C5	3.01	0.48
47:BN:201:ARG:CG	47:BN:204:ASN:HB2	2.43	0.48
24:AQ:19:VAL:HG13	24:AQ:111:ILE:HG22	1.95	0.48
5:A4:61:LYS:HA	5:A4:93:GLY:O	2.13	0.48
7:A6:4:TYR:CG	7:A6:5:ASN:N	2.81	0.48
43:BJ:12:ALA:HB1	43:BJ:214:TYR:H	1.79	0.48
15:AG:89:TYR:CZ	15:AG:93:LYS:HB2	2.49	0.48
19:AK:58:VAL:HG12	19:AK:66:PHE:CD2	2.48	0.48
58:BY:83:GLU:HG2	85:AA:2159:C:N1	2.10	0.48
85:AA:2165:C:H2'	85:AA:2166:G:C8	2.49	0.48
34:BA:1010:C:C4	34:BA:1011:G:C5	3.02	0.48
34:BA:1046:G:N1	34:BA:1047:U:C4	2.82	0.48
34:BA:1097:G:C2	35:BB:1084:A:C6	3.02	0.48
34:BA:1286:C:H4'	34:BA:1292:A:C6	2.48	0.48
34:BA:121:A:C6	34:BA:146:G:H1'	2.49	0.48
34:BA:1482:A:C5	34:BA:1483:U:C5	3.01	0.48
34:BA:1484:A:N1	34:BA:1485:U:C4	2.81	0.48
34:BA:1640:G:C6	34:BA:1641:G:C5	3.01	0.48
34:BA:1644:A:C4	35:BB:60:A:C2	3.02	0.48
34:BA:1644:A:C2	34:BA:1645:C:C2	3.02	0.48
34:BA:1734:U:C4	34:BA:1735:G:C5	3.02	0.48
34:BA:1740:U:H3	34:BA:1784:G:H1	1.61	0.48
34:BA:1816:G:C2	34:BA:1818:A:C2	3.01	0.48
34:BA:248:G:N9	34:BA:437:G:C5	2.82	0.48
34:BA:329:G:N1	34:BA:382:G:C6	2.82	0.48
34:BA:339:G:N1	34:BA:351:A:C6	2.82	0.48
34:BA:55:G:H5"	50:BQ:171:ALA:HB1	1.96	0.48
34:BA:795:G:H2'	34:BA:796:G:H8	1.78	0.48
34:BA:843:G:C6	34:BA:844:U:C4	3.01	0.48
34:BA:8:G:C2	34:BA:9:A:C4	3.02	0.48
34:BA:933:U:C5	34:BA:934:G:C4	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1443:C:C2	35:BB:1444:U:C6	3.02	0.48
35:BB:1455:A:C4	35:BB:1456:G:C8	3.02	0.48
35:BB:619:A:C6	35:BB:620:G:C5	3.01	0.48
35:BB:681:G:C6	35:BB:682:U:C2	3.01	0.48
36:BC:106:G:C2	36:BC:107:C:N1	2.82	0.48
36:BC:108:A:C5	36:BC:109:A:C5	3.02	0.48
36:BC:11:G:C2	36:BC:12:A:C4	3.01	0.48
36:BC:48:A:C6	36:BC:62:A:C5	3.01	0.48
36:BC:73:U:C4	36:BC:74:U:C5	3.01	0.48
37:BD:32:A:C2	37:BD:46:G:C6	3.00	0.48
37:BD:74:A:H5'	37:BD:76:U:H1'	1.96	0.48
37:BD:94:C:H2'	37:BD:95:G:N9	2.29	0.48
38:BE:104:G:C5	38:BE:105:A:C6	3.01	0.48
38:BE:107:U:C4	38:BE:108:U:H5	2.31	0.48
39:BF:56:C:O2'	39:BF:57:C:C5	2.67	0.48
40:BG:103:C:O5'	40:BG:103:C:C6	2.66	0.48
40:BG:127:G:N1	40:BG:163:G:C6	2.81	0.48
40:BG:44:G:C2	40:BG:45:G:C8	3.02	0.48
40:BG:41:U:N3	40:BG:69:G:N1	2.61	0.48
41:BH:50:A:C5	41:BH:51:C:C4	3.01	0.48
49:BP:46:MET:HG2	49:BP:49:HIS:CG	2.49	0.48
50:BQ:61:ARG:NH1	50:BQ:137:TRP:CZ3	2.81	0.48
53:BT:30:VAL:HG13	53:BT:31:GLU:N	2.28	0.48
53:BT:95:TRP:CZ3	53:BT:99:LEU:HD23	2.48	0.48
7:A6:38:LYS:HB3	7:A6:42:TRP:CZ2	2.49	0.48
85:AA:132:G:C2	85:AA:133:G:C4	3.02	0.48
85:AA:690:G:C4	85:AA:1483:A:C2	3.02	0.48
85:AA:1492:U:H2'	85:AA:1493:A:O4'	2.14	0.48
85:AA:167:A:C2	85:AA:168:A:C5	3.02	0.48
85:AA:179:G:H1	85:AA:330:C:H5'	1.79	0.48
85:AA:2195:A:C2	85:AA:2196:G:C2	3.01	0.48
85:AA:251:A:N7	85:AA:253:C:C4	2.82	0.48
85:AA:40:A:C5	85:AA:41:G:H1'	2.49	0.48
85:AA:436:G:C5	85:AA:437:G:C5	3.02	0.48
85:AA:467:U:C4	85:AA:467:U:OP1	2.67	0.48
85:AA:475:A:C6	85:AA:476:C:C2	3.02	0.48
85:AA:50:C:N3	85:AA:495:G:C6	2.82	0.48
85:AA:57:G:N2	85:AA:86:G:H1	2.12	0.48
85:AA:629:A:C5	85:AA:630:A:C6	3.01	0.48
85:AA:674:U:H2'	85:AA:675:A:C8	2.48	0.48
34:BA:631:G:C6	34:BA:632:U:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:649:A:C6	34:BA:650:C:C4	3.01	0.48
35:BB:555:G:H2'	35:BB:555:G:N3	2.28	0.48
35:BB:810:G:C4	35:BB:830:G:C2	3.01	0.48
35:BB:814:A:H1'	35:BB:826:G:N2	2.28	0.48
35:BB:855:G:C6	35:BB:856:U:C5	3.01	0.48
85:AA:962:U:C2	85:AA:992:G:C2	3.01	0.48
85:AA:997:U:C2	85:AA:999:A:OP1	2.66	0.48
85:AA:1182:A:C2'	85:AA:1184:A:C8	2.96	0.48
15:AG:140:LYS:NZ	34:BA:946:A:H5'	2.24	0.48
85:AA:1896:G:C8	85:AA:1896:G:O5'	2.67	0.48
40:BG:150:A:C2	40:BG:151:A:C8	3.02	0.48
34:BA:192:G:N2	34:BA:193:C:C2	2.81	0.48
34:BA:198:U:O4	34:BA:262:A:C4	2.66	0.48
34:BA:718:U:C5	34:BA:719:G:N7	2.81	0.48
34:BA:975:A:N3	34:BA:975:A:H2'	2.28	0.48
48:BO:186:HIS:O	48:BO:189:LYS:HD3	2.12	0.48
35:BB:1494:G:C2	35:BB:1513:U:N3	2.82	0.48
35:BB:1524:G:N3	35:BB:1544:A:C2	2.81	0.48
85:AA:1676:G:O5'	85:AA:1676:G:C8	2.66	0.48
85:AA:1689:G:C6	85:AA:1690:A:C4	3.01	0.48
85:AA:2215:C:C2	85:AA:2218:G:C6	3.02	0.48
7:A6:108:LEU:CD1	7:A6:147:VAL:HG22	2.44	0.48
85:AA:274:A:H1'	85:AA:975:G:N2	2.28	0.48
85:AA:988:C:OP1	85:AA:989:U:H2'	2.14	0.48
85:AA:282:C:N3	85:AA:283:A:C5	2.81	0.48
85:AA:286:C:C6	85:AA:286:C:O5'	2.67	0.48
34:BA:4:A:H5"	34:BA:4:A:C8	2.49	0.48
85:AA:561:C:C5	85:AA:567:G:N1	2.82	0.48
85:AA:2057:G:C2	85:AA:2058:C:C6	3.01	0.48
85:AA:793:C:H3'	85:AA:794:A:H8	1.76	0.48
85:AA:431:G:C2	85:AA:432:A:C5	3.01	0.48
85:AA:434:U:C2	85:AA:438:G:C2	3.02	0.48
85:AA:16:G:C2	85:AA:17:C:C4	3.01	0.48
85:AA:521:A:OP2	85:AA:522:A:H3'	2.13	0.48
35:BB:1021:C:H2'	35:BB:1022:C:C6	2.49	0.48
34:BA:205:G:H2'	34:BA:249:A:C2	2.48	0.48
85:AA:81:A:H3'	85:AA:82:A:C8	2.49	0.48
35:BB:1501:U:H4'	35:BB:1504:U:OP1	2.14	0.48
85:AA:1034:U:H2'	85:AA:1035:C:C2'	2.43	0.48
34:BA:1119:A:H1'	34:BA:1120:U:C5	2.48	0.48
35:BB:1204:C:O5'	35:BB:1204:C:H6	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:830:U:H1'	34:BA:838:U:N3	2.29	0.48
35:BB:439:G:C4	35:BB:440:U:C5	3.01	0.48
35:BB:691:A:C4	35:BB:1054:G:C2	3.01	0.48
35:BB:676:G:C5	35:BB:678:U:C5	3.01	0.48
5:A4:178:TYR:CD1	5:A4:178:TYR:C	2.87	0.48
35:BB:755:A:C6	35:BB:756:C:C5	3.01	0.48
35:BB:773:G:C6	35:BB:774:C:N4	2.82	0.48
1:A0:43:PHE:CE2	1:A0:44:ALA:HB3	2.49	0.48
35:BB:1374:U:C5	35:BB:1393:C:C6	3.01	0.48
34:BA:1252:G:N1	34:BA:1253:G:C4	2.81	0.48
30:AW:75:VAL:HG13	30:AW:76:THR:HG23	1.96	0.48
23:AP:154:TRP:HD1	23:AP:181:PRO:HB2	1.78	0.48
4:A3:121:GLU:HG3	4:A3:122:GLN:H	1.77	0.48
85:AA:1488:G:C2	85:AA:1512:U:C2	3.01	0.48
7:A6:135:VAL:HA	7:A6:154:HIS:HB3	1.94	0.48
34:BA:1006:G:C4	34:BA:1008:A:C6	3.01	0.48
34:BA:1102:A:C6	34:BA:1103:G:C6	3.01	0.48
34:BA:112:C:C2'	34:BA:112:C:O2	2.60	0.48
34:BA:1260:G:C6	34:BA:1261:G:N7	2.81	0.48
34:BA:1470:G:N1	34:BA:1472:G:C5	2.81	0.48
34:BA:1524:G:N2	42:BI:18:HIS:CE1	2.82	0.48
34:BA:1637:G:H2'	34:BA:1638:U:C6	2.49	0.48
34:BA:1740:U:C4	34:BA:1741:G:N7	2.82	0.48
34:BA:1792:U:O4	34:BA:1793:G:C6	2.67	0.48
34:BA:1842:U:H5"	34:BA:1842:U:C6	2.49	0.48
34:BA:234:A:H2'	34:BA:235:C:C6	2.48	0.48
34:BA:23:A:C2	34:BA:24:C:H1'	2.49	0.48
34:BA:330:A:C6	50:BQ:29:LYS:HD3	2.48	0.48
34:BA:336:A:C5	34:BA:337:C:C4	3.01	0.48
34:BA:389:U:C4	34:BA:390:A:N7	2.82	0.48
34:BA:729:C:H2'	34:BA:730:C:C5	2.49	0.48
34:BA:749:G:O6	34:BA:888:G:C5	2.67	0.48
34:BA:94:G:N1	34:BA:95:C:C2	2.82	0.48
34:BA:952:G:C6	34:BA:953:G:C5	3.01	0.48
34:BA:954:U:O4	34:BA:955:G:C5	2.66	0.48
35:BB:1210:U:C4	35:BB:1211:C:C4	3.02	0.48
35:BB:121:A:N1	35:BB:122:U:C4	2.82	0.48
35:BB:1337:C:C6	35:BB:1338:U:C5	3.01	0.48
35:BB:1344:U:N3	35:BB:1369:A:N1	2.61	0.48
35:BB:20:U:C5	35:BB:21:C:C4	3.02	0.48
35:BB:375:G:O2'	35:BB:376:A:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:497:C:N4	35:BB:498:G:C6	2.82	0.48
35:BB:624:A:C2	35:BB:1441:C:N4	2.81	0.48
36:BC:63:G:C4	36:BC:64:U:C5	3.02	0.48
37:BD:13:A:H5'	37:BD:14:C:C5	2.49	0.48
37:BD:68:C:H1'	37:BD:108:G:N2	2.29	0.48
37:BD:93:G:C3'	37:BD:94:C:C5	2.97	0.48
38:BE:110:U:C4	38:BE:111:C:C4	3.02	0.48
38:BE:17:U:C4	38:BE:18:U:C4	3.01	0.48
38:BE:38:C:C4	38:BE:39:U:C4	3.02	0.48
38:BE:73:A:N1	38:BE:74:U:C5	2.81	0.48
39:BF:13:U:H6	39:BF:13:U:H3'	1.78	0.48
40:BG:76:C:H5	40:BG:119:A:H62	1.61	0.48
40:BG:4:A:H2	40:BG:21:C:C5	2.30	0.48
40:BG:25:G:C6	40:BG:26:G:N7	2.82	0.48
41:BH:5:G:C6	41:BH:131:A:N1	2.81	0.48
34:BA:54:A:H4'	50:BQ:174:LYS:HB2	1.95	0.48
85:AA:1492:U:N3	85:AA:1493:A:C4	2.82	0.48
85:AA:175:A:C6	85:AA:176:C:C4	3.02	0.48
85:AA:253:C:C2	85:AA:329:G:C6	3.02	0.48
23:AP:190:ALA:HA	85:AA:3:U:O4'	2.14	0.48
85:AA:484:G:C5	85:AA:485:A:C8	3.02	0.48
85:AA:58:C:H5"	85:AA:526:G:O2'	2.14	0.48
85:AA:84:C:H1'	85:AA:172:A:N1	2.28	0.48
85:AA:93:G:C2	85:AA:491:G:H5'	2.48	0.48
34:BA:667:U:C6	34:BA:667:U:O5'	2.67	0.48
35:BB:547:A:C6	35:BB:549:U:N3	2.82	0.48
35:BB:797:C:H3'	35:BB:977:G:OP1	2.13	0.48
35:BB:854:G:C6	35:BB:855:G:C5	3.02	0.48
35:BB:975:G:C6	35:BB:976:U:O4	2.66	0.48
85:AA:1112:G:C6	85:AA:1114:A:H1'	2.48	0.48
85:AA:1116:G:C4	85:AA:1117:G:C8	3.02	0.48
85:AA:711:C:H2'	85:AA:712:U:C4	2.48	0.48
15:AG:123:HIS:CD2	34:BA:945:A:H2'	2.49	0.48
85:AA:1194:U:N3	85:AA:1195:U:C4	2.82	0.48
49:BP:87:TYR:O	49:BP:93:ARG:HD2	2.13	0.48
85:AA:1563:U:C5	85:AA:1585:A:C6	3.01	0.48
85:AA:2026:U:O5'	85:AA:2026:U:C6	2.66	0.48
17:AI:129:THR:HG22	21:AM:121:HIS:HB3	1.95	0.48
35:BB:1407:U:H2'	35:BB:1408:G:C4	2.49	0.48
85:AA:603:C:O2	85:AA:608:A:C8	2.66	0.48
35:BB:1511:U:N3	35:BB:1512:C:C5	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:362:A:C2	35:BB:364:U:C4	2.97	0.48
41:BH:13:C:H1'	41:BH:19:G:C2	2.49	0.48
85:AA:2095:U:H6	85:AA:2095:U:O5'	1.97	0.48
85:AA:2145:G:H3'	85:AA:2146:G:H8	1.79	0.48
85:AA:557:G:H2'	85:AA:558:U:C6	2.49	0.48
85:AA:725:G:C1'	85:AA:777:U:C6	2.96	0.48
85:AA:1823:G:C6	85:AA:1824:G:C6	3.02	0.48
85:AA:899:A:C2	85:AA:900:G:C1'	2.97	0.48
34:BA:1343:A:H3'	34:BA:1344:G:C8	2.48	0.48
6:A5:49:ARG:HB3	85:AA:399:A:H5'	1.95	0.48
35:BB:434:A:C6	35:BB:435:A:C6	3.01	0.48
49:BP:139:TRP:CZ2	49:BP:140:HIS:CG	3.02	0.48
85:AA:810:C:C2	85:AA:811:A:C8	3.01	0.48
34:BA:532:C:H3'	34:BA:532:C:H6	1.79	0.48
35:BB:1264:U:N3	35:BB:1265:U:C4	2.82	0.48
35:BB:1382:U:C6	35:BB:1383:C:C6	3.01	0.48
5:A4:146:ARG:O	5:A4:153:LYS:HA	2.12	0.48
85:AA:1357:U:H3'	85:AA:1358:A:C5'	2.43	0.48
85:AA:1593:C:C4	85:AA:1883:C:O2	2.67	0.48
85:AA:1432:C:C2	85:AA:1435:C:C2	3.02	0.48
21:AM:85:LEU:HB3	21:AM:88:GLN:HG3	1.96	0.48
35:BB:712:U:C5	35:BB:769:C:N4	2.82	0.48
85:AA:386:G:H3'	85:AA:387:U:H5'	1.95	0.48
21:AM:41:PHE:CE1	21:AM:43:TYR:HA	2.49	0.48
2:A1:159:TYR:OH	2:A1:164:LYS:HA	2.14	0.48
29:AV:65:GLY:O	29:AV:66:PHE:CD2	2.67	0.48
12:AD:24:SER:H	31:AX:74:GLN:CB	2.27	0.48
37:BD:103:C:O5'	37:BD:103:C:C6	2.67	0.48
57:BX:139:ASP:OD1	57:BX:139:ASP:N	2.47	0.48
85:AA:1607:A:H61	85:AA:1632:G:H1'	1.78	0.48
49:BP:107:ASP:HA	49:BP:110:ARG:HD2	1.96	0.48
4:A3:215:LEU:HD13	4:A3:216:VAL:N	2.29	0.48
33:AZ:76:ILE:HG23	33:AZ:98:GLU:HG2	1.95	0.48
34:BA:905:A:C5'	34:BA:1035:A:H61	2.27	0.48
34:BA:1102:A:O5'	34:BA:1102:A:C8	2.66	0.48
34:BA:1295:U:H1'	34:BA:1296:U:O4	2.13	0.48
34:BA:128:C:C2	34:BA:129:U:C5	3.02	0.48
34:BA:1275:G:C2	34:BA:1466:U:C2	3.02	0.48
34:BA:1496:G:H5"	34:BA:1497:A:N9	2.29	0.48
34:BA:1513:G:C6	34:BA:1514:A:C5	3.02	0.48
34:BA:1592:U:H2'	34:BA:1593:U:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1599:A:C2	35:BB:623:A:C4	3.02	0.48
34:BA:1711:G:C5'	34:BA:1711:G:C8	2.95	0.48
34:BA:115:U:C2	34:BA:327:G:C8	3.02	0.48
34:BA:357:A:C2	34:BA:358:A:C4	3.01	0.48
34:BA:399:G:C6	34:BA:400:A:N7	2.82	0.48
34:BA:401:A:N3	34:BA:402:G:C8	2.82	0.48
34:BA:447:U:H2'	34:BA:448:U:C5	2.48	0.48
34:BA:463:A:O4'	34:BA:465:A:C8	2.66	0.48
34:BA:763:U:C4	34:BA:771:A:OP2	2.67	0.48
34:BA:785:G:H2'	34:BA:786:U:H6	1.79	0.48
34:BA:787:A:C5	34:BA:797:A:C8	3.02	0.48
34:BA:816:G:H2'	34:BA:817:U:C6	2.47	0.48
34:BA:743:A:N6	34:BA:894:G:C6	2.82	0.48
34:BA:906:A:H4'	35:BB:1270:C:C4'	2.44	0.48
35:BB:1036:G:C6	35:BB:1037:A:C5	3.01	0.48
35:BB:1047:C:C2	35:BB:1048:A:C8	3.02	0.48
35:BB:1223:A:H1'	35:BB:1226:G:H5'	1.95	0.48
35:BB:123:U:O5'	35:BB:123:U:H6	1.97	0.48
35:BB:1301:U:C3'	35:BB:1301:U:C6	2.96	0.48
35:BB:1395:G:C6	35:BB:1396:G:C5	3.01	0.48
35:BB:386:G:C6	35:BB:387:G:C4	3.02	0.48
35:BB:423:G:C6	35:BB:424:U:N3	2.82	0.48
35:BB:60:A:H4'	35:BB:61:A:H4'	1.96	0.48
34:BA:1597:G:C4	35:BB:622:G:O6	2.67	0.48
35:BB:66:G:C6	35:BB:67:A:C5	3.01	0.48
34:BA:14:G:N2	36:BC:154:A:C4	2.82	0.48
36:BC:74:U:C4	36:BC:74:U:OP2	2.66	0.48
36:BC:90:U:N3	36:BC:91:G:C8	2.82	0.48
36:BC:91:G:H8	36:BC:91:G:OP2	1.97	0.48
36:BC:92:C:C5	36:BC:93:C:C5	3.02	0.48
37:BD:51:G:H3'	37:BD:52:U:C5	2.49	0.48
37:BD:66:G:C6	37:BD:67:C:C5	3.02	0.48
38:BE:186:C:C6	38:BE:189:A:N7	2.81	0.48
40:BG:170:G:OP2	40:BG:173:C:C6	2.66	0.48
40:BG:52:A:O5'	40:BG:52:A:C8	2.67	0.48
40:BG:94:G:N1	40:BG:104:A:C6	2.82	0.48
40:BG:8:U:C2	40:BG:9:G:C8	3.01	0.48
41:BH:58:C:C4	41:BH:59:G:C5	3.01	0.48
47:BN:34:PRO:HD2	47:BN:35:ALA:H	1.78	0.48
39:BF:23:G:C4	48:BO:132:ARG:HA	2.49	0.48
48:BO:183:SER:O	48:BO:187:HIS:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:545:U:C4	34:BA:546:U:C6	3.02	0.48
34:BA:566:G:C8	34:BA:566:G:C3'	2.96	0.48
85:AA:331:G:OP1	85:AA:332:A:C4	2.66	0.48
85:AA:531:G:C6	85:AA:532:G:C5	3.02	0.48
85:AA:660:G:C5	85:AA:661:C:C4	3.02	0.48
85:AA:686:U:C5'	85:AA:1477:A:N1	2.76	0.48
35:BB:802:G:C2'	35:BB:804:U:C6	2.97	0.48
35:BB:849:A:H3'	35:BB:850:U:C5'	2.44	0.48
5:A4:104:ILE:HG23	5:A4:123:SER:N	2.29	0.48
85:AA:1654:G:C4	85:AA:1875:A:C2	3.01	0.48
34:BA:1244:G:H4'	34:BA:1245:C:OP2	2.12	0.48
35:BB:1092:G:C4	35:BB:1093:C:C6	3.02	0.48
85:AA:1916:A:C5	85:AA:1917:G:N7	2.81	0.48
27:AT:42:PRO:CA	85:AA:591:A:H4'	2.36	0.48
85:AA:192:G:C6	85:AA:194:U:C4	3.02	0.48
85:AA:1448:A:H2'	85:AA:1449:C:C6	2.49	0.48
85:AA:2215:C:C4	85:AA:2218:G:C2	3.01	0.48
34:BA:1289:C:C4	34:BA:1290:A:C5	3.02	0.48
85:AA:313:A:N3	85:AA:313:A:C2'	2.75	0.48
44:BK:66:GLU:OE1	44:BK:66:GLU:HA	2.13	0.48
85:AA:781:G:C2	85:AA:782:G:C4	3.01	0.48
34:BA:1405:A:C5	34:BA:1406:U:C4	3.02	0.48
85:AA:1263:G:C5	85:AA:1264:U:C4	3.02	0.48
35:BB:1419:G:C5	35:BB:1420:U:C4	3.02	0.48
85:AA:818:C:N3	85:AA:863:C:H1'	2.29	0.48
85:AA:859:G:C6	85:AA:860:C:C5	3.02	0.48
39:BF:36:G:N1	39:BF:48:G:C5	2.81	0.48
34:BA:534:C:C4	34:BA:535:G:C5	3.02	0.48
34:BA:1122:G:C8	34:BA:1122:G:OP1	2.67	0.48
85:AA:1726:G:N2	85:AA:1816:C:H41	2.11	0.48
35:BB:503:G:H3'	35:BB:504:C:C5	2.49	0.48
34:BA:989:C:H2'	34:BA:990:G:C8	2.48	0.48
35:BB:584:A:C5	35:BB:585:U:C6	3.02	0.48
35:BB:1482:A:H2'	35:BB:1483:A:O4'	2.14	0.48
34:BA:899:G:H1'	34:BA:1032:A:C2	2.48	0.48
35:BB:1045:G:H2'	35:BB:1046:C:H6	1.78	0.48
85:AA:1357:U:H3'	85:AA:1357:U:C6	2.49	0.48
85:AA:1759:U:H4'	85:AA:1760:C:C5	2.49	0.48
34:BA:1084:A:H2'	34:BA:1085:G:C8	2.49	0.48
34:BA:927:A:C2	34:BA:928:C:C2	3.02	0.48
22:AO:110:THR:HG22	22:AO:111:ARG:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AG:125:LEU:O	15:AG:129:TYR:CE2	2.67	0.48
7:A6:27:MET:SD	7:A6:27:MET:C	2.92	0.48
35:BB:861:C:H4'	35:BB:862:U:H5'	1.96	0.48
8:A7:234:MET:SD	8:A7:263:PHE:CD2	3.07	0.48
5:A4:37:LYS:O	5:A4:41:ALA:HB3	2.14	0.48
85:AA:1906:C:C4	85:AA:1907:U:C4	3.02	0.48
8:A7:49:ARG:O	8:A7:50:HIS:CD2	2.66	0.48
26:AS:41:PHE:CZ	26:AS:47:ALA:HB3	2.48	0.48
23:AP:242:GLU:CD	25:AR:21:LYS:HZ1	2.17	0.48
20:AL:112:MET:SD	25:AR:85:ILE:CG2	3.01	0.48
34:BA:1042:U:C6	34:BA:1582:C:C4	3.01	0.48
34:BA:124:G:N1	34:BA:125:G:C5	2.81	0.48
34:BA:1330:G:N3	34:BA:1330:G:H2'	2.29	0.48
34:BA:1484:A:C2	34:BA:1502:G:N3	2.82	0.48
34:BA:1673:G:C2	34:BA:1680:G:C4	3.02	0.48
34:BA:1739:G:N2	34:BA:1785:G:H22	2.11	0.48
34:BA:297:A:C2	36:BC:32:U:C6	3.02	0.48
34:BA:331:G:C5'	50:BQ:137:TRP:CE3	2.97	0.48
34:BA:351:A:C6	34:BA:352:G:N7	2.82	0.48
34:BA:412:G:C5	34:BA:418:G:N7	2.81	0.48
34:BA:448:U:O2	34:BA:454:G:C2	2.67	0.48
34:BA:502:U:C2	34:BA:701:G:C2	3.01	0.48
34:BA:733:G:H2'	34:BA:734:G:C8	2.49	0.48
34:BA:761:U:C4	34:BA:762:A:N7	2.82	0.48
34:BA:800:G:C4	34:BA:801:U:C4	3.01	0.48
34:BA:828:A:C2	34:BA:829:U:N1	2.82	0.48
35:BB:1081:U:C4	35:BB:1082:A:C2	3.01	0.48
35:BB:1124:G:H2'	35:BB:1126:A:N1	2.28	0.48
35:BB:125:G:N2	35:BB:126:C:H1'	2.29	0.48
35:BB:1301:U:H3'	35:BB:1301:U:C6	2.48	0.48
35:BB:1458:U:C2	39:BF:14:C:H5	2.32	0.48
35:BB:490:G:C2	35:BB:491:A:C4	3.02	0.48
35:BB:489:A:C5	35:BB:490:G:C6	3.02	0.48
35:BB:602:G:C2	35:BB:607:G:C5	3.01	0.48
35:BB:658:G:N1	35:BB:659:C:C2	2.81	0.48
35:BB:661:G:C6	35:BB:662:G:C6	3.01	0.48
35:BB:780:U:O2'	35:BB:781:U:H5"	2.14	0.48
36:BC:115:G:C4	36:BC:116:C:C5	3.02	0.48
34:BA:405:C:N4	36:BC:24:G:H1	2.11	0.48
36:BC:66:G:N1	36:BC:67:U:C2	2.82	0.48
36:BC:66:G:C2	36:BC:93:C:O2	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:3:G:N1	37:BD:117:U:C2	2.82	0.48
37:BD:71:G:C8	37:BD:72:U:C5	3.01	0.48
38:BE:135:A:OP1	38:BE:136:G:C2	2.66	0.48
38:BE:194:A:H3'	38:BE:195:G:C8	2.49	0.48
38:BE:49:A:C5	38:BE:50:G:N7	2.82	0.48
39:BF:6:C:O2	39:BF:7:G:C5	2.66	0.48
40:BG:49:A:OP1	40:BG:51:U:H1'	2.14	0.48
40:BG:6:A:C5	40:BG:7:U:C5	3.01	0.48
40:BG:82:U:H2'	40:BG:83:U:C5	2.49	0.48
35:BB:1535:G:C2	41:BH:122:U:C4	3.02	0.48
39:BF:65:U:H3	49:BP:123:TRP:HH2	1.62	0.48
58:BY:16:GLY:C	58:BY:17:HIS:CG	2.87	0.48
34:BA:539:C:H4'	34:BA:571:G:H22	1.78	0.48
85:AA:125:A:C2	85:AA:126:U:C6	3.02	0.48
85:AA:147:G:C2	85:AA:148:G:C4	3.01	0.48
85:AA:28:A:H2'	85:AA:29:U:C6	2.49	0.48
85:AA:96:C:H4'	85:AA:97:A:O5'	2.14	0.48
34:BA:630:U:C2	34:BA:652:C:C4	3.01	0.48
35:BB:815:G:C2	35:BB:825:U:O2	2.66	0.48
34:BA:946:A:H2'	34:BA:946:A:N3	2.29	0.48
35:BB:1193:G:C2	35:BB:1197:G:C6	3.01	0.48
35:BB:1192:C:N3	35:BB:1193:G:C5	2.82	0.48
85:AA:2108:C:C6	85:AA:2108:C:H3'	2.49	0.48
24:AQ:63:ARG:HB2	85:AA:1576:G:C8	2.48	0.48
34:BA:191:G:C6	34:BA:192:G:C5	3.02	0.48
34:BA:278:U:H2'	34:BA:278:U:O2	2.14	0.48
59:BZ:97:HIS:CE1	59:BZ:100:ASN:H	2.32	0.48
85:AA:1913:G:H3'	85:AA:1913:G:C8	2.49	0.48
85:AA:602:U:C6	85:AA:602:U:H5"	2.49	0.48
85:AA:194:U:H2'	85:AA:195:C:H6	1.74	0.48
85:AA:237:G:H2'	85:AA:239:G:OP1	2.14	0.48
85:AA:244:G:C4	85:AA:245:A:C8	3.02	0.48
35:BB:1543:C:C4	35:BB:1544:A:N7	2.82	0.48
85:AA:11:A:C5	85:AA:12:U:C5	3.01	0.48
85:AA:1448:A:C4	85:AA:1449:C:C6	3.02	0.48
85:AA:1462:A:H2'	85:AA:1463:A:O4'	2.14	0.48
85:AA:1695:G:C5	85:AA:1696:U:C4	3.02	0.48
85:AA:1540:A:H2'	85:AA:1541:G:O4'	2.13	0.48
85:AA:890:U:H3'	85:AA:891:G:N7	2.28	0.48
85:AA:113:U:C2	85:AA:114:C:C6	3.01	0.48
85:AA:365:G:O2'	85:AA:366:A:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1233:G:N2	85:AA:1234:G:C4	2.82	0.48
34:BA:1164:C:C2	34:BA:1165:A:C8	3.02	0.48
34:BA:1447:C:C6	49:BP:47:TRP:CZ2	3.02	0.48
35:BB:1401:G:H2'	35:BB:1402:U:C6	2.49	0.48
39:BF:47:C:H2'	39:BF:48:G:O4'	2.13	0.48
39:BF:53:G:P	39:BF:54:U:C5	3.07	0.48
85:AA:744:C:C5	85:AA:745:C:C5	3.02	0.48
34:BA:580:U:H5'	34:BA:581:U:OP2	2.13	0.48
4:A3:12:THR:HG22	4:A3:132:VAL:HG13	1.96	0.48
34:BA:1138:C:H2'	34:BA:1139:G:C8	2.49	0.48
85:AA:1955:U:C5	85:AA:1956:C:C6	3.02	0.48
35:BB:961:G:C6	35:BB:962:U:C4	3.02	0.48
85:AA:202:U:C5	85:AA:204:U:OP2	2.67	0.48
85:AA:1357:U:O5'	85:AA:1357:U:H6	1.96	0.48
34:BA:1317:U:H6	34:BA:1317:U:H3'	1.79	0.48
85:AA:298:C:H1'	85:AA:299:A:C5	2.49	0.48
34:BA:1079:C:C5'	34:BA:1079:C:C6	2.97	0.48
85:AA:1758:C:H1'	85:AA:1785:U:O4	2.13	0.48
22:AO:34:ILE:O	22:AO:37:GLN:HB2	2.14	0.48
85:AA:305:A:H3'	85:AA:305:A:C8	2.48	0.48
23:AP:48:LYS:HG2	23:AP:261:ARG:HD3	1.95	0.48
4:A3:85:PHE:CD1	4:A3:86:ASN:N	2.81	0.48
85:AA:1060:U:H2'	85:AA:1064:C:H5'	1.94	0.48
4:A3:6:ALA:HA	4:A3:13:VAL:HA	1.96	0.48
58:BY:79:THR:HG22	85:AA:2163:G:H4'	1.81	0.48
34:BA:1103:G:H2'	34:BA:1104:C:C5	2.48	0.48
34:BA:1203:G:C4	34:BA:1204:U:C6	3.02	0.48
34:BA:1551:G:C2	34:BA:1559:C:C2	3.02	0.48
34:BA:1622:U:C2	34:BA:1623:U:O4'	2.67	0.48
34:BA:1794:A:C2	34:BA:1795:A:C5	3.02	0.48
34:BA:1829:A:H2'	34:BA:1830:A:C4	2.48	0.48
34:BA:1839:G:H2'	34:BA:1840:C:O4'	2.13	0.48
34:BA:161:U:O2	34:BA:323:C:C6	2.67	0.48
34:BA:331:G:N2	34:BA:356:C:H2'	2.29	0.48
34:BA:354:G:C5	34:BA:355:U:C5	3.02	0.48
34:BA:463:A:C5	34:BA:465:A:C6	3.02	0.48
34:BA:473:A:C8	36:BC:16:A:N3	2.82	0.48
34:BA:484:A:C6	36:BC:6:G:N1	2.82	0.48
34:BA:498:A:C6	34:BA:499:C:C4	3.02	0.48
34:BA:815:C:C5	42:BI:72:ARG:NH1	2.82	0.48
34:BA:823:G:N2	34:BA:824:C:H1'	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:936:A:H2'	34:BA:936:A:N3	2.29	0.48
34:BA:95:C:H2'	34:BA:96:G:H8	1.78	0.48
35:BB:700:C:C6	35:BB:1044:U:O4	2.67	0.48
35:BB:111:C:C2	35:BB:112:G:C6	3.02	0.48
35:BB:104:G:N3	35:BB:119:G:C6	2.81	0.48
35:BB:119:G:C6	35:BB:120:C:C5	3.02	0.48
35:BB:1344:U:C2	35:BB:1369:A:C6	3.02	0.48
35:BB:1444:U:C2	35:BB:1445:A:C8	3.02	0.48
35:BB:1443:C:H2'	35:BB:1444:U:O4'	2.14	0.48
35:BB:34:G:C5	35:BB:35:G:N7	2.82	0.48
35:BB:59:U:H5"	35:BB:59:U:C6	2.49	0.48
35:BB:707:G:C6	35:BB:775:U:N3	2.81	0.48
35:BB:876:G:H4'	35:BB:877:A:H8	1.79	0.48
36:BC:65:G:H1'	36:BC:95:A:C2	2.49	0.48
37:BD:84:U:N3	37:BD:85:C:C5	2.82	0.48
38:BE:30:C:C6	38:BE:31:A:N7	2.82	0.48
40:BG:100:G:C8	40:BG:101:G:C8	3.01	0.48
40:BG:56:G:C2	40:BG:57:A:C4	3.02	0.48
40:BG:71:C:C6	40:BG:71:C:H3'	2.49	0.48
41:BH:103:C:C6	41:BH:103:C:H3'	2.48	0.48
44:BK:181:TYR:CE1	44:BK:190:LEU:HD21	2.47	0.48
34:BA:1115:A:N3	44:BK:193:ARG:CZ	2.77	0.48
45:BL:56:ARG:H	45:BL:58:ARG:HH11	1.61	0.48
34:BA:1223:C:H1'	47:BN:5:ASN:CG	2.34	0.48
34:BA:146:G:H5'	50:BQ:72:THR:HB	1.96	0.48
34:BA:1690:U:H1'	57:BX:133:ASN:HB3	1.96	0.48
34:BA:536:C:C5	34:BA:537:C:C4	3.02	0.48
85:AA:106:G:C8	85:AA:107:A:N7	2.82	0.48
85:AA:139:G:C6	85:AA:140:C:C4	3.02	0.48
85:AA:1280:U:C4	85:AA:1470:A:N7	2.82	0.48
85:AA:1506:U:O2'	85:AA:1507:G:H5'	2.13	0.48
85:AA:2183:U:C2	85:AA:2184:A:C8	3.02	0.48
85:AA:27:U:O2'	85:AA:28:A:H5'	2.13	0.48
85:AA:42:G:H1'	85:AA:502:A:C6	2.49	0.48
85:AA:57:G:C5	85:AA:58:C:C5	3.02	0.48
85:AA:680:U:O2	85:AA:680:U:H2'	2.13	0.48
34:BA:650:C:C4	34:BA:651:U:C4	3.02	0.48
34:BA:666:C:C2	34:BA:667:U:C5	3.02	0.48
35:BB:547:A:C2	35:BB:549:U:C4	3.02	0.48
35:BB:844:G:C5	35:BB:845:C:C6	3.02	0.48
35:BB:970:C:C2	35:BB:971:A:C8	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1652:A:H62	85:AA:1870:C:H42	1.60	0.48
85:AA:2018:U:C4	85:AA:2026:U:C5	3.02	0.48
34:BA:290:G:C6	34:BA:291:C:C5	3.02	0.48
34:BA:1696:G:OP2	34:BA:1696:G:C8	2.66	0.48
34:BA:1494:G:C1'	34:BA:1495:A:H5"	2.43	0.48
35:BB:1493:A:N1	35:BB:1494:G:C4	2.81	0.48
85:AA:1688:U:O2	85:AA:1690:A:H3'	2.14	0.48
85:AA:2107:C:OP2	85:AA:2107:C:C6	2.67	0.48
85:AA:559:G:C2	85:AA:569:A:H1'	2.48	0.48
85:AA:2086:C:H3'	85:AA:2087:C:H6	1.79	0.48
85:AA:717:G:C6	85:AA:718:C:C5	3.02	0.48
35:BB:1065:G:C2	44:BK:115:MET:HB2	2.48	0.48
85:AA:890:U:O2	85:AA:917:A:H2	1.97	0.48
34:BA:1333:G:C3'	34:BA:1334:G:H5"	2.44	0.48
34:BA:1405:A:H2'	34:BA:1406:U:C6	2.49	0.48
85:AA:441:C:C4	85:AA:442:G:C5	3.02	0.48
35:BB:999:G:N1	35:BB:1020:U:C2	2.82	0.48
85:AA:1241:A:C6	85:AA:1242:A:O4'	2.67	0.48
85:AA:77:C:H2'	85:AA:78:A:H5'	1.95	0.48
85:AA:1033:C:H2'	85:AA:1034:U:N1	2.29	0.48
86:AB:5:G:C6	86:AB:6:G:C6	3.01	0.48
54:BU:132:THR:HG23	54:BU:133:ARG:N	2.28	0.48
35:BB:715:G:H2'	35:BB:716:G:H8	1.77	0.48
35:BB:1490:G:C8	35:BB:1490:G:H3'	2.49	0.48
35:BB:543:G:H3'	35:BB:544:C:C6	2.49	0.48
55:BV:90:PHE:HA	55:BV:93:LEU:HD23	1.95	0.48
44:BK:56:GLU:OE1	44:BK:56:GLU:HA	2.14	0.48
57:BX:124:LEU:HB2	57:BX:125:TYR:CE2	2.48	0.48
48:BO:179:ARG:NH2	48:BO:180:ILE:HG22	2.29	0.48
85:AA:1175:A:H4'	85:AA:1237:A:C6	2.48	0.48
35:BB:1475:U:C6	35:BB:1475:U:H5"	2.48	0.48
35:BB:357:C:C5	35:BB:359:A:C8	3.02	0.48
5:A4:67:LEU:HA	5:A4:99:VAL:O	2.13	0.48
12:AD:30:LEU:HD11	12:AD:38:GLY:O	2.14	0.48
35:BB:753:A:H1'	35:BB:754:U:C5	2.49	0.48
11:AC:98:ALA:HA	11:AC:101:ILE:HB	1.95	0.48
7:A6:41:ILE:HA	7:A6:44:VAL:HG22	1.96	0.48
85:AA:2063:C:C4'	85:AA:2066:C:H41	2.27	0.48
34:BA:1190:A:C6	34:BA:1191:C:N3	2.81	0.47
34:BA:1222:C:C2	34:BA:1223:C:C5	3.02	0.47
34:BA:1318:G:C6	34:BA:1320:A:C8	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1412:G:C2	34:BA:1413:G:N9	2.83	0.47
34:BA:1551:G:H2'	34:BA:1552:C:H6	1.79	0.47
34:BA:1612:C:H2'	34:BA:1613:G:C8	2.49	0.47
34:BA:165:C:C1'	34:BA:166:G:C8	2.97	0.47
34:BA:1699:A:N6	34:BA:1700:C:C4	2.81	0.47
34:BA:177:G:N2	34:BA:310:C:C2	2.82	0.47
34:BA:212:A:C2	34:BA:213:A:N3	2.82	0.47
34:BA:328:A:C8	34:BA:328:A:C3'	2.97	0.47
34:BA:375:C:C2	34:BA:376:U:C5	3.02	0.47
34:BA:384:U:H5'	50:BQ:167:TRP:CZ2	2.48	0.47
34:BA:412:G:N9	34:BA:418:G:C6	2.82	0.47
34:BA:504:A:C2	34:BA:699:G:C2	3.02	0.47
34:BA:698:U:O5'	34:BA:698:U:H6	1.97	0.47
34:BA:743:A:C4	47:BN:7:ALA:HA	2.39	0.47
34:BA:843:G:C4	34:BA:844:U:C5	3.02	0.47
34:BA:860:G:C2	34:BA:877:U:C2	3.03	0.47
34:BA:911:G:O6	34:BA:912:G:C5	2.67	0.47
35:BB:1035:C:C4	35:BB:1036:G:N7	2.82	0.47
35:BB:1114:A:C4	35:BB:1137:G:C2	3.02	0.47
35:BB:1162:A:C4	35:BB:1201:G:C5	3.02	0.47
35:BB:124:G:C5	35:BB:125:G:C5	3.02	0.47
35:BB:124:G:C6	35:BB:125:G:C6	3.02	0.47
35:BB:131:A:C2	35:BB:132:G:C4	3.02	0.47
35:BB:600:C:H2'	35:BB:601:U:C1'	2.44	0.47
35:BB:67:A:C5	35:BB:68:G:C5	3.02	0.47
35:BB:692:G:C6	35:BB:693:U:C4	3.01	0.47
35:BB:86:A:H5"	35:BB:87:G:OP2	2.12	0.47
35:BB:903:U:H2'	35:BB:904:C:C6	2.48	0.47
36:BC:106:G:N2	36:BC:115:G:H1'	2.28	0.47
36:BC:106:G:N2	36:BC:107:C:H1'	2.29	0.47
36:BC:125:A:C2	36:BC:126:G:H1'	2.49	0.47
37:BD:107:G:H2'	37:BD:108:G:C8	2.49	0.47
37:BD:42:A:C6	37:BD:43:U:C4	3.01	0.47
37:BD:5:A:H2'	37:BD:6:C:H6	1.77	0.47
37:BD:89:G:C5	37:BD:90:A:N6	2.81	0.47
38:BE:6:A:C4	38:BE:126:G:H1'	2.48	0.47
38:BE:161:G:C4	38:BE:162:U:C6	3.02	0.47
38:BE:27:A:O4'	38:BE:28:C:C6	2.67	0.47
38:BE:2:G:N7	38:BE:8:G:C5	2.82	0.47
40:BG:14:G:N1	40:BG:15:G:C6	2.82	0.47
40:BG:129:G:C6	40:BG:162:A:N6	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:40:C:H2'	41:BH:41:A:O5'	2.14	0.47
42:BI:69:VAL:CG2	42:BI:72:ARG:HH21	2.27	0.47
85:AA:1268:C:C4	85:AA:1269:A:C8	3.02	0.47
85:AA:1269:A:C2	85:AA:1270:C:H1'	2.49	0.47
85:AA:1505:G:H2'	85:AA:1506:U:C6	2.49	0.47
85:AA:173:A:C5	85:AA:175:A:C5	3.02	0.47
85:AA:35:U:H6	85:AA:35:U:C5'	2.27	0.47
85:AA:494:G:C2'	85:AA:495:G:H5"	2.44	0.47
85:AA:596:A:H2'	85:AA:597:A:O4'	2.14	0.47
26:AS:65:ALA:HA	85:AA:640:C:H5"	1.94	0.47
85:AA:87:C:H5"	85:AA:87:C:C6	2.48	0.47
32:AY:59:LYS:HE2	85:AA:624:A:C2	2.49	0.47
34:BA:616:G:N2	34:BA:666:C:C2	2.82	0.47
35:BB:814:A:N3	35:BB:826:G:C2	2.82	0.47
35:BB:844:G:C2	35:BB:969:C:C2	3.01	0.47
35:BB:970:C:C2'	35:BB:971:A:H5'	2.23	0.47
85:AA:1131:A:N1	85:AA:1132:A:C4	2.81	0.47
85:AA:879:G:H2'	85:AA:880:A:C8	2.49	0.47
85:AA:936:C:H2'	85:AA:937:G:C4	2.49	0.47
13:AE:171:PHE:CD1	85:AA:941:C:H2'	2.50	0.47
85:AA:1652:A:C2	85:AA:1877:G:H1'	2.49	0.47
34:BA:200:C:C2	34:BA:257:G:C2	3.01	0.47
34:BA:262:A:C2	34:BA:280:A:C5	3.02	0.47
35:BB:1326:U:H2'	35:BB:1327:U:O4'	2.14	0.47
35:BB:666:A:C6	35:BB:667:G:C2	3.02	0.47
34:BA:1695:G:C6	34:BA:1696:G:C6	3.02	0.47
35:BB:1511:U:N3	35:BB:1512:C:C6	2.82	0.47
85:AA:1467:U:O2	85:AA:1468:G:C6	2.67	0.47
85:AA:1692:U:C4	85:AA:1693:C:C5	3.02	0.47
85:AA:1706:A:C4	85:AA:1707:G:C8	3.01	0.47
85:AA:309:G:N1	85:AA:317:A:C5	2.82	0.47
85:AA:2137:A:C4	85:AA:2138:G:C8	3.01	0.47
85:AA:2137:A:C6	85:AA:2138:G:C4	3.02	0.47
85:AA:2147:A:C4	85:AA:2172:A:C6	3.01	0.47
85:AA:791:C:O2	85:AA:800:A:C8	2.67	0.47
85:AA:899:A:C2	85:AA:900:G:H1'	2.48	0.47
85:AA:71:G:C4	85:AA:78:A:N1	2.82	0.47
34:BA:1095:G:H1'	34:BA:1163:G:C2	2.49	0.47
34:BA:1447:C:H3'	34:BA:1448:G:H5"	1.96	0.47
85:AA:856:G:N1	85:AA:857:G:C4	2.82	0.47
85:AA:867:G:N2	85:AA:869:A:C4	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1086:A:N6	34:BA:1215:U:H3	2.12	0.47
85:AA:1257:A:N3	85:AA:1257:A:H2'	2.29	0.47
23:AP:74:HIS:ND1	23:AP:140:ILE:HG22	2.29	0.47
85:AA:1956:C:H4'	85:AA:1958:C:C6	2.49	0.47
34:BA:1595:G:H2'	34:BA:1596:C:C5	2.49	0.47
85:AA:840:A:C6	85:AA:851:G:C6	3.02	0.47
35:BB:1491:G:C5	35:BB:1492:C:C5	3.02	0.47
85:AA:200:U:C6	85:AA:200:U:C3'	2.97	0.47
40:BG:142:A:H3'	40:BG:143:C:C6	2.48	0.47
47:BN:128:LEU:HD11	47:BN:130:LEU:HB2	1.96	0.47
52:BS:16:THR:HG23	52:BS:57:HIS:HE1	1.78	0.47
85:AA:1725:G:C8	85:AA:1983:C:O4'	2.67	0.47
11:AC:134:PHE:N	11:AC:134:PHE:CD1	2.80	0.47
25:AR:51:ASP:C	25:AR:53:THR:H	2.17	0.47
23:AP:111:PHE:CD1	23:AP:111:PHE:N	2.82	0.47
34:BA:1054:U:C4	34:BA:1066:A:C2	3.01	0.47
34:BA:1178:U:H2'	34:BA:1179:U:H6	1.74	0.47
34:BA:1320:A:N7	34:BA:1419:A:C2	2.82	0.47
34:BA:1525:G:C6	34:BA:1526:C:C4	3.03	0.47
34:BA:168:U:H6	34:BA:168:U:O5'	1.96	0.47
34:BA:1731:A:C8	34:BA:1731:A:H3'	2.49	0.47
34:BA:223:U:C4	34:BA:224:G:N7	2.82	0.47
34:BA:323:C:H4'	34:BA:324:C:C6	2.49	0.47
34:BA:405:C:C4	36:BC:24:G:N1	2.81	0.47
34:BA:439:A:C6	34:BA:441:A:C6	3.01	0.47
34:BA:473:A:C4	34:BA:474:A:C8	3.03	0.47
34:BA:739:A:C5	47:BN:13:GLN:O	2.67	0.47
35:BB:1040:C:H2'	35:BB:1041:A:N3	2.29	0.47
35:BB:1129:C:H2'	35:BB:1130:U:C6	2.49	0.47
35:BB:119:G:C6	35:BB:120:C:C4	3.02	0.47
35:BB:1446:C:H5"	48:BO:83:ASN:HD21	1.79	0.47
35:BB:129:U:O2	35:BB:375:G:C2	2.67	0.47
35:BB:593:A:C6	35:BB:594:U:C4	3.02	0.47
35:BB:85:A:C6	35:BB:91:G:C5	3.02	0.47
36:BC:163:A:C6	36:BC:164:G:O6	2.67	0.47
37:BD:36:C:O2	37:BD:45:U:H1'	2.14	0.47
37:BD:66:G:C2	37:BD:67:C:C2	3.02	0.47
38:BE:123:A:N6	38:BE:124:G:C6	2.81	0.47
38:BE:123:A:H2	38:BE:124:G:H1'	1.79	0.47
38:BE:209:U:C5	38:BE:210:G:C5	3.02	0.47
38:BE:59:U:N3	38:BE:60:C:C4	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:62:U:H2'	39:BF:62:U:OP2	2.14	0.47
40:BG:176:G:C4	40:BG:177:U:C5	3.02	0.47
40:BG:74:G:C6	40:BG:75:C:C5	3.02	0.47
40:BG:74:G:N1	40:BG:75:C:C2	2.82	0.47
40:BG:88:G:C4	40:BG:89:A:C8	3.03	0.47
41:BH:29:G:N7	41:BH:30:C:C6	2.82	0.47
41:BH:6:U:C2	41:BH:131:A:C2	3.03	0.47
53:BT:84:THR:HG23	53:BT:87:ALA:H	1.79	0.47
38:BE:48:G:H5"	55:BV:111:ALA:CB	2.44	0.47
57:BX:62:ARG:N	57:BX:62:ARG:HD3	2.29	0.47
34:BA:538:G:C2	34:BA:539:C:C2	3.02	0.47
85:AA:1226:A:H1'	85:AA:1274:A:N1	2.29	0.47
85:AA:136:U:C6	85:AA:136:U:H3'	2.49	0.47
85:AA:1484:G:C4	85:AA:1485:G:N7	2.82	0.47
85:AA:683:U:C2	85:AA:1485:G:C2	3.03	0.47
85:AA:2192:A:C6	85:AA:2193:A:C5	3.02	0.47
85:AA:22:A:C2	85:AA:677:U:O2	2.67	0.47
85:AA:369:A:C2	85:AA:370:A:C8	3.02	0.47
85:AA:90:A:C5	85:AA:464:A:C2	3.02	0.47
2:A1:24:PHE:O	85:AA:513:G:H4'	2.14	0.47
85:AA:526:G:C6	85:AA:527:A:C5	3.02	0.47
85:AA:64:A:N1	85:AA:84:C:C4	2.82	0.47
85:AA:84:C:OP2	85:AA:84:C:C5	2.67	0.47
85:AA:92:G:H2'	85:AA:93:G:C8	2.48	0.47
34:BA:657:C:OP2	34:BA:657:C:C6	2.67	0.47
35:BB:555:G:C2	35:BB:556:U:C6	3.01	0.47
35:BB:562:A:N1	35:BB:563:A:C2	2.83	0.47
35:BB:816:U:N3	35:BB:817:C:C5	2.83	0.47
35:BB:817:C:N4	35:BB:818:U:C2	2.82	0.47
35:BB:812:G:C2	35:BB:828:G:N3	2.83	0.47
35:BB:837:A:OP2	35:BB:838:G:C5	2.68	0.47
35:BB:866:A:C2	35:BB:867:C:H1'	2.49	0.47
35:BB:1161:G:O4'	35:BB:1163:U:C6	2.67	0.47
35:BB:472:C:H4'	35:BB:473:U:C5	2.49	0.47
35:BB:537:A:C5	35:BB:538:A:C5	3.01	0.47
85:AA:1133:C:O2	85:AA:1134:G:C5	2.68	0.47
85:AA:938:A:C8	85:AA:938:A:P	3.07	0.47
21:AM:131:ARG:HD2	85:AA:2010:C:OP1	2.14	0.47
34:BA:603:U:N3	34:BA:680:C:H2'	2.28	0.47
34:BA:1488:C:H3'	34:BA:1488:C:C6	2.50	0.47
27:AT:10:VAL:CG2	27:AT:34:HIS:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1462:A:C6	85:AA:1463:A:C5	3.02	0.47
85:AA:1666:U:H3'	85:AA:1666:U:C6	2.49	0.47
85:AA:271:A:C6	85:AA:272:C:C5	3.02	0.47
85:AA:965:G:C4	85:AA:991:G:N7	2.82	0.47
2:A1:217:THR:HG23	85:AA:883:A:OP2	2.13	0.47
7:A6:170:ARG:HB2	7:A6:176:ARG:HG2	1.96	0.47
85:AA:548:G:C6	85:AA:549:A:C5	3.02	0.47
85:AA:2083:G:H2'	85:AA:2084:U:C6	2.49	0.47
85:AA:887:A:H2'	85:AA:889:G:N7	2.30	0.47
85:AA:894:A:C8	85:AA:899:A:N3	2.82	0.47
34:BA:1332:U:C2	34:BA:1333:G:C8	3.02	0.47
85:AA:119:G:C6	85:AA:120:C:C4	3.02	0.47
85:AA:118:C:C2	85:AA:362:G:N2	2.82	0.47
85:AA:1150:G:C2	85:AA:1151:G:C2	3.02	0.47
85:AA:1150:G:C5	85:AA:1151:G:C5	3.03	0.47
35:BB:1007:U:H2'	35:BB:1009:U:H5	1.78	0.47
85:AA:1153:G:C3'	85:AA:1153:G:C8	2.86	0.47
85:AA:68:A:C5	85:AA:81:A:C4	3.02	0.47
85:AA:70:U:C2	85:AA:79:G:C2	3.02	0.47
11:AC:60:HIS:N	11:AC:60:HIS:CD2	2.81	0.47
34:BA:1040:G:C8	34:BA:1041:U:C5	3.02	0.47
44:BK:150:GLU:CG	44:BK:154:ARG:HH12	2.25	0.47
85:AA:1826:U:C5	85:AA:1828:C:H1'	2.48	0.47
35:BB:1071:G:C8	35:BB:1071:G:O5'	2.68	0.47
85:AA:1728:G:C2	85:AA:1813:C:C2	3.02	0.47
34:BA:144:C:H5'	34:BA:145:U:C5	2.49	0.47
85:AA:1600:G:C6	85:AA:1601:G:C5	3.03	0.47
35:BB:50:A:N1	35:BB:51:U:C2	2.82	0.47
35:BB:955:U:H3'	35:BB:956:G:C8	2.49	0.47
34:BA:1368:G:C2	34:BA:1369:C:C4	3.02	0.47
35:BB:862:U:OP2	35:BB:862:U:C6	2.68	0.47
4:A3:122:GLN:HG3	4:A3:124:ILE:H	1.78	0.47
12:AD:72:TYR:CD1	31:AX:23:PHE:CE1	3.02	0.47
18:AJ:81:CYS:O	18:AJ:122:GLY:HA3	2.14	0.47
33:AZ:53:ARG:HH11	33:AZ:53:ARG:HG2	1.77	0.47
6:A5:67:TRP:HE1	6:A5:69:THR:HG1	1.61	0.47
5:A4:122:THR:O	5:A4:126:VAL:HG23	2.14	0.47
50:BQ:200:LYS:O	50:BQ:203:PRO:HD2	2.14	0.47
34:BA:113:G:C3'	34:BA:113:G:C8	2.92	0.47
34:BA:1142:C:C2	34:BA:1143:U:C5	3.02	0.47
34:BA:1100:A:C4	34:BA:1158:A:C6	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1226:G:H4'	34:BA:1519:G:H4'	1.96	0.47
34:BA:1599:A:H5"	34:BA:1600:G:P	2.54	0.47
34:BA:161:U:C2	34:BA:165:C:N3	2.83	0.47
34:BA:1663:U:O2	34:BA:1664:C:C6	2.67	0.47
34:BA:15:G:N1	34:BA:16:C:C2	2.82	0.47
34:BA:25:C:N4	34:BA:26:C:C4	2.82	0.47
34:BA:108:A:N1	34:BA:386:A:C8	2.81	0.47
34:BA:439:A:N3	34:BA:441:A:C8	2.82	0.47
34:BA:462:C:C4	34:BA:465:A:C5	3.03	0.47
34:BA:64:A:C6	34:BA:380:A:C4	3.02	0.47
34:BA:804:G:N1	34:BA:810:A:C6	2.83	0.47
34:BA:826:C:H2'	34:BA:827:A:C8	2.49	0.47
34:BA:828:A:C2	34:BA:829:U:C6	3.03	0.47
34:BA:931:G:O6	34:BA:932:G:C4	2.67	0.47
34:BA:933:U:O4	34:BA:934:G:C2	2.68	0.47
35:BB:1033:U:C4	35:BB:1034:U:C5	3.03	0.47
35:BB:1313:C:H5'	44:BK:160:PRO:CB	2.44	0.47
36:BC:115:G:C2	36:BC:116:C:C2	3.03	0.47
36:BC:166:G:N2	36:BC:167:U:H1'	2.29	0.47
36:BC:59:A:H5'	36:BC:59:A:N3	2.30	0.47
36:BC:78:G:C6	36:BC:79:A:C6	3.02	0.47
36:BC:82:C:C2	36:BC:84:U:C4	3.02	0.47
37:BD:17:G:N1	37:BD:18:G:C5	2.82	0.47
37:BD:35:C:C2	37:BD:36:C:C6	3.02	0.47
38:BE:106:C:C6	53:BT:121:ARG:CZ	2.96	0.47
34:BA:937:G:N2	38:BE:112:G:OP1	2.47	0.47
38:BE:5:A:N1	38:BE:6:A:N1	2.62	0.47
38:BE:74:U:O4	38:BE:75:C:C2	2.67	0.47
39:BF:13:U:C6	39:BF:13:U:H3'	2.49	0.47
40:BG:124:A:C6	40:BG:125:C:C4	3.02	0.47
40:BG:158:A:C2	40:BG:159:A:H5'	2.49	0.47
40:BG:3:G:N1	40:BG:4:A:C5	2.82	0.47
41:BH:105:U:H6	41:BH:105:U:O5'	1.97	0.47
41:BH:50:A:C2	41:BH:51:C:C2	3.02	0.47
41:BH:57:A:N1	41:BH:58:C:C4	2.82	0.47
44:BK:47:PRO:HA	44:BK:171:TRP:NE1	2.29	0.47
48:BO:88:PRO:C	48:BO:90:HIS:CE1	2.87	0.47
56:BW:96:TYR:CE1	58:BY:21:TYR:HB2	2.49	0.47
57:BX:114:LYS:O	57:BX:118:LYS:HG3	2.14	0.47
58:BY:52:PHE:HA	58:BY:59:TYR:CE1	2.48	0.47
15:AG:113:PHE:CE2	85:AA:1188:A:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2121:G:C2'	85:AA:2122:A:H8	2.28	0.47
85:AA:447:C:C2	85:AA:448:G:C8	3.02	0.47
85:AA:453:G:C6	85:AA:475:A:N1	2.83	0.47
85:AA:470:C:C5	85:AA:471:U:C5	3.02	0.47
85:AA:456:A:C2	85:AA:472:A:C2	3.02	0.47
34:BA:649:A:N1	34:BA:650:C:C2	2.81	0.47
34:BA:655:U:C2'	34:BA:657:C:H5'	2.45	0.47
34:BA:657:C:C2	34:BA:658:C:C6	3.02	0.47
34:BA:668:G:C6	34:BA:669:U:C4	3.02	0.47
35:BB:839:G:H4'	35:BB:1025:A:C5	2.50	0.47
15:AG:55:ARG:HG2	30:AW:48:TYR:CE2	2.49	0.47
85:AA:876:U:C6	85:AA:876:U:O5'	2.68	0.47
85:AA:928:U:O4	85:AA:929:G:C6	2.67	0.47
85:AA:1548:A:C2	85:AA:1549:G:C5	3.02	0.47
85:AA:2011:C:H2'	85:AA:2012:G:C8	2.49	0.47
85:AA:2016:A:C4	85:AA:2028:G:N2	2.83	0.47
85:AA:2014:G:N2	85:AA:2029:G:C2	2.82	0.47
40:BG:147:U:H3'	40:BG:148:C:H5"	1.96	0.47
34:BA:266:G:H2'	34:BA:267:G:H8	1.80	0.47
35:BB:1284:U:C2	35:BB:1285:U:C6	3.02	0.47
35:BB:674:C:N3	35:BB:675:U:C4	2.83	0.47
85:AA:1914:U:C4	85:AA:1915:C:C5	3.02	0.47
34:BA:1695:G:C5	34:BA:1696:G:N7	2.83	0.47
19:AK:103:HIS:CG	19:AK:104:ASN:N	2.71	0.47
34:BA:1489:U:H3'	34:BA:1489:U:C6	2.50	0.47
35:BB:1510:G:N1	35:BB:1511:U:C4	2.83	0.47
35:BB:1513:U:C2	35:BB:1514:G:C8	3.01	0.47
85:AA:247:G:C6	85:AA:248:U:C4	3.02	0.47
85:AA:248:U:C4	85:AA:249:C:C4	3.02	0.47
41:BH:17:A:C6	41:BH:18:C:C5	3.02	0.47
85:AA:1288:A:H2	85:AA:1454:U:O2	1.97	0.47
85:AA:1517:G:C2	85:AA:1518:A:C8	3.02	0.47
85:AA:1686:G:C6	85:AA:1687:U:C4	3.01	0.47
85:AA:2103:C:C4	85:AA:2105:G:C2	3.03	0.47
34:BA:1287:G:H1'	34:BA:1294:C:C4	2.49	0.47
10:A9:137:HIS:CE1	85:AA:1627:U:O2	2.67	0.47
32:AY:31:ARG:HB2	85:AA:546:U:C2	2.49	0.47
85:AA:569:A:C2	85:AA:570:U:N1	2.82	0.47
85:AA:572:G:H2'	85:AA:573:U:O4'	2.14	0.47
85:AA:582:A:H3'	85:AA:583:U:C5	2.49	0.47
85:AA:1534:A:C2	85:AA:2089:G:N3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:715:G:C5	85:AA:716:G:C8	3.03	0.47
85:AA:720:A:C2	85:AA:781:G:C2	3.02	0.47
85:AA:789:A:C8	85:AA:802:A:C5	3.02	0.47
24:AQ:52:ARG:O	85:AA:1818:C:H2'	2.14	0.47
85:AA:907:G:C2'	85:AA:908:C:C5	2.98	0.47
85:AA:910:G:C2	85:AA:911:A:C6	3.02	0.47
85:AA:378:A:N1	85:AA:381:A:C8	2.82	0.47
4:A3:173:ARG:NH2	85:AA:76:G:C8	2.82	0.47
39:BF:36:G:H2'	39:BF:37:C:C6	2.49	0.47
85:AA:746:G:C2	85:AA:759:G:C4	3.02	0.47
34:BA:1123:G:C2	34:BA:1138:C:O2	2.67	0.47
85:AA:1846:G:C2	85:AA:1847:U:N3	2.82	0.47
35:BB:1483:A:H2'	35:BB:1484:A:O4'	2.14	0.47
34:BA:831:U:C6	34:BA:832:C:C5	3.02	0.47
35:BB:430:A:H2'	35:BB:431:U:O4'	2.14	0.47
40:BG:114:A:C6	40:BG:115:C:C2	3.02	0.47
35:BB:357:C:C5	35:BB:359:A:H2'	2.49	0.47
26:AS:27:TRP:CE2	26:AS:31:HIS:CG	3.02	0.47
23:AP:91:MET:HG3	23:AP:113:VAL:HG23	1.96	0.47
26:AS:84:PHE:CG	26:AS:85:VAL:N	2.83	0.47
34:BA:1805:C:H4'	34:BA:1806:A:OP2	2.14	0.47
35:BB:350:U:H2'	35:BB:351:G:C8	2.49	0.47
31:AX:125:VAL:HG12	31:AX:130:ALA:HB3	1.95	0.47
50:BQ:89:LYS:HA	50:BQ:107:LEU:HD23	1.96	0.47
12:AD:23:VAL:HG13	12:AD:41:THR:CG2	2.44	0.47
29:AV:44:ARG:H	29:AV:71:LEU:C	2.17	0.47
27:AT:54:TYR:O	27:AT:56:VAL:HG23	2.14	0.47
34:BA:1300:G:H2'	34:BA:1301:G:C8	2.50	0.47
34:BA:1661:U:C6	34:BA:1662:U:O4	2.68	0.47
34:BA:20:A:N7	34:BA:1716:A:N1	2.62	0.47
34:BA:1776:G:C2	34:BA:1778:U:C6	3.03	0.47
34:BA:1845:G:C8	34:BA:1847:G:O6	2.67	0.47
34:BA:214:A:OP2	34:BA:215:C:C6	2.67	0.47
34:BA:592:G:C4	34:BA:1278:A:H4'	2.50	0.47
34:BA:760:G:C2	34:BA:761:U:C5	3.02	0.47
34:BA:911:G:C6	34:BA:912:G:C8	3.03	0.47
34:BA:938:C:HO2'	34:BA:939:C:H6	1.62	0.47
34:BA:942:G:C2	34:BA:943:G:C4	3.03	0.47
35:BB:1036:G:C2	35:BB:1037:A:H1'	2.49	0.47
35:BB:780:U:H2'	35:BB:1038:G:H1	1.79	0.47
35:BB:1133:C:H3'	35:BB:1134:G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1147:G:C5	35:BB:1148:U:O4	2.67	0.47
35:BB:1151:A:C5	35:BB:1153:G:C5	3.02	0.47
35:BB:1251:G:C3'	35:BB:1251:G:C8	2.97	0.47
35:BB:1444:U:O5'	35:BB:1444:U:H6	1.97	0.47
35:BB:63:A:H8	35:BB:63:A:HO2'	1.60	0.47
35:BB:681:G:C2	35:BB:682:U:H1'	2.50	0.47
35:BB:68:G:H3'	35:BB:69:A:N7	2.29	0.47
35:BB:876:G:H4'	35:BB:877:A:C8	2.48	0.47
36:BC:11:G:N1	36:BC:12:A:C4	2.82	0.47
34:BA:395:G:N2	36:BC:34:U:C5	2.80	0.47
36:BC:78:G:H2'	36:BC:79:A:C8	2.50	0.47
37:BD:74:A:C5'	37:BD:76:U:H1'	2.43	0.47
34:BA:938:C:H1'	38:BE:112:G:H5'	1.96	0.47
38:BE:157:C:C6	38:BE:158:U:C5	3.02	0.47
38:BE:166:G:H2'	38:BE:167:U:O4'	2.14	0.47
38:BE:184:G:H2'	38:BE:185:G:C8	2.49	0.47
38:BE:192:A:C2	38:BE:193:A:C6	3.03	0.47
38:BE:50:G:C6	38:BE:51:C:C4	3.03	0.47
44:BK:139:ARG:HG2	44:BK:173:PHE:CZ	2.48	0.47
44:BK:38:LYS:HG2	44:BK:40:ARG:H	1.78	0.47
44:BK:95:HIS:C	44:BK:95:HIS:CD2	2.86	0.47
40:BG:45:G:O3'	56:BW:9:LYS:HB3	2.15	0.47
85:AA:1503:G:H2'	85:AA:1504:A:H8	1.79	0.47
85:AA:167:A:C8	85:AA:167:A:H3'	2.50	0.47
85:AA:466:A:C6	85:AA:469:G:C5	2.73	0.47
85:AA:660:G:H2'	85:AA:661:C:O4'	2.15	0.47
85:AA:662:U:C5	85:AA:663:C:C5	3.03	0.47
35:BB:857:G:O5'	35:BB:857:G:C8	2.68	0.47
85:AA:959:C:C6	85:AA:960:G:C8	3.02	0.47
85:AA:1209:U:O5'	85:AA:1209:U:C6	2.68	0.47
15:AG:87:ASP:CG	85:AA:1117:G:H1'	2.34	0.47
35:BB:1186:A:H2'	35:BB:1186:A:N3	2.30	0.47
35:BB:530:C:H6	85:AA:2231:G:N3	2.11	0.47
85:AA:1140:G:C2	85:AA:1141:U:C2	3.02	0.47
49:BP:93:ARG:O	49:BP:96:HIS:CG	2.68	0.47
85:AA:1658:G:C2	85:AA:1659:C:C2	3.02	0.47
85:AA:2003:C:O3'	85:AA:2004:U:H6	1.96	0.47
85:AA:2014:G:N1	85:AA:2029:G:N1	2.62	0.47
34:BA:1241:U:C4	35:BB:1286:G:H1'	2.49	0.47
35:BB:1276:U:H5'	35:BB:1276:U:C6	2.48	0.47
35:BB:669:A:C5	35:BB:1329:G:N3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:641:C:N3	35:BB:1399:A:C5	2.83	0.47
35:BB:1514:G:H2'	35:BB:1515:C:C6	2.49	0.47
35:BB:1542:C:C2	35:BB:1543:C:C6	3.02	0.47
85:AA:1668:G:C4	85:AA:1669:G:C8	3.01	0.47
85:AA:2221:A:C4	85:AA:2244:G:N3	2.82	0.47
13:AE:56:LEU:HA	85:AA:312:G:C8	2.50	0.47
85:AA:314:C:C6	85:AA:316:C:C5	3.02	0.47
85:AA:277:G:C2	85:AA:293:A:C4	3.02	0.47
85:AA:976:G:C5	85:AA:977:U:C5	3.01	0.47
85:AA:989:U:H4'	85:AA:991:G:N7	2.30	0.47
85:AA:557:G:N2	85:AA:571:G:H1'	2.29	0.47
85:AA:1925:A:H1'	85:AA:2059:A:O2'	2.14	0.47
85:AA:889:G:N3	85:AA:889:G:H2'	2.30	0.47
85:AA:901:C:H4'	85:AA:902:A:C4'	2.45	0.47
85:AA:441:C:C2	85:AA:442:G:C8	3.02	0.47
2:A1:63:ARG:HG3	85:AA:519:A:C8	2.49	0.47
35:BB:1004:A:C4	35:BB:1005:A:C8	3.03	0.47
85:AA:1241:A:C4	85:AA:1262:A:C2	3.01	0.47
34:BA:526:C:N3	34:BA:587:U:C4	2.82	0.47
34:BA:530:A:C2	34:BA:580:U:N3	2.82	0.47
34:BA:1122:G:C6	34:BA:1123:G:C4	3.03	0.47
35:BB:475:A:C8	35:BB:505:G:H1'	2.50	0.47
85:AA:1299:A:C2	85:AA:1444:U:C2	3.02	0.47
27:AT:25:ARG:HD2	27:AT:83:TYR:CZ	2.50	0.47
85:AA:1144:G:C5	85:AA:1145:U:C5	3.02	0.47
85:AA:730:G:C6	85:AA:731:U:O4	2.68	0.47
35:BB:1490:G:N1	35:BB:1491:G:C4	2.83	0.47
34:BA:1218:G:C2	34:BA:1219:G:C4	3.03	0.47
34:BA:409:A:C6	34:BA:410:G:C4	3.03	0.47
35:BB:758:A:C2	35:BB:759:C:H1'	2.50	0.47
85:AA:213:G:H22	85:AA:232:U:H3	1.61	0.47
85:AA:1040:U:H2'	85:AA:1041:U:C6	2.49	0.47
38:BE:83:U:C6	38:BE:83:U:C3'	2.96	0.47
3:A2:85:ILE:O	3:A2:89:LEU:HB2	2.13	0.47
35:BB:906:G:C2	35:BB:953:G:C6	3.02	0.47
54:BU:68:THR:HG22	54:BU:71:GLY:C	2.34	0.47
28:AU:85:GLY:HA2	28:AU:88:HIS:CE1	2.49	0.47
11:AC:158:LEU:O	11:AC:180:VAL:HA	2.15	0.47
52:BS:47:MET:HA	52:BS:51:ASN:HB3	1.96	0.47
2:A1:100:TYR:CZ	2:A1:106:PHE:CE2	3.01	0.47
34:BA:1016:A:C6	34:BA:1017:C:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1043:C:C5	34:BA:1581:G:N1	2.83	0.47
34:BA:1052:G:C2	34:BA:1230:G:C1'	2.98	0.47
34:BA:1276:G:C6	34:BA:1277:G:N7	2.83	0.47
34:BA:138:C:N3	34:BA:139:U:C5	2.82	0.47
34:BA:1415:C:C2	34:BA:1416:C:C5	3.02	0.47
34:BA:122:U:O2	34:BA:146:G:N2	2.47	0.47
34:BA:1610:A:H2'	34:BA:1611:A:C8	2.49	0.47
34:BA:1663:U:C2	34:BA:1664:C:C6	3.03	0.47
34:BA:1664:C:H6	34:BA:1664:C:O5'	1.97	0.47
34:BA:1671:A:C5	34:BA:1672:C:C5	3.02	0.47
34:BA:1700:C:C6	34:BA:1700:C:H3'	2.50	0.47
34:BA:1750:A:C2	34:BA:1774:G:C2	3.03	0.47
34:BA:1737:A:C2	34:BA:1788:U:N3	2.83	0.47
34:BA:1814:U:C2	34:BA:1815:G:C8	3.03	0.47
34:BA:377:G:C2	34:BA:378:C:C2	3.02	0.47
34:BA:412:G:C5	34:BA:413:A:C6	3.01	0.47
34:BA:698:U:C6	34:BA:698:U:H3'	2.48	0.47
34:BA:743:A:C6	34:BA:894:G:C6	3.02	0.47
34:BA:751:A:H2'	34:BA:751:A:N3	2.28	0.47
34:BA:74:A:N1	34:BA:75:U:C2	2.82	0.47
34:BA:825:G:C5	34:BA:826:C:C5	3.02	0.47
34:BA:849:G:C2	34:BA:850:C:C4	3.02	0.47
34:BA:919:A:C4	34:BA:920:U:C5	3.02	0.47
34:BA:994:G:C4	34:BA:996:U:C6	3.02	0.47
35:BB:1145:G:H2'	35:BB:1146:C:H6	1.80	0.47
35:BB:1219:A:H3'	35:BB:1220:A:C8	2.48	0.47
35:BB:1298:C:C4	35:BB:1299:G:C5	3.03	0.47
35:BB:134:G:C6	35:BB:135:C:C5	3.02	0.47
35:BB:371:C:C2	35:BB:372:U:C4	3.02	0.47
35:BB:481:A:N1	35:BB:482:A:N1	2.62	0.47
35:BB:491:A:H3'	35:BB:492:U:C6	2.49	0.47
35:BB:707:G:N1	35:BB:775:U:C2	2.82	0.47
35:BB:783:U:H3'	35:BB:784:C:H6	1.78	0.47
34:BA:484:A:N1	36:BC:5:U:C2	2.83	0.47
37:BD:101:A:C8	37:BD:101:A:O5'	2.68	0.47
37:BD:37:G:C6	37:BD:38:U:O4	2.68	0.47
37:BD:56:G:C8	37:BD:57:C:C5	3.03	0.47
37:BD:63:C:C6	44:BK:205:LYS:O	2.68	0.47
37:BD:69:U:H2'	37:BD:70:C:C6	2.49	0.47
38:BE:130:G:C4	38:BE:131:C:C6	3.02	0.47
38:BE:41:C:C2	38:BE:173:G:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:76:U:H1'	38:BE:84:U:C5	2.50	0.47
39:BF:6:C:P	39:BF:6:C:H3'	2.55	0.47
40:BG:22:G:H4'	40:BG:23:C:C5'	2.44	0.47
40:BG:88:G:H2'	40:BG:89:A:C8	2.50	0.47
41:BH:127:A:C2	41:BH:128:G:C2	3.03	0.47
44:BK:3:ARG:NH2	44:BK:6:ALA:H	2.12	0.47
35:BB:1225:A:O2'	47:BN:192:LYS:HE3	2.14	0.47
49:BP:19:PRO:HB2	49:BP:20:ARG:HE	1.79	0.47
34:BA:1296:U:C3'	49:BP:54:LYS:HZ2	2.27	0.47
85:AA:1281:G:C5	85:AA:1282:A:C5	3.03	0.47
85:AA:130:G:N2	85:AA:131:C:H1'	2.29	0.47
85:AA:159:G:C4	85:AA:164:G:C6	3.02	0.47
85:AA:19:A:H2'	85:AA:20:G:O4'	2.15	0.47
85:AA:21:U:H2'	85:AA:22:A:C8	2.49	0.47
85:AA:448:G:C6	85:AA:449:G:C4	3.02	0.47
85:AA:47:A:N3	85:AA:490:A:C5	2.83	0.47
85:AA:526:G:C5	85:AA:527:A:C8	3.02	0.47
85:AA:635:G:C6	85:AA:659:A:C6	3.02	0.47
85:AA:88:G:C6	85:AA:89:C:N3	2.82	0.47
85:AA:94:C:H2'	85:AA:95:U:C6	2.49	0.47
34:BA:618:G:C6	34:BA:619:U:C4	3.03	0.47
35:BB:526:A:C8	35:BB:527:U:C6	3.03	0.47
35:BB:569:G:C5	35:BB:570:A:C8	3.02	0.47
35:BB:545:C:N4	35:BB:574:G:C6	2.83	0.47
35:BB:844:G:C2	35:BB:969:C:O2	2.67	0.47
85:AA:1117:G:N3	85:AA:1117:G:H2'	2.28	0.47
15:AG:52:MET:SD	85:AA:1119:A:H1'	2.55	0.47
85:AA:2110:U:C5	85:AA:2111:C:C5	3.03	0.47
85:AA:2111:C:H6	85:AA:2111:C:O5'	1.98	0.47
85:AA:806:G:H2'	85:AA:807:A:O4'	2.15	0.47
85:AA:1654:G:C2	85:AA:1655:G:H1'	2.50	0.47
85:AA:2007:G:H2'	85:AA:2008:G:C1'	2.44	0.47
34:BA:1246:G:C6	34:BA:1247:G:C8	3.02	0.47
34:BA:971:G:C6	34:BA:972:C:C4	3.02	0.47
57:BX:151:SER:C	57:BX:152:TYR:CG	2.87	0.47
85:AA:1457:C:C3'	85:AA:1457:C:C6	2.97	0.47
85:AA:10:G:C8	85:AA:2100:A:O2'	2.68	0.47
85:AA:2219:G:H4'	85:AA:2220:U:OP2	2.15	0.47
85:AA:2221:A:C5	85:AA:2222:G:N7	2.82	0.47
85:AA:572:G:C4	85:AA:573:U:C6	3.02	0.47
85:AA:574:U:H5"	85:AA:574:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:44:LYS:C	85:AA:2082:C:C5	2.88	0.47
85:AA:1540:A:N1	85:AA:2049:U:C4	2.82	0.47
85:AA:2069:A:C4	85:AA:2070:C:C6	3.02	0.47
85:AA:2081:A:C8	85:AA:2082:C:C5	3.02	0.47
85:AA:381:A:C4	85:AA:419:A:C5	3.03	0.47
34:BA:1425:G:C6	34:BA:1426:A:C6	3.03	0.47
34:BA:712:C:H2'	34:BA:713:C:C5	2.50	0.47
34:BA:530:A:C2	34:BA:582:U:C2	3.03	0.47
85:AA:1814:U:O2	85:AA:1815:U:C5	2.67	0.47
86:AB:9:A:H1'	86:AB:45:U:O2	2.14	0.47
85:AA:1257:A:C4	85:AA:1258:U:C5	3.02	0.47
15:AG:31:ARG:HH12	85:AA:1002:G:H4'	1.79	0.47
34:BA:515:U:C2	34:BA:516:U:C5	3.03	0.47
35:BB:1489:A:N7	49:BP:158:PRO:HD3	2.28	0.47
35:BB:1056:A:N1	35:BB:1057:G:C6	2.82	0.47
11:AC:120:GLN:HB3	11:AC:124:PHE:CZ	2.49	0.47
85:AA:849:A:C6	85:AA:850:U:C4	3.02	0.47
35:BB:1491:G:C2	35:BB:1492:C:C2	3.02	0.47
35:BB:736:G:C6	35:BB:744:U:N3	2.83	0.47
85:AA:1600:G:H2'	85:AA:1601:G:C8	2.49	0.47
47:BN:149:LYS:HZ1	47:BN:154:ASP:CG	2.18	0.47
57:BX:124:LEU:CB	57:BX:125:TYR:CE2	2.97	0.47
57:BX:122:ARG:HH21	57:BX:129:THR:H	1.62	0.47
11:AC:241:ARG:HH22	11:AC:244:GLU:N	2.12	0.47
1:A0:27:LYS:HG2	1:A0:49:ASN:HA	1.97	0.47
57:BX:95:MET:N	57:BX:95:MET:SD	2.87	0.47
49:BP:131:ASN:HA	49:BP:134:LYS:HB2	1.97	0.47
85:AA:2155:U:C2	85:AA:2164:G:C6	3.03	0.47
34:BA:101:G:C2	34:BA:102:G:C4	3.02	0.47
34:BA:1044:A:N3	34:BA:1045:C:C6	2.83	0.47
34:BA:1071:G:C2	34:BA:1072:U:C2	3.03	0.47
34:BA:1100:A:C6	34:BA:1158:A:C8	3.03	0.47
34:BA:114:U:C5	34:BA:327:G:C2	3.03	0.47
34:BA:117:C:OP2	34:BA:149:G:C2	2.68	0.47
34:BA:1257:U:C5'	34:BA:1257:U:C6	2.98	0.47
34:BA:1274:A:C2	34:BA:1275:G:C4	3.02	0.47
34:BA:1297:G:C4	49:BP:19:PRO:CD	2.98	0.47
34:BA:135:G:C5	34:BA:136:A:C8	3.03	0.47
34:BA:1421:A:C5	35:BB:1345:A:N1	2.83	0.47
34:BA:1441:C:N3	34:BA:1442:A:C8	2.83	0.47
34:BA:1276:G:C2	34:BA:1465:C:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1519:G:C6	34:BA:1520:A:C5	3.03	0.47
34:BA:1563:G:C6	34:BA:1565:U:O4	2.68	0.47
34:BA:1774:G:C6	34:BA:1775:U:C4	3.02	0.47
34:BA:212:A:H2'	34:BA:213:A:C8	2.50	0.47
34:BA:216:C:C6	34:BA:217:C:N3	2.82	0.47
34:BA:299:C:H2'	34:BA:300:C:O4'	2.13	0.47
34:BA:31:A:C5	34:BA:48:C:C2	3.03	0.47
34:BA:57:A:C5	34:BA:58:A:C8	3.02	0.47
34:BA:761:U:C5	34:BA:762:A:N7	2.83	0.47
34:BA:790:G:C4	34:BA:794:G:C6	3.02	0.47
34:BA:856:G:C2	34:BA:857:C:N1	2.82	0.47
34:BA:856:G:C2	34:BA:857:C:C2	3.03	0.47
34:BA:888:G:C4	34:BA:889:U:C6	3.03	0.47
34:BA:995:A:C2	34:BA:1012:A:C6	3.03	0.47
35:BB:780:U:H2'	35:BB:1038:G:C6	2.50	0.47
35:BB:1086:G:H3'	35:BB:1087:A:H8	1.80	0.47
35:BB:1125:A:C5	35:BB:1126:A:C5	3.03	0.47
35:BB:1123:A:C5	35:BB:1127:A:C6	3.02	0.47
35:BB:1127:A:H3'	35:BB:1128:U:C5	2.50	0.47
35:BB:417:A:C8	35:BB:418:G:C8	3.02	0.47
35:BB:662:G:C5	35:BB:663:G:N7	2.83	0.47
35:BB:692:G:H2'	35:BB:693:U:C6	2.49	0.47
35:BB:697:G:C2	35:BB:698:C:C2	3.02	0.47
34:BA:1564:A:H1'	36:BC:10:C:OP1	2.14	0.47
36:BC:128:U:C4	36:BC:129:C:C4	3.03	0.47
36:BC:68:A:C5	36:BC:69:U:C4	3.03	0.47
36:BC:96:A:C2	36:BC:97:U:C2	3.02	0.47
37:BD:65:G:C6	37:BD:66:G:C4	3.01	0.47
38:BE:17:U:C6	38:BE:17:U:O5'	2.68	0.47
38:BE:23:G:N2	38:BE:25:U:C6	2.81	0.47
40:BG:26:G:C6	40:BG:27:C:C4	3.03	0.47
40:BG:33:G:C6	40:BG:168:A:C4	3.03	0.47
41:BH:103:C:N3	41:BH:104:U:N1	2.61	0.47
41:BH:115:A:O5'	41:BH:118:U:C5	2.68	0.47
41:BH:30:C:C4	41:BH:31:A:C5	3.02	0.47
41:BH:68:G:C4	41:BH:69:C:C6	3.02	0.47
39:BF:21:C:C6	48:BO:133:THR:HG23	2.49	0.47
50:BQ:23:TYR:N	50:BQ:23:TYR:CD1	2.81	0.47
34:BA:982:A:C8	51:BR:133:HIS:C	2.87	0.47
35:BB:622:G:H4'	51:BR:139:TYR:CG	2.50	0.47
40:BG:95:U:H6	53:BT:62:ARG:HH22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:81:ARG:N	85:AA:2163:G:C5'	2.77	0.47
85:AA:151:A:C8	85:AA:152:A:C4	3.02	0.47
85:AA:424:A:C8	85:AA:424:A:O5'	2.68	0.47
85:AA:436:G:C6	85:AA:437:G:C5	3.03	0.47
85:AA:449:G:C6	85:AA:450:A:C4	3.02	0.47
85:AA:453:G:N1	85:AA:475:A:C2	2.83	0.47
85:AA:542:G:C5	85:AA:543:A:C8	3.03	0.47
85:AA:619:A:C2	85:AA:668:A:C4	3.03	0.47
35:BB:562:A:C6	35:BB:563:A:N1	2.83	0.47
35:BB:805:G:C5	35:BB:806:U:N3	2.83	0.47
35:BB:799:A:H2'	35:BB:972:C:C4'	2.45	0.47
85:AA:1117:G:H2'	85:AA:1118:U:O4'	2.15	0.47
85:AA:709:A:N6	85:AA:710:A:C6	2.83	0.47
85:AA:1139:G:C2	85:AA:1172:A:N3	2.82	0.47
17:AI:45:HIS:NE2	85:AA:2015:U:C5	2.83	0.47
21:AM:35:LYS:HG3	85:AA:2034:G:H4'	1.95	0.47
34:BA:594:G:N3	34:BA:684:G:C6	2.83	0.47
34:BA:605:G:H8	34:BA:605:G:O5'	1.97	0.47
35:BB:639:A:H5"	35:BB:640:A:C5'	2.42	0.47
34:BA:1489:U:C3'	34:BA:1489:U:C6	2.97	0.47
34:BA:1498:A:C6	34:BA:1499:A:C5	3.03	0.47
35:BB:136:A:C6	35:BB:366:G:C5	3.01	0.47
41:BH:20:A:N1	41:BH:21:G:C4	2.82	0.47
85:AA:1461:A:C6	85:AA:1462:A:C6	3.02	0.47
85:AA:1463:A:OP2	85:AA:1464:G:C8	2.67	0.47
85:AA:1287:C:N3	85:AA:1471:G:C2	2.83	0.47
85:AA:1666:U:H2'	85:AA:1667:C:O4'	2.15	0.47
85:AA:1695:G:C2	85:AA:1696:U:C2	3.02	0.47
85:AA:111:A:C5	85:AA:314:C:C2	3.03	0.47
85:AA:269:G:OP2	85:AA:269:G:C8	2.67	0.47
85:AA:274:A:C2	85:AA:275:A:O4'	2.68	0.47
85:AA:293:A:O5'	85:AA:293:A:C8	2.67	0.47
85:AA:975:G:C2	85:AA:976:G:C4	3.03	0.47
13:AE:39:LYS:NZ	13:AE:41:HIS:CE1	2.83	0.47
85:AA:584:G:C3'	85:AA:584:G:C8	2.97	0.47
85:AA:583:U:H2'	85:AA:611:G:H22	1.79	0.47
34:BA:1331:G:C2	34:BA:1332:U:N1	2.83	0.47
34:BA:1341:A:C6	34:BA:1342:C:C2	3.03	0.47
34:BA:1343:A:C2	40:BG:144:G:N7	2.83	0.47
40:BG:145:C:O5'	40:BG:145:C:C6	2.68	0.47
85:AA:75:U:C4	85:AA:76:G:H1'	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A4:119:ARG:CZ	85:AA:1109:G:C4	2.97	0.47
85:AA:814:G:H3'	85:AA:814:G:C8	2.49	0.47
85:AA:825:U:H1'	85:AA:827:C:C5	2.50	0.47
34:BA:524:G:C5	34:BA:525:A:N7	2.82	0.47
34:BA:580:U:C6	34:BA:580:U:H3'	2.50	0.47
34:BA:1123:G:N2	34:BA:1124:U:H1'	2.30	0.47
85:AA:1244:A:C4	85:AA:1245:U:C6	3.03	0.47
35:BB:478:G:C6	35:BB:479:U:C4	3.02	0.47
85:AA:1830:U:C2	85:AA:1831:U:C6	3.03	0.47
85:AA:1832:G:C4	85:AA:1843:A:N1	2.82	0.47
85:AA:1845:G:C6	85:AA:1846:G:C5	3.03	0.47
34:BA:1703:A:C8	34:BA:1703:A:H3'	2.49	0.47
34:BA:990:G:H2'	34:BA:991:U:C6	2.50	0.47
35:BB:460:C:C5	35:BB:461:U:O4	2.67	0.47
49:BP:98:ALA:CB	49:BP:102:PHE:CZ	2.97	0.47
34:BA:515:U:H1'	39:BF:3:A:C6	2.49	0.47
35:BB:1478:G:C6	35:BB:1479:C:C5	3.02	0.47
23:AP:163:THR:HG23	23:AP:205:ASP:O	2.14	0.47
85:AA:1303:U:OP2	85:AA:1351:U:C6	2.68	0.47
85:AA:1798:U:H1'	85:AA:1808:G:N7	2.30	0.47
5:A4:191:MET:O	5:A4:192:TRP:CE3	2.68	0.47
2:A1:211:SER:OG	2:A1:242:LEU:HD13	2.15	0.47
2:A1:139:HIS:CD2	2:A1:139:HIS:C	2.88	0.47
4:A3:49:TYR:CD2	4:A3:120:GLY:HA3	2.49	0.47
35:BB:711:C:H4'	35:BB:712:U:OP2	2.13	0.47
7:A6:94:TYR:CE2	7:A6:98:LEU:HD23	2.49	0.47
34:BA:997:U:C2	34:BA:998:U:C4	3.02	0.47
85:AA:1238:U:H2'	85:AA:1239:C:C6	2.49	0.47
86:AB:13:C:H2'	86:AB:22:G:N1	2.29	0.47
50:BQ:116:ARG:HG3	50:BQ:147:TYR:CE2	2.50	0.47
6:A5:109:PHE:N	6:A5:109:PHE:CD1	2.79	0.47
8:A7:116:ALA:HB1	8:A7:160:PHE:HB2	1.96	0.47
58:BY:83:GLU:CB	85:AA:2161:C:O4'	2.46	0.47
34:BA:1104:C:C2	34:BA:1149:C:N4	2.82	0.47
34:BA:115:U:O4	34:BA:326:A:H4'	2.14	0.47
34:BA:1260:G:C5	34:BA:1270:G:C2	3.02	0.47
34:BA:1473:A:C2	34:BA:1474:G:C1'	2.97	0.47
34:BA:1566:G:O5'	34:BA:1566:G:C8	2.68	0.47
34:BA:1042:U:H6	34:BA:1582:C:C5	2.32	0.47
34:BA:220:U:H2'	34:BA:221:G:C8	2.49	0.47
34:BA:233:U:C4	34:BA:234:A:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:248:G:C8	34:BA:437:G:C2	3.03	0.47
34:BA:363:G:H2'	34:BA:364:C:C6	2.50	0.47
34:BA:387:A:C6	34:BA:388:A:C6	3.03	0.47
34:BA:417:A:H5'	34:BA:419:U:H1'	1.97	0.47
34:BA:728:A:C2	34:BA:729:C:C6	3.02	0.47
34:BA:741:A:C8	34:BA:742:C:C6	3.02	0.47
34:BA:743:A:C8	34:BA:743:A:C1'	2.84	0.47
34:BA:763:U:H6	34:BA:770:G:H1'	1.73	0.47
35:BB:1081:U:C4	35:BB:1082:A:C6	3.03	0.47
35:BB:1209:A:C8	35:BB:1258:G:C2	3.03	0.47
35:BB:1210:U:H3'	35:BB:1211:C:C5	2.49	0.47
35:BB:133:G:C2	35:BB:134:G:C4	3.02	0.47
35:BB:1459:U:O2	35:BB:1461:C:C5'	2.62	0.47
35:BB:72:G:C2	35:BB:73:G:C4	3.02	0.47
36:BC:137:C:C4	36:BC:138:C:C4	3.03	0.47
36:BC:41:A:C6	36:BC:42:G:C5	3.03	0.47
37:BD:51:G:H3'	37:BD:52:U:C6	2.50	0.47
37:BD:68:C:C4	37:BD:69:U:C5	3.03	0.47
38:BE:144:A:C6	38:BE:145:A:C4	3.02	0.47
38:BE:30:C:C5	38:BE:31:A:C5	3.03	0.47
38:BE:4:A:C8	38:BE:4:A:H3'	2.49	0.47
40:BG:119:A:C4	40:BG:122:G:C8	3.02	0.47
40:BG:28:A:C2	40:BG:178:G:C6	3.02	0.47
40:BG:25:G:C2	40:BG:26:G:C4	3.02	0.47
40:BG:34:A:N3	40:BG:169:A:C4	2.82	0.47
35:BB:1358:A:C2	40:BG:54:G:O4'	2.67	0.47
41:BH:111:U:C5	41:BH:112:U:C5	3.03	0.47
41:BH:38:G:O6	41:BH:114:G:C5	2.67	0.47
41:BH:28:U:C4	41:BH:29:G:N7	2.82	0.47
41:BH:2:U:C6	41:BH:2:U:H3'	2.49	0.47
41:BH:98:U:C6	55:BV:59:GLY:CA	2.86	0.47
56:BW:98:GLU:CD	58:BY:21:TYR:CZ	2.88	0.47
58:BY:83:GLU:CB	85:AA:2161:C:H4'	2.45	0.47
34:BA:1098:G:C4	34:BA:1157:A:C6	3.02	0.47
34:BA:1230:G:C4	34:BA:1231:C:C6	3.02	0.47
34:BA:1327:G:C6	34:BA:1415:C:N3	2.83	0.47
34:BA:1553:G:C2	34:BA:1557:G:N1	2.82	0.47
34:BA:1572:G:H2'	34:BA:1573:C:C6	2.50	0.47
34:BA:1627:U:C4	34:BA:1628:A:C6	3.02	0.47
34:BA:170:U:C2	34:BA:171:U:C6	3.02	0.47
34:BA:1844:U:C2	34:BA:1845:G:C8	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:188:C:O5'	34:BA:188:C:H6	1.98	0.47
34:BA:165:C:H42	34:BA:323:C:H5"	1.80	0.47
34:BA:400:A:N1	36:BC:28:C:N3	2.62	0.47
34:BA:248:G:H1'	34:BA:437:G:N7	2.28	0.47
34:BA:455:A:H5"	51:BR:16:LYS:O	2.14	0.47
34:BA:443:U:C4	34:BA:466:G:C4	3.03	0.47
34:BA:57:A:N1	34:BA:58:A:C4	2.83	0.47
34:BA:745:A:C4	34:BA:746:C:C6	3.02	0.47
34:BA:795:G:C4	34:BA:796:G:C8	3.03	0.47
34:BA:805:A:H2'	34:BA:807:U:OP1	2.14	0.47
34:BA:94:G:C5	34:BA:95:C:C5	3.02	0.47
35:BB:108:G:C5	35:BB:109:U:O4	2.67	0.47
35:BB:1214:U:H2'	35:BB:1215:U:C5	2.49	0.47
35:BB:1098:G:C6	35:BB:1254:G:C2	3.03	0.47
35:BB:1337:C:C5	35:BB:1338:U:C5	3.03	0.47
35:BB:1358:A:C5	35:BB:1359:G:N7	2.83	0.47
35:BB:1367:U:C5	35:BB:1368:A:C8	3.03	0.47
35:BB:1445:A:C6	35:BB:1446:C:C4	3.02	0.47
35:BB:377:A:C6	35:BB:378:C:C4	3.01	0.47
35:BB:428:G:H2'	35:BB:429:C:H6	1.75	0.47
34:BA:1845:G:C2	35:BB:5:A:N1	2.82	0.47
35:BB:790:A:C6	35:BB:1033:U:C5	3.03	0.47
34:BA:15:G:C4	36:BC:153:C:C2	3.02	0.47
38:BE:110:U:H2'	38:BE:111:C:O4'	2.15	0.47
38:BE:45:G:H3'	38:BE:46:G:H8	1.78	0.47
38:BE:73:A:C2	38:BE:74:U:C2	3.03	0.47
39:BF:19:A:H61	39:BF:57:C:H42	1.63	0.47
40:BG:133:C:C4	40:BG:157:A:C8	3.02	0.47
41:BH:2:U:H6	41:BH:2:U:H3'	1.80	0.47
41:BH:54:U:C2	41:BH:55:C:C5	3.03	0.47
41:BH:69:C:C4	41:BH:70:U:C5	3.03	0.47
47:BN:199:PHE:HB3	47:BN:206:ARG:HD2	1.96	0.47
50:BQ:70:TYR:CE1	50:BQ:76:TYR:CD2	3.03	0.47
36:BC:83:A:C2	59:BZ:110:THR:CG2	2.98	0.47
34:BA:565:U:H3'	34:BA:565:U:C6	2.50	0.47
34:BA:540:G:N2	34:BA:567:U:H3	2.08	0.47
34:BA:564:C:N4	34:BA:565:U:C4	2.83	0.47
4:A3:83:VAL:HG22	85:AA:166:C:H5"	1.97	0.47
85:AA:2132:A:N3	85:AA:2133:A:C8	2.82	0.47
85:AA:2133:A:C2	85:AA:2186:U:O2	2.67	0.47
85:AA:354:C:N3	85:AA:355:G:C8	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:485:A:C6	85:AA:486:G:C5	3.02	0.47
85:AA:55:A:C6	85:AA:491:G:C5	3.03	0.47
85:AA:596:A:C4	85:AA:597:A:C8	3.02	0.47
85:AA:637:U:N3	85:AA:638:G:C6	2.82	0.47
85:AA:639:C:H1'	85:AA:650:G:C2	2.50	0.47
85:AA:662:U:C3'	85:AA:662:U:C6	2.98	0.47
85:AA:691:U:C4	85:AA:1470:A:C4	3.03	0.47
34:BA:619:U:N3	34:BA:620:C:C4	2.82	0.47
35:BB:555:G:N1	35:BB:556:U:C4	2.83	0.47
4:A3:1:MET:SD	4:A3:2:LYS:O	2.73	0.47
4:A3:60:GLU:CD	85:AA:483:G:C8	2.88	0.47
85:AA:1271:U:C5	85:AA:1272:G:C6	3.03	0.47
85:AA:179:G:C6	85:AA:331:G:OP2	2.67	0.47
85:AA:355:G:H2'	85:AA:356:U:C6	2.50	0.47
85:AA:497:G:C6	85:AA:498:C:C4	3.02	0.47
85:AA:631:G:H2'	85:AA:633:C:C4	2.50	0.47
85:AA:668:A:H4'	85:AA:669:G:O5'	2.15	0.47
85:AA:90:A:H5"	85:AA:91:U:OP2	2.14	0.47
85:AA:924:A:C2	85:AA:925:G:H1'	2.50	0.47
85:AA:925:G:C4	85:AA:926:C:C5	3.03	0.47
85:AA:47:A:C2	85:AA:97:A:C4	3.03	0.47
32:AY:23:LYS:HD3	85:AA:660:G:H5"	1.97	0.47
34:BA:627:U:H1'	34:BA:629:G:O6	2.14	0.47
34:BA:630:U:C2	34:BA:652:C:N4	2.83	0.47
35:BB:526:A:H61	85:AA:2112:G:HO2'	1.48	0.47
35:BB:794:G:C4	35:BB:795:A:C8	3.03	0.47
35:BB:812:G:N2	35:BB:828:G:H1'	2.29	0.47
35:BB:837:A:H4'	35:BB:1026:G:C6	2.50	0.47
85:AA:708:G:N2	85:AA:1215:A:C4	2.83	0.47
15:AG:49:ARG:NH2	15:AG:52:MET:HB3	2.30	0.47
35:BB:1198:C:N3	35:BB:1199:A:C5	2.82	0.47
35:BB:518:G:C4	35:BB:533:U:O2	2.68	0.47
35:BB:466:A:C5	35:BB:537:A:C4	3.03	0.47
35:BB:537:A:C6	35:BB:538:A:C6	3.02	0.47
35:BB:466:A:C5	35:BB:467:G:C8	3.02	0.47
35:BB:530:C:C5'	85:AA:2231:G:C2'	2.89	0.47
85:AA:1139:G:C3'	85:AA:1140:G:H5"	2.44	0.47
85:AA:1650:G:H1	85:AA:1875:A:H61	1.62	0.47
85:AA:2020:C:C4	85:AA:2021:A:C5	3.02	0.47
85:AA:2041:G:H5"	85:AA:2042:G:OP1	2.15	0.47
17:AI:107:ARG:HD3	85:AA:1560:A:C5	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:603:U:C4	34:BA:1492:G:C8	3.03	0.47
34:BA:678:C:H2'	34:BA:679:U:O4'	2.15	0.47
34:BA:519:G:N7	34:BA:683:C:H4'	2.29	0.47
22:AO:74:CYS:HA	22:AO:124:LEU:HD11	1.97	0.47
34:BA:1241:U:H3'	34:BA:1242:A:H8	1.79	0.47
35:BB:665:A:N6	35:BB:1404:A:C8	2.82	0.47
34:BA:1488:C:C5	34:BA:1489:U:C4	3.03	0.47
34:BA:1498:A:H2'	34:BA:1499:A:O4'	2.15	0.47
35:BB:1493:A:C2	35:BB:1514:G:N3	2.83	0.47
85:AA:124:A:C4	85:AA:185:A:C6	3.03	0.47
85:AA:192:G:H1'	85:AA:193:C:C5	2.50	0.47
85:AA:186:U:H3'	85:AA:186:U:H6	1.75	0.47
85:AA:1527:G:C6	85:AA:2219:G:N7	2.83	0.47
85:AA:10:G:N1	85:AA:11:A:C4	2.83	0.47
85:AA:283:A:C2	85:AA:287:G:C6	3.03	0.47
85:AA:281:C:H5"	85:AA:282:C:OP2	2.14	0.47
85:AA:548:G:C8	85:AA:548:G:H3'	2.50	0.47
85:AA:2076:C:C4	85:AA:2077:G:C6	3.03	0.47
85:AA:774:C:C2	85:AA:775:C:C6	3.03	0.47
85:AA:888:A:H2'	85:AA:889:G:H8	1.80	0.47
34:BA:1341:A:C6	34:BA:1404:A:C4	3.03	0.47
85:AA:366:A:C4	85:AA:367:A:C8	3.02	0.47
13:AE:73:LYS:HZ2	85:AA:392:G:P	2.38	0.47
85:AA:439:U:H3'	85:AA:439:U:C6	2.49	0.47
85:AA:421:G:C2	85:AA:422:G:C4	3.03	0.47
85:AA:524:A:C6	85:AA:525:C:H1'	2.49	0.47
85:AA:524:A:N1	85:AA:525:C:H1'	2.30	0.47
85:AA:68:A:C4	85:AA:81:A:C2	3.02	0.47
85:AA:69:C:C2	85:AA:70:U:C6	3.02	0.47
85:AA:817:G:H2'	85:AA:818:C:C6	2.50	0.47
34:BA:1001:G:C2	34:BA:1002:U:C6	3.03	0.47
35:BB:554:C:C2	35:BB:565:U:O4'	2.68	0.47
39:BF:42:G:C8	39:BF:44:C:OP2	2.68	0.47
34:BA:523:A:H61	34:BA:590:U:H3	1.62	0.47
34:BA:1123:G:C2	34:BA:1124:U:N1	2.83	0.47
34:BA:1122:G:O6	34:BA:1123:G:C6	2.68	0.47
85:AA:1792:C:H3'	85:AA:1793:A:C5'	2.45	0.47
34:BA:228:A:H2'	34:BA:229:C:H6	1.80	0.47
35:BB:480:C:N3	35:BB:501:G:C6	2.83	0.47
35:BB:501:G:C4	35:BB:502:C:C6	3.02	0.47
35:BB:503:G:C8	35:BB:504:C:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1299:A:C6	85:AA:1444:U:N3	2.83	0.47
35:BB:683:U:C2	35:BB:1263:A:C2	3.03	0.47
35:BB:874:G:C6	35:BB:961:G:C6	3.03	0.47
35:BB:1379:U:C6	35:BB:1379:U:C3'	2.98	0.47
35:BB:1384:A:C4	35:BB:1385:C:C6	3.03	0.47
35:BB:406:A:C4	47:BN:3:LYS:CG	64.79	0.47
35:BB:1488:G:C6	35:BB:1489:A:N7	2.82	0.47
35:BB:648:G:C6	35:BB:649:A:C5	3.02	0.47
35:BB:637:G:C6	35:BB:638:G:C6	3.03	0.47
35:BB:644:A:C8	35:BB:644:A:O5'	2.67	0.47
5:A4:159:LEU:HB2	5:A4:190:PHE:CE2	2.50	0.47
85:AA:1648:G:C6	85:AA:1649:U:C4	3.02	0.47
86:AB:7:A:N3	86:AB:49:C:C2	2.83	0.47
40:BG:114:A:C2	40:BG:115:C:H1'	2.50	0.47
35:BB:890:U:C4	35:BB:891:U:C4	3.03	0.47
34:BA:1315:C:C4	34:BA:1316:G:C5	3.02	0.47
34:BA:1317:U:C6	34:BA:1317:U:H3'	2.50	0.47
6:A5:116:HIS:CD2	6:A5:117:TYR:CE1	3.01	0.47
85:AA:1345:C:O2'	85:AA:1346:C:H5'	2.15	0.47
4:A3:211:GLU:HA	4:A3:211:GLU:OE1	2.15	0.47
34:BA:559:C:OP2	34:BA:559:C:C6	2.68	0.47
18:AJ:28:ARG:NE	85:AA:1113:G:C4	2.82	0.47
85:AA:1872:G:N7	85:AA:1873:U:C6	2.83	0.47
24:AQ:19:VAL:HG22	24:AQ:111:ILE:HG22	1.96	0.47
23:AP:92:LEU:CB	23:AP:111:PHE:CD1	2.97	0.47
31:AX:16:PHE:CE1	31:AX:20:LEU:HD11	2.49	0.47
1:A0:29:TRP:CD1	16:AH:11:GLY:HA3	2.49	0.47
5:A4:130:ILE:HA	5:A4:133:ASP:OD2	2.15	0.47
85:AA:1024:G:C6	85:AA:1025:U:C4	3.02	0.47
51:BR:45:GLN:CD	51:BR:114:ILE:H	2.18	0.47
15:AG:130:ARG:HB2	15:AG:135:LEU:HD12	1.96	0.47
16:AH:78:CYS:HA	16:AH:81:CYS:SG	2.54	0.47
34:BA:1028:A:C2	34:BA:1029:C:C2	3.03	0.47
34:BA:1055:U:H2'	34:BA:1056:C:C6	2.49	0.47
34:BA:1195:G:H2'	34:BA:1196:C:C6	2.50	0.47
34:BA:1330:G:N3	34:BA:1412:G:C2	2.82	0.47
34:BA:1320:A:C5	34:BA:1419:A:C4	3.03	0.47
34:BA:1433:U:O5'	34:BA:1433:U:C6	2.67	0.47
34:BA:1460:U:C6	34:BA:1460:U:O5'	2.68	0.47
34:BA:1542:A:N6	34:BA:1543:A:C4	2.83	0.47
34:BA:1578:A:C5	34:BA:1580:U:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1625:C:C4	34:BA:1626:U:C4	3.02	0.47
34:BA:1673:G:N1	34:BA:1680:G:C4	2.83	0.47
34:BA:1709:A:N1	34:BA:1721:U:N3	2.63	0.47
34:BA:1729:G:C6	34:BA:1794:A:C5	3.03	0.47
34:BA:1731:A:N7	34:BA:1732:A:C6	2.83	0.47
34:BA:1746:G:H1	34:BA:1778:U:H3	1.63	0.47
34:BA:1797:A:H4'	34:BA:1798:G:O4'	2.15	0.47
34:BA:186:G:N1	34:BA:187:G:C5	2.83	0.47
34:BA:325:A:H2'	34:BA:326:A:H4'	1.96	0.47
34:BA:325:A:H2'	34:BA:326:A:H5'	1.97	0.47
34:BA:339:G:C6	34:BA:340:U:O4	2.68	0.47
34:BA:346:A:N6	34:BA:369:A:C8	2.82	0.47
34:BA:419:U:C5	34:BA:429:G:N2	2.83	0.47
34:BA:423:G:C6	34:BA:427:G:N1	2.82	0.47
34:BA:420:A:C2	34:BA:430:A:C4	3.03	0.47
34:BA:455:A:H5"	51:BR:17:ALA:HA	1.97	0.47
34:BA:490:A:H2'	34:BA:491:U:C2	2.50	0.47
34:BA:27:G:C2	34:BA:52:G:C4	3.02	0.47
34:BA:700:G:C2	34:BA:701:G:C8	3.02	0.47
34:BA:71:G:C6	34:BA:72:U:C5	3.02	0.47
34:BA:982:A:C6	34:BA:1020:A:C5	3.03	0.47
35:BB:1075:A:C5	35:BB:1076:U:N1	2.82	0.47
35:BB:1082:A:O4'	35:BB:1083:C:C4	2.68	0.47
35:BB:1133:C:N4	35:BB:1134:G:C6	2.83	0.47
35:BB:1141:A:C5	35:BB:1142:C:C5	3.03	0.47
35:BB:34:G:C4	35:BB:35:G:C8	3.02	0.47
35:BB:133:G:C2	35:BB:369:A:C4	3.02	0.47
35:BB:376:A:H2'	35:BB:377:A:H8	1.77	0.47
35:BB:85:A:C6	35:BB:91:G:C4	3.02	0.47
36:BC:119:G:N1	36:BC:145:G:C6	2.82	0.47
36:BC:147:G:C6	36:BC:148:C:N3	2.83	0.47
36:BC:3:C:C2	36:BC:4:G:C8	3.02	0.47
37:BD:32:A:N3	37:BD:46:G:C2	2.83	0.47
38:BE:122:G:C4	38:BE:123:A:C8	3.03	0.47
39:BF:19:A:N1	39:BF:58:U:C6	2.83	0.47
40:BG:15:G:N1	40:BG:16:G:C4	2.82	0.47
40:BG:33:G:C4	40:BG:168:A:N1	2.83	0.47
40:BG:34:A:H3'	40:BG:35:G:H8	1.77	0.47
41:BH:104:U:C5	41:BH:105:U:C4	3.03	0.47
41:BH:5:G:C2	41:BH:131:A:C2	3.03	0.47
41:BH:28:U:H3	41:BH:127:A:H61	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:30:C:N4	41:BH:31:A:C6	2.83	0.47
41:BH:34:G:C5	41:BH:121:A:C2	3.02	0.47
41:BH:40:C:C6	41:BH:41:A:C8	3.03	0.47
85:AA:125:A:C4	85:AA:126:U:C2	3.02	0.47
85:AA:2193:A:C2	85:AA:2194:U:C2	3.02	0.47
85:AA:105:A:C4	85:AA:373:G:N2	2.83	0.47
85:AA:41:G:C8	85:AA:41:G:OP1	2.68	0.47
85:AA:466:A:H2'	85:AA:466:A:N3	2.29	0.47
85:AA:33:U:C4	85:AA:538:A:C6	3.03	0.47
85:AA:597:A:C6	85:AA:598:C:C5	3.03	0.47
85:AA:639:C:C4	85:AA:651:G:C6	3.03	0.47
85:AA:678:A:N6	85:AA:679:A:C6	2.82	0.47
85:AA:699:U:O5'	85:AA:699:U:C6	2.68	0.47
23:AP:189:VAL:HA	85:AA:3:U:OP1	2.15	0.47
35:BB:567:G:C5	35:BB:568:A:N7	2.83	0.47
35:BB:832:C:C4	35:BB:833:G:C5	3.03	0.47
35:BB:835:C:H2'	35:BB:836:U:C5	2.49	0.47
35:BB:844:G:N2	35:BB:969:C:H1'	2.30	0.47
85:AA:959:C:C3'	85:AA:960:G:C8	2.96	0.47
35:BB:522:A:O2'	85:AA:2208:G:O2'	2.31	0.47
5:A4:3:ALA:HB2	5:A4:47:HIS:NE2	2.29	0.47
15:AG:77:HIS:CG	85:AA:1108:U:O4	2.68	0.47
85:AA:1875:A:C2	85:AA:1876:U:O2	2.68	0.47
85:AA:1877:G:C5	85:AA:1878:C:C4	3.03	0.47
34:BA:253:U:C5	34:BA:254:U:C5	3.02	0.47
34:BA:257:G:C4	34:BA:258:C:C5	3.03	0.47
34:BA:266:G:C2	34:BA:267:G:N9	2.83	0.47
34:BA:683:C:H5'	34:BA:1492:G:OP1	2.15	0.47
85:AA:605:A:N7	85:AA:608:A:H5"	2.30	0.47
35:BB:641:C:C2	35:BB:1399:A:N6	2.83	0.47
85:AA:248:U:C4	85:AA:249:C:C5	3.03	0.47
35:BB:363:A:O5'	53:BT:143:HIS:CE1	2.68	0.47
85:AA:1286:C:O2	85:AA:1286:C:H2'	2.15	0.47
85:AA:1452:C:H2'	85:AA:1453:U:C6	2.50	0.47
85:AA:2138:G:H2'	85:AA:2139:G:O4'	2.14	0.47
85:AA:976:G:C2	85:AA:977:U:C6	3.03	0.47
85:AA:562:C:C6	85:AA:564:A:OP2	2.68	0.47
85:AA:550:G:C2	85:AA:579:U:O2	2.67	0.47
85:AA:1923:A:C5	85:AA:1990:U:O2	2.68	0.47
85:AA:799:G:H3'	85:AA:800:A:C8	2.50	0.47
85:AA:886:A:OP2	85:AA:886:A:C8	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1335:A:H3'	34:BA:1336:U:C6	2.50	0.47
34:BA:1338:G:C4	34:BA:1404:A:C6	3.03	0.47
85:AA:399:A:C2	85:AA:400:G:C5	3.03	0.47
85:AA:381:A:N1	85:AA:416:U:C5	2.82	0.47
85:AA:65:A:C5	85:AA:66:U:O2	2.68	0.47
35:BB:1430:G:C6	35:BB:1431:G:C6	3.03	0.47
35:BB:751:A:H1'	86:AB:56:C:H42	1.80	0.47
85:AA:761:G:C4	85:AA:1036:A:C5	3.03	0.47
34:BA:578:C:O2'	34:BA:579:U:H5'	2.14	0.47
85:AA:1007:G:C6	85:AA:1008:C:C4	3.03	0.47
34:BA:514:U:C4	34:BA:515:U:C4	3.02	0.47
34:BA:515:U:H2'	34:BA:516:U:C6	2.50	0.47
35:BB:13:A:C8	35:BB:13:A:H3'	2.49	0.47
35:BB:635:A:C6	35:BB:636:G:C5	3.03	0.47
5:A4:143:ARG:HB3	5:A4:145:TRP:NE1	2.30	0.47
86:AB:7:A:C6	86:AB:67:C:C2	3.03	0.47
4:A3:49:TYR:HB3	4:A3:51:PHE:CE1	2.50	0.47
40:BG:116:G:C5	40:BG:117:C:C6	3.03	0.47
34:BA:736:G:N1	34:BA:901:C:C2	2.83	0.47
85:AA:1903:G:C5	85:AA:1904:C:C5	3.02	0.47
23:AP:249:PRO:CD	23:AP:250:THR:H	2.22	0.47
35:BB:861:C:H4'	35:BB:862:U:C5'	2.44	0.47
8:A7:250:TYR:CD2	8:A7:265:LEU:HB2	2.49	0.47
85:AA:1029:G:C5	85:AA:1041:U:C4	3.02	0.47
8:A7:146:LEU:HD12	8:A7:146:LEU:H	1.80	0.47
44:BK:170:TYR:CD2	44:BK:175:ASN:HA	2.50	0.47
45:BL:161:VAL:HG22	45:BL:162:ARG:H	1.80	0.47
86:AB:58:A:H1'	86:AB:60:U:C5	2.49	0.47
26:AS:100:VAL:HG12	26:AS:125:VAL:HA	1.97	0.47
85:AA:2155:U:H3	85:AA:2163:G:H1	1.62	0.47
34:BA:1102:A:C6	34:BA:1103:G:C5	3.02	0.47
34:BA:1114:G:C6	34:BA:1115:A:C5	3.03	0.47
34:BA:1223:C:C2'	34:BA:1224:A:C8	2.98	0.47
34:BA:1327:G:C4	34:BA:1328:U:C6	3.03	0.47
34:BA:135:G:C6	34:BA:136:A:C6	3.03	0.47
34:BA:1421:A:H1'	34:BA:1422:A:C2	2.49	0.47
34:BA:1438:C:C4	34:BA:1439:C:C5	3.02	0.47
34:BA:1300:G:C5	34:BA:1440:C:N3	2.83	0.47
34:BA:1531:G:C2	34:BA:1532:G:C5	3.03	0.47
34:BA:1616:A:H4'	34:BA:1617:U:N3	2.29	0.47
34:BA:1727:A:C4	57:BX:54:PHE:CE2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1739:G:C2	34:BA:1785:G:N1	2.72	0.47
34:BA:188:C:H3'	34:BA:189:G:C8	2.49	0.47
34:BA:216:C:C4	34:BA:217:C:C4	3.03	0.47
34:BA:232:U:C4	34:BA:233:U:C5	3.03	0.47
34:BA:27:G:C4	34:BA:52:G:N1	2.83	0.47
34:BA:321:G:C5	34:BA:322:U:C5	3.03	0.47
34:BA:108:A:C2	34:BA:386:A:N7	2.83	0.47
34:BA:402:G:C2	34:BA:404:C:C5	3.03	0.47
34:BA:463:A:C6	34:BA:466:G:C4	3.03	0.47
34:BA:57:A:C2	34:BA:58:A:C4	3.03	0.47
34:BA:755:G:H3'	34:BA:755:G:C8	2.50	0.47
34:BA:785:G:C6	34:BA:786:U:C2	3.03	0.47
35:BB:1128:U:O5'	35:BB:1128:U:H6	1.98	0.47
35:BB:1337:C:H2'	35:BB:1338:U:C6	2.50	0.47
36:BC:117:A:H2'	36:BC:118:U:C6	2.49	0.47
36:BC:120:G:H2'	36:BC:121:G:C8	2.49	0.47
34:BA:18:G:H1	36:BC:149:A:N6	2.13	0.47
36:BC:27:U:C2	36:BC:28:C:C5	3.03	0.47
37:BD:87:G:C2	37:BD:91:U:N3	2.83	0.47
38:BE:101:C:N3	38:BE:117:A:C2	2.83	0.47
38:BE:107:U:C5	38:BE:108:U:H5	2.32	0.47
38:BE:13:A:H3'	38:BE:14:C:H6	1.79	0.47
38:BE:148:C:H2'	38:BE:149:A:O4'	2.14	0.47
38:BE:179:A:C5'	38:BE:182:U:H3	2.27	0.47
38:BE:96:G:C4	38:BE:97:G:C8	3.03	0.47
40:BG:166:C:C2	40:BG:167:C:H5	2.33	0.47
40:BG:78:C:H5"	40:BG:79:U:OP2	2.15	0.47
40:BG:87:G:N2	40:BG:88:G:C4	2.83	0.47
41:BH:111:U:C6	41:BH:112:U:C5	3.02	0.47
41:BH:35:G:C8	41:BH:36:C:C5	3.03	0.47
41:BH:44:A:C2	41:BH:45:G:H1'	2.50	0.47
41:BH:7:C:C6	41:BH:8:C:C6	3.03	0.47
44:BK:38:LYS:O	44:BK:86:HIS:CD2	2.68	0.47
34:BA:65:A:H5"	50:BQ:194:LYS:HA	1.97	0.47
57:BX:80:ASP:CG	57:BX:81:ALA:N	2.69	0.47
7:A6:18:PHE:CD2	85:AA:629:A:C8	3.03	0.47
85:AA:1268:C:H2'	85:AA:1269:A:O4'	2.14	0.47
85:AA:474:C:C4	85:AA:475:A:N7	2.83	0.47
85:AA:53:G:C6	85:AA:493:A:N1	2.83	0.47
7:A6:18:PHE:CB	85:AA:628:C:H4'	2.44	0.47
85:AA:652:U:C6	85:AA:652:U:O5'	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:22:A:N6	85:AA:678:A:C6	2.83	0.47
35:BB:839:G:H4'	35:BB:1025:A:C6	2.50	0.47
35:BB:804:U:H2'	35:BB:805:G:C4'	2.44	0.47
35:BB:963:G:C2	35:BB:964:G:C4	3.03	0.47
85:AA:1186:C:C2	85:AA:1187:G:C8	3.03	0.47
35:BB:1164:U:C2	35:BB:1188:A:C2	3.03	0.47
35:BB:1190:U:C2	35:BB:1191:G:C8	3.03	0.47
85:AA:874:A:C2	85:AA:875:C:N1	2.83	0.47
85:AA:939:A:C3'	85:AA:939:A:C4	2.94	0.47
85:AA:1652:A:C2	85:AA:1877:G:C1'	2.98	0.47
17:AI:45:HIS:HA	85:AA:2015:U:OP2	2.15	0.47
85:AA:2042:G:N1	85:AA:2043:A:C6	2.82	0.47
22:AO:36:SER:HA	22:AO:39:PHE:CD2	2.50	0.47
34:BA:1695:G:C4	34:BA:1696:G:C8	3.02	0.47
34:BA:1697:U:OP2	34:BA:1697:U:H2'	2.14	0.47
34:BA:596:G:H1'	34:BA:1494:G:N1	2.30	0.47
27:AT:69:THR:HG21	85:AA:600:C:C2	2.49	0.47
85:AA:240:A:C2	85:AA:242:G:C2	3.02	0.47
85:AA:188:G:C8	85:AA:252:G:C2	3.03	0.47
85:AA:322:A:C6	85:AA:323:U:C4	3.03	0.47
85:AA:1290:G:C2	85:AA:1291:A:C5	3.03	0.47
85:AA:1456:A:C3'	85:AA:1456:A:C8	2.97	0.47
85:AA:1464:G:C2	85:AA:1465:C:C2	3.02	0.47
85:AA:1516:A:H2'	85:AA:1517:G:O4'	2.14	0.47
85:AA:2141:G:C2	85:AA:2142:A:C8	3.03	0.47
85:AA:1618:G:H3'	85:AA:1619:A:H8	1.77	0.47
85:AA:271:A:C2	85:AA:272:C:C6	3.03	0.47
85:AA:984:A:C2	85:AA:985:G:N9	2.83	0.47
85:AA:285:C:C4	85:AA:286:C:C5	3.03	0.47
85:AA:576:U:H2'	85:AA:577:U:H5"	1.95	0.47
85:AA:2059:A:H3'	85:AA:2060:G:H8	1.79	0.47
85:AA:720:A:C4	85:AA:781:G:C2	3.03	0.47
85:AA:720:A:C6	85:AA:781:G:C6	3.03	0.47
85:AA:722:G:N7	85:AA:723:U:C4	2.83	0.47
85:AA:790:A:OP1	85:AA:793:C:C5	2.67	0.47
35:BB:1066:G:C6	35:BB:1067:G:C6	3.03	0.47
85:AA:886:A:C2	85:AA:887:A:H4'	2.49	0.47
85:AA:890:U:O2	85:AA:918:U:C5	2.68	0.47
34:BA:1409:A:H2'	34:BA:1410:C:C6	2.50	0.47
85:AA:118:C:N3	85:AA:119:G:C6	2.83	0.47
85:AA:378:A:N3	85:AA:380:C:H3'	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:420:C:C2	85:AA:421:G:C8	3.02	0.47
85:AA:519:A:H2'	85:AA:521:A:N7	2.30	0.47
35:BB:997:G:O6	35:BB:998:G:C5	2.68	0.47
34:BA:1093:G:N2	34:BA:1165:A:C4	2.83	0.47
35:BB:1415:G:C6	35:BB:1434:G:N1	2.83	0.47
34:BA:1136:A:C5	34:BA:1137:U:C6	3.02	0.47
34:BA:923:C:C6	34:BA:923:C:O5'	2.68	0.47
35:BB:1401:G:C5	35:BB:1402:U:N3	2.82	0.47
34:BA:1429:A:C2	34:BA:1430:C:H1'	2.50	0.47
85:AA:1257:A:N3	85:AA:1257:A:C2'	2.78	0.47
23:AP:43:TRP:CE2	23:AP:75:GLN:HB2	2.48	0.47
85:AA:1934:A:C2	85:AA:1935:G:C4	3.03	0.47
85:AA:1089:G:C5	85:AA:1090:A:C8	3.03	0.47
35:BB:1174:C:N3	35:BB:1176:G:C6	2.83	0.47
85:AA:1732:G:C6	85:AA:1733:G:C5	3.03	0.47
35:BB:643:G:C5	35:BB:644:A:N6	2.82	0.47
5:A4:191:MET:SD	5:A4:192:TRP:N	2.88	0.47
34:BA:1339:G:H5"	34:BA:1340:G:C8	2.50	0.47
85:AA:1968:A:C5	85:AA:1969:A:C4	3.03	0.47
34:BA:901:C:N3	34:BA:902:C:C5	2.83	0.47
26:AS:27:TRP:NE1	26:AS:31:HIS:CE1	2.82	0.47
29:AV:91:ARG:CZ	85:AA:2248:A:C6	2.98	0.47
85:AA:1488:G:N2	85:AA:1512:U:H1'	2.29	0.47
56:BW:56:LEU:HD22	56:BW:121:ALA:HB2	1.96	0.47
20:AL:85:VAL:HB	20:AL:86:PRO:HD3	1.96	0.47
56:BW:122:LYS:HB2	56:BW:139:VAL:HG21	1.97	0.47
34:BA:1007:G:C5	34:BA:1024:A:N7	2.83	0.47
34:BA:1082:U:H1'	34:BA:1206:C:C6	2.49	0.47
34:BA:10:G:C2	34:BA:11:U:C4	3.02	0.47
34:BA:1223:C:O2'	34:BA:1224:A:C8	2.64	0.47
34:BA:1790:U:P	34:BA:1790:U:H6	2.38	0.47
34:BA:248:G:H1'	34:BA:437:G:C6	2.49	0.47
34:BA:24:C:O5'	34:BA:24:C:C6	2.68	0.47
34:BA:300:C:N3	34:BA:301:U:C6	2.83	0.47
34:BA:337:C:N3	34:BA:338:U:C4	2.83	0.47
34:BA:491:U:H2'	34:BA:492:G:H5'	1.97	0.47
34:BA:55:G:H21	34:BA:57:A:H1'	1.80	0.47
34:BA:758:G:C8	34:BA:759:A:N9	2.83	0.47
34:BA:825:G:C6	34:BA:826:C:C4	3.03	0.47
35:BB:1153:G:C5	35:BB:1154:C:C4	3.03	0.47
35:BB:1254:G:O4'	35:BB:1256:C:C2	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:130:G:C6	35:BB:131:A:C5	3.03	0.47
35:BB:1335:G:O6	35:BB:1336:G:C6	2.68	0.47
35:BB:403:U:H3	35:BB:413:A:H61	1.62	0.47
35:BB:413:A:C2	35:BB:414:C:C2	3.03	0.47
35:BB:620:G:N2	35:BB:621:C:H1'	2.30	0.47
35:BB:624:A:H2'	35:BB:625:A:H8	1.80	0.47
36:BC:132:U:H2'	36:BC:133:C:O4'	2.15	0.47
36:BC:145:G:C6	36:BC:146:U:C5	3.03	0.47
36:BC:147:G:C2	36:BC:148:C:C2	3.03	0.47
36:BC:24:G:H3'	36:BC:25:C:C6	2.49	0.47
36:BC:49:G:C6	36:BC:50:C:C4	3.02	0.47
36:BC:88:A:O5'	36:BC:88:A:C8	2.68	0.47
37:BD:31:U:C4	37:BD:32:A:N7	2.83	0.47
37:BD:56:G:H3'	37:BD:57:C:C5	2.49	0.47
37:BD:74:A:H4'	37:BD:76:U:H1'	1.96	0.47
38:BE:165:U:C3'	38:BE:166:G:H8	2.28	0.47
38:BE:201:A:N7	38:BE:202:C:C5	2.82	0.47
38:BE:45:G:C5	38:BE:46:G:N7	2.82	0.47
38:BE:93:U:C2	38:BE:94:U:C4	3.03	0.47
39:BF:58:U:C6	39:BF:58:U:O5'	2.68	0.47
39:BF:64:U:H5'	49:BP:119:SER:HB2	1.97	0.47
35:BB:1350:A:C8	40:BG:158:A:N7	2.83	0.47
41:BH:68:G:C2	41:BH:69:C:C2	3.02	0.47
45:BL:27:ASN:OD1	45:BL:73:ALA:HB1	2.15	0.47
7:A6:18:PHE:HB2	85:AA:628:C:C4'	2.45	0.47
85:AA:172:A:C6	85:AA:173:A:C6	3.03	0.47
85:AA:2120:C:C5	85:AA:2121:G:N7	2.83	0.47
85:AA:100:A:N6	85:AA:424:A:C2	2.83	0.47
85:AA:425:G:O2'	85:AA:426:C:H4'	2.15	0.47
85:AA:534:A:C6	85:AA:535:G:C8	3.03	0.47
85:AA:658:C:C2	85:AA:659:A:C8	3.02	0.47
85:AA:698:G:C6	85:AA:699:U:C4	3.03	0.47
34:BA:629:G:C4	34:BA:654:C:O2	2.68	0.47
57:BX:49:TYR:N	57:BX:49:TYR:CD2	2.82	0.47
85:AA:995:G:N2	85:AA:996:A:H1'	2.29	0.47
85:AA:1184:A:O2'	85:AA:1185:G:H5'	2.14	0.47
30:AW:48:TYR:CD1	30:AW:50:HIS:O	2.68	0.47
5:A4:13:LEU:HG	5:A4:48:ILE:HG12	1.97	0.47
85:AA:1137:C:C3'	85:AA:1138:U:H5"	2.45	0.47
85:AA:1140:G:C2	85:AA:1141:U:H1'	2.49	0.47
85:AA:877:G:H1	85:AA:928:U:H3	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:266:G:C2	34:BA:277:A:C4	3.03	0.47
34:BA:519:G:N1	34:BA:1491:U:H4'	2.30	0.47
34:BA:605:G:C5	34:BA:606:G:C5	3.02	0.47
34:BA:718:U:C4	34:BA:719:G:C6	3.03	0.47
35:BB:667:G:H5"	35:BB:668:A:OP2	2.15	0.47
34:BA:1488:C:C5	34:BA:1489:U:O4	2.68	0.47
35:BB:1529:G:C6	35:BB:1540:U:N3	2.83	0.47
85:AA:1449:C:C2	85:AA:1450:U:C1'	2.98	0.47
85:AA:1515:A:C5	85:AA:1516:A:C5	3.03	0.47
85:AA:1517:G:C8	85:AA:1517:G:H5"	2.49	0.47
34:BA:1288:U:H2'	34:BA:1289:C:O4'	2.15	0.47
85:AA:311:U:N3	85:AA:314:C:OP2	2.48	0.47
85:AA:704:A:C2	85:AA:1219:A:C4	3.02	0.47
85:AA:966:G:H2'	85:AA:967:C:O4'	2.15	0.47
85:AA:989:U:C6	85:AA:991:G:OP2	2.67	0.47
3:A2:46:ARG:HA	3:A2:49:LYS:CE	2.45	0.47
85:AA:1541:G:N3	85:AA:1542:A:C8	2.83	0.47
85:AA:1923:A:C8	85:AA:2074:G:H4'	2.49	0.47
85:AA:902:A:OP2	85:AA:902:A:C8	2.68	0.47
85:AA:364:C:H2'	85:AA:365:G:O4'	2.14	0.47
7:A6:33:TYR:CG	7:A6:104:LEU:HD22	2.49	0.47
35:BB:1208:G:C4	35:BB:1253:U:C5	3.03	0.47
49:BP:126:LYS:O	49:BP:128:PHE:HA	2.15	0.47
34:BA:1090:A:C4	34:BA:1091:U:C6	3.03	0.47
34:BA:1092:U:N3	34:BA:1093:G:C5	2.83	0.47
85:AA:809:A:N1	85:AA:870:U:C4	2.83	0.47
34:BA:925:G:C4	34:BA:999:G:C6	3.03	0.47
85:AA:740:A:C2	85:AA:769:C:H1'	2.50	0.47
85:AA:741:G:O6	85:AA:762:U:C6	2.68	0.47
85:AA:750:A:H3'	85:AA:750:A:C8	2.50	0.47
34:BA:532:C:C6	34:BA:532:C:C3'	2.97	0.47
85:AA:1251:G:C6	85:AA:1252:A:C6	3.03	0.47
85:AA:1095:C:H2'	85:AA:1096:G:C8	2.50	0.47
23:AP:43:TRP:CH2	23:AP:74:HIS:CG	3.03	0.47
86:AB:69:G:C2	86:AB:70:G:C2	3.03	0.47
34:BA:686:U:C4	34:BA:687:G:N7	2.83	0.47
35:BB:436:G:O6	35:BB:438:G:C4	2.68	0.47
1:A0:116:LEU:HA	1:A0:144:PHE:CE2	2.50	0.47
35:BB:630:A:C2	35:BB:643:G:C5	3.03	0.47
27:AT:95:ASN:HA	27:AT:98:LYS:HG3	1.97	0.47
34:BA:1084:A:H2'	34:BA:1085:G:N9	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:68:CYS:HA	2:A1:73:PRO:O	2.14	0.47
22:AO:133:CYS:SG	22:AO:134:LYS:HG3	2.55	0.47
23:AP:52:LEU:HD13	23:AP:256:PHE:CE1	2.49	0.47
52:BS:82:TYR:HA	52:BS:122:ASN:O	2.15	0.47
44:BK:98:ARG:HB3	44:BK:120:GLY:HA3	1.96	0.47
35:BB:1169:A:C2	35:BB:1184:C:C2	3.03	0.47
6:A5:74:GLN:HB2	6:A5:109:PHE:CZ	2.50	0.47
3:A2:7:LYS:HG2	3:A2:13:SER:HA	1.96	0.47
13:AE:49:ARG:NE	13:AE:50:TYR:H	2.12	0.47
13:AE:58:PHE:N	13:AE:58:PHE:CD1	2.81	0.47
5:A4:106:LYS:HG2	5:A4:107:ARG:H	1.80	0.47
50:BQ:35:VAL:HG13	50:BQ:36:MET:SD	2.55	0.47
13:AE:143:GLN:HA	13:AE:153:TYR:CD1	2.50	0.47
12:AD:71:PHE:HB3	12:AD:73:TRP:CE2	2.50	0.47
59:BZ:109:ASN:H	59:BZ:112:ARG:CG	2.28	0.47
34:BA:1107:A:N1	34:BA:1108:U:C2	2.83	0.46
34:BA:1302:C:C2	34:BA:1303:U:C6	3.03	0.46
34:BA:1482:A:C4	34:BA:1483:U:C5	3.03	0.46
34:BA:1614:G:O6	34:BA:1616:A:C5	2.67	0.46
34:BA:1637:G:C6	34:BA:1638:U:O4	2.68	0.46
34:BA:1680:G:C6	34:BA:1682:A:C5	3.04	0.46
34:BA:214:A:C3'	34:BA:215:C:C5	2.96	0.46
34:BA:331:G:C4	34:BA:356:C:C4	3.04	0.46
34:BA:399:G:C6	34:BA:400:A:C5	3.02	0.46
34:BA:401:A:C2	34:BA:402:G:C5	3.03	0.46
34:BA:413:A:C1'	34:BA:417:A:C2	2.98	0.46
34:BA:799:A:O4'	34:BA:857:C:H4'	2.15	0.46
34:BA:803:U:C2	34:BA:804:G:N7	2.84	0.46
34:BA:941:G:C6	34:BA:942:G:C5	3.03	0.46
34:BA:94:G:N7	34:BA:95:C:C5	2.82	0.46
34:BA:958:G:H3'	34:BA:994:G:OP2	2.14	0.46
34:BA:994:G:C5	34:BA:996:U:C4	3.03	0.46
35:BB:1535:G:OP1	41:BH:27:A:C6	2.68	0.46
35:BB:3:C:OP1	35:BB:3:C:H4'	2.15	0.46
35:BB:482:A:H3'	35:BB:482:A:C8	2.49	0.46
35:BB:488:G:H2'	35:BB:490:G:OP1	2.15	0.46
35:BB:80:C:C4	35:BB:602:G:C8	3.03	0.46
36:BC:109:A:H1'	36:BC:111:C:H5	1.81	0.46
36:BC:108:A:C2	36:BC:113:G:C5	3.03	0.46
36:BC:31:A:H1'	36:BC:32:U:P	2.55	0.46
36:BC:46:G:N3	36:BC:61:A:C2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:6:G:H2'	36:BC:7:U:C5	2.50	0.46
37:BD:23:A:C8	37:BD:23:A:H3'	2.50	0.46
38:BE:148:C:C4	38:BE:149:A:C6	3.02	0.46
38:BE:76:U:C2	38:BE:85:G:N1	2.83	0.46
38:BE:3:G:N1	38:BE:7:U:N3	2.63	0.46
39:BF:66:C:C4	39:BF:67:A:C8	3.03	0.46
40:BG:129:G:C6	40:BG:130:G:C5	3.02	0.46
40:BG:49:A:H5'	40:BG:51:U:O4'	2.15	0.46
40:BG:60:A:C6	40:BG:61:A:C5	3.03	0.46
40:BG:64:C:C5	40:BG:65:C:C5	3.04	0.46
40:BG:39:A:N1	40:BG:72:G:H4'	2.30	0.46
41:BH:31:A:C6	41:BH:32:U:O4	2.68	0.46
41:BH:57:A:N1	41:BH:65:G:C6	2.84	0.46
47:BN:60:ARG:NE	47:BN:77:GLY:O	2.48	0.46
54:BU:22:HIS:CD2	54:BU:22:HIS:H	2.33	0.46
36:BC:22:U:C5	59:BZ:17:PHE:CD2	3.03	0.46
85:AA:128:U:H1'	85:AA:180:A:C4'	2.46	0.46
85:AA:1495:G:C6	85:AA:1496:U:N3	2.83	0.46
85:AA:151:A:N1	85:AA:172:A:C5	2.83	0.46
27:AT:126:GLY:CA	85:AA:152:A:H4'	2.39	0.46
85:AA:454:G:C5	85:AA:455:G:C5	3.02	0.46
85:AA:494:G:C3'	85:AA:495:G:H5"	2.45	0.46
85:AA:494:G:C8	85:AA:494:G:H5"	2.50	0.46
85:AA:513:G:C2	85:AA:530:A:C2	3.03	0.46
85:AA:515:C:H2'	85:AA:516:G:C8	2.50	0.46
85:AA:541:A:O5'	85:AA:541:A:C8	2.69	0.46
85:AA:595:A:C6	85:AA:596:A:C6	3.03	0.46
85:AA:669:G:C2	85:AA:670:C:C2	3.03	0.46
85:AA:678:A:H2'	85:AA:679:A:O4'	2.15	0.46
85:AA:690:G:C6	85:AA:696:G:C6	3.03	0.46
34:BA:627:U:H3'	34:BA:627:U:C6	2.49	0.46
35:BB:1026:G:N7	35:BB:1027:U:C4	2.83	0.46
85:AA:1203:G:C4	85:AA:1204:A:C8	3.03	0.46
85:AA:1216:A:C6	85:AA:1217:U:C4	3.03	0.46
34:BA:946:A:C5	34:BA:947:A:C8	3.03	0.46
35:BB:1168:G:N1	35:BB:1185:G:N1	2.63	0.46
85:AA:880:A:H2'	85:AA:881:C:C6	2.51	0.46
85:AA:1549:G:H4'	85:AA:2036:A:C2	2.50	0.46
85:AA:1559:U:H2'	85:AA:1560:A:C3'	2.45	0.46
85:AA:1582:U:C5	85:AA:1583:U:C4	3.03	0.46
28:AU:27:LYS:HD3	85:AA:2003:C:H5"	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:257:G:C5	34:BA:258:C:C5	3.02	0.46
34:BA:676:G:N7	34:BA:677:U:C4	2.83	0.46
22:AO:74:CYS:HA	22:AO:120:CYS:SG	2.55	0.46
34:BA:1239:G:C5	34:BA:1240:G:C5	3.02	0.46
34:BA:1241:U:C5	34:BA:1242:A:N7	2.83	0.46
35:BB:669:A:C6	35:BB:1329:G:C2	3.02	0.46
85:AA:1916:A:C2	85:AA:1997:G:C4	3.03	0.46
85:AA:592:C:C2	85:AA:601:A:C2	3.03	0.46
85:AA:602:U:H3'	85:AA:603:C:C5'	2.45	0.46
35:BB:361:A:C6	35:BB:362:A:C4	3.03	0.46
35:BB:138:A:C2'	35:BB:362:A:H61	2.28	0.46
35:BB:364:U:C5	35:BB:365:U:N3	2.83	0.46
85:AA:1466:U:O2'	85:AA:1467:U:H6	1.98	0.46
85:AA:1692:U:C4	85:AA:1693:C:C4	3.03	0.46
85:AA:2238:C:H2'	85:AA:2239:A:C8	2.49	0.46
85:AA:15:U:O4'	85:AA:693:A:C6	2.67	0.46
85:AA:2145:G:C2	85:AA:2146:G:N3	2.83	0.46
85:AA:275:A:C2	85:AA:276:C:C2	3.02	0.46
85:AA:577:U:OP1	85:AA:577:U:C6	2.68	0.46
85:AA:576:U:C2'	85:AA:577:U:H5'	2.45	0.46
85:AA:781:G:C6	85:AA:782:G:C5	3.02	0.46
34:BA:1333:G:C2'	34:BA:1334:G:H5"	2.45	0.46
34:BA:1335:A:C4	34:BA:1336:U:C5	3.02	0.46
85:AA:382:G:N1	85:AA:415:G:C4	2.83	0.46
16:AH:49:VAL:HA	16:AH:53:MET:SD	2.55	0.46
35:BB:1004:A:H2	35:BB:1015:U:H1'	1.79	0.46
35:BB:1014:U:N3	35:BB:1015:U:C5	2.83	0.46
34:BA:1091:U:N3	34:BA:1092:U:C4	2.83	0.46
34:BA:1129:U:C5	34:BA:1130:U:C2	3.03	0.46
34:BA:1348:G:C5	34:BA:1349:A:C8	3.04	0.46
39:BF:32:G:H2'	39:BF:32:G:N3	2.30	0.46
39:BF:41:U:H1'	39:BF:42:G:C6	2.49	0.46
34:BA:580:U:C6	34:BA:580:U:C3'	2.98	0.46
34:BA:589:A:N3	34:BA:590:U:C6	2.83	0.46
85:AA:1362:A:C4	85:AA:1363:U:C5	3.03	0.46
86:AB:31:A:C6	86:AB:32:U:C4	3.02	0.46
27:AT:65:PHE:CE1	27:AT:81:LEU:HG	2.51	0.46
35:BB:960:C:C2	35:BB:961:G:C8	3.03	0.46
85:AA:771:A:H2'	85:AA:773:G:N7	2.30	0.46
31:AX:166:PHE:CZ	31:AX:200:LEU:HD21	2.50	0.46
1:A0:40:VAL:HG12	1:A0:43:PHE:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1219:G:C2	34:BA:1220:C:C2	3.03	0.46
34:BA:409:A:C6	34:BA:410:G:C2	3.04	0.46
13:AE:103:ARG:HE	13:AE:120:HIS:CD2	2.32	0.46
34:BA:1358:A:C8	34:BA:1359:U:C5	3.03	0.46
20:AL:20:TYR:OH	31:AX:208:GLU:N	2.48	0.46
35:BB:942:G:C2	35:BB:943:U:C2	3.03	0.46
35:BB:512:C:C2	35:BB:513:G:H1'	2.49	0.46
18:AJ:101:PHE:CD1	18:AJ:101:PHE:N	2.82	0.46
85:AA:1591:U:H2'	85:AA:1592:C:C6	2.50	0.46
34:BA:1016:A:C8	34:BA:1017:C:C5	3.03	0.46
34:BA:1052:G:H2'	34:BA:1230:G:H5"	1.96	0.46
34:BA:127:U:O5'	34:BA:127:U:C6	2.68	0.46
34:BA:1327:G:N2	34:BA:1328:U:H1'	2.30	0.46
34:BA:1455:C:C2	34:BA:1456:C:C5	3.03	0.46
34:BA:1485:U:N3	34:BA:1501:U:C2	2.84	0.46
34:BA:1044:A:C5	34:BA:1525:G:C2	3.03	0.46
34:BA:1529:G:C5	34:BA:1530:G:C5	3.03	0.46
34:BA:1640:G:H4'	53:BT:23:TRP:HE1	1.81	0.46
34:BA:1643:U:N3	35:BB:60:A:C6	2.83	0.46
34:BA:1708:A:C8	34:BA:1709:A:N7	2.83	0.46
34:BA:1738:G:C8	34:BA:1738:G:O5'	2.67	0.46
34:BA:1816:G:C4	34:BA:1818:A:C5	3.03	0.46
34:BA:20:A:H3'	34:BA:20:A:C8	2.50	0.46
34:BA:210:G:C2	34:BA:223:U:N3	2.83	0.46
34:BA:23:A:C4	34:BA:395:G:C5	3.04	0.46
34:BA:428:C:H2'	34:BA:429:G:H5'	1.97	0.46
34:BA:474:A:C2	34:BA:475:A:C4	3.03	0.46
34:BA:496:G:C2	34:BA:497:U:C2	3.04	0.46
34:BA:496:G:C5	34:BA:497:U:C5	3.03	0.46
34:BA:742:C:N3	47:BN:10:HIS:CD2	2.84	0.46
34:BA:745:A:C6	34:BA:746:C:N3	2.83	0.46
34:BA:805:A:N3	34:BA:807:U:C5	2.83	0.46
35:BB:102:G:C2	35:BB:103:C:C2	3.03	0.46
35:BB:1296:A:C4	35:BB:1309:A:C5	3.04	0.46
35:BB:491:A:H2'	35:BB:492:U:H5'	1.96	0.46
34:BA:9:A:N1	36:BC:162:C:N3	2.63	0.46
34:BA:395:G:C2	36:BC:34:U:C4	3.03	0.46
36:BC:45:C:H2'	36:BC:46:G:O4'	2.15	0.46
37:BD:13:A:C4	37:BD:110:G:C6	3.04	0.46
37:BD:32:A:N6	37:BD:41:G:H1'	2.30	0.46
38:BE:42:C:C2	38:BE:43:A:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:26:U:H2'	39:BF:27:G:C4	2.50	0.46
40:BG:104:A:C6	40:BG:105:A:C6	3.04	0.46
40:BG:88:G:C2	40:BG:112:C:C2	3.03	0.46
40:BG:37:G:C2	40:BG:38:A:C4	3.04	0.46
40:BG:79:U:H2'	40:BG:80:G:C8	2.50	0.46
41:BH:9:C:H3'	41:BH:9:C:O2	2.15	0.46
45:BL:53:VAL:CG2	45:BL:75:HIS:CE1	2.98	0.46
4:A3:118:LYS:CE	58:BY:80:VAL:O	2.63	0.46
4:A3:109:ILE:HG22	4:A3:111:VAL:N	2.30	0.46
85:AA:698:G:C6	85:AA:1225:C:C2	3.03	0.46
85:AA:2132:A:C2	85:AA:2133:A:N9	2.83	0.46
85:AA:25:C:P	85:AA:26:A:H5"	2.56	0.46
85:AA:31:C:C4	85:AA:32:U:C4	3.03	0.46
85:AA:372:U:O4	85:AA:373:G:C6	2.68	0.46
85:AA:484:G:O2'	85:AA:485:A:H5'	2.15	0.46
85:AA:538:A:N6	85:AA:669:G:C6	2.83	0.46
85:AA:619:A:O2'	85:AA:620:U:C6	2.68	0.46
85:AA:659:A:C2	85:AA:660:G:N9	2.84	0.46
85:AA:681:G:H8	85:AA:681:G:O5'	1.97	0.46
85:AA:6:G:C6	85:AA:19:A:C6	3.03	0.46
35:BB:562:A:C5	35:BB:563:A:C6	3.03	0.46
85:AA:995:G:C6	85:AA:996:A:C5	3.03	0.46
85:AA:1170:C:N3	85:AA:1171:C:C5	2.83	0.46
16:AH:128:VAL:H	85:AA:1136:A:H5"	1.80	0.46
85:AA:938:A:O5'	85:AA:938:A:H8	1.97	0.46
15:AG:77:HIS:CE1	85:AA:1107:A:H2	2.33	0.46
85:AA:1656:C:C4	85:AA:1657:C:C4	3.03	0.46
85:AA:1580:A:N1	85:AA:2021:A:C4	2.83	0.46
85:AA:2037:A:N7	85:AA:2038:C:C4	2.83	0.46
59:BZ:96:VAL:HG22	59:BZ:97:HIS:N	2.30	0.46
85:AA:1960:C:N4	85:AA:1977:G:H1	2.13	0.46
34:BA:724:A:C6	34:BA:725:C:N4	2.83	0.46
85:AA:587:G:N1	85:AA:588:G:C4	2.84	0.46
85:AA:591:A:OP2	85:AA:592:C:C6	2.68	0.46
85:AA:603:C:H4'	85:AA:604:C:H5"	1.96	0.46
27:AT:10:VAL:HB	27:AT:37:TRP:CE3	2.49	0.46
85:AA:245:A:H2'	85:AA:246:C:C6	2.51	0.46
85:AA:1681:G:O5'	85:AA:1681:G:C8	2.68	0.46
85:AA:1220:A:C5	85:AA:1221:G:C4	3.03	0.46
85:AA:552:C:O5'	85:AA:552:C:C6	2.67	0.46
3:A2:29:THR:O	3:A2:53:PRO:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1532:G:C5	85:AA:1533:C:C5	3.04	0.46
85:AA:1534:A:C2	85:AA:2089:G:C2	3.04	0.46
85:AA:1540:A:N3	85:AA:1541:G:H1'	2.30	0.46
85:AA:722:G:C6	85:AA:779:G:C2	3.03	0.46
85:AA:885:A:H2'	85:AA:886:A:H8	1.80	0.46
85:AA:894:A:H2'	85:AA:896:C:C5	2.50	0.46
85:AA:903:G:N1	85:AA:913:U:C2	2.83	0.46
85:AA:522:A:C5'	85:AA:523:U:H3'	2.45	0.46
85:AA:1259:U:C5	85:AA:1260:G:N7	2.83	0.46
35:BB:1415:G:C5	35:BB:1416:A:C8	3.04	0.46
34:BA:590:U:H2'	34:BA:590:U:O2	2.15	0.46
85:AA:1723:U:H3	85:AA:1817:U:H3	1.62	0.46
34:BA:244:A:C5	34:BA:245:U:C5	3.03	0.46
85:AA:1250:A:C6	85:AA:1251:G:C6	3.04	0.46
85:AA:1004:G:C5	85:AA:1005:C:C5	3.02	0.46
85:AA:1006:C:H1'	85:AA:1097:G:C2	2.50	0.46
54:BU:65:TRP:CZ3	54:BU:73:GLY:HA3	2.50	0.46
34:BA:513:U:C4	34:BA:690:G:N1	2.83	0.46
35:BB:1476:C:C4	35:BB:1477:C:C5	3.03	0.46
35:BB:1483:A:N7	35:BB:1484:A:C6	2.83	0.46
34:BA:832:C:C2	34:BA:836:U:O4	2.68	0.46
35:BB:632:U:C4	35:BB:633:C:C5	3.03	0.46
85:AA:1729:C:C4	85:AA:1730:C:C5	3.03	0.46
31:AX:166:PHE:CE1	31:AX:193:MET:SD	3.08	0.46
86:AB:52:G:C5	86:AB:63:G:C6	3.03	0.46
85:AA:1441:G:C4	85:AA:1442:U:C5	3.04	0.46
34:BA:976:C:N4	34:BA:977:G:C6	2.83	0.46
85:AA:1637:C:C4	85:AA:1638:C:C5	3.03	0.46
54:BU:71:GLY:HA3	54:BU:92:ARG:HA	1.97	0.46
13:AE:42:VAL:HG22	85:AA:970:U:H4'	1.97	0.46
44:BK:145:VAL:O	44:BK:148:ALA:HB3	2.16	0.46
47:BN:40:ARG:O	47:BN:44:ARG:HB2	2.15	0.46
23:AP:234:PHE:O	25:AR:28:LEU:HD11	2.15	0.46
57:BX:98:ILE:HA	57:BX:103:THR:O	2.16	0.46
33:AZ:92:LEU:HB3	33:AZ:95:THR:HG22	1.96	0.46
85:AA:2152:C:N3	85:AA:2167:A:C2	2.83	0.46
34:BA:1158:A:H3'	34:BA:1159:A:C8	2.50	0.46
34:BA:1202:G:C2	34:BA:1203:G:N9	2.83	0.46
34:BA:1295:U:H1'	34:BA:1296:U:C4	2.51	0.46
34:BA:1532:G:N1	34:BA:1533:G:C5	2.84	0.46
34:BA:1566:G:C2	34:BA:1567:G:C2	3.02	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1607:U:O2	34:BA:1608:C:C6	2.68	0.46
34:BA:1613:G:O6	34:BA:1616:A:C8	2.68	0.46
34:BA:1816:G:C6	34:BA:1818:A:N1	2.83	0.46
34:BA:131:A:N6	34:BA:184:C:H5"	2.31	0.46
34:BA:321:G:C6	34:BA:322:U:C5	3.03	0.46
34:BA:757:G:H3'	34:BA:757:G:C8	2.50	0.46
34:BA:763:U:O5'	34:BA:770:G:C8	2.67	0.46
34:BA:775:C:N4	34:BA:776:U:C5	2.84	0.46
34:BA:804:G:C2	34:BA:810:A:C2	3.03	0.46
34:BA:827:A:C2	34:BA:841:G:C2	3.03	0.46
34:BA:862:C:N4	34:BA:863:G:C4	2.83	0.46
34:BA:932:G:H2'	34:BA:933:U:O4'	2.15	0.46
35:BB:1108:G:C5	35:BB:1157:G:N1	2.83	0.46
35:BB:1123:A:C2	35:BB:1127:A:C8	3.03	0.46
35:BB:108:G:O6	35:BB:114:A:C2	2.68	0.46
35:BB:1224:C:C6	35:BB:1225:A:H3'	2.51	0.46
35:BB:1224:C:C4	35:BB:1226:G:H5"	2.50	0.46
35:BB:125:G:OP1	53:BT:75:HIS:HE1	1.99	0.46
35:BB:1291:G:N1	35:BB:1292:G:C4	2.83	0.46
35:BB:1293:C:H2'	35:BB:1294:C:O4'	2.14	0.46
35:BB:1353:G:C2'	35:BB:1354:C:H5"	2.45	0.46
35:BB:597:C:C2	35:BB:598:C:C5	3.03	0.46
35:BB:661:G:C5	35:BB:662:G:N7	2.83	0.46
35:BB:87:G:C6	35:BB:88:U:C2	3.04	0.46
35:BB:984:U:H4'	35:BB:987:U:H4'	1.96	0.46
36:BC:14:G:C4	36:BC:15:G:C4	3.03	0.46
36:BC:37:U:C4	36:BC:103:A:N7	2.83	0.46
36:BC:46:G:C6	36:BC:47:C:C4	3.03	0.46
36:BC:48:A:C6	36:BC:51:A:C4	3.03	0.46
37:BD:108:G:C5	37:BD:109:U:C5	3.02	0.46
38:BE:116:U:C2'	38:BE:117:A:C2	2.99	0.46
38:BE:30:C:N3	38:BE:31:A:C4	2.83	0.46
38:BE:33:C:H2'	38:BE:34:C:O4'	2.15	0.46
38:BE:4:A:N1	38:BE:97:G:H4'	2.31	0.46
40:BG:133:C:C2	40:BG:157:A:N7	2.83	0.46
41:BH:112:U:O5'	41:BH:112:U:H6	1.97	0.46
41:BH:29:G:N1	41:BH:127:A:C2	2.83	0.46
41:BH:9:C:OP2	41:BH:9:C:C4	2.68	0.46
34:BA:846:U:P	42:BI:73:ARG:HE	2.38	0.46
45:BL:64:PHE:HB2	45:BL:66:ILE:HG13	1.97	0.46
50:BQ:74:GLN:OE1	50:BQ:156:HIS:CE1	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BT:98:ARG:HA	53:BT:101:ILE:HG12	1.97	0.46
58:BY:3:THR:HG22	58:BY:14:HIS:HA	1.97	0.46
85:AA:1228:A:H2'	85:AA:1229:G:C8	2.50	0.46
85:AA:1226:A:C6	85:AA:1274:A:C8	3.03	0.46
85:AA:128:U:C6	85:AA:181:A:H5'	2.49	0.46
85:AA:2197:A:C2	85:AA:2198:G:C4	3.03	0.46
85:AA:335:G:C2	85:AA:355:G:H1'	2.50	0.46
85:AA:479:C:N3	85:AA:485:A:C6	2.84	0.46
85:AA:622:G:N1	85:AA:623:G:C5	2.83	0.46
26:AS:17:ARG:HG2	26:AS:17:ARG:HH11	1.80	0.46
34:BA:614:A:C5	34:BA:615:A:C8	3.03	0.46
34:BA:946:A:C2	34:BA:947:A:C1'	2.98	0.46
85:AA:927:A:N1	85:AA:928:U:C2	2.83	0.46
85:AA:1895:C:H3'	85:AA:1896:G:C8	2.51	0.46
35:BB:1288:G:N3	35:BB:1319:U:C4	2.84	0.46
35:BB:1407:U:H3'	35:BB:1408:G:N3	2.30	0.46
35:BB:1499:U:C6	35:BB:1500:U:C6	3.03	0.46
35:BB:1508:G:C5	35:BB:1509:G:N7	2.83	0.46
35:BB:1523:U:H6	35:BB:1523:U:O5'	1.98	0.46
35:BB:1525:G:C5	35:BB:1526:C:C5	3.03	0.46
85:AA:1693:C:H2'	85:AA:1694:C:C6	2.51	0.46
85:AA:2138:G:C6	85:AA:2139:G:C5	3.03	0.46
85:AA:2147:A:N7	85:AA:2148:C:C5	2.83	0.46
85:AA:1617:G:H1'	85:AA:1623:U:H3	1.81	0.46
13:AE:41:HIS:CG	85:AA:971:U:C5'	2.98	0.46
85:AA:547:A:C8	85:AA:547:A:O5'	2.68	0.46
85:AA:779:G:N2	85:AA:780:U:C2	2.83	0.46
24:AQ:16:ARG:HD2	24:AQ:18:LEU:HD21	1.97	0.46
85:AA:911:A:C6	85:AA:912:C:C4	3.04	0.46
85:AA:392:G:N2	85:AA:393:C:H1'	2.29	0.46
85:AA:1148:G:C2	85:AA:1149:A:H1'	2.51	0.46
85:AA:1241:A:H2'	85:AA:1242:A:H5'	1.98	0.46
39:BF:38:C:H2'	39:BF:39:C:O4'	2.15	0.46
85:AA:1056:C:N4	85:AA:1057:G:H1'	2.31	0.46
34:BA:529:A:C6	34:BA:583:G:N1	2.83	0.46
3:A2:93:ASN:O	3:A2:97:VAL:HG23	2.15	0.46
86:AB:31:A:C5	86:AB:32:U:C5	3.02	0.46
85:AA:1246:G:C2	85:AA:1247:A:H1'	2.50	0.46
86:AB:5:G:C5	86:AB:6:G:C5	3.03	0.46
85:AA:1063:U:C5'	85:AA:1082:U:H4'	2.45	0.46
85:AA:1731:G:C2	85:AA:1732:G:C6	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1644:G:C6	85:AA:1882:U:O2	2.69	0.46
35:BB:1516:C:N3	35:BB:1517:G:C5	2.83	0.46
1:A0:32:VAL:HG12	1:A0:44:ALA:C	2.36	0.46
85:AA:1761:C:H2'	85:AA:1762:G:C8	2.50	0.46
35:BB:543:G:C6	35:BB:544:C:C4	3.03	0.46
34:BA:1692:U:O2	34:BA:1692:U:H2'	2.13	0.46
35:BB:47:C:C4	35:BB:48:G:C6	3.04	0.46
52:BS:44:TRP:CE3	52:BS:44:TRP:CA	2.96	0.46
2:A1:40:SER:HA	2:A1:80:PRO:HA	1.96	0.46
85:AA:1556:G:C6	85:AA:1557:U:N3	2.83	0.46
85:AA:1942:U:C5	85:AA:1943:U:C4	3.03	0.46
85:AA:1175:A:C5	85:AA:1176:C:C4	3.03	0.46
59:BZ:32:LEU:HD11	59:BZ:45:MET:HB2	1.97	0.46
11:AC:88:HIS:CE1	20:AL:108:MET:SD	3.08	0.46
35:BB:728:A:OP2	35:BB:728:A:C8	2.68	0.46
42:BI:89:ILE:O	42:BI:89:ILE:HG23	2.16	0.46
1:A0:127:VAL:HG11	1:A0:174:ILE:HG13	1.96	0.46
34:BA:117:C:C2	34:BA:118:C:C6	3.02	0.46
34:BA:1200:U:C5	34:BA:1201:G:N7	2.84	0.46
34:BA:1268:C:N3	34:BA:1269:C:C5	2.84	0.46
34:BA:125:G:C5	34:BA:126:G:N7	2.84	0.46
34:BA:1300:G:C4	34:BA:1440:C:C2	3.03	0.46
34:BA:1312:A:N1	34:BA:1427:U:C4	2.83	0.46
34:BA:1328:U:N3	34:BA:1329:U:C5	2.83	0.46
34:BA:130:U:C2	34:BA:132:U:C5	3.03	0.46
34:BA:1413:G:C6	34:BA:1414:C:N4	2.84	0.46
34:BA:1466:U:C2	34:BA:1467:U:C6	3.03	0.46
34:BA:154:A:C5	34:BA:155:U:C6	3.03	0.46
34:BA:183:G:C2'	34:BA:184:C:H5'	2.45	0.46
34:BA:398:G:N2	34:BA:399:G:H1'	2.30	0.46
34:BA:760:G:H2'	34:BA:761:U:C6	2.50	0.46
34:BA:771:A:C8	34:BA:774:A:H1'	2.50	0.46
34:BA:792:A:N3	34:BA:793:A:C4	2.83	0.46
34:BA:958:G:C6	34:BA:960:C:C4	3.04	0.46
35:BB:1081:U:H5	35:BB:1082:A:HO2'	1.64	0.46
35:BB:1106:G:C6	35:BB:1107:C:C4	3.03	0.46
35:BB:1118:G:N1	35:BB:1119:G:C5	2.84	0.46
35:BB:1123:A:O4'	35:BB:1124:G:C6	2.68	0.46
35:BB:1218:G:H2'	35:BB:1219:A:O5'	2.15	0.46
35:BB:1221:G:H2'	35:BB:1222:A:C2	2.50	0.46
35:BB:1409:G:C2	35:BB:1410:G:C8	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1409:G:N3	35:BB:1409:G:H2'	2.29	0.46
34:BA:1661:U:O4	35:BB:18:A:C5	2.68	0.46
35:BB:130:G:N3	35:BB:374:A:C2	2.84	0.46
35:BB:425:G:N1	35:BB:446:U:C5	2.84	0.46
35:BB:707:G:C6	35:BB:775:U:C2	3.03	0.46
35:BB:89:C:C5	35:BB:90:G:C8	3.04	0.46
34:BA:1841:A:C2	35:BB:9:G:C4	3.03	0.46
36:BC:11:G:C4	36:BC:12:A:C8	3.03	0.46
36:BC:139:A:H8	36:BC:139:A:O5'	1.99	0.46
36:BC:163:A:C6	36:BC:164:G:C6	3.03	0.46
34:BA:471:U:N3	36:BC:17:U:N3	2.62	0.46
36:BC:59:A:N1	36:BC:99:U:H1'	2.30	0.46
34:BA:484:A:C4	36:BC:6:G:N2	2.83	0.46
36:BC:7:U:C3'	36:BC:8:C:C6	2.98	0.46
37:BD:107:G:C6	37:BD:108:G:C5	3.03	0.46
37:BD:57:C:O5'	37:BD:57:C:C6	2.69	0.46
37:BD:95:G:C6	37:BD:96:C:C5	3.03	0.46
38:BE:50:G:C5	38:BE:51:C:C5	3.03	0.46
39:BF:22:U:C4	39:BF:56:C:O2'	2.66	0.46
40:BG:173:C:H2'	40:BG:174:G:O4'	2.16	0.46
40:BG:79:U:C4	40:BG:80:G:N7	2.83	0.46
41:BH:42:U:H1'	41:BH:110:C:H1'	1.98	0.46
41:BH:40:C:C5	41:BH:41:A:N7	2.83	0.46
41:BH:97:C:O3'	55:BV:64:LEU:N	2.49	0.46
85:AA:130:G:C2	85:AA:141:A:N3	2.84	0.46
4:A3:54:ARG:CZ	85:AA:167:A:H5"	2.46	0.46
85:AA:638:G:N7	85:AA:652:U:C2	2.83	0.46
85:AA:686:U:H3'	85:AA:687:G:H2'	1.98	0.46
34:BA:633:G:C2	34:BA:649:A:C4	3.04	0.46
35:BB:527:U:O5'	35:BB:527:U:H6	1.99	0.46
35:BB:568:A:C6	35:BB:569:G:C5	3.04	0.46
35:BB:832:C:C4	35:BB:833:G:C4	3.04	0.46
35:BB:832:C:C6	35:BB:832:C:OP2	2.68	0.46
85:AA:1216:A:C5	85:AA:1217:U:C5	3.03	0.46
35:BB:465:C:N4	35:BB:508:U:H2'	2.31	0.46
85:AA:1587:C:O5'	85:AA:1587:C:C6	2.68	0.46
85:AA:2046:G:C6	85:AA:2047:U:O4	2.68	0.46
34:BA:266:G:H2'	34:BA:267:G:C8	2.50	0.46
34:BA:282:A:H5'	34:BA:287:U:C5'	2.46	0.46
85:AA:1959:G:H22	85:AA:1978:G:N2	2.13	0.46
85:AA:1962:U:C2	85:AA:1976:G:C2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:971:G:C2	34:BA:972:C:C2	3.04	0.46
35:BB:1282:G:H2'	35:BB:1283:C:H6	1.81	0.46
85:AA:1911:A:N1	85:AA:2001:C:C5	2.84	0.46
27:AT:36:GLY:HA2	85:AA:607:U:C2	2.50	0.46
35:BB:1547:U:C2	35:BB:1548:C:C6	3.03	0.46
85:AA:1293:U:O4	85:AA:1294:U:C5	2.68	0.46
85:AA:1668:G:H1	85:AA:1701:G:N2	2.12	0.46
85:AA:1669:G:C2	85:AA:1670:U:C2	3.03	0.46
85:AA:1672:G:H4'	85:AA:1698:A:C6	2.51	0.46
23:AP:101:SER:CA	85:AA:2102:A:H61	2.29	0.46
85:AA:314:C:C5	85:AA:316:C:C6	3.03	0.46
85:AA:269:G:C8	85:AA:270:A:H1'	2.50	0.46
85:AA:977:U:N3	85:AA:978:U:C5	2.83	0.46
34:BA:3:G:N1	36:BC:168:C:C2	2.84	0.46
85:AA:559:G:N1	85:AA:560:C:C2	2.83	0.46
85:AA:2079:U:C2	85:AA:2080:U:N3	2.84	0.46
85:AA:725:G:C8	85:AA:777:U:C5	3.03	0.46
34:BA:1336:U:C4	34:BA:1337:A:C5	3.03	0.46
85:AA:441:C:H2'	85:AA:441:C:O2	2.14	0.46
85:AA:421:G:C5	85:AA:422:G:N7	2.83	0.46
35:BB:1001:G:N2	35:BB:1018:U:H1'	2.30	0.46
11:AC:227:ARG:NE	85:AA:755:G:H4'	2.30	0.46
39:BF:32:G:N1	39:BF:50:C:N3	2.59	0.46
85:AA:743:C:C2	85:AA:744:C:C5	3.03	0.46
85:AA:1019:U:C6	85:AA:1051:A:C8	3.04	0.46
85:AA:345:U:C2'	85:AA:346:U:H5'	2.44	0.46
35:BB:1423:U:H2'	35:BB:1424:G:O4'	2.14	0.46
85:AA:1830:U:C2	85:AA:1845:G:N2	2.83	0.46
34:BA:968:G:H2'	34:BA:969:A:C8	2.51	0.46
85:AA:204:U:H2'	85:AA:205:A:C5'	2.45	0.46
35:BB:1482:A:N1	35:BB:1483:A:C6	2.84	0.46
5:A4:156:LYS:HD2	5:A4:188:PHE:O	2.15	0.46
9:A8:24:ILE:HG22	9:A8:25:CYS:SG	2.55	0.46
1:A0:197:ASP:O	1:A0:201:LYS:HG2	2.16	0.46
4:A3:49:TYR:CE1	4:A3:119:VAL:HA	2.51	0.46
34:BA:1219:G:C5	34:BA:1220:C:C4	3.04	0.46
21:AM:5:LEU:HB3	28:AU:50:LYS:HA	1.98	0.46
2:A1:38:CYS:CB	2:A1:80:PRO:HB3	2.46	0.46
85:AA:1237:A:H2'	85:AA:1238:U:C6	2.50	0.46
49:BP:15:ILE:CB	49:BP:21:GLN:HA	2.45	0.46
85:AA:1783:G:C6	85:AA:1784:G:C6	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AO:35:CYS:SG	22:AO:151:ILE:HG21	2.56	0.46
33:AZ:62:ARG:NH1	33:AZ:73:ASN:HD22	2.13	0.46
17:AI:88:ARG:HG2	85:AA:2023:U:C6	2.51	0.46
35:BB:1183:U:N3	35:BB:1184:C:C5	2.83	0.46
2:A1:133:ILE:HA	2:A1:146:TYR:CZ	2.51	0.46
26:AS:52:LEU:HD11	26:AS:73:GLN:HB2	1.97	0.46
34:BA:1034:U:O5'	34:BA:1034:U:H6	1.99	0.46
34:BA:1168:C:N4	34:BA:1170:A:C2	2.84	0.46
34:BA:1321:A:C4	34:BA:1322:A:C8	3.04	0.46
34:BA:1474:G:C6	34:BA:1509:U:C4	3.03	0.46
34:BA:1589:U:H2'	34:BA:1590:G:C8	2.50	0.46
34:BA:1603:A:C8	35:BB:33:A:C6	3.03	0.46
34:BA:1611:A:C4	34:BA:1612:C:C6	3.03	0.46
34:BA:1613:G:C8	34:BA:1613:G:H3'	2.51	0.46
34:BA:1661:U:O4'	34:BA:1662:U:C4	2.69	0.46
34:BA:1689:U:C2	35:BB:18:A:O4'	2.68	0.46
34:BA:1723:U:C4	34:BA:1799:G:H2'	2.51	0.46
34:BA:1729:G:C2	34:BA:1794:A:C4	3.03	0.46
34:BA:1827:C:H5'	57:BX:101:ASN:OD1	2.15	0.46
34:BA:27:G:C6	34:BA:28:C:C5	3.03	0.46
34:BA:334:G:C4	34:BA:335:C:C5	3.03	0.46
34:BA:35:U:O5'	34:BA:35:U:C6	2.69	0.46
34:BA:40:A:C6	35:BB:1260:A:C4	3.03	0.46
34:BA:428:C:N4	34:BA:429:G:C4	2.83	0.46
34:BA:480:G:C4	34:BA:481:A:C5	3.02	0.46
34:BA:498:A:C5	34:BA:499:C:C4	3.04	0.46
34:BA:706:C:O2	34:BA:707:C:C5	2.69	0.46
34:BA:771:A:H2'	34:BA:774:A:C8	2.50	0.46
34:BA:800:G:H2'	34:BA:801:U:O4'	2.15	0.46
34:BA:809:U:O5'	34:BA:809:U:H6	1.98	0.46
34:BA:936:A:C5	34:BA:937:G:N7	2.83	0.46
35:BB:785:G:C4	35:BB:1036:G:N2	2.84	0.46
35:BB:1219:A:C6	35:BB:1220:A:C4	3.04	0.46
35:BB:1337:C:H5"	35:BB:1338:U:OP2	2.16	0.46
35:BB:1442:C:C2	35:BB:1443:C:C5	3.03	0.46
35:BB:130:G:C4	35:BB:374:A:N1	2.84	0.46
35:BB:693:U:H3	35:BB:1050:A:H61	1.64	0.46
36:BC:135:A:H2'	36:BC:136:G:O4'	2.15	0.46
37:BD:110:G:C4	37:BD:111:U:C5	3.04	0.46
37:BD:93:G:C8	37:BD:93:G:H3'	2.51	0.46
38:BE:154:A:H2'	38:BE:155:C:C5'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:35:A:C6	38:BE:36:U:C4	3.04	0.46
38:BE:46:G:H2'	38:BE:47:U:C6	2.51	0.46
38:BE:84:U:C4	38:BE:85:G:H1'	2.50	0.46
38:BE:89:G:H2'	38:BE:90:G:C8	2.50	0.46
40:BG:111:C:N3	40:BG:112:C:C5	2.84	0.46
40:BG:133:C:C5	40:BG:157:A:C8	3.03	0.46
40:BG:81:G:C6	40:BG:82:U:N3	2.83	0.46
40:BG:93:U:C4	40:BG:94:G:N7	2.84	0.46
41:BH:103:C:N4	41:BH:104:U:C4	2.84	0.46
41:BH:130:G:H5"	41:BH:130:G:C8	2.50	0.46
41:BH:135:U:H2'	41:BH:135:U:OP1	2.16	0.46
44:BK:185:ARG:HB2	44:BK:190:LEU:HD23	1.97	0.46
34:BA:1115:A:O4'	44:BK:194:GLY:HA2	2.15	0.46
45:BL:116:HIS:CD2	45:BL:129:ILE:HA	2.50	0.46
45:BL:87:LEU:HD11	45:BL:91:LEU:HD11	1.98	0.46
48:BO:89:PHE:O	48:BO:90:HIS:CD2	2.68	0.46
38:BE:106:C:C4	53:BT:121:ARG:NH1	2.84	0.46
34:BA:545:U:H3'	34:BA:545:U:C6	2.50	0.46
85:AA:2187:G:C5	85:AA:2188:C:C5	3.03	0.46
85:AA:2189:U:H2'	85:AA:2190:U:C6	2.50	0.46
85:AA:24:U:C3'	85:AA:25:C:H5"	2.45	0.46
85:AA:25:C:H4'	85:AA:26:A:C5'	2.45	0.46
85:AA:34:G:H2'	85:AA:35:U:C6	2.51	0.46
85:AA:51:A:H8	85:AA:51:A:H5'	1.80	0.46
34:BA:626:G:C8	34:BA:626:G:H3'	2.50	0.46
34:BA:664:C:C2	34:BA:665:C:C6	3.04	0.46
35:BB:546:A:C5	35:BB:555:G:C6	3.04	0.46
35:BB:810:G:C2	35:BB:830:G:C4	3.04	0.46
35:BB:825:U:H2'	35:BB:826:G:C8	2.50	0.46
35:BB:828:G:C4	35:BB:829:C:C6	3.04	0.46
35:BB:854:G:C4	35:BB:855:G:C8	3.03	0.46
35:BB:857:G:C2	35:BB:866:A:C2	3.04	0.46
35:BB:866:A:C2	35:BB:867:C:C2	3.04	0.46
85:AA:1215:A:H2'	85:AA:1216:A:H5'	1.97	0.46
85:AA:701:C:H3'	85:AA:702:G:C8	2.51	0.46
15:AG:52:MET:SD	85:AA:1209:U:C6	3.08	0.46
85:AA:1133:C:H2'	85:AA:1134:G:C8	2.51	0.46
85:AA:1138:U:H2'	85:AA:1139:G:O4'	2.15	0.46
85:AA:1197:U:C2	85:AA:1198:U:C6	3.03	0.46
85:AA:939:A:H2'	85:AA:940:G:OP1	2.16	0.46
85:AA:2018:U:C4	85:AA:2026:U:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:149:U:C2	40:BG:150:A:C8	3.04	0.46
34:BA:279:U:C6	34:BA:279:U:H3'	2.51	0.46
34:BA:292:C:C2'	34:BA:293:A:H5'	2.45	0.46
34:BA:520:G:O6	34:BA:521:C:C6	2.69	0.46
34:BA:593:G:C4	34:BA:594:G:N3	2.83	0.46
35:BB:1271:A:C6	35:BB:1272:G:C4	3.03	0.46
35:BB:363:A:O2'	35:BB:364:U:C5	2.67	0.46
85:AA:1288:A:H5'	85:AA:1288:A:H8	1.81	0.46
85:AA:1471:G:C6	85:AA:1472:G:C5	3.03	0.46
85:AA:1696:U:H2'	85:AA:1697:C:O4'	2.15	0.46
34:BA:1287:G:N1	34:BA:1288:U:C4	2.83	0.46
34:BA:3:G:C8	34:BA:3:G:O5'	2.69	0.46
85:AA:559:G:C6	85:AA:560:C:N3	2.84	0.46
85:AA:565:G:C5	85:AA:566:U:C5	3.03	0.46
85:AA:561:C:C4	85:AA:567:G:C6	3.03	0.46
32:AY:31:ARG:CA	32:AY:35:PHE:HB2	2.45	0.46
85:AA:2091:C:H2'	85:AA:2092:A:O4'	2.15	0.46
85:AA:792:A:N7	85:AA:800:A:C4	2.84	0.46
85:AA:410:A:C6	85:AA:411:U:N3	2.84	0.46
35:BB:1004:A:C2	35:BB:1005:A:N9	2.83	0.46
35:BB:1005:A:C2	35:BB:1006:C:H1'	2.50	0.46
4:A3:177:PRO:CA	85:AA:65:A:C4	2.98	0.46
34:BA:1263:A:C6	34:BA:1264:U:C5	3.03	0.46
85:AA:823:C:N3	85:AA:824:C:C5	2.83	0.46
85:AA:860:C:H1'	85:AA:861:G:C5	2.50	0.46
39:BF:50:C:C2'	39:BF:50:C:O2	2.61	0.46
39:BF:50:C:H1'	39:BF:52:A:H62	1.80	0.46
85:AA:739:C:C6	85:AA:740:A:O3'	2.69	0.46
85:AA:654:A:N1	85:AA:657:C:C2	2.84	0.46
35:BB:501:G:C2	35:BB:502:C:C2	3.04	0.46
85:AA:1856:G:H2'	85:AA:1857:G:O4'	2.15	0.46
35:BB:1487:G:N1	35:BB:1488:G:C5	2.83	0.46
34:BA:984:U:C5	34:BA:985:C:C5	3.03	0.46
25:AR:62:TYR:HA	25:AR:65:CYS:SG	2.55	0.46
35:BB:605:C:C2	35:BB:606:C:N3	2.84	0.46
1:A0:195:LEU:O	1:A0:198:ARG:HB3	2.16	0.46
1:A0:202:ARG:HD2	1:A0:202:ARG:HA	1.79	0.46
8:A7:247:PRO:HD2	8:A7:297:GLY:HA3	1.98	0.46
85:AA:1065:G:C6	85:AA:1066:U:C4	3.03	0.46
85:AA:1366:A:C8	85:AA:1366:A:O5'	2.68	0.46
85:AA:1902:C:O2	85:AA:1902:C:H2'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AW:23:ARG:CZ	85:AA:1113:G:C4	2.99	0.46
1:A0:107:MET:HG2	1:A0:111:ARG:HE	1.80	0.46
23:AP:168:VAL:HG22	23:AP:169:THR:H	1.81	0.46
2:A1:88:GLU:HG2	2:A1:89:ILE:N	2.30	0.46
33:AZ:42:VAL:HG13	33:AZ:44:ILE:HG23	1.96	0.46
50:BQ:191:LEU:C	50:BQ:192:ARG:HE	2.18	0.46
23:AP:232:TYR:CZ	25:AR:19:PRO:HG3	2.50	0.46
45:BL:169:TRP:CZ3	45:BL:170:PHE:HA	2.50	0.46
8:A7:213:SER:O	8:A7:220:ALA:HA	2.15	0.46
34:BA:99:G:C5	34:BA:100:A:C5	3.03	0.46
34:BA:1067:G:C6	34:BA:1068:C:N3	2.84	0.46
34:BA:1074:C:C2	34:BA:1075:U:C5	3.03	0.46
34:BA:1101:A:H4'	37:BD:78:C:H4'	1.97	0.46
34:BA:1226:G:H4'	34:BA:1519:G:C5'	2.46	0.46
34:BA:133:A:C8	34:BA:134:U:C5	3.03	0.46
34:BA:1454:G:H1	34:BA:1455:C:N4	2.13	0.46
34:BA:1547:G:C2	34:BA:1549:U:C6	3.04	0.46
34:BA:1643:U:C4	35:BB:60:A:N6	2.84	0.46
34:BA:19:G:C5	34:BA:1716:A:C2	3.04	0.46
34:BA:172:A:C5	34:BA:316:G:C2	3.04	0.46
34:BA:237:A:C8	34:BA:238:C:C4	3.03	0.46
34:BA:25:C:C2	34:BA:54:A:C5	3.04	0.46
34:BA:373:G:H2'	34:BA:374:U:O4'	2.16	0.46
34:BA:374:U:C6	34:BA:374:U:H5"	2.50	0.46
34:BA:407:A:C5	34:BA:433:G:C6	3.04	0.46
34:BA:269:G:N1	34:BA:438:A:C8	2.84	0.46
34:BA:463:A:C6	34:BA:465:A:C6	3.03	0.46
34:BA:700:G:N3	34:BA:700:G:H2'	2.29	0.46
34:BA:770:G:OP2	34:BA:770:G:C4	2.68	0.46
34:BA:848:U:C4	42:BI:66:ARG:NE	2.84	0.46
34:BA:796:G:O4'	34:BA:859:G:H5'	2.16	0.46
34:BA:86:A:C8	34:BA:97:A:N6	2.83	0.46
34:BA:935:A:C2	34:BA:936:A:C8	3.04	0.46
35:BB:784:C:H4'	35:BB:1042:U:O2'	2.15	0.46
35:BB:114:A:C8	35:BB:114:A:O5'	2.69	0.46
35:BB:1232:A:H2	35:BB:1244:U:H3	1.64	0.46
35:BB:1209:A:C4	35:BB:1258:G:C4	3.04	0.46
35:BB:1315:C:H2'	35:BB:1316:U:C6	2.51	0.46
35:BB:1316:U:C2	35:BB:1317:U:C4	3.03	0.46
35:BB:1336:G:C6	35:BB:1337:C:N4	2.83	0.46
35:BB:1370:G:C6	35:BB:1371:G:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:623:A:H61	35:BB:1441:C:H41	1.64	0.46
35:BB:1464:G:N1	40:BG:24:A:H5'	2.30	0.46
35:BB:402:G:C2	35:BB:403:U:C6	3.04	0.46
35:BB:423:G:C6	35:BB:450:A:C6	3.04	0.46
35:BB:593:A:C6	35:BB:594:U:C5	3.03	0.46
35:BB:614:U:N3	35:BB:615:A:C5	2.83	0.46
35:BB:622:G:H5'	51:BR:139:TYR:CZ	2.51	0.46
35:BB:92:C:H3'	35:BB:93:A:H8	1.80	0.46
35:BB:957:A:H2'	35:BB:958:C:C6	2.51	0.46
36:BC:105:C:C2	36:BC:149:A:C6	3.03	0.46
36:BC:119:G:C6	36:BC:145:G:C6	3.04	0.46
36:BC:144:C:C2	36:BC:145:G:C8	3.04	0.46
36:BC:158:U:OP2	36:BC:159:U:C5	2.69	0.46
37:BD:114:U:H2'	37:BD:115:A:C8	2.51	0.46
37:BD:25:G:N1	37:BD:26:C:C2	2.84	0.46
37:BD:72:U:H2'	37:BD:73:U:C6	2.50	0.46
38:BE:150:G:C6	38:BE:163:A:N1	2.83	0.46
38:BE:170:U:C5	38:BE:171:U:C5	3.04	0.46
38:BE:33:C:C2	38:BE:34:C:C6	3.03	0.46
38:BE:45:G:C4	38:BE:46:G:C8	3.04	0.46
39:BF:6:C:O2	39:BF:7:G:C6	2.68	0.46
40:BG:104:A:C5	40:BG:105:A:N7	2.84	0.46
40:BG:94:G:C2	40:BG:95:U:C6	3.04	0.46
41:BH:63:G:C5	41:BH:64:U:C6	3.04	0.46
41:BH:64:U:H2'	41:BH:65:G:C8	2.51	0.46
41:BH:69:C:C2	41:BH:70:U:C6	3.03	0.46
34:BA:849:G:H1'	42:BI:147:ARG:NE	2.31	0.46
34:BA:846:U:OP1	42:BI:73:ARG:CG	2.64	0.46
44:BK:47:PRO:O	44:BK:171:TRP:HA	2.15	0.46
45:BL:91:LEU:HB3	45:BL:96:PHE:CE1	2.50	0.46
51:BR:5:SER:HA	51:BR:118:GLN:OE1	2.16	0.46
58:BY:10:HIS:CD2	58:BY:57:ARG:NH1	2.83	0.46
34:BA:540:G:N2	34:BA:541:C:H1'	2.31	0.46
34:BA:545:U:H2'	34:BA:546:U:C5'	2.45	0.46
85:AA:128:U:C6	85:AA:128:U:O5'	2.69	0.46
85:AA:1499:G:H21	85:AA:1502:A:H2	1.63	0.46
85:AA:1492:U:C5	85:AA:1507:G:C2	3.04	0.46
85:AA:2132:A:C4	85:AA:2133:A:C8	3.03	0.46
85:AA:2180:C:C5	85:AA:2181:G:C5	3.04	0.46
85:AA:26:A:N3	85:AA:27:U:C5	2.84	0.46
85:AA:619:A:C4	85:AA:668:A:C6	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:686:U:C6	85:AA:687:G:C8	3.03	0.46
85:AA:698:G:C2'	85:AA:699:U:H5'	2.45	0.46
85:AA:923:A:N3	85:AA:923:A:H2'	2.30	0.46
35:BB:555:G:N3	35:BB:556:U:C6	2.84	0.46
35:BB:825:U:C6	35:BB:825:U:H3'	2.50	0.46
35:BB:854:G:C6	35:BB:855:G:C6	3.03	0.46
35:BB:798:A:N6	35:BB:976:U:C2	2.84	0.46
29:AV:17:ARG:HD3	85:AA:1185:G:N7	2.31	0.46
5:A4:3:ALA:HB1	5:A4:10:LEU:N	2.31	0.46
85:AA:1575:G:N1	85:AA:1577:G:N1	2.64	0.46
34:BA:262:A:N3	34:BA:280:A:C5	2.83	0.46
34:BA:674:G:C2'	34:BA:675:C:H5'	2.45	0.46
34:BA:596:G:N3	34:BA:1494:G:O6	2.48	0.46
85:AA:1690:A:C2	85:AA:1853:U:O4	2.68	0.46
7:A6:108:LEU:HD13	7:A6:147:VAL:HG22	1.96	0.46
7:A6:82:TYR:CG	7:A6:148:ARG:HA	2.51	0.46
85:AA:2148:C:H2'	85:AA:2149:C:O4'	2.15	0.46
85:AA:704:A:N3	85:AA:1219:A:C5	2.83	0.46
85:AA:272:C:C4	85:AA:273:C:C5	3.04	0.46
85:AA:978:U:H2'	85:AA:979:U:O4'	2.15	0.46
52:BS:8:HIS:CG	52:BS:66:VAL:HG13	2.51	0.46
85:AA:402:G:C6	85:AA:404:A:C8	3.03	0.46
47:BN:200:PHE:CE2	47:BN:207:ALA:HB2	2.51	0.46
85:AA:1159:C:C6	85:AA:1159:C:H3'	2.50	0.46
40:BG:135:C:C6	40:BG:135:C:C3'	2.98	0.46
85:AA:65:A:C8	85:AA:66:U:N3	2.84	0.46
85:AA:71:G:C5	85:AA:78:A:C6	3.03	0.46
49:BP:139:TRP:CD2	49:BP:139:TRP:C	2.88	0.46
85:AA:339:A:H8	85:AA:339:A:O5'	1.99	0.46
34:BA:1377:A:C2	34:BA:1378:A:C4	3.04	0.46
85:AA:824:C:C5	85:AA:826:C:C4	3.04	0.46
39:BF:38:C:C4	39:BF:39:C:C4	3.04	0.46
85:AA:748:C:C2	85:AA:757:A:N1	2.84	0.46
85:AA:1019:U:H2'	85:AA:1051:A:C5	2.50	0.46
34:BA:1123:G:H2'	34:BA:1124:U:O4'	2.15	0.46
86:AB:5:G:C5	86:AB:69:G:N1	2.83	0.46
86:AB:72:C:O2	86:AB:73:A:C8	2.68	0.46
22:AO:54:VAL:HG11	22:AO:69:TRP:CE3	2.51	0.46
85:AA:1295:G:C5	85:AA:1296:G:N7	2.84	0.46
34:BA:990:G:C4	34:BA:991:U:C6	3.04	0.46
85:AA:1938:G:N2	85:AA:1939:C:H1'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AP:163:THR:HG22	23:AP:164:ILE:H	1.79	0.46
35:BB:1054:G:C2	35:BB:1055:G:C4	3.03	0.46
5:A4:143:ARG:HB2	18:AJ:54:ASP:CB	2.46	0.46
35:BB:735:A:C5	35:BB:755:A:C6	3.03	0.46
47:BN:59:LEU:HA	47:BN:158:TYR:CD2	2.50	0.46
20:AL:102:ASP:HA	20:AL:122:PRO:HA	1.96	0.46
18:AJ:40:VAL:HG12	18:AJ:44:HIS:CE1	2.51	0.46
29:AV:46:MET:SD	29:AV:69:PRO:O	2.74	0.46
29:AV:8:HIS:CE1	85:AA:2243:G:OP2	2.69	0.46
19:AK:46:LEU:HG	19:AK:46:LEU:O	2.14	0.46
30:AW:65:CYS:HA	30:AW:73:MET:O	2.14	0.46
11:AC:99:ARG:NH2	25:AR:43:ASN:HA	2.30	0.46
85:AA:1382:A:C6	85:AA:1385:C:H5'	2.50	0.46
15:AG:132:VAL:HG23	15:AG:134:GLN:HG2	1.96	0.46
48:BO:139:ILE:O	48:BO:142:ALA:HB3	2.16	0.46
59:BZ:71:TYR:CE1	59:BZ:73:LEU:HB3	2.50	0.46
9:A8:51:ILE:HA	31:AX:14:GLY:HA3	1.98	0.46
85:AA:2153:G:N1	85:AA:2166:G:N1	2.64	0.46
85:AA:2159:C:C6	85:AA:2161:C:H1'	2.51	0.46
34:BA:1043:C:C4	34:BA:1581:G:C6	3.04	0.46
34:BA:1260:G:N2	34:BA:1261:G:H1'	2.30	0.46
34:BA:125:G:O6	34:BA:126:G:C6	2.69	0.46
34:BA:1539:A:C5	34:BA:1568:A:C6	3.04	0.46
34:BA:1672:C:H2'	34:BA:1673:G:C8	2.51	0.46
34:BA:1709:A:C2	34:BA:1721:U:O2	2.69	0.46
34:BA:1719:G:H2'	34:BA:1720:U:O4'	2.16	0.46
34:BA:1841:A:C2	35:BB:9:G:N3	2.84	0.46
34:BA:212:A:N1	34:BA:221:G:C2	2.83	0.46
34:BA:44:U:H6	34:BA:45:A:H2'	1.81	0.46
34:BA:702:G:C5	34:BA:703:U:C5	3.03	0.46
34:BA:730:C:C4	34:BA:1591:G:C2	3.04	0.46
34:BA:75:U:C4	34:BA:76:U:C5	3.03	0.46
35:BB:111:C:H5'	35:BB:112:G:C8	2.50	0.46
35:BB:1210:U:C2	35:BB:1211:C:C6	3.04	0.46
35:BB:1209:A:C4	35:BB:1258:G:C5	3.03	0.46
35:BB:1314:G:C4	35:BB:1315:C:C5	3.04	0.46
35:BB:1337:C:C5	35:BB:1338:U:H5	2.33	0.46
35:BB:417:A:O5'	35:BB:417:A:H8	1.99	0.46
34:BA:1845:G:H1	35:BB:5:A:N6	2.14	0.46
35:BB:67:A:H2'	35:BB:68:G:C8	2.51	0.46
35:BB:704:G:H2'	35:BB:705:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:93:A:C4	35:BB:94:A:C4	3.04	0.46
36:BC:52:A:H3'	36:BC:52:A:C8	2.50	0.46
37:BD:81:C:C2	37:BD:96:C:N3	2.84	0.46
38:BE:31:A:H2'	38:BE:32:U:N3	2.30	0.46
38:BE:72:C:C6	38:BE:72:C:C3'	2.98	0.46
39:BF:25:G:H4'	39:BF:26:U:OP1	2.15	0.46
39:BF:61:A:H5"	39:BF:62:U:C4	2.51	0.46
40:BG:26:G:N7	40:BG:27:C:C5	2.84	0.46
40:BG:3:G:H5"	40:BG:3:G:C8	2.51	0.46
40:BG:49:A:C4	40:BG:51:U:C4	3.04	0.46
41:BH:130:G:N2	41:BH:131:A:H1'	2.30	0.46
41:BH:25:A:C8	41:BH:25:A:O5'	2.69	0.46
50:BQ:178:GLN:OE1	50:BQ:179:ARG:HG3	2.15	0.46
34:BA:536:C:C6	34:BA:537:C:C6	3.04	0.46
85:AA:104:C:H5'	85:AA:448:G:O2'	2.15	0.46
85:AA:1225:C:C5	85:AA:1272:G:O6	2.69	0.46
85:AA:133:G:H2'	85:AA:134:U:O4'	2.15	0.46
85:AA:1498:C:C6	85:AA:1498:C:H5"	2.51	0.46
85:AA:371:C:C4	85:AA:372:U:C5	3.04	0.46
85:AA:43:A:C4	85:AA:443:A:N3	2.84	0.46
85:AA:495:G:C6	85:AA:496:C:C4	3.04	0.46
27:AT:111:ARG:HH11	85:AA:508:C:H5	1.64	0.46
85:AA:680:U:O2	85:AA:682:C:C5	2.68	0.46
85:AA:85:U:C6	85:AA:85:U:H3'	2.50	0.46
34:BA:663:U:H2'	34:BA:664:C:H6	1.81	0.46
35:BB:963:G:N1	35:BB:964:G:C4	2.84	0.46
35:BB:971:A:C5'	35:BB:971:A:C8	2.99	0.46
35:BB:796:C:H1'	35:BB:978:C:N4	2.31	0.46
85:AA:2208:G:OP2	85:AA:2208:G:H8	1.99	0.46
35:BB:465:C:C2	35:BB:508:U:N3	2.84	0.46
85:AA:1196:C:C4	85:AA:1197:U:C5	3.04	0.46
85:AA:938:A:C4	85:AA:939:A:C8	3.03	0.46
85:AA:2007:G:C6	85:AA:2035:C:O2'	2.65	0.46
34:BA:195:G:O6	34:BA:289:A:C5	2.69	0.46
34:BA:292:C:N3	34:BA:293:A:C8	2.84	0.46
85:AA:1985:C:P	85:AA:1986:G:H5"	2.56	0.46
34:BA:1244:G:C6	35:BB:640:A:N3	2.84	0.46
34:BA:717:U:H2'	34:BA:719:G:OP2	2.15	0.46
41:BH:15:A:C5	41:BH:16:A:C5	3.03	0.46
85:AA:2228:G:H2'	85:AA:2229:G:H8	1.77	0.46
85:AA:2221:A:C8	85:AA:2244:G:C2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:275:A:C2	85:AA:974:U:C2	3.04	0.46
34:BA:3:G:H8	34:BA:3:G:O5'	1.99	0.46
85:AA:546:U:C6	85:AA:546:U:H3'	2.51	0.46
85:AA:560:C:C2	85:AA:561:C:C6	3.04	0.46
85:AA:582:A:C5	85:AA:583:U:C6	3.04	0.46
85:AA:2076:C:C4	85:AA:2077:G:C5	3.03	0.46
85:AA:917:A:C2'	85:AA:918:U:H5'	2.46	0.46
52:BS:8:HIS:HB2	52:BS:32:PHE:CZ	2.51	0.46
85:AA:439:U:C3'	85:AA:439:U:C6	2.98	0.46
85:AA:1109:G:C2	85:AA:1110:A:C4	3.03	0.46
34:BA:1378:A:C4	34:BA:1379:G:C5	3.04	0.46
39:BF:49:C:H3'	39:BF:50:C:C5	2.51	0.46
85:AA:1244:A:H2'	85:AA:1245:U:C6	2.50	0.46
19:AK:5:LYS:CB	85:AA:1793:A:C8	2.98	0.46
34:BA:1430:C:C6	34:BA:1430:C:C3'	2.99	0.46
34:BA:1431:G:C6	34:BA:1432:C:N4	2.84	0.46
85:AA:1000:U:H2'	85:AA:1001:G:C8	2.50	0.46
85:AA:116:G:N3	85:AA:462:A:C6	2.84	0.46
23:AP:61:LEU:HB3	23:AP:65:PHE:CZ	2.50	0.46
35:BB:436:G:C5	35:BB:438:G:C8	3.04	0.46
54:BU:52:MET:CE	54:BU:95:HIS:CE1	2.99	0.46
35:BB:712:U:C6	35:BB:713:U:C4	3.03	0.46
34:BA:1219:G:H2'	34:BA:1220:C:O4'	2.16	0.46
47:BN:59:LEU:HA	47:BN:158:TYR:CE1	2.51	0.46
85:AA:1367:C:H2'	85:AA:1368:G:N7	2.31	0.46
35:BB:50:A:C4	35:BB:51:U:C6	3.04	0.46
85:AA:1946:C:H3'	85:AA:1947:A:C8	2.51	0.46
22:AO:28:PRO:CB	22:AO:32:VAL:HG13	2.46	0.46
34:BA:1280:A:C6	34:BA:1281:U:C5	3.04	0.46
34:BA:445:C:C6	34:BA:445:C:O5'	2.69	0.46
5:A4:99:VAL:HG22	5:A4:100:ALA:N	2.31	0.46
85:AA:1607:A:N6	85:AA:1632:G:H1'	2.30	0.46
35:BB:909:U:H3	35:BB:949:G:H1	1.63	0.46
23:AP:44:VAL:HG13	23:AP:46:CYS:SG	2.55	0.46
44:BK:176:ILE:HG23	44:BK:177:LEU:O	2.15	0.46
34:BA:1063:G:C2	34:BA:1064:A:C4	3.03	0.46
34:BA:1192:A:N1	34:BA:1193:A:C4	2.84	0.46
34:BA:1255:G:C6	34:BA:1256:A:C6	3.04	0.46
34:BA:1295:U:H1'	34:BA:1296:U:N3	2.31	0.46
34:BA:130:U:H2'	34:BA:131:A:H3'	1.98	0.46
34:BA:146:G:C6	34:BA:147:U:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1627:U:H3'	34:BA:1628:A:C8	2.50	0.46
34:BA:1675:C:C5	34:BA:1676:A:N7	2.83	0.46
34:BA:1675:C:N4	34:BA:1676:A:C6	2.84	0.46
34:BA:1786:C:N3	34:BA:1787:U:C4	2.84	0.46
34:BA:1797:A:H4'	34:BA:1798:G:O5'	2.16	0.46
34:BA:186:G:H2'	34:BA:187:G:C8	2.51	0.46
34:BA:26:C:H4'	34:BA:59:A:H4'	1.98	0.46
34:BA:300:C:O2'	34:BA:301:U:H5'	2.15	0.46
34:BA:370:U:H2'	34:BA:370:U:O2	2.16	0.46
34:BA:371:U:H2'	34:BA:372:U:O4'	2.15	0.46
34:BA:443:U:H1'	34:BA:458:G:N2	2.31	0.46
34:BA:701:G:C2	34:BA:702:G:N9	2.83	0.46
34:BA:804:G:C8	34:BA:805:A:C4	3.03	0.46
34:BA:827:A:C2	34:BA:841:G:N3	2.84	0.46
34:BA:821:G:H1'	34:BA:849:G:N1	2.31	0.46
34:BA:890:G:H2'	34:BA:891:C:C6	2.50	0.46
34:BA:955:G:C2	34:BA:956:G:C2	3.04	0.46
34:BA:97:A:C2	34:BA:98:A:C5	3.04	0.46
35:BB:1102:U:C5	35:BB:1103:A:C6	3.04	0.46
35:BB:1110:G:C6	35:BB:1111:C:C4	3.04	0.46
35:BB:1136:G:O3'	35:BB:1138:A:C8	2.69	0.46
35:BB:1144:A:N1	35:BB:1145:G:C5	2.84	0.46
35:BB:1153:G:C4	35:BB:1154:C:C6	3.03	0.46
35:BB:1157:G:H2'	35:BB:1158:C:C6	2.50	0.46
35:BB:1231:U:H2'	35:BB:1232:A:H8	1.81	0.46
34:BA:369:A:C6	35:BB:1242:C:C2	3.04	0.46
35:BB:1311:G:C6	35:BB:1312:U:N3	2.84	0.46
35:BB:1335:G:C5	35:BB:1336:G:C5	3.04	0.46
35:BB:369:A:C6	35:BB:370:A:N6	2.84	0.46
35:BB:411:A:C5	35:BB:413:A:N7	2.84	0.46
35:BB:423:G:C6	35:BB:424:U:C4	3.03	0.46
34:BA:1845:G:C2	35:BB:6:A:C5	3.04	0.46
35:BB:990:G:H3'	35:BB:990:G:P	2.56	0.46
36:BC:117:A:C2	36:BC:147:G:C4	3.04	0.46
36:BC:54:G:C5	36:BC:55:U:C5	3.04	0.46
36:BC:88:A:C2	36:BC:90:U:C2	3.04	0.46
37:BD:105:G:C5	37:BD:106:G:N7	2.84	0.46
37:BD:107:G:C6	37:BD:108:G:C6	3.04	0.46
37:BD:17:G:C6	37:BD:18:G:C5	3.04	0.46
38:BE:104:G:C2	38:BE:105:A:C4	3.04	0.46
38:BE:154:A:H2'	38:BE:155:C:H5"	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:163:A:C5	38:BE:164:C:C5	3.04	0.46
38:BE:30:C:H2'	38:BE:31:A:C8	2.51	0.46
38:BE:8:G:C2	38:BE:9:C:N3	2.84	0.46
39:BF:8:C:C4	39:BF:18:U:N3	2.84	0.46
40:BG:94:G:C6	40:BG:104:A:N6	2.84	0.46
40:BG:110:U:C2	40:BG:111:C:C5	3.04	0.46
40:BG:28:A:H2'	40:BG:29:U:O4'	2.16	0.46
40:BG:4:A:C8	40:BG:4:A:OP2	2.69	0.46
40:BG:80:G:C6	40:BG:81:G:C5	3.04	0.46
34:BA:845:U:H1'	42:BI:77:TRP:CZ2	2.51	0.46
47:BN:62:GLN:HA	47:BN:76:LEU:CD1	2.45	0.46
58:BY:6:CYS:O	58:BY:10:HIS:CA	2.64	0.46
4:A3:152:ARG:CG	85:AA:145:C:C5'	2.94	0.46
85:AA:123:A:C2	85:AA:330:C:C4	3.03	0.46
85:AA:1274:A:C2	85:AA:1276:A:O4'	2.69	0.46
85:AA:130:G:H2'	85:AA:131:C:O4'	2.16	0.46
85:AA:1475:A:OP1	85:AA:1475:A:H4'	2.15	0.46
85:AA:1491:G:O2'	85:AA:1492:U:H6	1.98	0.46
85:AA:159:G:C4	85:AA:164:G:C2	3.04	0.46
85:AA:127:U:C5	85:AA:180:A:H5"	2.51	0.46
85:AA:2186:U:C3'	85:AA:2186:U:C6	2.98	0.46
85:AA:2202:G:C6	85:AA:2203:C:C4	3.03	0.46
85:AA:372:U:C6	85:AA:372:U:H3'	2.51	0.46
85:AA:51:A:H3'	85:AA:52:U:H6	1.79	0.46
32:AY:62:PRO:HD2	85:AA:633:C:H1'	1.98	0.46
32:AY:3:LYS:O	32:AY:5:HIS:CE1	2.69	0.46
34:BA:618:G:C5	34:BA:619:U:C4	3.04	0.46
35:BB:849:A:H5"	35:BB:850:U:H5"	1.97	0.46
35:BB:872:A:C2	35:BB:963:G:C4	3.04	0.46
57:BX:58:HIS:CD2	57:BX:61:ARG:HH11	2.34	0.46
4:A3:9:ARG:NE	58:BY:84:ARG:CZ	2.71	0.46
85:AA:1119:A:N1	85:AA:1206:A:C2	2.84	0.46
35:BB:1164:U:O2	35:BB:1187:G:N2	2.48	0.46
35:BB:530:C:C5	35:BB:531:U:C5	3.04	0.46
85:AA:875:C:N4	85:AA:930:G:H1	2.14	0.46
85:AA:1544:G:C4	85:AA:2046:G:C6	3.03	0.46
34:BA:255:G:C6	34:BA:257:G:N7	2.84	0.46
41:BH:18:C:C4	41:BH:19:G:C8	3.03	0.46
85:AA:1457:C:C5'	85:AA:1457:C:H6	2.29	0.46
85:AA:1667:C:H3'	85:AA:1668:G:C8	2.51	0.46
85:AA:1681:G:O5'	85:AA:1681:G:H8	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1703:A:C6	85:AA:1704:C:N4	2.84	0.46
85:AA:2225:G:C5	85:AA:2226:U:C4	3.04	0.46
13:AE:55:GLY:HA2	85:AA:313:A:C1'	2.46	0.46
85:AA:267:U:N3	85:AA:268:A:C2	2.84	0.46
85:AA:985:G:C4	85:AA:986:U:C6	3.03	0.46
85:AA:557:G:C6	85:AA:571:G:C6	3.04	0.46
85:AA:2067:A:C5	85:AA:2069:A:C4	3.04	0.46
85:AA:713:G:C3'	85:AA:714:U:H5'	2.45	0.46
85:AA:114:C:H3'	85:AA:114:C:C6	2.51	0.46
85:AA:389:A:C6	85:AA:390:U:C4	3.04	0.46
35:BB:1000:U:C4	35:BB:1001:G:N7	2.83	0.46
40:BG:136:G:C6	40:BG:137:G:N9	2.84	0.46
85:AA:1109:G:N3	85:AA:1109:G:H2'	2.31	0.46
34:BA:1376:U:O2	34:BA:1378:A:C8	2.69	0.46
35:BB:751:A:C8	86:AB:57:G:C2	3.03	0.46
85:AA:346:U:C4	85:AA:347:U:C5	3.03	0.46
34:BA:527:C:C2	34:BA:585:G:C2	3.04	0.46
85:AA:1007:G:C2	85:AA:1096:G:C2	3.03	0.46
85:AA:1099:U:C5	85:AA:1100:U:C5	3.04	0.46
35:BB:961:G:C2	35:BB:962:U:C6	3.04	0.46
39:BF:3:A:C5	39:BF:4:A:C8	3.03	0.46
16:AH:21:TYR:CE1	16:AH:85:ALA:HB1	2.50	0.46
11:AC:235:VAL:HA	11:AC:238:PHE:HB2	1.96	0.46
35:BB:630:A:C6	35:BB:631:G:C6	3.04	0.46
34:BA:1353:U:H2'	34:BA:1355:G:H5"	1.97	0.46
85:AA:1885:A:C5	85:AA:1887:G:C8	3.04	0.46
17:AI:40:PHE:CE1	17:AI:93:THR:HG22	2.51	0.46
85:AA:1969:A:C2	85:AA:1970:A:C2	3.04	0.46
8:A7:151:HIS:CE1	8:A7:179:LYS:HE2	2.50	0.46
34:BA:902:C:C2	34:BA:903:C:C5	3.04	0.46
34:BA:902:C:N3	34:BA:903:C:C4	2.84	0.46
6:A5:161:LYS:HA	6:A5:164:TYR:CD2	2.51	0.46
2:A1:79:TYR:CG	2:A1:80:PRO:HD2	2.51	0.46
35:BB:408:U:C4	35:BB:1414:A:C2	3.04	0.46
47:BN:102:VAL:HG23	47:BN:103:ASP:H	1.80	0.46
85:AA:412:G:N1	85:AA:413:G:C5	2.84	0.46
35:BB:357:C:H4'	35:BB:358:U:C6	2.50	0.46
13:AE:102:ILE:HG12	13:AE:123:ILE:HG23	1.98	0.46
14:AF:119:LEU:HD13	85:AA:1604:A:H62	1.81	0.46
18:AJ:41:MET:HA	18:AJ:129:PHE:CZ	2.51	0.46
4:A3:204:LYS:NZ	4:A3:208:GLU:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:81:HIS:CE1	28:AU:106:VAL:HG22	2.51	0.46
48:BO:170:ASP:O	48:BO:173:GLU:HB3	2.15	0.46
13:AE:69:TYR:C	13:AE:69:TYR:CD1	2.89	0.46
6:A5:81:VAL:HA	6:A5:102:VAL:HG12	1.97	0.46
35:BB:907:U:C4	35:BB:952:U:C4	3.04	0.46
85:AA:2164:G:C6	85:AA:2165:C:C5	3.04	0.46
34:BA:1016:A:C4	34:BA:1017:C:C6	3.03	0.46
34:BA:37:A:C5	34:BA:1036:G:C6	3.04	0.46
34:BA:1054:U:H3'	34:BA:1055:U:C6	2.51	0.46
34:BA:113:G:C8	34:BA:114:U:OP2	2.69	0.46
34:BA:1186:U:H3'	34:BA:1187:U:C5'	2.46	0.46
34:BA:1201:G:C6	34:BA:1202:G:N7	2.83	0.46
34:BA:1261:G:H2'	34:BA:1262:A:C5'	2.46	0.46
34:BA:135:G:H2'	34:BA:136:A:O4'	2.16	0.46
34:BA:1477:C:H5"	34:BA:1478:G:C2	2.50	0.46
34:BA:1603:A:C5	34:BA:1604:A:C5	3.04	0.46
34:BA:1662:U:C5	35:BB:18:A:C2	3.04	0.46
34:BA:1820:G:N1	34:BA:1821:A:C2	2.84	0.46
34:BA:239:C:H5"	34:BA:239:C:H6	1.80	0.46
34:BA:363:G:N1	34:BA:379:C:C2	2.83	0.46
34:BA:112:C:C4	34:BA:382:G:O6	2.68	0.46
34:BA:111:U:C4	34:BA:383:G:N3	2.84	0.46
34:BA:449:G:C4	34:BA:453:A:C6	3.04	0.46
34:BA:695:A:O2'	34:BA:696:A:H5'	2.16	0.46
34:BA:757:G:C5'	34:BA:758:G:N2	2.79	0.46
34:BA:856:G:N2	34:BA:857:C:H1'	2.31	0.46
34:BA:797:A:C2	34:BA:858:C:H1'	2.51	0.46
34:BA:912:G:H2'	34:BA:913:U:C6	2.51	0.46
34:BA:952:G:C6	34:BA:953:G:C4	3.03	0.46
35:BB:1081:U:C5	35:BB:1082:A:N3	2.83	0.46
35:BB:1086:G:N3	35:BB:1086:G:H2'	2.30	0.46
35:BB:1094:A:C6	35:BB:1095:G:C8	3.04	0.46
35:BB:1361:A:C2	35:BB:1362:G:N3	2.84	0.46
35:BB:1367:U:O4	35:BB:1368:A:C4	2.69	0.46
35:BB:1:U:O5'	35:BB:2:C:H1'	2.16	0.46
35:BB:620:G:N7	35:BB:621:C:C5	2.84	0.46
35:BB:72:G:O6	35:BB:73:G:C6	2.69	0.46
35:BB:81:A:H1'	40:BG:121:C:C4	2.51	0.46
36:BC:134:G:C2	36:BC:135:A:C4	3.04	0.46
36:BC:135:A:N1	36:BC:136:G:C5	2.83	0.46
34:BA:14:G:C6	36:BC:153:C:N3	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:56:G:N7	36:BC:57:C:C5	2.83	0.46
36:BC:71:A:N9	36:BC:87:C:H1'	2.31	0.46
37:BD:52:U:H4'	45:BL:16:MET:HB3	1.98	0.46
37:BD:60:C:C2	37:BD:61:C:C6	3.04	0.46
39:BF:70:A:H3'	39:BF:70:A:C8	2.51	0.46
40:BG:119:A:C4	40:BG:122:G:N7	2.84	0.46
40:BG:28:A:C4	40:BG:29:U:C5	3.03	0.46
40:BG:7:U:C4	40:BG:8:U:C5	3.03	0.46
40:BG:94:G:C6	40:BG:95:U:C5	3.04	0.46
41:BH:107:A:C8	41:BH:108:U:C5	3.04	0.46
41:BH:68:G:N2	41:BH:69:C:C2	2.84	0.46
44:BK:43:VAL:HB	44:BK:174:THR:HG21	1.98	0.46
34:BA:742:C:C2	47:BN:10:HIS:CG	3.04	0.46
49:BP:46:MET:HG2	49:BP:49:HIS:CD2	2.51	0.46
50:BQ:137:TRP:CE3	50:BQ:137:TRP:O	2.69	0.46
2:A1:24:PHE:CD1	2:A1:27:ARG:HD3	2.51	0.46
85:AA:1278:C:C6	85:AA:1278:C:C3'	2.99	0.46
85:AA:456:A:C5	85:AA:457:G:C8	3.04	0.46
85:AA:621:U:H2'	85:AA:622:G:C8	2.50	0.46
85:AA:688:C:C2	85:AA:689:U:C6	3.04	0.46
85:AA:90:A:C5	85:AA:463:G:C2	3.04	0.46
34:BA:667:U:H6	34:BA:667:U:O5'	1.98	0.46
35:BB:799:A:H2'	35:BB:972:C:H4'	1.98	0.46
35:BB:830:G:H2'	35:BB:831:C:O4'	2.15	0.46
85:AA:1112:G:N7	85:AA:1114:A:C4	2.83	0.46
85:AA:1209:U:C2	85:AA:1210:U:C4	3.04	0.46
85:AA:709:A:N7	85:AA:710:A:C2	2.84	0.46
35:BB:537:A:N1	35:BB:538:A:C2	2.83	0.46
85:AA:1547:G:C2	85:AA:2041:G:C2	3.03	0.46
85:AA:1580:A:C6	85:AA:2021:A:C5	3.04	0.46
34:BA:1208:U:H6	34:BA:1208:U:OP1	1.99	0.46
22:AO:132:LYS:HZ2	22:AO:138:HIS:CE1	2.34	0.46
34:BA:1236:U:C4	34:BA:1249:G:C6	3.04	0.46
34:BA:716:C:N4	34:BA:720:A:C8	2.84	0.46
35:BB:1274:G:C2	35:BB:1328:C:C2	3.04	0.46
34:BA:597:C:C5	34:BA:598:G:C6	3.04	0.46
85:AA:241:U:H4'	85:AA:242:G:N2	2.31	0.46
85:AA:1448:A:C6	85:AA:1449:C:N3	2.84	0.46
85:AA:1690:A:C5	85:AA:1692:U:O4'	2.69	0.46
7:A6:82:TYR:HB3	7:A6:106:ARG:NH2	2.30	0.46
85:AA:1622:G:N2	85:AA:1625:C:C5	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:283:A:C2	85:AA:286:C:OP2	2.69	0.46
85:AA:568:C:H2'	85:AA:569:A:O4'	2.16	0.46
3:A2:42:TRP:CH2	3:A2:52:ILE:HB	2.51	0.46
85:AA:777:U:H5	85:AA:778:C:C5	2.33	0.46
85:AA:1718:C:N3	85:AA:1720:C:C5	2.84	0.46
85:AA:524:A:C2	85:AA:525:C:H1'	2.51	0.46
35:BB:1002:G:C6	35:BB:1003:G:C5	3.04	0.46
85:AA:1234:G:C2	85:AA:1235:G:H1'	2.51	0.46
34:BA:1090:A:C6	34:BA:1091:U:C2	3.04	0.46
34:BA:1092:U:H2'	34:BA:1093:G:O4'	2.16	0.46
35:BB:1415:G:C5	35:BB:1416:A:N7	2.84	0.46
35:BB:1432:U:C4	35:BB:1433:U:O4	2.68	0.46
39:BF:36:G:C2	39:BF:48:G:N3	2.84	0.46
39:BF:53:G:O5'	39:BF:54:U:C5	2.69	0.46
4:A3:125:GLU:O	4:A3:130:VAL:HG22	2.15	0.46
54:BU:56:TYR:HB3	54:BU:57:TYR:CE2	2.51	0.46
35:BB:1263:A:C6	35:BB:1264:U:C4	3.04	0.46
85:AA:1955:U:O4	85:AA:1956:C:C2	2.69	0.46
34:BA:689:C:H5"	39:BF:1:C:C5	2.51	0.46
35:BB:1379:U:C6	35:BB:1379:U:H3'	2.51	0.46
54:BU:79:PRO:HA	54:BU:84:THR:HG22	1.97	0.46
85:AA:850:U:H2'	85:AA:851:G:C8	2.51	0.46
85:AA:386:G:C2	85:AA:387:U:H4'	2.50	0.46
35:BB:141:G:C6	35:BB:320:G:C6	3.04	0.46
30:AW:32:TYR:HA	85:AA:1208:C:H41	1.81	0.46
2:A1:51:TYR:CE2	27:AT:22:LEU:HB3	2.51	0.46
85:AA:1553:G:C2	85:AA:1903:G:C4	3.04	0.46
46:BM:85:LEU:CD1	46:BM:85:LEU:N	3.22	0.46
85:AA:412:G:C4	85:AA:413:G:C8	3.04	0.46
15:AG:23:PRO:HG2	15:AG:25:TRP:NE1	2.31	0.46
34:BA:1080:U:H2'	34:BA:1081:U:C5'	2.45	0.46
35:BB:1322:A:H2'	35:BB:1323:U:H6	1.80	0.46
23:AP:193:VAL:N	23:AP:194:PRO:HD2	2.31	0.46
21:AM:136:HIS:CE1	21:AM:139:THR:CG2	2.99	0.46
33:AZ:41:GLY:HA2	33:AZ:63:LEU:HA	1.98	0.46
2:A1:190:GLY:HA2	2:A1:208:LYS:O	2.16	0.46
85:AA:1772:U:H5'	85:AA:1775:U:C5	2.50	0.46
26:AS:119:ARG:HB3	26:AS:120:PHE:CZ	2.51	0.46
34:BA:1043:C:C4	34:BA:1581:G:N1	2.84	0.46
34:BA:1046:G:N1	34:BA:1522:G:C5	2.84	0.46
34:BA:1053:U:H3'	34:BA:1053:U:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1073:G:C8	34:BA:1073:G:H3'	2.51	0.46
34:BA:1117:G:C2	34:BA:1142:C:N3	2.84	0.46
34:BA:1142:C:C5	34:BA:1142:C:OP2	2.69	0.46
34:BA:1146:U:C6	34:BA:1146:U:O5'	2.69	0.46
34:BA:1156:U:C4	34:BA:1157:A:C5	3.04	0.46
34:BA:129:U:C2	34:BA:135:G:C2	3.04	0.46
34:BA:1523:U:C2	34:BA:1525:G:C8	3.04	0.46
34:BA:1551:G:H2'	34:BA:1552:C:C5	2.50	0.46
34:BA:155:U:H2'	34:BA:167:U:O3'	2.16	0.46
34:BA:15:G:N3	34:BA:15:G:H2'	2.30	0.46
34:BA:1615:A:H4'	34:BA:1616:A:OP1	2.16	0.46
34:BA:1691:G:C6	34:BA:1825:U:O4	2.69	0.46
34:BA:1822:U:N3	34:BA:1823:A:C2	2.84	0.46
34:BA:450:G:C4	34:BA:1615:A:C4	3.03	0.46
34:BA:463:A:C6	34:BA:466:G:C5	3.04	0.46
34:BA:487:A:H2	35:BB:652:G:H5'	1.80	0.46
34:BA:696:A:C2	34:BA:697:A:C4	3.04	0.46
34:BA:5:C:C4	34:BA:6:C:C5	3.04	0.46
34:BA:732:A:C5	34:BA:733:G:C8	3.04	0.46
34:BA:802:G:C5	34:BA:803:U:C6	3.04	0.46
34:BA:854:A:C5	34:BA:855:C:C5	3.04	0.46
34:BA:906:A:H61	34:BA:1033:G:H1	1.64	0.46
34:BA:937:G:C4	34:BA:938:C:C6	3.04	0.46
34:BA:943:G:C4	34:BA:944:G:C8	3.04	0.46
35:BB:1232:A:C6	35:BB:1245:A:C2	3.04	0.46
35:BB:1249:G:N3	35:BB:1249:G:H2'	2.30	0.46
35:BB:125:G:N2	35:BB:379:U:H1'	2.30	0.46
35:BB:1353:G:N1	35:BB:1365:G:C6	2.84	0.46
35:BB:1468:A:H2'	35:BB:1469:A:N7	2.30	0.46
35:BB:595:U:H2'	35:BB:596:C:C6	2.51	0.46
35:BB:59:U:H6	35:BB:59:U:H5"	1.80	0.46
35:BB:902:C:H2'	35:BB:903:U:C6	2.50	0.46
36:BC:124:A:N1	36:BC:140:U:C2	2.84	0.46
36:BC:138:C:H6	36:BC:138:C:O5'	1.99	0.46
38:BE:101:C:C2'	38:BE:117:A:H61	2.26	0.46
38:BE:123:A:C6	38:BE:124:G:C6	3.03	0.46
38:BE:148:C:H3'	38:BE:149:A:C8	2.50	0.46
38:BE:158:U:C3'	38:BE:159:A:C8	2.98	0.46
38:BE:180:G:C2	38:BE:181:U:H2'	2.50	0.46
38:BE:20:C:C4	38:BE:21:C:C5	3.04	0.46
38:BE:50:G:C2	38:BE:59:U:C2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:66:A:C8	38:BE:67:A:C8	3.04	0.46
38:BE:66:A:H3'	38:BE:67:A:C8	2.50	0.46
38:BE:67:A:C8	38:BE:67:A:O5'	2.69	0.46
38:BE:96:G:C4	38:BE:97:G:N7	2.84	0.46
39:BF:60:C:O2'	39:BF:61:A:H2'	2.16	0.46
40:BG:129:G:C5	40:BG:162:A:C6	3.04	0.46
40:BG:164:U:C2	40:BG:165:C:C5	3.04	0.46
40:BG:34:A:C4	40:BG:169:A:N9	2.84	0.46
40:BG:64:C:H2'	40:BG:65:C:C6	2.51	0.46
40:BG:6:A:C6	40:BG:7:U:C4	3.04	0.46
41:BH:28:U:C2	41:BH:29:G:C8	3.04	0.46
41:BH:43:G:C4	41:BH:44:A:N7	2.84	0.46
41:BH:63:G:O6	41:BH:64:U:C4	2.69	0.46
45:BL:105:ASP:HA	45:BL:163:LYS:HE3	1.98	0.46
47:BN:36:GLN:O	47:BN:39:ARG:HB3	2.15	0.46
40:BG:95:U:OP1	53:BT:58:HIS:CE1	2.69	0.46
40:BG:95:U:H2'	53:BT:62:ARG:HH12	1.80	0.46
7:A6:14:PRO:HG3	7:A6:42:TRP:CD1	2.51	0.46
85:AA:692:U:H5"	85:AA:1279:A:C8	2.50	0.46
85:AA:146:U:C6	85:AA:333:A:H1'	2.51	0.46
85:AA:148:G:C2	85:AA:176:C:O2	2.69	0.46
85:AA:159:G:N2	85:AA:162:A:OP2	2.49	0.46
85:AA:24:U:H2'	85:AA:26:A:C8	2.50	0.46
85:AA:355:G:H2'	85:AA:356:U:H6	1.81	0.46
85:AA:108:C:N3	85:AA:369:A:N1	2.64	0.46
85:AA:369:A:O2'	85:AA:370:A:H5'	2.16	0.46
85:AA:466:A:H5"	85:AA:467:U:OP1	2.15	0.46
85:AA:512:U:H2'	85:AA:513:G:C8	2.51	0.46
85:AA:690:G:C6	85:AA:696:G:O6	2.69	0.46
34:BA:628:U:C5	34:BA:630:U:C4	3.04	0.46
56:BW:89:ARG:HE	56:BW:93:THR:HG21	1.81	0.46
6:A5:181:GLU:HB3	41:BH:92:A:OP1	2.15	0.46
85:AA:1133:C:OP2	85:AA:1133:C:C5	2.69	0.46
85:AA:937:G:O3'	85:AA:938:A:C8	2.69	0.46
85:AA:1910:A:C6	85:AA:2006:G:C4'	2.99	0.46
34:BA:1242:A:C2	34:BA:1243:A:C2	3.04	0.46
34:BA:726:G:O6	34:BA:727:G:C6	2.69	0.46
35:BB:1287:U:C4	35:BB:1288:G:N7	2.84	0.46
35:BB:660:G:N2	35:BB:1440:A:C2	2.84	0.46
85:AA:209:C:H3'	85:AA:209:C:C6	2.51	0.46
35:BB:1529:G:N1	35:BB:1540:U:C2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1450:U:H2'	85:AA:1451:U:O4'	2.15	0.46
18:AJ:12:ARG:NH1	85:AA:1472:G:C6	2.84	0.46
85:AA:312:G:C8	85:AA:313:A:C8	3.03	0.46
85:AA:2147:A:C2	85:AA:2148:C:H1'	2.51	0.46
85:AA:2171:A:C8	85:AA:2171:A:H3'	2.51	0.46
85:AA:274:A:C2	85:AA:975:G:C6	3.04	0.46
3:A2:42:TRP:CD1	3:A2:48:ARG:O	2.69	0.46
85:AA:2057:G:H2'	85:AA:2057:G:N3	2.31	0.46
34:BA:1408:C:H2'	34:BA:1409:A:C8	2.51	0.46
34:BA:1409:A:C2	34:BA:1410:C:H1'	2.50	0.46
35:BB:1018:U:H6	35:BB:1018:U:O5'	1.99	0.46
34:BA:252:A:H3'	34:BA:252:A:C8	2.51	0.46
85:AA:1241:A:C5	85:AA:1262:A:C4	3.04	0.46
34:BA:1093:G:C2	34:BA:1165:A:C2	3.03	0.46
85:AA:348:G:N1	85:AA:349:C:C2	2.84	0.46
34:BA:534:C:C5'	56:BW:82:ARG:HG3	134.69	0.46
86:AB:70:G:H2'	86:AB:71:G:OP1	2.16	0.46
35:BB:479:U:N3	35:BB:480:C:C5	2.84	0.46
85:AA:1828:C:OP2	85:AA:1829:C:C5	2.69	0.46
35:BB:683:U:H2'	35:BB:684:U:C6	2.51	0.46
35:BB:1384:A:C6	35:BB:1385:C:C2	3.04	0.46
35:BB:1479:C:H2'	35:BB:1480:G:C8	2.51	0.46
5:A4:191:MET:SD	85:AA:1356:U:OP1	2.74	0.46
85:AA:1600:G:C6	85:AA:1601:G:C6	3.04	0.46
34:BA:1583:A:C5	34:BA:1584:G:C6	3.04	0.46
8:A7:223:TRP:CE3	8:A7:230:ALA:HA	2.51	0.46
59:BZ:105:LYS:C	59:BZ:105:LYS:HZ3	2.19	0.46
23:AP:120:HIS:HA	23:AP:147:VAL:O	2.15	0.46
11:AC:156:ARG:HH21	23:AP:248:ASP:CG	2.18	0.46
3:A2:18:GLN:O	3:A2:99:ILE:HG21	2.15	0.46
35:BB:1323:U:C6	35:BB:1323:U:O5'	2.69	0.46
56:BW:120:VAL:O	56:BW:139:VAL:CG2	2.64	0.46
44:BK:177:LEU:CD1	44:BK:180:GLU:H	2.28	0.46
11:AC:66:SER:HA	11:AC:83:ASN:HD21	1.81	0.46
26:AS:140:LYS:HG3	26:AS:141:PRO:HD2	1.97	0.46
2:A1:189:ILE:H	2:A1:241:GLY:HA3	1.81	0.46
2:A1:9:LEU:CD2	2:A1:11:ALA:H	2.29	0.46
23:AP:87:ARG:HB3	23:AP:200:PHE:CG	2.50	0.46
85:AA:1571:A:C8	85:AA:1572:C:C5	3.04	0.46
85:AA:206:U:H2'	85:AA:207:G:H3'	1.97	0.46
34:BA:1025:A:C2	34:BA:1026:C:C2	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1260:G:C4	34:BA:1270:G:N2	2.84	0.45
34:BA:1282:G:C5	34:BA:1283:U:C4	3.04	0.45
34:BA:1309:U:OP1	34:BA:1309:U:C5	2.69	0.45
34:BA:135:G:C2	34:BA:136:A:C4	3.04	0.45
34:BA:1554:C:C5	34:BA:1555:G:C5	3.05	0.45
34:BA:1547:G:C2	34:BA:1562:G:C4	3.04	0.45
34:BA:156:U:H2'	34:BA:167:U:H5'	1.98	0.45
34:BA:161:U:C6	34:BA:161:U:C5'	2.99	0.45
34:BA:1620:U:H2'	34:BA:1621:U:C6	2.51	0.45
34:BA:1623:U:C4	34:BA:1625:C:H5"	2.51	0.45
34:BA:1661:U:C1'	34:BA:1662:U:C5	2.98	0.45
34:BA:1690:U:O4	34:BA:1823:A:C2	2.69	0.45
34:BA:1736:A:N1	34:BA:1737:A:C4	2.84	0.45
34:BA:1834:A:C2	34:BA:1835:A:C1'	2.98	0.45
34:BA:1845:G:N1	35:BB:5:A:N6	2.64	0.45
34:BA:299:C:C2	34:BA:300:C:C6	3.04	0.45
34:BA:162:G:C5	34:BA:321:G:N7	2.84	0.45
34:BA:165:C:C4	34:BA:322:U:C2	3.04	0.45
34:BA:490:A:C5	34:BA:491:U:N3	2.84	0.45
34:BA:52:G:C6	34:BA:53:G:C5	3.03	0.45
34:BA:705:C:C2'	34:BA:706:C:C6	2.97	0.45
34:BA:756:A:C8	34:BA:757:G:C1'	2.99	0.45
34:BA:760:G:C2	34:BA:761:U:C4	3.04	0.45
34:BA:817:U:C4	34:BA:854:A:N1	2.84	0.45
34:BA:87:G:O6	34:BA:96:G:C4	2.69	0.45
35:BB:1250:A:H5"	53:BT:67:LYS:HE3	125.49	0.45
35:BB:1269:A:C4	35:BB:1270:C:C6	3.05	0.45
35:BB:1345:A:N3	35:BB:1345:A:H2'	2.30	0.45
35:BB:30:A:O2'	35:BB:32:C:C5	2.69	0.45
35:BB:124:G:C2	35:BB:380:G:C6	3.04	0.45
34:BA:959:G:C2	35:BB:401:U:C2	3.04	0.45
35:BB:54:U:H2'	35:BB:55:C:C6	2.52	0.45
34:BA:728:A:O4'	35:BB:627:G:H2'	2.16	0.45
35:BB:68:G:C4	35:BB:69:A:C6	3.04	0.45
35:BB:72:G:C5	35:BB:73:G:N7	2.84	0.45
36:BC:13:U:C6	36:BC:13:U:C3'	2.99	0.45
36:BC:3:C:N3	36:BC:4:G:C5	2.83	0.45
36:BC:78:G:H2'	36:BC:79:A:N9	2.32	0.45
36:BC:91:G:C2	36:BC:92:C:C2	3.04	0.45
38:BE:152:U:N3	38:BE:154:A:C2	2.84	0.45
38:BE:161:G:C5	38:BE:162:U:C5	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:76:U:H1'	38:BE:84:U:C4	2.51	0.45
39:BF:72:A:H3'	39:BF:73:U:O2	2.16	0.45
40:BG:33:G:H22	40:BG:173:C:H42	1.64	0.45
41:BH:47:G:C4	41:BH:106:G:C2	3.03	0.45
41:BH:26:C:OP2	41:BH:26:C:C6	2.70	0.45
35:BB:1230:A:N6	47:BN:199:PHE:CE1	2.84	0.45
50:BQ:178:GLN:HE22	50:BQ:179:ARG:HG2	1.81	0.45
51:BR:4:TYR:CE2	51:BR:18:LYS:HB2	2.52	0.45
53:BT:100:ARG:HA	53:BT:103:ARG:HB2	1.98	0.45
34:BA:563:A:C2'	34:BA:564:C:H5'	2.46	0.45
85:AA:172:A:C6	85:AA:173:A:C2	3.04	0.45
85:AA:2182:A:N7	85:AA:2183:U:C4	2.84	0.45
85:AA:2135:A:C2	85:AA:2184:A:N3	2.84	0.45
85:AA:458:C:H41	85:AA:465:A:H1'	1.81	0.45
85:AA:55:A:C4	85:AA:468:A:N1	2.84	0.45
32:AY:62:PRO:CB	85:AA:631:G:H21	2.29	0.45
85:AA:64:A:C2	85:AA:84:C:C2	3.04	0.45
85:AA:686:U:H5"	85:AA:1477:A:C2	2.51	0.45
35:BB:546:A:C5	35:BB:555:G:C5	3.03	0.45
35:BB:561:C:C4	35:BB:563:A:C8	3.04	0.45
35:BB:822:G:C6	35:BB:823:G:N7	2.84	0.45
35:BB:842:G:N1	35:BB:843:G:C5	2.84	0.45
35:BB:967:G:C6	35:BB:968:C:C4	3.04	0.45
3:A2:184:ARG:CZ	86:AB:41:C:C4'	2.74	0.45
85:AA:1213:U:O2'	85:AA:1214:C:C6	2.68	0.45
35:BB:1196:A:C5	35:BB:1197:G:H1'	2.50	0.45
85:AA:941:C:OP2	85:AA:1108:U:N3	2.49	0.45
85:AA:1575:G:C2	85:AA:1577:G:C6	3.04	0.45
85:AA:1566:A:H4'	85:AA:1868:G:H5"	1.98	0.45
85:AA:1908:A:H2	85:AA:2038:C:HO2'	1.62	0.45
34:BA:255:G:N1	34:BA:257:G:C5	2.85	0.45
34:BA:266:G:N2	34:BA:267:G:H1'	2.31	0.45
34:BA:279:U:H3'	34:BA:280:A:N7	2.31	0.45
34:BA:518:C:C2'	34:BA:684:G:H21	2.25	0.45
85:AA:1975:G:C2	85:AA:1976:G:C4	3.04	0.45
35:BB:1406:C:C4	35:BB:1407:U:C4	3.03	0.45
27:AT:8:ALA:N	27:AT:37:TRP:HA	2.31	0.45
35:BB:1541:G:C8	35:BB:1541:G:OP2	2.69	0.45
52:BS:75:ASN:O	52:BS:130:SER:HA	2.15	0.45
85:AA:1287:C:C2	85:AA:1471:G:N2	2.84	0.45
85:AA:1288:A:C5	85:AA:1289:U:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1686:G:C5	85:AA:1687:U:C4	3.05	0.45
85:AA:2173:A:C5	85:AA:2174:G:C5	3.03	0.45
85:AA:703:U:H2'	85:AA:704:A:C5'	2.46	0.45
85:AA:561:C:C4	85:AA:562:C:C2	3.04	0.45
85:AA:1922:A:OP1	85:AA:1922:A:C2	2.68	0.45
85:AA:792:A:C4	85:AA:800:A:C2	3.04	0.45
85:AA:892:C:OP2	85:AA:892:C:C5	2.69	0.45
34:BA:1333:G:C4	34:BA:1409:A:N1	2.84	0.45
85:AA:392:G:H2'	85:AA:393:C:C6	2.50	0.45
85:AA:519:A:C4	85:AA:521:A:N7	2.83	0.45
35:BB:999:G:C2	35:BB:1020:U:O2	2.69	0.45
85:AA:71:G:C2'	85:AA:76:G:H1	2.28	0.45
34:BA:1377:A:H1'	34:BA:1399:A:O4'	2.16	0.45
85:AA:265:A:O4'	85:AA:868:A:C2	2.69	0.45
39:BF:49:C:H3'	39:BF:50:C:C6	2.50	0.45
85:AA:347:U:C6	85:AA:348:G:C8	3.03	0.45
34:BA:526:C:C4	34:BA:527:C:C5	3.04	0.45
85:AA:1247:A:C6	85:AA:1248:U:C2	3.05	0.45
85:AA:1829:C:C2	85:AA:1830:U:C5	3.04	0.45
85:AA:116:G:C6	85:AA:117:C:H1'	2.51	0.45
39:BF:3:A:N1	39:BF:4:A:C4	2.85	0.45
85:AA:1350:A:H2'	85:AA:1351:U:C6	2.51	0.45
35:BB:440:U:O2	35:BB:441:G:C8	2.69	0.45
85:AA:1370:G:H8	85:AA:1370:G:O5'	1.98	0.45
85:AA:1357:U:H3'	85:AA:1358:A:H5"	1.99	0.45
3:A2:129:PRO:HD3	33:AZ:90:LEU:CD1	2.45	0.45
35:BB:769:C:C2	35:BB:770:G:C2	3.04	0.45
11:AC:79:SER:N	20:AL:127:ALA:HA	2.31	0.45
85:AA:1366:A:H2'	85:AA:1367:C:H4'	1.97	0.45
20:AL:102:ASP:HA	20:AL:121:LEU:O	2.16	0.45
34:BA:736:G:N3	34:BA:901:C:H1'	2.31	0.45
21:AM:27:VAL:N	21:AM:28:PRO:CD	2.79	0.45
2:A1:51:TYR:CZ	27:AT:22:LEU:HB3	2.51	0.45
85:AA:1555:G:C2	85:AA:1901:G:C5	3.03	0.45
15:AG:23:PRO:HG2	15:AG:25:TRP:CD1	2.51	0.45
1:A0:107:MET:SD	1:A0:111:ARG:HG3	2.56	0.45
42:BI:87:ALA:HB3	42:BI:107:ILE:HA	1.97	0.45
85:AA:1567:C:C2	85:AA:1571:A:C5	3.03	0.45
31:AX:196:GLU:OE1	31:AX:196:GLU:HA	2.16	0.45
2:A1:111:VAL:HG12	2:A1:235:THR:HG23	1.98	0.45
2:A1:120:MET:SD	2:A1:158:VAL:HG22	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1075:U:H6	34:BA:1075:U:O5'	1.98	0.45
34:BA:12:G:C2	36:BC:155:C:N3	2.84	0.45
34:BA:1519:G:N1	34:BA:1520:A:C5	2.85	0.45
34:BA:1043:C:H42	34:BA:1526:C:N4	2.14	0.45
34:BA:156:U:C6	34:BA:166:G:O3'	2.69	0.45
34:BA:15:G:C5	34:BA:16:C:C5	3.03	0.45
34:BA:160:G:C3'	34:BA:161:U:H5	2.25	0.45
34:BA:1686:G:C4	34:BA:1687:A:C8	3.04	0.45
34:BA:170:U:C2	34:BA:319:C:C2	3.04	0.45
34:BA:1715:C:H5'	34:BA:1718:C:C6	2.51	0.45
34:BA:1728:G:H4'	34:BA:1729:G:OP2	2.16	0.45
34:BA:1731:A:C5	34:BA:1732:A:C5	3.04	0.45
34:BA:1737:A:N1	34:BA:1738:G:C6	2.84	0.45
34:BA:173:U:O5'	34:BA:173:U:H6	2.00	0.45
34:BA:1840:C:C2	34:BA:1841:A:C8	3.05	0.45
34:BA:352:G:C2	34:BA:353:U:C2	3.03	0.45
34:BA:362:G:C2	34:BA:363:G:C4	3.04	0.45
34:BA:419:U:OP2	34:BA:429:G:C6	2.69	0.45
34:BA:44:U:C6	34:BA:45:A:C8	3.04	0.45
34:BA:451:A:H2'	34:BA:452:A:C8	2.52	0.45
34:BA:692:U:N3	34:BA:696:A:H1'	2.31	0.45
34:BA:752:A:H1'	34:BA:785:G:N2	2.31	0.45
34:BA:849:G:C8	42:BI:147:ARG:HG3	2.51	0.45
34:BA:856:G:C2	34:BA:882:G:C2	3.04	0.45
35:BB:1034:U:O4	35:BB:1035:C:C4	2.70	0.45
35:BB:110:U:H3	35:BB:456:A:H61	1.63	0.45
35:BB:1113:C:C2	35:BB:1114:A:C8	3.04	0.45
35:BB:1220:A:C6	35:BB:1221:G:C6	3.03	0.45
34:BA:40:A:N6	35:BB:1260:A:C4	2.85	0.45
35:BB:1295:A:C4	35:BB:1308:G:C2	3.04	0.45
35:BB:1533:U:C5	35:BB:1535:G:C5'	2.99	0.45
35:BB:386:G:H2'	35:BB:387:G:O4'	2.16	0.45
35:BB:391:G:C6	35:BB:392:G:N7	2.84	0.45
35:BB:481:A:C2	35:BB:482:A:N3	2.84	0.45
35:BB:492:U:C6	35:BB:492:U:H3'	2.50	0.45
35:BB:494:C:C6	35:BB:494:C:H3'	2.51	0.45
35:BB:96:A:C2	35:BB:97:U:C5	3.04	0.45
36:BC:19:A:C5	36:BC:20:C:C5	3.04	0.45
36:BC:27:U:H2'	36:BC:28:C:C6	2.50	0.45
37:BD:5:A:C2	37:BD:115:A:C2	3.05	0.45
37:BD:79:G:C5	37:BD:98:G:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:93:G:H3'	37:BD:94:C:C5	2.51	0.45
38:BE:102:U:O4	38:BE:104:G:C2	2.69	0.45
38:BE:92:C:N3	38:BE:129:G:C6	2.84	0.45
38:BE:64:A:C2	38:BE:140:G:C5	3.03	0.45
38:BE:170:U:N3	38:BE:171:U:C2	2.85	0.45
38:BE:59:U:C2	38:BE:60:C:C5	3.04	0.45
40:BG:69:G:N1	40:BG:70:C:N3	2.64	0.45
40:BG:70:C:H2'	40:BG:71:C:C6	2.52	0.45
41:BH:28:U:C6	41:BH:28:U:H3'	2.51	0.45
41:BH:35:G:C4	41:BH:36:C:C6	3.04	0.45
45:BL:27:ASN:HA	45:BL:75:HIS:HA	1.97	0.45
45:BL:59:LEU:H	45:BL:68:ARG:HA	1.82	0.45
49:BP:34:ASN:ND2	49:BP:52:ASN:HD21	2.13	0.45
49:BP:39:GLU:OE2	49:BP:71:THR:HA	2.16	0.45
38:BE:108:U:C5	53:BT:124:TYR:CE2	3.03	0.45
53:BT:31:GLU:O	53:BT:34:ASN:HB3	2.16	0.45
35:BB:127:U:P	53:BT:74:ARG:HH21	2.39	0.45
34:BA:544:U:N3	34:BA:545:U:C5	2.84	0.45
4:A3:190:ARG:CZ	85:AA:334:A:H2	2.29	0.45
85:AA:1226:A:C2	85:AA:1227:A:H1'	2.50	0.45
85:AA:1474:U:H1'	85:AA:1476:C:O2	2.16	0.45
85:AA:161:A:H3'	85:AA:162:A:H8	1.81	0.45
85:AA:159:G:C2	85:AA:161:A:H5"	2.50	0.45
85:AA:159:G:N2	85:AA:161:A:H5"	2.31	0.45
85:AA:2112:G:C4	85:AA:2113:U:C6	3.04	0.45
85:AA:2124:G:H2'	85:AA:2125:A:C8	2.51	0.45
85:AA:427:G:C6	85:AA:428:G:N7	2.84	0.45
32:AY:59:LYS:HZ2	85:AA:630:A:H2'	1.81	0.45
85:AA:88:G:C5	85:AA:89:C:C5	3.04	0.45
32:AY:59:LYS:HZ2	85:AA:630:A:C2'	2.29	0.45
34:BA:626:G:H2'	34:BA:627:U:H5'	1.99	0.45
35:BB:794:G:C5	35:BB:795:A:N7	2.84	0.45
35:BB:812:G:N3	35:BB:828:G:C2	2.84	0.45
35:BB:843:G:N2	35:BB:970:C:H1'	2.32	0.45
35:BB:843:G:N2	35:BB:844:G:C4	2.84	0.45
35:BB:847:U:C3'	35:BB:848:A:C5'	2.89	0.45
35:BB:1163:U:C5	35:BB:1164:U:C4	3.04	0.45
85:AA:1132:A:C2	85:AA:1194:U:N3	2.84	0.45
49:BP:92:VAL:HG13	49:BP:93:ARG:N	2.32	0.45
85:AA:939:A:H3'	85:AA:939:A:C4	2.50	0.45
85:AA:1662:U:C2	85:AA:1663:U:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2034:G:H3'	85:AA:2035:C:H4'	1.98	0.45
85:AA:2040:A:H4'	85:AA:2041:G:C4	2.52	0.45
21:AM:121:HIS:CD2	21:AM:121:HIS:C	2.89	0.45
28:AU:27:LYS:HE3	85:AA:2039:G:C5	2.52	0.45
34:BA:290:G:C8	34:BA:290:G:H3'	2.51	0.45
34:BA:1241:U:H2'	34:BA:1242:A:O4'	2.16	0.45
34:BA:718:U:O4	34:BA:719:G:C6	2.69	0.45
85:AA:1917:G:C2	85:AA:1918:U:C2	3.05	0.45
85:AA:587:G:N1	85:AA:588:G:C5	2.85	0.45
35:BB:1499:U:C6	35:BB:1500:U:C5	3.04	0.45
35:BB:1510:G:C2	35:BB:1511:U:C4	3.04	0.45
85:AA:10:G:C6	85:AA:11:A:C6	3.05	0.45
85:AA:11:A:C5	85:AA:12:U:C6	3.04	0.45
85:AA:1457:C:H2'	85:AA:1458:G:H5"	1.95	0.45
85:AA:2215:C:N4	85:AA:2218:G:C2	2.85	0.45
7:A6:147:VAL:C	7:A6:148:ARG:HE	2.19	0.45
85:AA:311:U:N3	85:AA:313:A:H3'	2.31	0.45
85:AA:268:A:O5'	85:AA:269:G:H5'	2.16	0.45
85:AA:572:G:O2'	85:AA:573:U:H5'	2.16	0.45
85:AA:2054:G:C2	85:AA:2055:G:C5	3.04	0.45
85:AA:2082:C:H4'	85:AA:2083:G:O4'	2.16	0.45
85:AA:725:G:H5'	85:AA:778:C:C2	2.52	0.45
85:AA:774:C:C4	85:AA:775:C:C4	3.03	0.45
85:AA:788:G:H8	85:AA:790:A:C6	2.34	0.45
85:AA:367:A:C8	85:AA:367:A:H5"	2.52	0.45
7:A6:33:TYR:CE2	7:A6:104:LEU:HD13	2.50	0.45
25:AR:6:THR:O	25:AR:7:TYR:CD1	2.69	0.45
34:BA:1400:A:C5	34:BA:1401:C:C5	3.03	0.45
85:AA:1257:A:C6	85:AA:1258:U:C4	3.04	0.45
85:AA:1852:U:H2'	85:AA:1854:U:H5'	1.97	0.45
85:AA:1857:G:N2	85:AA:1858:G:H1'	2.32	0.45
85:AA:1937:G:C2	85:AA:1938:G:C4	3.04	0.45
85:AA:1168:C:H2'	85:AA:1169:A:H8	1.79	0.45
35:BB:634:A:C2	35:BB:648:G:N3	2.85	0.45
35:BB:691:A:C5	35:BB:1054:G:C2	3.04	0.45
5:A4:12:LYS:HD2	5:A4:15:ARG:HA	1.98	0.45
85:AA:772:C:H2'	85:AA:773:G:H5'	1.99	0.45
35:BB:52:G:H2'	35:BB:53:C:C5	2.51	0.45
85:AA:842:G:C6	85:AA:843:U:C4	3.04	0.45
85:AA:388:G:C5	85:AA:403:G:N2	2.84	0.45
35:BB:1391:G:C6	35:BB:1392:A:N1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1357:C:C2	34:BA:1358:A:C8	3.04	0.45
35:BB:552:C:N3	35:BB:553:U:C4	2.84	0.45
47:BN:103:ASP:OD1	47:BN:104:ARG:N	2.49	0.45
49:BP:15:ILE:HB	49:BP:22:ASN:N	2.30	0.45
34:BA:1384:G:C2	34:BA:1394:U:H1'	2.52	0.45
3:A2:145:ARG:HB3	3:A2:149:PHE:CZ	2.52	0.45
17:AI:94:PRO:HA	17:AI:97:VAL:HB	1.96	0.45
34:BA:1752:A:C2	34:BA:1772:G:C5	3.05	0.45
11:AC:183:PHE:HA	11:AC:197:ILE:HB	1.98	0.45
47:BN:56:LEU:HB2	47:BN:155:ARG:HB3	1.98	0.45
26:AS:74:LEU:O	26:AS:78:ASP:HA	2.15	0.45
34:BA:1147:C:C6	34:BA:1147:C:O5'	2.70	0.45
34:BA:1195:G:C5	34:BA:1196:C:C5	3.05	0.45
34:BA:1273:U:OP2	34:BA:1273:U:C6	2.70	0.45
34:BA:135:G:H3'	34:BA:135:G:C8	2.51	0.45
34:BA:1537:G:H2'	34:BA:1537:G:N3	2.30	0.45
34:BA:1553:G:C2	34:BA:1557:G:C2	3.04	0.45
34:BA:734:G:N1	34:BA:1582:C:C2	2.84	0.45
34:BA:169:C:H2'	34:BA:170:U:C6	2.51	0.45
34:BA:1709:A:H2'	34:BA:1709:A:N3	2.31	0.45
34:BA:1718:C:H2'	34:BA:1719:G:C8	2.51	0.45
34:BA:1745:G:H1	34:BA:1779:U:H3	1.64	0.45
34:BA:238:C:H6	34:BA:238:C:H3'	1.81	0.45
34:BA:23:A:C6	34:BA:395:G:C2	3.05	0.45
34:BA:398:G:C4	36:BC:30:U:N3	2.84	0.45
34:BA:248:G:N9	34:BA:437:G:C4	2.84	0.45
34:BA:478:G:H1	36:BC:10:C:H42	1.63	0.45
34:BA:62:A:C4	34:BA:109:A:N7	2.85	0.45
34:BA:828:A:C2	34:BA:829:U:C1'	2.99	0.45
34:BA:82:A:C5	34:BA:84:U:O4	2.70	0.45
34:BA:955:G:C2	34:BA:956:G:C4	3.04	0.45
34:BA:954:U:O4	34:BA:955:G:C4	2.70	0.45
34:BA:982:A:C5'	34:BA:982:A:C8	2.99	0.45
35:BB:1036:G:C6	35:BB:1037:A:C4	3.04	0.45
35:BB:1110:G:C2	35:BB:1111:C:C2	3.05	0.45
35:BB:1144:A:C5	35:BB:1145:G:N7	2.84	0.45
35:BB:1294:C:C6	35:BB:1311:G:C2	3.05	0.45
35:BB:34:G:N1	35:BB:35:G:C5	2.84	0.45
35:BB:386:G:O6	35:BB:387:G:C6	2.69	0.45
35:BB:594:U:C2	35:BB:595:U:C5	3.05	0.45
35:BB:613:C:H2'	35:BB:614:U:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:653:G:C6	35:BB:654:C:C2	3.05	0.45
35:BB:681:G:N1	35:BB:682:U:C2	2.84	0.45
36:BC:108:A:C2	36:BC:113:G:C6	3.04	0.45
36:BC:105:C:C1'	36:BC:149:A:C5	2.99	0.45
36:BC:3:C:H2'	36:BC:4:G:C8	2.51	0.45
36:BC:66:G:C5	36:BC:67:U:C4	3.05	0.45
34:BA:484:A:N1	36:BC:6:G:C5	2.84	0.45
37:BD:15:U:C6	37:BD:15:U:O5'	2.69	0.45
37:BD:5:A:C6	37:BD:6:C:C4	3.04	0.45
38:BE:150:G:N1	38:BE:151:C:C2	2.85	0.45
38:BE:158:U:C2	38:BE:159:A:C5	3.04	0.45
38:BE:191:U:C2	38:BE:192:A:C8	3.04	0.45
38:BE:201:A:H2'	38:BE:202:C:O4'	2.17	0.45
34:BA:1630:A:N3	51:BR:54:LYS:HA	2.31	0.45
34:BA:544:U:O4	34:BA:545:U:C5	2.69	0.45
34:BA:568:G:C6	34:BA:569:C:C5	3.05	0.45
2:A1:145:ARG:NH1	85:AA:122:A:H4'	2.31	0.45
4:A3:58:ASP:OD1	4:A3:62:PHE:N	2.50	0.45
85:AA:102:A:H3'	85:AA:103:U:C5	2.51	0.45
85:AA:1272:G:H3'	85:AA:1272:G:C8	2.52	0.45
85:AA:180:A:H2'	85:AA:181:A:C8	2.50	0.45
85:AA:2130:G:C4	85:AA:2131:C:C6	3.05	0.45
85:AA:2189:U:N3	85:AA:2190:U:C4	2.84	0.45
85:AA:376:C:N1	85:AA:423:G:C2	2.84	0.45
85:AA:428:G:C2	85:AA:447:C:C2	3.04	0.45
85:AA:683:U:C2	85:AA:1485:G:N2	2.84	0.45
85:AA:88:G:C8	85:AA:89:C:C5	3.05	0.45
34:BA:663:U:C2	34:BA:664:C:C6	3.04	0.45
35:BB:846:A:N1	35:BB:967:G:C4	2.85	0.45
35:BB:847:U:C6	35:BB:848:A:H5"	2.50	0.45
34:BA:557:U:H2'	34:BA:557:U:C3'	2.19	0.45
6:A5:183:ARG:HD2	41:BH:93:G:O5'	2.05	0.45
15:AG:77:HIS:CG	85:AA:941:C:C5'	2.99	0.45
85:AA:1563:U:O4'	85:AA:1585:A:C8	2.69	0.45
85:AA:1580:A:C2	85:AA:2021:A:C4	3.04	0.45
85:AA:2016:A:N6	85:AA:2027:U:H3	2.14	0.45
34:BA:1208:U:C5	34:BA:1210:A:C6	3.05	0.45
51:BR:59:PRO:HG2	51:BR:76:TRP:CD1	2.51	0.45
85:AA:124:A:H2'	85:AA:185:A:H61	1.81	0.45
34:BA:1287:G:C6	34:BA:1436:A:N1	2.84	0.45
85:AA:969:U:C6	85:AA:969:U:O5'	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:582:A:H3'	85:AA:583:U:C6	2.51	0.45
85:AA:2083:G:C6	85:AA:2084:U:C4	3.04	0.45
85:AA:775:C:H2'	85:AA:776:C:C6	2.52	0.45
85:AA:786:G:H2'	85:AA:787:U:C6	2.52	0.45
85:AA:787:U:OP2	85:AA:788:G:C4	2.69	0.45
85:AA:789:A:P	85:AA:790:A:H2'	2.57	0.45
85:AA:1149:A:C6	85:AA:1150:G:C4	3.04	0.45
35:BB:996:G:C6	35:BB:997:G:N7	2.84	0.45
35:BB:996:G:N1	35:BB:997:G:C4	2.84	0.45
85:AA:66:U:C5'	85:AA:81:A:H61	2.29	0.45
85:AA:740:A:C2	85:AA:741:G:H5"	2.51	0.45
34:BA:1212:A:C6	34:BA:1213:A:C5	3.05	0.45
34:BA:576:C:O5'	34:BA:578:C:H3'	2.17	0.45
85:AA:1993:C:C5	85:AA:1994:G:C6	3.04	0.45
85:AA:1252:A:C6	85:AA:1254:A:C6	3.03	0.45
35:BB:1203:C:C4	35:BB:1204:C:C5	3.05	0.45
35:BB:684:U:C4	35:BB:1053:G:N1	2.84	0.45
34:BA:515:U:H2'	34:BA:516:U:C5	2.52	0.45
35:BB:610:U:H2'	35:BB:611:U:C5	2.51	0.45
34:BA:1015:G:N7	34:BA:1023:G:C6	2.85	0.45
35:BB:634:A:C6	35:BB:648:G:N1	2.85	0.45
85:AA:1643:U:OP2	85:AA:1643:U:C5	2.70	0.45
35:BB:709:G:C2'	35:BB:710:A:H5'	2.46	0.45
40:BG:116:G:N1	40:BG:117:C:C2	2.85	0.45
35:BB:543:G:H3'	35:BB:544:C:H6	1.81	0.45
1:A0:151:GLN:HG2	1:A0:156:CYS:SG	2.57	0.45
34:BA:1692:U:H1'	35:BB:12:G:N3	2.31	0.45
8:A7:195:HIS:CD2	8:A7:195:HIS:N	2.85	0.45
85:AA:298:C:C1'	85:AA:299:A:C6	3.00	0.45
85:AA:1175:A:H4'	85:AA:1237:A:N1	2.31	0.45
1:A0:21:GLN:HG2	1:A0:25:SER:HB2	1.98	0.45
15:AG:89:TYR:O	15:AG:92:ILE:HB	2.16	0.45
58:BY:4:ILE:HG22	58:BY:5:ASP:N	2.30	0.45
34:BA:1756:C:C2	34:BA:1768:G:N2	2.85	0.45
11:AC:65:ASN:HA	11:AC:82:THR:N	2.31	0.45
85:AA:2159:C:C5	85:AA:2161:C:O2	2.69	0.45
34:BA:110:C:N3	34:BA:383:G:N2	2.64	0.45
34:BA:1160:U:C4	34:BA:1161:G:C8	3.05	0.45
34:BA:1299:G:N2	34:BA:1440:C:N3	2.65	0.45
34:BA:1321:A:N1	34:BA:1322:A:C4	2.85	0.45
34:BA:1324:G:C2	34:BA:1325:G:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1277:G:H1	34:BA:1463:U:H3	1.64	0.45
34:BA:1616:A:O4'	34:BA:1634:A:C2	2.69	0.45
34:BA:1689:U:H2'	57:BX:137:ARG:HD3	1.99	0.45
34:BA:1738:G:N1	34:BA:1739:G:C4	2.84	0.45
34:BA:214:A:C2'	34:BA:215:C:C5	2.99	0.45
34:BA:221:G:C2	34:BA:222:C:C2	3.03	0.45
34:BA:234:A:N7	34:BA:235:C:C4	2.84	0.45
34:BA:236:A:O2'	34:BA:239:C:C5	2.68	0.45
34:BA:239:C:C4	34:BA:240:C:C6	3.04	0.45
34:BA:29:U:H2'	34:BA:30:A:H8	1.81	0.45
34:BA:398:G:N3	34:BA:398:G:H2'	2.32	0.45
34:BA:44:U:C4	34:BA:45:A:C5	3.04	0.45
34:BA:72:U:C6	34:BA:73:G:C6	3.05	0.45
34:BA:74:A:C5	34:BA:75:U:C5	3.04	0.45
34:BA:772:G:H4'	47:BN:37:LYS:CD	2.47	0.45
34:BA:93:A:O5'	34:BA:93:A:C8	2.68	0.45
34:BA:958:G:C2	34:BA:960:C:C2	3.04	0.45
35:BB:1075:A:N7	35:BB:1076:U:C6	2.84	0.45
35:BB:1248:A:N6	35:BB:1249:G:C5	2.84	0.45
34:BA:40:A:N1	35:BB:1260:A:C2	2.84	0.45
35:BB:1294:C:H4'	44:BK:157:MET:SD	2.56	0.45
35:BB:1295:A:H2'	35:BB:1303:A:N1	2.32	0.45
35:BB:1355:C:C5	35:BB:1357:C:N3	2.85	0.45
35:BB:18:A:H2'	35:BB:19:C:C6	2.51	0.45
35:BB:381:C:C5	35:BB:382:U:C4	3.04	0.45
35:BB:448:G:C6	35:BB:449:C:C4	3.04	0.45
35:BB:601:U:H6	35:BB:601:U:O5'	1.99	0.45
35:BB:624:A:H2'	35:BB:625:A:C8	2.52	0.45
35:BB:697:G:C6	35:BB:698:C:C4	3.04	0.45
35:BB:705:C:C2	35:BB:706:G:C8	3.05	0.45
36:BC:108:A:C6	36:BC:109:A:C6	3.04	0.45
36:BC:114:C:O5'	36:BC:114:C:H6	1.99	0.45
36:BC:63:G:C6	36:BC:64:U:O4	2.70	0.45
34:BA:482:C:O2	36:BC:6:G:C2	2.69	0.45
36:BC:80:A:C6	36:BC:81:U:C4	3.04	0.45
34:BA:480:G:N1	36:BC:8:C:C2	2.84	0.45
36:BC:7:U:H2'	36:BC:8:C:N1	2.31	0.45
37:BD:63:C:H3'	44:BK:206:ILE:N	2.31	0.45
37:BD:79:G:N3	37:BD:98:G:C2	2.85	0.45
38:BE:65:U:C3'	38:BE:65:U:C6	2.98	0.45
35:BB:1458:U:N3	39:BF:14:C:C5	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:23:G:N1	48:BO:131:VAL:HG13	2.31	0.45
39:BF:6:C:H1'	39:BF:7:G:N9	2.31	0.45
40:BG:124:A:C4	40:BG:125:C:C5	3.04	0.45
40:BG:170:G:H8	40:BG:172:C:H3'	1.82	0.45
40:BG:6:A:C4	40:BG:7:U:C6	3.04	0.45
40:BG:72:G:C2	40:BG:126:G:C4	3.05	0.45
40:BG:75:C:H2'	40:BG:76:C:O2	2.17	0.45
41:BH:35:G:H2'	41:BH:36:C:O4'	2.16	0.45
47:BN:198:ARG:HG2	47:BN:199:PHE:CD1	2.51	0.45
34:BA:544:U:H2'	34:BA:545:U:O4'	2.15	0.45
6:A5:22:ARG:HD3	85:AA:450:A:H5"	1.98	0.45
85:AA:105:A:C6	85:AA:373:G:N1	2.84	0.45
85:AA:683:U:O4	85:AA:1485:G:C4	2.70	0.45
85:AA:173:A:C6	85:AA:175:A:C5	3.04	0.45
85:AA:2193:A:N1	85:AA:2194:U:C2	2.83	0.45
85:AA:2200:A:C2	85:AA:2201:A:H1'	2.51	0.45
85:AA:2204:A:N1	85:AA:2205:A:C5	2.85	0.45
85:AA:36:U:O2	85:AA:543:A:C2	2.69	0.45
85:AA:454:G:C6	85:AA:455:G:C6	3.05	0.45
85:AA:94:C:H1'	85:AA:491:G:H5"	1.97	0.45
85:AA:624:A:C2	85:AA:631:G:N7	2.84	0.45
85:AA:690:G:N1	85:AA:1483:A:C4	2.85	0.45
23:AP:217:ARG:HA	23:AP:220:PHE:HB2	1.99	0.45
34:BA:616:G:C6	34:BA:617:G:C6	3.05	0.45
35:BB:557:C:O5'	35:BB:557:C:H6	1.99	0.45
35:BB:817:C:C4	35:BB:818:U:C4	3.04	0.45
35:BB:817:C:C5	35:BB:818:U:C6	3.04	0.45
34:BA:557:U:C3'	34:BA:557:U:N1	2.57	0.45
85:AA:1182:A:H8	85:AA:1182:A:H3'	1.80	0.45
85:AA:2211:G:C6	85:AA:2212:U:C4	3.05	0.45
13:AE:171:PHE:CZ	85:AA:943:U:C4	3.04	0.45
34:BA:594:G:H3'	34:BA:594:G:P	2.57	0.45
34:BA:604:G:OP2	34:BA:679:U:N3	2.50	0.45
35:BB:665:A:N6	35:BB:666:A:C6	2.84	0.45
34:BA:1494:G:H4'	34:BA:1495:A:H5"	1.98	0.45
34:BA:597:C:C2	34:BA:598:G:C4	3.04	0.45
41:BH:23:G:C5	41:BH:24:U:N3	2.85	0.45
85:AA:1455:C:H2'	85:AA:1456:A:O5'	2.16	0.45
85:AA:1687:U:O5'	85:AA:1687:U:C6	2.69	0.45
85:AA:2138:G:H2'	85:AA:2139:G:C8	2.52	0.45
85:AA:1220:A:C5	85:AA:1221:G:N9	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:270:A:C4	85:AA:271:A:C8	3.04	0.45
85:AA:966:G:H3'	85:AA:967:C:C6	2.51	0.45
85:AA:883:A:C2	85:AA:884:A:C6	3.04	0.45
7:A6:122:HIS:CD2	7:A6:123:HIS:N	2.84	0.45
85:AA:568:C:C4	85:AA:569:A:C5	3.05	0.45
85:AA:577:U:H3'	85:AA:578:U:H5'	1.98	0.45
85:AA:2091:C:H2'	85:AA:2092:A:C8	2.52	0.45
85:AA:114:C:N3	85:AA:366:A:C2	2.85	0.45
35:BB:999:G:C6	35:BB:1000:U:C5	3.04	0.45
35:BB:1000:U:H3'	35:BB:1000:U:C6	2.51	0.45
35:BB:1003:G:O5'	35:BB:1003:G:C8	2.69	0.45
35:BB:1018:U:C6	35:BB:1018:U:C3'	3.00	0.45
34:BA:1126:U:N3	34:BA:1127:U:C4	2.85	0.45
34:BA:1134:A:C6	34:BA:1135:U:C2	3.05	0.45
39:BF:32:G:N2	39:BF:34:C:C2	2.85	0.45
39:BF:43:U:O2'	39:BF:44:C:H5'	2.17	0.45
34:BA:531:C:C2	34:BA:580:U:O4'	2.69	0.45
7:A6:157:PHE:CE1	7:A6:163:PHE:HB3	2.51	0.45
34:BA:1123:G:N2	34:BA:1138:C:H1'	2.31	0.45
34:BA:1140:A:N3	34:BA:1140:A:H2'	2.32	0.45
85:AA:1814:U:O2	85:AA:1815:U:C6	2.70	0.45
86:AB:33:U:H1'	86:AB:37:A:H62	1.82	0.45
42:BI:24:PRO:HA	42:BI:27:LYS:HD2	1.98	0.45
35:BB:478:G:C6	35:BB:503:G:C5	3.04	0.45
35:BB:459:U:C2	35:BB:584:A:N1	2.84	0.45
85:AA:1593:C:N3	85:AA:1887:G:C2	2.85	0.45
85:AA:1754:G:H2'	85:AA:1755:U:C4	2.52	0.45
34:BA:1219:G:C6	34:BA:1220:C:N3	2.84	0.45
38:BE:174:U:H3'	38:BE:175:U:C5	2.51	0.45
21:AM:27:VAL:CG1	21:AM:28:PRO:HD3	2.46	0.45
85:AA:1023:U:H3	85:AA:1047:G:H1	1.64	0.45
57:BX:107:ILE:HG23	57:BX:141:LEU:HD13	1.98	0.45
34:BA:1079:C:H4'	34:BA:1080:U:C5'	2.46	0.45
49:BP:15:ILE:HB	49:BP:22:ASN:H	1.81	0.45
34:BA:1385:U:C4	34:BA:1386:G:N1	2.85	0.45
85:AA:1841:G:C5	85:AA:1842:C:C5	3.05	0.45
3:A2:142:LYS:HB3	3:A2:174:TYR:CE1	2.51	0.45
47:BN:175:ARG:HE	47:BN:176:LYS:CE	2.29	0.45
52:BS:83:TYR:HA	52:BS:88:GLY:C	2.37	0.45
44:BK:48:VAL:HG21	44:BK:142:ASP:N	2.31	0.45
85:AA:1478:G:H5"	85:AA:1478:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BI:3:VAL:HG13	42:BI:4:ASP:H	1.81	0.45
29:AV:22:PRO:HA	29:AV:32:VAL:O	2.17	0.45
85:AA:2155:U:H1'	85:AA:2164:G:N2	2.31	0.45
34:BA:1232:C:C6	34:BA:1232:C:O5'	2.69	0.45
34:BA:1310:C:C4	34:BA:1311:G:C4	3.04	0.45
34:BA:1502:G:C2	34:BA:1503:U:N1	2.85	0.45
34:BA:1520:A:H2'	34:BA:1521:C:H6	1.82	0.45
34:BA:1529:G:N1	34:BA:1578:A:C4	2.85	0.45
34:BA:1597:G:C6	51:BR:25:HIS:ND1	2.85	0.45
34:BA:1622:U:C6	34:BA:1623:U:C6	3.04	0.45
34:BA:1675:C:C4	34:BA:1676:A:C5	3.05	0.45
34:BA:1699:A:C6	34:BA:1700:C:C4	3.04	0.45
34:BA:1700:C:C4	34:BA:1701:U:C4	3.05	0.45
34:BA:1817:G:C2'	34:BA:1817:G:N3	2.79	0.45
34:BA:213:A:C6	34:BA:217:C:C5	3.05	0.45
34:BA:25:C:C5	34:BA:26:C:C5	3.04	0.45
34:BA:46:C:C6	34:BA:342:U:OP1	2.70	0.45
34:BA:411:C:C4	34:BA:413:A:C5	3.05	0.45
34:BA:453:A:C2	34:BA:454:G:C4	3.05	0.45
34:BA:504:A:C2	34:BA:505:U:C6	3.04	0.45
34:BA:54:A:H4'	50:BQ:179:ARG:HH22	1.81	0.45
34:BA:753:G:H2'	34:BA:754:G:O4'	2.15	0.45
34:BA:74:A:H2'	34:BA:75:U:C5'	2.46	0.45
34:BA:768:G:C6	34:BA:769:U:H5	2.34	0.45
34:BA:823:G:C4	34:BA:824:C:C6	3.05	0.45
34:BA:752:A:C2	34:BA:886:G:H1'	2.51	0.45
34:BA:95:C:H2'	34:BA:96:G:C8	2.52	0.45
35:BB:1102:U:C2	35:BB:1103:A:N1	2.85	0.45
35:BB:1118:G:C2	35:BB:1131:C:C2	3.05	0.45
35:BB:1138:A:C8	35:BB:1139:A:C5	3.04	0.45
35:BB:1371:G:C6	35:BB:1372:G:C6	3.04	0.45
35:BB:1471:A:C8	39:BF:21:C:H5"	2.51	0.45
34:BA:1604:A:C2	35:BB:23:U:O2	2.70	0.45
35:BB:422:U:H2'	35:BB:423:G:O4'	2.17	0.45
35:BB:679:G:N2	35:BB:680:A:H1'	2.31	0.45
35:BB:981:A:C2	35:BB:981:A:OP2	2.70	0.45
36:BC:121:G:C2	36:BC:143:C:N3	2.85	0.45
36:BC:125:A:H61	36:BC:138:C:N4	2.14	0.45
36:BC:26:U:C6	36:BC:26:U:C3'	2.99	0.45
36:BC:75:G:H2'	36:BC:76:C:C6	2.52	0.45
36:BC:88:A:C3'	36:BC:88:A:C8	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:15:U:O4	37:BD:16:U:C4	2.70	0.45
37:BD:37:G:C2	37:BD:41:G:C2	3.03	0.45
37:BD:90:A:C8	37:BD:91:U:C1'	2.99	0.45
38:BE:112:G:N2	38:BE:183:C:H1'	2.31	0.45
38:BE:158:U:N3	38:BE:159:A:C6	2.84	0.45
38:BE:190:U:O5'	38:BE:190:U:C6	2.69	0.45
34:BA:1782:C:OP1	38:BE:209:U:C5	2.69	0.45
35:BB:1350:A:C8	40:BG:158:A:C8	3.05	0.45
40:BG:162:A:N1	40:BG:163:G:C5	2.85	0.45
40:BG:35:G:C2	40:BG:36:G:C5	3.04	0.45
41:BH:26:C:N3	41:BH:28:U:C2	2.85	0.45
41:BH:31:A:C6	41:BH:32:U:C4	3.05	0.45
45:BL:115:GLU:HA	45:BL:129:ILE:HG23	1.99	0.45
49:BP:25:GLY:HA3	49:BP:46:MET:CE	2.46	0.45
34:BA:540:G:C6	34:BA:568:G:C6	3.04	0.45
85:AA:1226:A:C6	85:AA:1227:A:C8	3.04	0.45
85:AA:151:A:C8	85:AA:152:A:C5	3.04	0.45
85:AA:2132:A:C5	85:AA:2187:G:N1	2.85	0.45
85:AA:370:A:C5	85:AA:371:C:C5	3.05	0.45
85:AA:1:G:O6	85:AA:3:U:C4	2.70	0.45
85:AA:466:A:H2	85:AA:467:U:H5'	1.80	0.45
34:BA:609:G:C4	34:BA:610:A:C8	3.05	0.45
35:BB:855:G:N2	35:BB:856:U:C2	2.85	0.45
35:BB:963:G:C2	35:BB:964:G:N9	2.84	0.45
4:A3:9:ARG:CD	58:BY:84:ARG:HH22	2.09	0.45
15:AG:140:LYS:HZ1	34:BA:946:A:C5'	2.23	0.45
15:AG:77:HIS:CD2	85:AA:941:C:H5'	2.51	0.45
17:AI:145:SER:H	85:AA:1558:U:H5	1.63	0.45
17:AI:105:ASN:ND2	85:AA:1893:G:H4'	2.31	0.45
34:BA:253:U:O4	34:BA:254:U:C2	2.69	0.45
34:BA:275:C:H2'	34:BA:276:C:C6	2.51	0.45
34:BA:1248:A:H4'	35:BB:1089:A:H1'	1.99	0.45
35:BB:1273:G:H21	35:BB:1276:U:H3	1.64	0.45
85:AA:602:U:OP2	85:AA:603:C:C4	2.69	0.45
27:AT:34:HIS:CE1	85:AA:604:C:N4	2.84	0.45
8:A7:249:ARG:C	8:A7:251:TRP:H	2.20	0.45
85:AA:235:U:H3	85:AA:241:U:H5"	1.81	0.45
85:AA:248:U:H2'	85:AA:249:C:C6	2.52	0.45
85:AA:258:G:N1	85:AA:259:A:C5	2.85	0.45
35:BB:136:A:C4	35:BB:366:G:C2	3.05	0.45
41:BH:13:C:C2	41:BH:19:G:C6	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1700:C:H2'	85:AA:1701:G:O4'	2.16	0.45
85:AA:309:G:C6	85:AA:317:A:N6	2.85	0.45
85:AA:2173:A:C2	85:AA:2174:G:C1'	2.99	0.45
36:BC:168:C:C6	36:BC:168:C:O5'	2.69	0.45
32:AY:31:ARG:NH1	32:AY:31:ARG:HG2	2.32	0.45
85:AA:1923:A:H62	85:AA:1991:C:H41	1.63	0.45
85:AA:2087:C:H2'	85:AA:2088:U:C6	2.51	0.45
3:A2:128:SER:HB2	33:AZ:84:CYS:SG	2.57	0.45
85:AA:725:G:H3'	85:AA:726:U:C2	2.51	0.45
85:AA:1823:G:N3	85:AA:1823:G:H2'	2.30	0.45
85:AA:900:G:N1	85:AA:901:C:C5	2.85	0.45
85:AA:366:A:C6	85:AA:367:A:C6	3.05	0.45
85:AA:382:G:C6	85:AA:415:G:C5	3.05	0.45
16:AH:35:VAL:HB	16:AH:49:VAL:H	1.81	0.45
35:BB:1005:A:N1	35:BB:1006:C:C2	2.84	0.45
35:BB:1021:C:H2'	35:BB:1022:C:H6	1.82	0.45
34:BA:203:U:C4	34:BA:204:U:C4	3.05	0.45
18:AJ:26:LEU:HD12	18:AJ:61:ILE:O	2.17	0.45
4:A3:162:ARG:HB3	4:A3:174:PHE:CG	2.52	0.45
85:AA:73:A:H3'	85:AA:74:U:H5"	1.99	0.45
35:BB:1419:G:H2'	35:BB:1420:U:C6	2.52	0.45
85:AA:812:C:H2'	85:AA:813:G:H8	1.82	0.45
85:AA:860:C:H4'	85:AA:861:G:N7	2.31	0.45
85:AA:761:G:OP2	85:AA:763:U:H4'	2.17	0.45
85:AA:767:A:H2'	85:AA:768:C:C5	2.52	0.45
35:BB:504:C:H6	35:BB:504:C:O5'	2.00	0.45
35:BB:406:A:H3'	35:BB:407:A:C2'	2.45	0.45
35:BB:1481:C:N3	35:BB:1482:A:C4	2.85	0.45
35:BB:1177:U:O4	35:BB:1178:A:C5	2.70	0.45
35:BB:430:A:H3'	35:BB:430:A:C8	2.52	0.45
1:A0:81:ASP:HA	1:A0:83:TYR:CD1	2.51	0.45
35:BB:50:A:H2'	35:BB:51:U:H6	1.82	0.45
59:BZ:40:TYR:HB2	59:BZ:42:VAL:HG23	1.99	0.45
34:BA:927:A:C6	34:BA:928:C:C4	3.05	0.45
11:AC:217:GLU:O	11:AC:221:LEU:HG	2.16	0.45
22:AO:38:HIS:HA	22:AO:41:GLN:NE2	2.32	0.45
15:AG:71:ILE:HG22	15:AG:75:LEU:CD1	2.45	0.45
59:BZ:41:ASN:O	59:BZ:123:THR:HB	2.17	0.45
7:A6:107:ARG:HH21	7:A6:144:SER:HA	1.80	0.45
58:BY:98:ARG:CZ	85:AA:2161:C:OP1	2.55	0.45
34:BA:1034:U:C6	34:BA:1034:U:O5'	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1101:A:C8	34:BA:1101:A:H3'	2.52	0.45
34:BA:11:U:C4	34:BA:12:G:O6	2.69	0.45
34:BA:1324:G:N2	34:BA:1325:G:C4	2.84	0.45
34:BA:1563:G:N3	34:BA:1565:U:C6	2.85	0.45
34:BA:1625:C:H2'	34:BA:1626:U:C6	2.52	0.45
34:BA:1656:A:N1	34:BA:1657:A:C5	2.85	0.45
34:BA:1657:A:N6	34:BA:1658:G:C4	2.85	0.45
34:BA:1841:A:N3	35:BB:9:G:C2	2.84	0.45
34:BA:19:G:C8	34:BA:1716:A:N3	2.85	0.45
34:BA:185:A:H1'	34:BA:304:G:C2	2.52	0.45
34:BA:325:A:H8	34:BA:325:A:H5"	1.80	0.45
34:BA:437:G:OP2	34:BA:438:A:H3'	2.16	0.45
34:BA:442:G:N7	34:BA:467:A:C2	2.84	0.45
34:BA:704:G:C6	34:BA:705:C:N4	2.84	0.45
34:BA:739:A:OP1	50:BQ:221:ARG:NH2	2.50	0.45
34:BA:747:G:C6	34:BA:890:G:N1	2.85	0.45
34:BA:798:G:H3'	34:BA:800:G:O4'	2.16	0.45
34:BA:86:A:N7	34:BA:87:G:C8	2.85	0.45
34:BA:83:G:N2	34:BA:96:G:C8	2.85	0.45
34:BA:982:A:C8	34:BA:1020:A:C2	3.05	0.45
35:BB:102:G:H2'	35:BB:103:C:C6	2.52	0.45
35:BB:1085:C:H3'	35:BB:1086:G:C8	2.52	0.45
35:BB:1210:U:H3'	35:BB:1211:C:C6	2.51	0.45
35:BB:124:G:C2	35:BB:380:G:C4	3.05	0.45
35:BB:1294:C:C5	35:BB:1311:G:N1	2.84	0.45
35:BB:1305:A:C6	35:BB:1306:G:C4	3.05	0.45
35:BB:1347:C:H2'	35:BB:1348:C:C6	2.51	0.45
35:BB:1354:C:H2'	35:BB:1355:C:C6	2.52	0.45
35:BB:1361:A:H2'	35:BB:1362:G:O4'	2.16	0.45
35:BB:1533:U:C5	35:BB:1536:G:C4	3.05	0.45
35:BB:133:G:C4	35:BB:369:A:C2	3.04	0.45
35:BB:620:G:H3'	35:BB:620:G:C8	2.52	0.45
35:BB:657:A:H2'	35:BB:658:G:O4'	2.16	0.45
35:BB:679:G:C5	35:BB:680:A:C8	3.04	0.45
35:BB:71:A:H61	35:BB:615:A:C1'	2.23	0.45
36:BC:139:A:C4	36:BC:140:U:H5	2.34	0.45
36:BC:13:U:O4	36:BC:14:G:C4	2.70	0.45
36:BC:157:U:O2'	36:BC:158:U:H5"	2.17	0.45
36:BC:62:A:H4'	36:BC:63:G:O5'	2.16	0.45
36:BC:96:A:C6	36:BC:97:U:C4	3.05	0.45
36:BC:98:C:C6	36:BC:98:C:C3'	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:41:G:H4'	37:BD:42:A:N7	2.31	0.45
37:BD:73:U:C6	37:BD:73:U:O5'	2.70	0.45
38:BE:100:U:O4	38:BE:119:U:C2	2.69	0.45
38:BE:49:A:N1	38:BE:50:G:C5	2.84	0.45
39:BF:18:U:H6	39:BF:18:U:O5'	2.00	0.45
40:BG:71:C:C4	40:BG:72:G:N7	2.85	0.45
41:BH:47:G:C5	41:BH:106:G:N1	2.84	0.45
41:BH:125:U:C2	41:BH:126:C:C5	3.05	0.45
41:BH:45:G:C5	41:BH:46:C:C5	3.04	0.45
41:BH:49:C:O3'	41:BH:50:A:C8	2.69	0.45
41:BH:70:U:H3'	41:BH:71:C:C6	2.51	0.45
34:BA:740:A:OP1	50:BQ:221:ARG:HD3	2.16	0.45
51:BR:24:CYS:O	51:BR:144:CYS:SG	2.74	0.45
35:BB:1219:A:C5	53:BT:16:ARG:CZ	139.81	0.45
58:BY:33:LEU:HB3	58:BY:35:PHE:CZ	2.51	0.45
34:BA:563:A:O2'	52:BS:132:PRO:HB3	2.15	0.45
4:A3:97:ARG:NH2	85:AA:472:A:H5'	2.31	0.45
85:AA:1495:G:C6	85:AA:1496:U:C2	3.05	0.45
85:AA:1501:A:H2'	85:AA:1502:A:O4'	2.15	0.45
85:AA:151:A:H2'	85:AA:152:A:O4'	2.16	0.45
85:AA:20:G:H4'	85:AA:645:C:C5	2.51	0.45
85:AA:2185:U:C4	85:AA:2186:U:C4	3.05	0.45
85:AA:495:G:H2'	85:AA:496:C:H6	1.81	0.45
85:AA:531:G:C2	85:AA:532:G:C4	3.04	0.45
85:AA:660:G:C5	85:AA:661:C:C5	3.04	0.45
85:AA:686:U:O4	85:AA:687:G:C2	2.69	0.45
35:BB:868:C:H2'	35:BB:868:C:O2	2.15	0.45
34:BA:549:G:H5'	52:BS:147:HIS:N	1.96	0.45
85:AA:959:C:C6	85:AA:960:G:N7	2.85	0.45
85:AA:994:A:C2	85:AA:995:G:N9	2.85	0.45
35:BB:1192:C:N3	35:BB:1193:G:C6	2.84	0.45
35:BB:1195:A:C8	35:BB:1195:A:OP2	2.69	0.45
85:AA:2211:G:C5	85:AA:2212:U:C5	3.05	0.45
85:AA:2234:C:N3	85:AA:2235:C:C4	2.84	0.45
35:BB:470:C:C4	35:BB:471:U:C4	3.04	0.45
35:BB:522:A:OP2	35:BB:528:G:N1	2.49	0.45
85:AA:1105:G:C6	85:AA:1106:A:N7	2.84	0.45
85:AA:938:A:N7	85:AA:939:A:C8	2.84	0.45
85:AA:1877:G:C2	85:AA:1878:C:C2	3.05	0.45
85:AA:2009:A:C5	85:AA:2010:C:O4'	2.70	0.45
34:BA:250:G:C8	34:BA:272:A:N6	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:272:A:C6	34:BA:275:C:C2	3.05	0.45
34:BA:277:A:H2'	34:BA:278:U:H6	1.82	0.45
34:BA:679:U:C5	34:BA:680:C:N3	2.84	0.45
34:BA:1237:U:HO2'	34:BA:1238:C:H6	1.63	0.45
34:BA:1249:G:C6	34:BA:1250:C:C5	3.05	0.45
85:AA:244:G:C6	85:AA:245:A:C4	3.05	0.45
85:AA:1290:G:H1	85:AA:1291:A:H62	1.65	0.45
85:AA:1291:A:N7	85:AA:1292:A:C8	2.85	0.45
85:AA:1293:U:N3	85:AA:1294:U:C6	2.85	0.45
85:AA:1524:A:C4	85:AA:1525:C:C5	3.05	0.45
7:A6:83:GLY:O	7:A6:106:ARG:HD2	2.17	0.45
10:A9:147:HIS:CE1	85:AA:1611:A:H4'	2.52	0.45
85:AA:1221:G:C8	85:AA:1221:G:H3'	2.51	0.45
85:AA:557:G:H2'	85:AA:558:U:H6	1.81	0.45
24:AQ:16:ARG:HE	24:AQ:115:HIS:C	2.19	0.45
24:AQ:52:ARG:HG3	85:AA:1819:U:C1'	2.46	0.45
34:BA:1335:A:C2	34:BA:1407:C:N3	2.85	0.45
34:BA:1344:G:C6	34:BA:1345:U:C4	3.05	0.45
85:AA:432:A:C2	85:AA:433:U:N3	2.84	0.45
16:AH:50:THR:HG1	85:AA:1149:A:P	2.39	0.45
35:BB:1004:A:N1	35:BB:1005:A:C5	2.84	0.45
34:BA:249:A:H1'	34:BA:251:U:C4	2.51	0.45
85:AA:66:U:O5'	85:AA:66:U:C6	2.70	0.45
35:BB:1504:U:C6	49:BP:139:TRP:CD2	3.04	0.45
34:BA:1164:C:H2'	34:BA:1165:A:H8	1.81	0.45
35:BB:1415:G:C2	35:BB:1416:A:C4	3.05	0.45
85:AA:810:C:N3	85:AA:869:A:H2	2.14	0.45
34:BA:1138:C:H2'	34:BA:1139:G:O4'	2.17	0.45
34:BA:1140:A:H3'	34:BA:1141:C:C6	2.51	0.45
85:AA:1829:C:C2	85:AA:1846:G:C2	3.05	0.45
34:BA:963:G:C5	34:BA:992:A:C5	3.04	0.45
34:BA:686:U:C3'	34:BA:686:U:C6	2.99	0.45
35:BB:1384:A:C6	35:BB:1385:C:N3	2.85	0.45
35:BB:1174:C:C4	35:BB:1176:G:C6	3.04	0.45
34:BA:1372:C:C2	34:BA:1381:A:C6	3.05	0.45
85:AA:1355:U:O2	85:AA:1356:U:C4	2.69	0.45
85:AA:771:A:C6	85:AA:773:G:C4	3.04	0.45
1:A0:215:ARG:HB2	1:A0:215:ARG:HH11	1.81	0.45
9:A8:22:CYS:HG	9:A8:25:CYS:HG	1.64	0.45
1:A0:198:ARG:CZ	1:A0:198:ARG:HA	2.47	0.45
86:AB:49:C:H3'	86:AB:50:U:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AP:123:VAL:O	23:AP:142:ALA:HA	2.16	0.45
35:BB:408:U:O4'	35:BB:1436:U:C2	2.70	0.45
85:AA:1023:U:H3	85:AA:1047:G:H22	1.65	0.45
35:BB:325:G:C6	35:BB:326:G:C5	3.05	0.45
18:AJ:7:LEU:HB2	18:AJ:34:VAL:HG12	1.98	0.45
43:BJ:12:ALA:CB	43:BJ:214:TYR:H	2.29	0.45
8:A7:133:LEU:HB2	8:A7:146:LEU:HB2	1.99	0.45
86:AB:18:G:C2	86:AB:58:A:C6	3.05	0.45
85:AA:1735:U:C6	85:AA:1735:U:O5'	2.70	0.45
13:AE:74:CYS:O	13:AE:78:SER:HB2	2.16	0.45
34:BA:1044:A:C6	34:BA:1045:C:N4	2.85	0.45
34:BA:1045:C:C2	34:BA:1046:G:C8	3.05	0.45
34:BA:1161:G:H3'	34:BA:1162:U:C5	2.52	0.45
34:BA:129:U:O2	34:BA:130:U:C2	2.70	0.45
34:BA:1327:G:C5	34:BA:1328:U:C4	3.04	0.45
34:BA:1469:G:C2	34:BA:1470:G:C5	3.04	0.45
34:BA:157:U:H5"	34:BA:325:A:N6	2.30	0.45
34:BA:1615:A:C8	34:BA:1615:A:C3'	3.00	0.45
34:BA:1617:U:C3'	34:BA:1617:U:C6	2.95	0.45
34:BA:1622:U:H2'	34:BA:1623:U:C5'	2.47	0.45
34:BA:1638:U:H6	34:BA:1638:U:O5'	1.99	0.45
34:BA:1816:G:N1	34:BA:1827:C:C4	2.85	0.45
34:BA:363:G:C4	34:BA:364:C:C5	3.04	0.45
34:BA:375:C:O2	34:BA:376:U:C6	2.69	0.45
34:BA:398:G:N1	36:BC:30:U:C4	2.85	0.45
34:BA:412:G:C6	34:BA:418:G:N7	2.84	0.45
34:BA:422:C:H2'	34:BA:423:G:C8	2.52	0.45
34:BA:459:U:C4	34:BA:460:G:C6	3.05	0.45
34:BA:469:C:H5'	34:BA:470:C:P	2.56	0.45
34:BA:492:G:C6	34:BA:710:A:N1	2.84	0.45
34:BA:498:A:C2	34:BA:704:G:C2	3.04	0.45
34:BA:792:A:C2	34:BA:793:A:N3	2.85	0.45
34:BA:792:A:H8	34:BA:792:A:O5'	1.99	0.45
34:BA:798:G:C2	34:BA:800:G:C4	3.05	0.45
34:BA:943:G:N2	34:BA:949:C:C2	2.85	0.45
35:BB:1041:A:C4	35:BB:1042:U:C6	3.05	0.45
35:BB:111:C:O4'	35:BB:112:G:C5	2.70	0.45
35:BB:399:A:C2	35:BB:456:A:C2	3.05	0.45
35:BB:489:A:C2	35:BB:490:G:H1'	2.52	0.45
35:BB:777:C:O2'	35:BB:778:A:H5"	2.17	0.45
35:BB:780:U:H4'	35:BB:781:U:OP1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:987:U:O5'	35:BB:987:U:C2	2.70	0.45
36:BC:12:A:N6	36:BC:13:U:C2	2.85	0.45
36:BC:16:A:C5	36:BC:17:U:C5	3.05	0.45
36:BC:77:A:N1	36:BC:78:G:C4	2.84	0.45
36:BC:95:A:C4	36:BC:96:A:C8	3.04	0.45
38:BE:101:C:N4	38:BE:120:C:C6	2.85	0.45
38:BE:35:A:C2	38:BE:178:G:N3	2.85	0.45
38:BE:44:C:H2'	38:BE:45:G:C8	2.51	0.45
40:BG:14:G:H2'	40:BG:15:G:C8	2.52	0.45
40:BG:44:G:C8	40:BG:44:G:H3'	2.51	0.45
40:BG:48:U:C2	40:BG:49:A:N7	2.85	0.45
40:BG:72:G:C4	40:BG:73:U:C6	3.04	0.45
41:BH:57:A:C6	41:BH:65:G:C6	3.04	0.45
45:BL:26:ILE:O	45:BL:75:HIS:HB2	2.16	0.45
47:BN:62:GLN:HA	47:BN:76:LEU:HA	1.99	0.45
4:A3:60:GLU:HG2	85:AA:161:A:N6	2.31	0.45
85:AA:1226:A:N6	85:AA:1227:A:C5	2.84	0.45
85:AA:1226:A:C5	85:AA:1227:A:N7	2.84	0.45
85:AA:177:A:C2	85:AA:178:U:N3	2.84	0.45
85:AA:2193:A:H2'	85:AA:2194:U:C6	2.52	0.45
85:AA:123:A:N1	85:AA:330:C:N3	2.65	0.45
85:AA:694:A:H2'	85:AA:695:A:C4	2.52	0.45
27:AT:111:ARG:CZ	85:AA:507:C:C5	3.00	0.45
32:AY:61:PRO:HB3	85:AA:632:U:H3	1.81	0.45
34:BA:608:G:H2'	34:BA:609:G:O4'	2.16	0.45
34:BA:651:U:O5'	34:BA:651:U:H6	2.00	0.45
35:BB:795:A:H2	35:BB:1028:C:C2	2.35	0.45
35:BB:869:G:H2'	35:BB:870:C:C6	2.51	0.45
85:AA:994:A:C2	85:AA:995:G:C1'	3.00	0.45
85:AA:958:C:N3	85:AA:996:A:C2	2.84	0.45
5:A4:69:PRO:CG	85:AA:998:U:C2	3.00	0.45
35:BB:516:G:C5	35:BB:539:G:C2	3.05	0.45
49:BP:87:TYR:CD2	49:BP:93:ARG:NH1	2.85	0.45
85:AA:937:G:H2'	85:AA:938:A:OP1	2.17	0.45
85:AA:1868:G:N7	85:AA:1869:U:C5	2.85	0.45
85:AA:2014:G:C2	85:AA:2029:G:C2	3.05	0.45
17:AI:146:SER:HB2	85:AA:1559:U:H3	1.80	0.45
28:AU:32:LYS:HG2	85:AA:2039:G:C4	2.51	0.45
31:AX:178:ALA:HB1	85:AA:1877:G:O2'	2.16	0.45
34:BA:275:C:H2'	34:BA:276:C:H6	1.82	0.45
34:BA:290:G:N1	34:BA:291:C:C4	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1208:U:P	34:BA:1208:U:H6	2.40	0.45
34:BA:520:G:C6	34:BA:521:C:C6	3.04	0.45
35:BB:1406:C:C2	35:BB:1407:U:C5	3.05	0.45
35:BB:1507:U:H5"	49:BP:171:ARG:HE	1.82	0.45
41:BH:13:C:C6	41:BH:14:C:O2	2.70	0.45
85:AA:1448:A:C4	85:AA:1449:C:N1	2.85	0.45
85:AA:1462:A:C8	85:AA:1463:A:N7	2.85	0.45
85:AA:1466:U:O2	85:AA:1469:G:C2	2.70	0.45
85:AA:1677:A:H2'	85:AA:1678:U:H5'	1.99	0.45
85:AA:1679:U:O5'	85:AA:1679:U:C6	2.70	0.45
85:AA:314:C:H3'	85:AA:316:C:C5	2.52	0.45
34:BA:2:A:C6	36:BC:169:G:C6	3.05	0.45
85:AA:546:U:C4	85:AA:546:U:OP1	2.70	0.45
85:AA:1532:G:C2	85:AA:2091:C:N3	2.84	0.45
85:AA:887:A:N6	85:AA:919:U:C5	2.85	0.45
34:BA:1343:A:C6	34:BA:1344:G:C5	3.05	0.45
85:AA:119:G:C2	85:AA:120:C:C6	3.04	0.45
85:AA:391:G:C2	85:AA:410:A:C2	3.04	0.45
85:AA:7:G:C2	85:AA:18:C:N3	2.85	0.45
34:BA:204:U:H3	34:BA:252:A:H61	1.64	0.45
85:AA:857:G:C6	85:AA:858:G:N7	2.85	0.45
85:AA:866:U:O2	85:AA:867:G:C8	2.70	0.45
39:BF:36:G:H2'	39:BF:37:C:H6	1.81	0.45
39:BF:46:G:C6	39:BF:47:C:C5	3.05	0.45
85:AA:757:A:C4	85:AA:758:C:C6	3.04	0.45
35:BB:1280:U:C5	35:BB:1281:G:N7	2.85	0.45
85:AA:1007:G:C2	85:AA:1096:G:N3	2.85	0.45
35:BB:1202:G:H21	54:BU:49:ARG:HD3	1.82	0.45
35:BB:460:C:C5	35:BB:461:U:C5	3.05	0.45
11:AC:57:MET:SD	11:AC:209:MET:HB3	2.56	0.45
35:BB:676:G:N1	35:BB:678:U:N3	2.65	0.45
35:BB:1426:G:C6	35:BB:1427:A:N7	2.85	0.45
16:AH:64:PRO:HB3	16:AH:107:ALA:HB2	1.98	0.45
5:A4:58:ARG:HH21	5:A4:173:LEU:HD11	1.82	0.45
12:AD:1:MET:HB2	85:AA:1596:A:C5'	2.47	0.45
34:BA:1081:U:C6	34:BA:1081:U:H3'	2.51	0.45
85:AA:1637:C:H2'	85:AA:1638:C:O4'	2.17	0.45
85:AA:261:U:C3'	85:AA:261:U:C6	2.99	0.45
34:BA:1387:U:O2	34:BA:1391:A:C5	2.69	0.45
8:A7:133:LEU:HD21	8:A7:171:SER:HB3	1.99	0.45
12:AD:71:PHE:HB2	12:AD:73:TRP:CZ2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AG:71:ILE:HG22	15:AG:75:LEU:HD13	1.98	0.45
11:AC:118:PHE:HB3	11:AC:207:ILE:HG12	1.99	0.45
12:AD:88:TYR:CZ	14:AF:43:THR:HG22	2.51	0.45
53:BT:140:GLU:C	53:BT:140:GLU:CD	2.76	0.45
20:AL:92:ASP:HA	20:AL:94:ALA:HB3	1.99	0.45
8:A7:7:GLY:HA2	8:A7:56:TYR:CG	2.52	0.45
16:AH:89:LYS:HB3	16:AH:125:VAL:HG21	1.98	0.45
85:AA:2155:U:H1'	85:AA:2164:G:C2	2.52	0.45
34:BA:1009:G:C5	34:BA:1010:C:C5	3.05	0.45
34:BA:1057:C:H2'	34:BA:1059:U:O4'	2.17	0.45
34:BA:1115:A:C6	34:BA:1116:G:C5	3.04	0.45
34:BA:1155:U:C4	34:BA:1156:U:C5	3.05	0.45
34:BA:1226:G:C5	34:BA:1227:U:C4	3.05	0.45
34:BA:1320:A:C5	34:BA:1419:A:C5	3.04	0.45
34:BA:1520:A:C5	34:BA:1521:C:C5	3.04	0.45
34:BA:1529:G:C6	34:BA:1578:A:C5	3.03	0.45
34:BA:1577:U:H2'	34:BA:1578:A:H8	1.78	0.45
34:BA:1667:G:C6	34:BA:1668:C:C2	3.04	0.45
34:BA:1686:G:H2'	34:BA:1687:A:H8	1.76	0.45
34:BA:15:G:H2'	34:BA:16:C:H6	1.82	0.45
34:BA:1705:C:C4	34:BA:1722:U:O4	2.70	0.45
34:BA:1709:A:C2	34:BA:1710:C:C5	3.05	0.45
34:BA:1733:G:H2'	34:BA:1734:U:O4'	2.15	0.45
34:BA:1820:G:C6	34:BA:1821:A:N1	2.85	0.45
34:BA:271:C:C5	34:BA:1538:G:C6	3.05	0.45
34:BA:295:G:H3'	34:BA:295:G:N3	2.32	0.45
34:BA:31:A:H2'	34:BA:32:A:O4'	2.17	0.45
34:BA:349:G:C6	34:BA:350:C:C4	3.05	0.45
34:BA:38:G:C2'	34:BA:39:C:H5'	2.47	0.45
34:BA:428:C:H5'	34:BA:1028:A:C5'	2.47	0.45
34:BA:495:A:C6	34:BA:496:G:C5	3.05	0.45
34:BA:498:A:N1	34:BA:499:C:C2	2.85	0.45
34:BA:769:U:O4	34:BA:771:A:C5	2.70	0.45
34:BA:843:G:C4	34:BA:844:U:C6	3.04	0.45
34:BA:958:G:C2	34:BA:960:C:N3	2.85	0.45
35:BB:1081:U:C4	54:BU:3:HIS:CE1	3.05	0.45
35:BB:1118:G:N1	35:BB:1119:G:C4	2.85	0.45
35:BB:1143:A:C5	35:BB:1144:A:C6	3.05	0.45
35:BB:120:C:H2'	35:BB:120:C:O2	2.17	0.45
35:BB:1221:G:H2'	35:BB:1222:A:N3	2.32	0.45
35:BB:371:C:C2	35:BB:372:U:C5	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:130:G:C2	35:BB:374:A:C4	3.05	0.45
35:BB:612:A:H2'	35:BB:613:C:C6	2.52	0.45
35:BB:65:A:H2'	35:BB:66:G:C8	2.51	0.45
35:BB:81:A:C4	40:BG:121:C:C5	3.04	0.45
35:BB:87:G:C5	35:BB:88:U:C5	3.05	0.45
36:BC:123:G:N2	36:BC:141:C:C2	2.85	0.45
36:BC:28:C:H2'	36:BC:29:C:C5	2.50	0.45
36:BC:55:U:O2	36:BC:62:A:C2	2.70	0.45
36:BC:83:A:H4'	36:BC:84:U:H5'	1.99	0.45
36:BC:91:G:C6	36:BC:92:C:N3	2.85	0.45
37:BD:23:A:C6	37:BD:24:U:C4	3.04	0.45
38:BE:119:U:O5'	38:BE:119:U:C6	2.68	0.45
38:BE:122:G:C5	38:BE:123:A:C5	3.05	0.45
38:BE:140:G:OP1	38:BE:140:G:H8	2.00	0.45
38:BE:149:A:H5"	55:BV:108:ARG:NH2	2.32	0.45
38:BE:176:G:C6	38:BE:177:U:C2	3.05	0.45
38:BE:200:A:N6	38:BE:201:A:C6	2.85	0.45
38:BE:20:C:N3	38:BE:21:C:C5	2.84	0.45
38:BE:88:G:O5'	38:BE:88:G:H8	2.00	0.45
39:BF:22:U:C5	39:BF:57:C:C4	3.05	0.45
40:BG:129:G:C2	40:BG:162:A:C5	3.04	0.45
39:BF:12:U:OP1	40:BG:22:G:C2	2.70	0.45
40:BG:40:G:C2	40:BG:71:C:C2	3.04	0.45
41:BH:111:U:C4	41:BH:112:U:N3	2.85	0.45
41:BH:29:G:C6	41:BH:30:C:N1	2.85	0.45
48:BO:90:HIS:HB2	48:BO:92:ARG:HH21	1.81	0.45
51:BR:25:HIS:HB2	51:BR:28:ASN:CG	2.36	0.45
57:BX:54:PHE:CG	57:BX:55:ARG:N	2.85	0.45
34:BA:561:U:C2	34:BA:562:C:C4	3.04	0.45
4:A3:152:ARG:HG2	85:AA:145:C:C5'	2.47	0.45
85:AA:128:U:O5'	85:AA:129:U:C5	2.69	0.45
85:AA:147:G:N2	85:AA:148:G:C4	2.84	0.45
4:A3:111:VAL:CG1	85:AA:158:C:H5'	2.46	0.45
85:AA:2126:U:C2	85:AA:2127:G:C8	3.04	0.45
85:AA:253:C:N3	85:AA:329:G:C6	2.85	0.45
85:AA:33:U:C6	85:AA:538:A:N1	2.85	0.45
85:AA:357:C:C6	85:AA:357:C:O5'	2.70	0.45
85:AA:370:A:C5	85:AA:371:C:C4	3.05	0.45
6:A5:29:LEU:HD22	85:AA:465:A:H62	1.82	0.45
85:AA:474:C:H2'	85:AA:475:A:O4'	2.17	0.45
85:AA:491:G:O2'	85:AA:492:C:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:636:G:N1	85:AA:637:U:C2	2.85	0.45
85:AA:680:U:C4	85:AA:682:C:H2'	2.52	0.45
85:AA:94:C:H2'	85:AA:95:U:H6	1.81	0.45
34:BA:608:G:C4	34:BA:609:G:C8	3.04	0.45
34:BA:630:U:N3	34:BA:631:G:C6	2.84	0.45
35:BB:971:A:C5'	35:BB:971:A:H8	2.30	0.45
35:BB:519:A:C6	35:BB:532:C:N3	2.85	0.45
85:AA:1139:G:O6	85:AA:1140:G:C5	2.70	0.45
13:AE:166:LYS:HD3	85:AA:937:G:P	2.56	0.45
85:AA:940:G:C5'	85:AA:941:C:C4	3.00	0.45
85:AA:1584:U:C6	85:AA:1585:A:C2	3.05	0.45
85:AA:1655:G:C5	85:AA:1656:C:C5	3.05	0.45
85:AA:1655:G:H2'	85:AA:1656:C:O4'	2.16	0.45
85:AA:1658:G:C6	85:AA:1867:G:C6	3.04	0.45
85:AA:1868:G:C2	85:AA:1869:U:H1'	2.52	0.45
34:BA:519:G:C6	34:BA:1491:U:H5"	2.50	0.45
34:BA:1038:U:O4	34:BA:1039:G:C5	2.70	0.45
35:BB:1288:G:H1'	35:BB:1319:U:C2	2.52	0.45
34:BA:596:G:N1	34:BA:1487:U:H2'	2.30	0.45
85:AA:602:U:C4	85:AA:604:C:C2	3.04	0.45
35:BB:1512:C:C3'	35:BB:1512:C:C6	2.99	0.45
85:AA:240:A:H2'	85:AA:242:G:N2	2.32	0.45
35:BB:136:A:H2'	35:BB:136:A:N3	2.31	0.45
35:BB:1543:C:H3'	35:BB:1543:C:C6	2.52	0.45
85:AA:1291:A:C8	85:AA:1292:A:C8	3.05	0.45
7:A6:82:TYR:CE2	7:A6:148:ARG:HB3	2.52	0.45
34:BA:1287:G:C5	34:BA:1436:A:C4	3.04	0.45
85:AA:2140:U:C5	85:AA:2141:G:N7	2.85	0.45
85:AA:1617:G:H2'	85:AA:1619:A:C5	2.52	0.45
85:AA:584:G:C6	85:AA:612:A:C8	3.05	0.45
85:AA:614:U:H4'	85:AA:614:U:OP1	2.16	0.45
85:AA:2053:A:C2'	85:AA:2054:G:H5'	2.44	0.45
85:AA:800:A:O3'	85:AA:801:U:H4'	2.16	0.45
57:BX:85:ILE:HB	57:BX:106:PHE:CE1	2.52	0.45
34:BA:1334:G:C6	34:BA:1408:C:N4	2.85	0.45
85:AA:519:A:H2'	85:AA:520:A:OP2	2.16	0.45
35:BB:1002:G:N1	35:BB:1003:G:C4	2.85	0.45
85:AA:1242:A:H2'	85:AA:1243:G:H5'	1.99	0.45
4:A3:164:LYS:HA	4:A3:173:ARG:O	2.16	0.45
49:BP:128:PHE:CE2	49:BP:133:LYS:NZ	2.85	0.45
35:BB:1434:G:H2'	35:BB:1435:G:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1001:G:N7	34:BA:1002:U:C5	2.85	0.45
85:AA:744:C:H1'	85:AA:766:G:N3	2.32	0.45
24:AQ:51:VAL:CG2	85:AA:1722:G:H21	2.30	0.45
86:AB:32:U:H3	86:AB:38:A:H61	1.65	0.45
85:AA:1252:A:N1	85:AA:1254:A:C6	2.84	0.45
35:BB:1203:C:C2	35:BB:1204:C:C6	3.05	0.45
39:BF:3:A:C6	39:BF:4:A:C4	3.05	0.45
85:AA:1013:C:N3	85:AA:1058:G:C4	2.85	0.45
35:BB:1482:A:C5	35:BB:1483:A:N7	2.85	0.45
85:AA:1795:C:O5'	85:AA:1795:C:C6	2.69	0.45
85:AA:833:U:N3	85:AA:834:U:C5	2.85	0.45
35:BB:864:U:O5'	35:BB:864:U:C6	2.70	0.45
85:AA:1431:U:O2	85:AA:1432:C:C4	2.69	0.45
21:AM:85:LEU:HD21	21:AM:96:THR:HB	1.98	0.45
35:BB:768:A:C6	35:BB:769:C:C5	3.04	0.45
57:BX:122:ARG:NH2	57:BX:129:THR:H	2.15	0.45
8:A7:93:LEU:CD2	8:A7:117:PHE:CZ	3.00	0.45
3:A2:27:TYR:CG	3:A2:130:MET:SD	3.09	0.45
35:BB:1475:U:C6	35:BB:1475:U:C3'	3.00	0.45
1:A0:102:PHE:CE2	1:A0:187:VAL:HG23	2.52	0.45
50:BQ:136:TYR:CE1	50:BQ:148:GLU:HB3	2.52	0.45
6:A5:36:THR:HG22	6:A5:57:GLY:C	2.37	0.45
8:A7:48:ASP:O	8:A7:50:HIS:CE1	2.70	0.45
5:A4:92:PRO:HB3	85:AA:1025:U:OP1	2.17	0.45
52:BS:46:MET:SD	52:BS:46:MET:N	2.89	0.45
48:BO:139:ILE:HA	52:BS:170:LYS:O	2.16	0.45
48:BO:139:ILE:HG22	52:BS:168:PHE:O	2.16	0.45
20:AL:113:GLU:O	20:AL:116:VAL:HG13	2.16	0.45
56:BW:108:LYS:HA	56:BW:108:LYS:HD3	1.76	0.45
85:AA:1756:C:H6	85:AA:1756:C:O5'	1.99	0.45
85:AA:2232:A:OP2	85:AA:2232:A:C6	2.70	0.45
2:A1:230:SER:HB3	2:A1:236:LEU:HD21	1.99	0.45
19:AK:98:TYR:CZ	19:AK:102:TYR:CD2	3.05	0.45
34:BA:1022:C:C2	34:BA:1025:A:H4'	2.52	0.45
34:BA:1056:C:N3	34:BA:1057:C:C5	2.85	0.45
34:BA:1097:G:C4	35:BB:1084:A:N3	2.85	0.45
34:BA:1108:U:C6	34:BA:1108:U:H3'	2.52	0.45
34:BA:112:C:N3	34:BA:113:G:C5	2.85	0.45
34:BA:1186:U:H2'	34:BA:1189:A:N7	2.31	0.45
34:BA:1285:G:C2	34:BA:1286:C:N1	2.85	0.45
34:BA:1300:G:N1	34:BA:1301:G:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1412:G:C6	34:BA:1413:G:N7	2.85	0.45
34:BA:1442:A:C6	34:BA:1443:U:C4	3.05	0.45
34:BA:1469:G:C6	34:BA:1470:G:C6	3.05	0.45
34:BA:1484:A:N1	34:BA:1502:G:C5	2.85	0.45
34:BA:1531:G:C2	34:BA:1532:G:C4	3.04	0.45
34:BA:733:G:C2	34:BA:1588:U:N3	2.85	0.45
34:BA:1603:A:C2	34:BA:1604:A:H1'	2.52	0.45
34:BA:1604:A:C2	35:BB:23:U:C2	3.05	0.45
34:BA:1729:G:C5	34:BA:1794:A:C6	3.04	0.45
34:BA:1790:U:H6	34:BA:1790:U:OP2	1.99	0.45
34:BA:20:A:C3'	34:BA:20:A:C8	2.99	0.45
34:BA:214:A:N6	34:BA:214:A:C5	2.64	0.45
34:BA:234:A:C6	34:BA:235:C:N3	2.85	0.45
34:BA:320:G:C4	34:BA:321:G:C8	3.05	0.45
34:BA:384:U:H5"	50:BQ:167:TRP:CH2	2.51	0.45
34:BA:49:A:O5'	34:BA:49:A:H8	1.99	0.45
34:BA:502:U:O2	34:BA:502:U:C2'	2.58	0.45
34:BA:774:A:C4	34:BA:775:C:C6	3.05	0.45
34:BA:785:G:C2	34:BA:786:U:C6	3.05	0.45
34:BA:793:A:H2'	47:BN:198:ARG:NH2	2.31	0.45
34:BA:799:A:C8	34:BA:857:C:OP1	2.70	0.45
34:BA:743:A:N1	34:BA:894:G:C4	2.85	0.45
35:BB:1118:G:C4	35:BB:1119:G:C8	3.05	0.45
35:BB:1462:G:H2'	35:BB:1463:A:C8	2.52	0.45
35:BB:1534:U:O2'	41:BH:122:U:C6	2.69	0.45
35:BB:369:A:H2'	35:BB:370:A:C2	2.52	0.45
35:BB:587:A:C8	35:BB:587:A:H3'	2.52	0.45
35:BB:57:G:H2'	35:BB:58:G:O4'	2.17	0.45
35:BB:656:A:C6	35:BB:657:A:C6	3.05	0.45
35:BB:658:G:C5	35:BB:659:C:C4	3.04	0.45
35:BB:702:G:C6	35:BB:1039:A:C5	3.05	0.45
36:BC:125:A:H3'	36:BC:125:A:C8	2.52	0.45
36:BC:17:U:H6	36:BC:17:U:O5'	2.00	0.45
34:BA:399:G:C6	36:BC:29:C:N3	2.85	0.45
36:BC:38:U:H5"	36:BC:39:G:C8	2.52	0.45
36:BC:7:U:H2'	36:BC:8:C:O4'	2.17	0.45
36:BC:98:C:C6	36:BC:98:C:H3'	2.52	0.45
37:BD:106:G:N1	37:BD:107:G:C5	2.85	0.45
38:BE:193:A:C2	38:BE:194:A:C2	3.05	0.45
38:BE:42:C:H2'	38:BE:43:A:C8	2.51	0.45
38:BE:63:C:H41	38:BE:167:U:C2'	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:6:A:H3'	38:BE:7:U:O4'	2.16	0.45
39:BF:28:C:H4'	39:BF:29:U:H2'	1.99	0.45
39:BF:60:C:C6	39:BF:62:U:O2	2.70	0.45
40:BG:124:A:C5	40:BG:125:C:C5	3.04	0.45
40:BG:72:G:H2'	40:BG:73:U:C6	2.52	0.45
41:BH:119:U:C2	41:BH:120:C:C6	3.05	0.45
41:BH:40:C:N3	41:BH:41:A:C4	2.85	0.45
35:BB:1124:G:O6	45:BL:64:PHE:CE1	2.70	0.45
48:BO:30:LYS:HD3	48:BO:55:ARG:HD2	1.99	0.45
49:BP:122:TYR:N	49:BP:123:TRP:CD1	2.78	0.45
38:BE:110:U:H5"	53:BT:103:ARG:CZ	2.47	0.45
58:BY:21:TYR:CZ	58:BY:22:VAL:O	2.70	0.45
85:AA:1226:A:N6	85:AA:1227:A:C6	2.84	0.45
85:AA:1230:U:H6	85:AA:1230:U:O5'	1.99	0.45
85:AA:1269:A:H2'	85:AA:1269:A:N3	2.31	0.45
85:AA:173:A:C6	85:AA:175:A:C4	3.05	0.45
85:AA:2132:A:H2'	85:AA:2133:A:O5'	2.17	0.45
85:AA:58:C:H4'	85:AA:526:G:H1'	1.99	0.45
85:AA:51:A:C4	85:AA:52:U:O4'	2.70	0.45
85:AA:508:C:C2	85:AA:532:G:N2	2.85	0.45
85:AA:638:G:O2'	85:AA:651:G:H4'	2.16	0.45
85:AA:662:U:C6	85:AA:662:U:H3'	2.51	0.45
85:AA:87:C:C2	85:AA:88:G:C5	3.05	0.45
35:BB:795:A:C2	35:BB:1028:C:C2	3.05	0.45
34:BA:557:U:H3'	34:BA:557:U:C6	2.51	0.45
35:BB:1197:G:C6	35:BB:1198:C:N3	2.85	0.45
5:A4:48:ILE:HG13	5:A4:49:ASN:N	2.31	0.45
85:AA:876:U:H3	85:AA:929:G:H22	1.63	0.45
24:AQ:63:ARG:NH2	85:AA:1577:G:OP1	2.49	0.45
85:AA:1893:G:C2	85:AA:1894:G:C4	3.05	0.45
34:BA:261:A:HO2'	34:BA:261:A:H8	1.65	0.45
34:BA:267:G:OP1	59:BZ:9:ARG:NH2	2.50	0.45
34:BA:520:G:O6	34:BA:521:C:C5	2.70	0.45
34:BA:602:G:N2	34:BA:682:A:C6	2.85	0.45
85:AA:1974:C:C4	85:AA:1975:G:C5	3.04	0.45
34:BA:714:G:C5	34:BA:715:U:C5	3.05	0.45
85:AA:189:G:N1	85:AA:190:A:C5	2.85	0.45
35:BB:1519:U:H2'	35:BB:1520:C:O4'	2.17	0.45
41:BH:16:A:C5	41:BH:17:A:C6	3.05	0.45
85:AA:10:G:N1	85:AA:11:A:C5	2.84	0.45
85:AA:1464:G:C8	85:AA:1464:G:C5'	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:314:C:C3'	85:AA:314:C:C6	3.00	0.45
85:AA:882:C:H2'	85:AA:883:A:C8	2.52	0.45
34:BA:2:A:N1	36:BC:169:G:N1	2.65	0.45
85:AA:546:U:C3'	85:AA:546:U:C6	2.99	0.45
85:AA:561:C:N4	85:AA:567:G:C6	2.85	0.45
3:A2:29:THR:HG21	3:A2:51:ARG:O	2.17	0.45
85:AA:914:U:N3	85:AA:915:G:C4	2.84	0.45
34:BA:1338:G:C2	34:BA:1404:A:C5	3.05	0.45
85:AA:391:G:N1	85:AA:392:G:C5	2.85	0.45
85:AA:431:G:N2	85:AA:432:A:C4	2.85	0.45
85:AA:433:U:H2'	85:AA:434:U:H6	1.81	0.45
85:AA:439:U:O5'	85:AA:439:U:C6	2.70	0.45
85:AA:439:U:O4	85:AA:440:U:C4	2.70	0.45
34:BA:202:A:H2'	34:BA:203:U:C6	2.52	0.45
18:AJ:26:LEU:HA	18:AJ:61:ILE:O	2.17	0.45
34:BA:1264:U:C5	34:BA:1264:U:OP2	2.70	0.45
47:BN:82:LEU:HA	47:BN:85:LEU:HD12	1.98	0.45
85:AA:817:G:C8	85:AA:817:G:C3'	2.96	0.45
39:BF:36:G:C2	39:BF:48:G:C2	3.05	0.45
85:AA:344:U:C6	85:AA:344:U:O5'	2.70	0.45
34:BA:579:U:C6	34:BA:579:U:OP1	2.70	0.45
85:AA:1937:G:N2	85:AA:1938:G:C4	2.85	0.45
25:AR:75:HIS:CG	30:AW:4:PHE:CE1	3.05	0.45
35:BB:441:G:N1	35:BB:442:U:C4	2.84	0.45
56:BW:29:ASP:HA	56:BW:115:GLY:C	2.38	0.45
35:BB:1383:C:O5'	35:BB:1383:C:C6	2.70	0.45
34:BA:1352:G:C2	34:BA:1373:C:C2	3.05	0.45
35:BB:709:G:C2	35:BB:773:G:C4	3.04	0.45
13:AE:19:GLN:HB2	13:AE:24:TYR:CE2	2.52	0.45
4:A3:41:ILE:HG23	4:A3:42:PHE:CE2	2.52	0.45
35:BB:552:C:N4	35:BB:553:U:H3	2.15	0.45
18:AJ:28:ARG:NH1	85:AA:1113:G:H3'	2.32	0.45
23:AP:154:TRP:CD2	23:AP:155:GLY:N	2.85	0.45
85:AA:1979:A:H2'	85:AA:1981:A:OP2	2.16	0.45
8:A7:116:ALA:HB3	8:A7:125:VAL:CG1	2.46	0.45
34:BA:361:C:O5'	34:BA:361:C:C6	2.70	0.45
14:AF:70:ASP:HB2	14:AF:96:GLU:HA	1.98	0.45
3:A2:131:ARG:CA	33:AZ:83:PRO:HG2	2.47	0.45
34:BA:1011:G:N1	34:BA:1013:A:C2	2.83	0.45
34:BA:1157:A:H3'	34:BA:1157:A:C8	2.52	0.45
34:BA:1533:G:C2	34:BA:1534:U:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1535:G:H3'	34:BA:1536:A:C5'	2.47	0.45
34:BA:1572:G:C4	34:BA:1573:C:C5	3.05	0.45
34:BA:1600:G:C5	34:BA:1601:C:N4	2.85	0.45
34:BA:159:U:H3	34:BA:160:G:H2'	1.81	0.45
34:BA:1673:G:O6	34:BA:1680:G:C6	2.70	0.45
34:BA:171:U:O2	34:BA:318:U:H1'	2.17	0.45
34:BA:240:C:C5	34:BA:241:U:C5	3.05	0.45
34:BA:342:U:C2	34:BA:348:U:C4	3.05	0.45
34:BA:474:A:N1	34:BA:475:A:C2	2.84	0.45
34:BA:478:G:H2'	34:BA:479:U:O4'	2.16	0.45
34:BA:701:G:HO2'	34:BA:1550:G:P	2.40	0.45
34:BA:792:A:C5	34:BA:793:A:C6	3.05	0.45
34:BA:801:U:C2	34:BA:802:G:C8	3.05	0.45
34:BA:842:U:H2'	34:BA:843:G:H8	1.83	0.45
34:BA:743:A:H2	34:BA:894:G:H1'	1.82	0.45
34:BA:942:G:N1	34:BA:943:G:C4	2.85	0.45
35:BB:109:U:O5'	35:BB:109:U:C6	2.70	0.45
35:BB:1105:G:C6	35:BB:1106:G:C6	3.05	0.45
35:BB:1158:C:C4	35:BB:1159:U:C4	3.05	0.45
35:BB:1241:U:H2'	35:BB:1241:U:O2	2.16	0.45
35:BB:133:G:C4	35:BB:369:A:N1	2.85	0.45
35:BB:18:A:C6	35:BB:19:C:C2	3.05	0.45
35:BB:456:A:C8	35:BB:456:A:C3'	2.99	0.45
35:BB:66:G:N1	35:BB:618:U:C2	2.85	0.45
35:BB:656:A:C6	35:BB:657:A:C5	3.05	0.45
35:BB:790:A:N1	35:BB:1033:U:C4	2.85	0.45
35:BB:95:A:C3'	35:BB:96:A:N7	2.80	0.45
36:BC:106:G:C8	36:BC:148:C:N4	2.85	0.45
36:BC:65:G:C6	36:BC:66:G:C5	3.05	0.45
37:BD:71:G:N7	37:BD:72:U:C5	2.84	0.45
37:BD:76:U:O4	37:BD:77:A:C5	2.70	0.45
34:BA:938:C:C1'	38:BE:112:G:H5'	2.47	0.45
38:BE:122:G:H2'	38:BE:123:A:C8	2.52	0.45
38:BE:95:G:H1'	38:BE:126:G:N2	2.32	0.45
38:BE:144:A:C2	38:BE:145:A:H1'	2.52	0.45
38:BE:147:G:N1	38:BE:166:G:C6	2.85	0.45
35:BB:993:A:C2	38:BE:17:U:O2	2.70	0.45
38:BE:194:A:C8	38:BE:194:A:O5'	2.69	0.45
38:BE:93:U:H2'	38:BE:94:U:O4'	2.17	0.45
40:BG:36:G:C5	40:BG:37:G:N7	2.85	0.45
41:BH:42:U:C6	41:BH:110:C:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:67:G:C2	41:BH:68:G:C4	3.04	0.45
42:BI:69:VAL:HG23	42:BI:72:ARG:HH21	1.82	0.45
50:BQ:44:ALA:O	50:BQ:48:ARG:HB2	2.17	0.45
58:BY:10:HIS:O	58:BY:10:HIS:CD2	2.70	0.45
58:BY:48:LYS:CB	58:BY:51:ARG:HB2	9.11	0.45
34:BA:545:U:C4	34:BA:546:U:C2	3.05	0.45
34:BA:568:G:C2	34:BA:569:C:C2	3.05	0.45
85:AA:162:A:C5	85:AA:164:G:O4'	2.70	0.45
85:AA:2115:G:C2	85:AA:2116:U:C6	3.05	0.45
85:AA:450:A:C8	85:AA:450:A:O5'	2.69	0.45
85:AA:470:C:C2	85:AA:471:U:C6	3.05	0.45
85:AA:160:A:H4'	85:AA:481:A:C2	2.52	0.45
85:AA:44:C:N3	85:AA:501:A:C2	2.84	0.45
32:AY:59:LYS:CE	85:AA:624:A:C2	2.99	0.45
34:BA:624:G:C6	34:BA:658:C:O2	2.70	0.45
34:BA:669:U:H2'	34:BA:670:U:C5'	2.46	0.45
34:BA:670:U:H2'	34:BA:671:C:O4'	2.17	0.45
35:BB:556:U:H6	35:BB:556:U:O5'	1.99	0.45
35:BB:828:G:C6	35:BB:829:C:C4	3.05	0.45
35:BB:857:G:C5	35:BB:866:A:N1	2.85	0.45
85:AA:1185:G:C6	85:AA:1186:C:C4	3.05	0.45
85:AA:932:A:H2'	85:AA:933:U:C5	2.52	0.45
21:AM:143:ARG:HH11	85:AA:1548:A:H5"	1.82	0.45
85:AA:1565:G:C6	85:AA:1566:A:C5	3.05	0.45
85:AA:1868:G:C5	85:AA:1869:U:C5	3.05	0.45
34:BA:678:C:C6	34:BA:679:U:C6	3.05	0.45
34:BA:1234:U:C4	34:BA:1235:C:C5	3.05	0.45
34:BA:1489:U:OP2	34:BA:1490:U:C5	2.70	0.45
57:BX:158:ALA:CA	57:BX:163:LEU:HD12	2.42	0.45
85:AA:11:A:C2	85:AA:12:U:C2	3.05	0.45
85:AA:1456:A:H2'	85:AA:1457:C:C4	2.52	0.45
85:AA:1457:C:H5"	85:AA:1457:C:H6	1.82	0.45
85:AA:1464:G:N3	85:AA:1465:C:C6	2.84	0.45
85:AA:1518:A:C2	85:AA:1519:A:C4	3.05	0.45
85:AA:1694:C:C2	85:AA:1695:G:C8	3.05	0.45
35:BB:1023:G:C6	35:BB:1024:G:O6	2.70	0.45
34:BA:3:G:N2	36:BC:168:C:C2	2.84	0.45
85:AA:556:C:C2	85:AA:572:G:N2	2.85	0.45
85:AA:584:G:H2'	85:AA:585:G:O4'	2.16	0.45
85:AA:2054:G:C2	85:AA:2055:G:C4	3.05	0.45
85:AA:1719:C:N4	85:AA:1823:G:H1'	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:905:C:H4'	85:AA:908:C:N4	2.32	0.45
27:AT:17:PHE:HB3	27:AT:28:PHE:HB2	1.98	0.45
85:AA:432:A:C2	85:AA:440:U:C2	3.06	0.45
85:AA:378:A:C6	85:AA:381:A:C8	3.05	0.45
35:BB:1466:A:P	35:BB:1466:A:H8	2.40	0.45
85:AA:1259:U:C5	85:AA:1260:G:C8	3.05	0.45
85:AA:1835:U:H3'	85:AA:1836:U:C6	2.51	0.45
85:AA:809:A:C5	85:AA:810:C:C5	3.05	0.45
85:AA:861:G:C8	85:AA:861:G:O5'	2.70	0.45
85:AA:1050:C:H2'	85:AA:1051:A:C5	2.52	0.45
85:AA:1252:A:N1	85:AA:1254:A:C2	2.85	0.45
34:BA:988:U:C4	34:BA:989:C:C4	3.05	0.45
35:BB:1480:G:N3	35:BB:1485:G:N1	2.65	0.45
35:BB:420:U:H4'	35:BB:510:A:C5	2.51	0.45
25:AR:75:HIS:HB3	30:AW:4:PHE:CE2	2.52	0.45
85:AA:1728:G:C6	85:AA:1813:C:C2	3.05	0.45
1:A0:212:LEU:HD22	1:A0:212:LEU:HA	1.74	0.45
35:BB:889:U:H1'	35:BB:894:A:C6	2.52	0.45
19:AK:34:ASN:HB2	85:AA:1791:U:OP1	2.17	0.45
44:BK:51:HIS:HB3	44:BK:134:ILE:HG23	1.98	0.45
85:AA:1367:C:C2'	85:AA:1368:G:C8	3.00	0.45
35:BB:895:U:H3'	35:BB:896:C:C6	2.51	0.45
35:BB:116:G:C5	35:BB:389:G:N3	2.85	0.45
34:BA:1357:C:C2	34:BA:1368:G:C2	3.05	0.45
48:BO:218:LYS:C	49:BP:94:ARG:HH21	2.20	0.45
54:BU:6:GLY:O	54:BU:9:CYS:HB2	2.16	0.45
35:BB:942:G:C6	35:BB:943:U:C4	3.05	0.45
85:AA:1872:G:C5	85:AA:1873:U:H1'	2.52	0.45
50:BQ:116:ARG:HA	50:BQ:147:TYR:CZ	2.52	0.45
13:AE:57:GLY:HA3	13:AE:58:PHE:CZ	2.52	0.45
23:AP:152:GLY:HA3	23:AP:165:PRO:HA	1.97	0.45
2:A1:82:GLY:O	2:A1:98:ILE:HB	2.17	0.45
6:A5:83:TYR:CZ	6:A5:85:ALA:HA	2.52	0.45
20:AL:33:ARG:HA	20:AL:36:MET:SD	2.57	0.45
13:AE:100:ILE:HG23	13:AE:127:CYS:SG	2.57	0.45
8:A7:15:TRP:CE3	8:A7:15:TRP:N	2.84	0.45
34:BA:1070:G:O5'	34:BA:1070:G:H8	2.00	0.44
34:BA:1083:A:C8	34:BA:1168:C:C2'	3.00	0.44
34:BA:108:A:C5	34:BA:386:A:C6	3.04	0.44
34:BA:1101:A:C6	34:BA:1102:A:C8	3.05	0.44
34:BA:1153:C:C2	34:BA:1154:U:C5	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1297:G:N2	34:BA:1298:U:C5	2.84	0.44
34:BA:1460:U:C2	34:BA:1461:A:C8	3.05	0.44
34:BA:1515:U:C5	34:BA:1516:G:C8	3.05	0.44
34:BA:1555:G:C5	34:BA:1556:A:C5	3.05	0.44
34:BA:161:U:P	34:BA:161:U:C6	3.11	0.44
34:BA:25:C:C4	34:BA:26:C:C4	3.05	0.44
34:BA:334:G:C6	34:BA:356:C:O2	2.70	0.44
34:BA:372:U:H3'	34:BA:372:U:C6	2.52	0.44
34:BA:52:G:C5	34:BA:53:G:C8	3.05	0.44
34:BA:56:G:H1'	34:BA:57:A:H4'	1.99	0.44
34:BA:738:C:C5	34:BA:738:C:OP2	2.69	0.44
34:BA:758:G:C8	34:BA:759:A:C1'	3.00	0.44
34:BA:819:G:C2	34:BA:852:C:N3	2.85	0.44
34:BA:934:G:C4	34:BA:956:G:N1	2.84	0.44
34:BA:966:G:C6	34:BA:967:C:N3	2.85	0.44
35:BB:1040:C:C2	35:BB:1041:A:C4	3.05	0.44
35:BB:1103:A:N9	35:BB:1105:G:C8	2.84	0.44
35:BB:1210:U:C5	35:BB:1211:C:N4	2.85	0.44
35:BB:1410:G:C5	35:BB:1411:U:C5	3.05	0.44
35:BB:426:A:N7	35:BB:428:G:C2	2.86	0.44
35:BB:448:G:C5	35:BB:449:C:C4	3.05	0.44
35:BB:602:G:C6	35:BB:607:G:N1	2.85	0.44
35:BB:692:G:O6	35:BB:1052:G:C2	2.71	0.44
35:BB:780:U:H2'	35:BB:1038:G:O6	2.17	0.44
35:BB:97:U:C4	35:BB:98:A:N6	2.85	0.44
36:BC:123:G:H1	36:BC:141:C:N4	2.14	0.44
36:BC:55:U:C2	36:BC:56:G:C8	3.05	0.44
36:BC:63:G:C2	36:BC:64:U:C5	3.04	0.44
36:BC:71:A:C5	36:BC:87:C:O4'	2.70	0.44
36:BC:95:A:C6	36:BC:96:A:C5	3.05	0.44
36:BC:98:C:C4	36:BC:98:C:OP2	2.70	0.44
37:BD:53:U:H1'	37:BD:54:A:N7	2.32	0.44
38:BE:104:G:C2	38:BE:105:A:N3	2.85	0.44
38:BE:113:C:H1'	38:BE:114:G:O4'	2.17	0.44
38:BE:131:C:N3	38:BE:132:U:C4	2.84	0.44
38:BE:141:A:C4	38:BE:144:A:H1'	2.52	0.44
38:BE:162:U:H2'	38:BE:163:A:C8	2.52	0.44
38:BE:201:A:C5	38:BE:202:C:N3	2.85	0.44
38:BE:75:C:N3	38:BE:76:U:C6	2.85	0.44
40:BG:159:A:H2'	40:BG:159:A:N3	2.32	0.44
40:BG:53:C:H2'	40:BG:54:G:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:57:ALA:H	45:BL:70:GLU:HB3	1.82	0.44
53:BT:78:THR:HA	53:BT:81:ARG:HG2	1.99	0.44
34:BA:1690:U:H4'	57:BX:135:LEU:HB3	1.99	0.44
34:BA:544:U:C6	34:BA:544:U:O5'	2.70	0.44
2:A1:55:ALA:HB2	85:AA:512:U:OP2	2.17	0.44
85:AA:1226:A:C2	85:AA:1227:A:C1'	2.99	0.44
85:AA:1229:G:C4	85:AA:1230:U:C5	3.05	0.44
85:AA:2125:A:C2	85:AA:2126:U:C4	3.06	0.44
85:AA:2191:C:O2'	85:AA:2192:A:H5'	2.17	0.44
4:A3:96:ARG:HD3	85:AA:470:C:O3'	2.17	0.44
85:AA:484:G:H2'	85:AA:485:A:O5'	2.17	0.44
85:AA:530:A:H5'	85:AA:531:G:OP2	2.17	0.44
85:AA:635:G:C2	85:AA:659:A:N3	2.85	0.44
85:AA:686:U:N3	85:AA:687:G:C5	2.85	0.44
35:BB:562:A:H2'	35:BB:563:A:C5	2.52	0.44
35:BB:824:C:C4	35:BB:825:U:C6	3.05	0.44
35:BB:847:U:C6	35:BB:848:A:C5'	3.00	0.44
35:BB:869:G:OP2	35:BB:869:G:C8	2.70	0.44
35:BB:872:A:C5	35:BB:963:G:C2	3.06	0.44
85:AA:701:C:H3'	85:AA:702:G:H8	1.82	0.44
85:AA:709:A:C6	85:AA:710:A:C6	3.05	0.44
35:BB:1198:C:H2'	35:BB:1199:A:C8	2.52	0.44
85:AA:1139:G:C5	85:AA:1140:G:C8	3.05	0.44
34:BA:676:G:C6	34:BA:677:U:N3	2.85	0.44
34:BA:594:G:N2	34:BA:684:G:C2	2.84	0.44
22:AO:84:ARG:NH2	85:AA:1988:A:H3'	2.32	0.44
35:BB:674:C:C2	35:BB:1273:G:N2	2.85	0.44
35:BB:1286:G:C5	35:BB:1321:G:C2	3.06	0.44
34:BA:1498:A:C8	34:BA:1498:A:C3'	3.00	0.44
35:BB:1500:U:H1'	35:BB:1505:U:C5	2.52	0.44
35:BB:361:A:C6	35:BB:362:A:C6	3.05	0.44
35:BB:364:U:C5	35:BB:365:U:C5	3.04	0.44
35:BB:1546:C:O5'	35:BB:1546:C:C6	2.70	0.44
41:BH:13:C:C2'	41:BH:14:C:H5'	2.48	0.44
85:AA:1462:A:H2	85:AA:1519:A:H4'	1.82	0.44
85:AA:2170:G:N1	85:AA:2171:A:H1'	2.32	0.44
85:AA:267:U:C2	85:AA:268:A:C2	3.05	0.44
85:AA:552:C:H2'	85:AA:553:G:C8	2.52	0.44
7:A6:176:ARG:CZ	85:AA:611:G:C5	3.00	0.44
85:AA:545:A:C2	85:AA:618:A:C6	3.05	0.44
85:AA:914:U:H3'	85:AA:915:G:H8	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:119:G:C2	85:AA:362:G:H1'	2.52	0.44
85:AA:430:G:C2	85:AA:442:G:N3	2.85	0.44
85:AA:382:G:C4	85:AA:415:G:C2	3.05	0.44
85:AA:523:U:C6	85:AA:523:U:O5'	2.70	0.44
35:BB:1007:U:H1'	35:BB:1012:G:N2	2.31	0.44
34:BA:202:A:C2	34:BA:203:U:N3	2.85	0.44
85:AA:1155:A:H2'	85:AA:1156:A:O4'	2.16	0.44
40:BG:136:G:H3'	40:BG:136:G:C8	2.52	0.44
85:AA:74:U:C2	85:AA:75:U:C6	3.04	0.44
85:AA:263:A:H2'	85:AA:264:A:H3'	1.99	0.44
85:AA:814:G:N1	85:AA:864:C:C2	2.84	0.44
13:AE:53:LYS:HE2	85:AA:868:A:H5'	1.99	0.44
85:AA:346:U:O4	85:AA:347:U:C4	2.70	0.44
85:AA:1009:G:N3	85:AA:1094:G:C2	2.85	0.44
23:AP:43:TRP:CE3	23:AP:75:GLN:HB2	2.52	0.44
27:AT:26:LYS:O	27:AT:81:LEU:HA	2.18	0.44
44:BK:154:ARG:HG2	44:BK:154:ARG:HH11	1.82	0.44
85:AA:1832:G:C2	85:AA:1833:C:C6	3.06	0.44
85:AA:1955:U:H5	85:AA:1956:C:C5	2.35	0.44
34:BA:688:G:C6	34:BA:689:C:C4	3.05	0.44
23:AP:180:ILE:HB	23:AP:207:TYR:HB2	1.98	0.44
34:BA:831:U:C5	34:BA:832:C:C5	3.05	0.44
35:BB:432:C:O2	35:BB:439:G:C4	2.69	0.44
85:AA:1728:G:C6	85:AA:1813:C:N3	2.86	0.44
11:AC:184:CYS:HB2	11:AC:190:LEU:HD11	1.99	0.44
85:AA:730:G:O2'	85:AA:731:U:H5'	2.17	0.44
35:BB:462:G:C6	35:BB:463:C:C4	3.05	0.44
35:BB:710:A:C2	35:BB:772:U:O2	2.70	0.44
85:AA:1754:G:O4'	85:AA:1790:G:C6	2.70	0.44
38:BE:57:U:C6	55:BV:86:ARG:CZ	3.00	0.44
8:A7:108:HIS:HE1	8:A7:126:SER:OG	2.01	0.44
34:BA:921:G:C5	34:BA:922:C:C5	3.05	0.44
34:BA:1078:U:H3'	34:BA:1079:C:H41	1.82	0.44
11:AC:126:PHE:CE2	11:AC:215:ALA:HB2	2.52	0.44
34:BA:105:U:C2	34:BA:106:U:C6	3.05	0.44
18:AJ:128:PHE:CD2	18:AJ:128:PHE:C	2.91	0.44
45:BL:147:HIS:CD2	45:BL:147:HIS:O	2.70	0.44
26:AS:7:GLN:NE2	26:AS:8:HIS:CE1	2.85	0.44
59:BZ:118:ARG:HA	59:BZ:121:ARG:CZ	2.46	0.44
30:AW:55:VAL:O	30:AW:63:LEU:HA	2.17	0.44
10:A9:110:ASP:HB3	14:AF:86:GLN:HE22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1260:G:C6	34:BA:1270:G:C6	3.06	0.44
34:BA:130:U:C4	34:BA:132:U:C6	3.05	0.44
34:BA:1603:A:C4	35:BB:33:A:N1	2.86	0.44
34:BA:1640:G:H2'	34:BA:1641:G:O4'	2.17	0.44
34:BA:1658:G:C4	34:BA:1659:G:C8	3.05	0.44
34:BA:1720:U:O2'	34:BA:1721:U:H5'	2.17	0.44
34:BA:1745:G:C2	34:BA:1780:U:C2	3.05	0.44
34:BA:182:U:C2	34:BA:183:G:C8	3.06	0.44
34:BA:212:A:C6	34:BA:221:G:C2	3.04	0.44
34:BA:380:A:C6	34:BA:381:A:C5	3.06	0.44
34:BA:420:A:N3	34:BA:430:A:C5	2.85	0.44
34:BA:478:G:C2	34:BA:479:U:C2	3.06	0.44
34:BA:743:A:C6	47:BN:7:ALA:N	2.85	0.44
34:BA:758:G:C8	34:BA:758:G:H3'	2.53	0.44
34:BA:762:A:C2	34:BA:771:A:OP2	2.71	0.44
34:BA:798:G:C5	34:BA:800:G:N7	2.84	0.44
35:BB:1099:U:C4	35:BB:1100:C:C6	3.06	0.44
35:BB:110:U:C5	35:BB:587:A:C1'	3.00	0.44
35:BB:1145:G:C6	35:BB:1146:C:C5	3.06	0.44
35:BB:1219:A:C2'	35:BB:1220:A:H8	2.30	0.44
35:BB:1226:G:H4'	47:BN:206:ARG:NH2	2.31	0.44
35:BB:1299:G:C2'	35:BB:1356:G:N2	2.80	0.44
35:BB:1353:G:C4	35:BB:1365:G:C2	3.05	0.44
35:BB:1346:A:C8	35:BB:1368:A:C6	3.05	0.44
35:BB:1445:A:H3'	35:BB:1446:C:C5	2.51	0.44
35:BB:18:A:N1	35:BB:19:C:C2	2.85	0.44
35:BB:493:U:C6	35:BB:493:U:O5'	2.71	0.44
34:BA:1846:G:C4	35:BB:5:A:N6	2.85	0.44
35:BB:702:G:C2	35:BB:1039:A:C6	3.05	0.44
35:BB:702:G:C2	35:BB:703:U:C2	3.05	0.44
35:BB:783:U:H3'	35:BB:784:C:C6	2.52	0.44
36:BC:106:G:N3	36:BC:115:G:C2	2.85	0.44
36:BC:108:A:N3	36:BC:113:G:C6	2.86	0.44
36:BC:127:C:H2'	36:BC:128:U:O4'	2.17	0.44
36:BC:138:C:O5'	36:BC:138:C:C6	2.71	0.44
34:BA:13:U:C2	36:BC:154:A:C2	3.05	0.44
34:BA:8:G:C2	36:BC:163:A:N1	2.86	0.44
37:BD:108:G:N2	37:BD:109:U:C2	2.85	0.44
37:BD:16:U:C6	37:BD:16:U:H3'	2.51	0.44
37:BD:18:G:C2	37:BD:61:C:C2	3.05	0.44
37:BD:1:G:C6	37:BD:2:G:C6	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:26:C:C4	37:BD:27:A:C8	3.06	0.44
37:BD:33:U:C4	37:BD:34:C:C4	3.05	0.44
37:BD:37:G:H2'	37:BD:38:U:C6	2.51	0.44
37:BD:85:C:C2'	37:BD:86:A:C8	2.98	0.44
37:BD:7:G:C6	37:BD:8:A:N6	2.86	0.44
38:BE:95:G:C6	38:BE:126:G:C6	3.06	0.44
39:BF:19:A:C2	39:BF:20:U:N3	2.85	0.44
39:BF:62:U:P	39:BF:62:U:H2'	2.56	0.44
39:BF:9:C:C4	39:BF:10:A:C2	3.05	0.44
35:BB:385:C:H4'	40:BG:108:G:H21	1.83	0.44
40:BG:25:G:N1	40:BG:26:G:C5	2.85	0.44
40:BG:50:G:C4	40:BG:59:G:C6	3.05	0.44
41:BH:39:G:H1'	41:BH:113:G:H22	1.82	0.44
41:BH:51:C:C2	41:BH:52:G:C8	3.05	0.44
34:BA:900:A:C2	47:BN:14:ARG:HB2	2.52	0.44
34:BA:744:G:C5	47:BN:6:ASN:HA	2.48	0.44
34:BA:1827:C:H4'	57:BX:101:ASN:HD21	1.82	0.44
85:AA:104:C:H4'	85:AA:448:G:N3	2.33	0.44
85:AA:2132:A:N1	85:AA:2133:A:C5	2.85	0.44
85:AA:2134:U:C2	85:AA:2135:A:C8	3.06	0.44
85:AA:20:G:C4	85:AA:21:U:C5	3.05	0.44
85:AA:2204:A:C6	85:AA:2205:A:C5	3.05	0.44
85:AA:466:A:OP1	85:AA:467:U:C5	2.70	0.44
85:AA:480:U:C4	85:AA:482:C:N3	2.84	0.44
85:AA:517:A:N7	85:AA:518:A:C8	2.86	0.44
85:AA:681:G:O4'	85:AA:687:G:C2	2.70	0.44
85:AA:690:G:O4'	85:AA:695:A:C5	2.71	0.44
85:AA:924:A:C2	85:AA:925:G:C1'	3.00	0.44
34:BA:617:G:C2	34:BA:618:G:C4	3.04	0.44
34:BA:617:G:C5	34:BA:618:G:C5	3.06	0.44
34:BA:653:U:C4	34:BA:654:C:C6	3.05	0.44
35:BB:564:U:C2	35:BB:566:A:C6	3.05	0.44
35:BB:812:G:N1	35:BB:813:C:C2	2.85	0.44
35:BB:817:C:N3	35:BB:818:U:C1'	2.80	0.44
35:BB:806:U:H3	35:BB:833:G:N2	2.15	0.44
35:BB:856:U:C3'	35:BB:856:U:C6	2.99	0.44
85:AA:995:G:N2	85:AA:996:A:C1'	2.80	0.44
85:AA:1121:U:C4	85:AA:1122:U:C5	3.06	0.44
85:AA:1182:A:H2'	85:AA:1184:A:C8	2.52	0.44
35:BB:465:C:C6	35:BB:509:A:C5	3.05	0.44
5:A4:9:LYS:HZ1	53:BT:188:ALA:HB1	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1139:G:C6	85:AA:1140:G:C4	3.05	0.44
85:AA:1126:G:C2	85:AA:1201:A:N3	2.85	0.44
85:AA:877:G:C4	85:AA:878:U:C6	3.05	0.44
85:AA:938:A:C4	85:AA:939:A:N9	2.86	0.44
21:AM:138:CYS:SG	85:AA:1900:C:C5	3.10	0.44
34:BA:257:G:H2'	34:BA:257:G:N3	2.31	0.44
34:BA:718:U:H2'	34:BA:719:G:O4'	2.17	0.44
35:BB:1405:G:H4'	35:BB:1405:G:OP2	2.16	0.44
35:BB:666:A:C8	35:BB:667:G:C5	3.05	0.44
34:BA:596:G:H1	34:BA:1487:U:HO2'	1.64	0.44
35:BB:1509:G:C5	35:BB:1510:G:C8	3.05	0.44
85:AA:194:U:H2'	85:AA:195:C:C5	2.52	0.44
35:BB:1521:G:H2'	35:BB:1522:G:H8	1.82	0.44
85:AA:2230:U:O5'	85:AA:2230:U:H6	2.01	0.44
85:AA:2147:A:C2	85:AA:2148:C:C1'	3.00	0.44
85:AA:616:A:C6	85:AA:617:C:H2'	2.53	0.44
85:AA:717:G:C5	85:AA:718:C:C5	3.05	0.44
85:AA:910:G:H2'	85:AA:910:G:N3	2.32	0.44
85:AA:1486:G:O2'	85:AA:1487:G:H5'	2.18	0.44
85:AA:1150:G:C4	85:AA:1151:G:C5	3.05	0.44
35:BB:1001:G:C6	35:BB:1002:G:N7	2.86	0.44
34:BA:202:A:C2	34:BA:203:U:C2	3.06	0.44
35:BB:575:C:H5	35:BB:576:A:HO2'	1.66	0.44
34:BA:1040:G:C2	34:BA:1041:U:C2	3.05	0.44
85:AA:743:C:H2'	85:AA:744:C:C5	2.52	0.44
85:AA:744:C:C4	85:AA:745:C:C5	3.05	0.44
34:BA:531:C:H2'	34:BA:579:U:H2'	1.98	0.44
85:AA:1446:U:H5"	85:AA:1446:U:H6	1.82	0.44
85:AA:1825:A:H5'	85:AA:1826:U:C5	2.52	0.44
35:BB:461:U:O4'	35:BB:579:A:C2	2.70	0.44
35:BB:585:U:H2'	35:BB:586:U:C6	2.53	0.44
39:BF:1:C:H3'	39:BF:2:G:C5'	2.48	0.44
34:BA:979:G:C6	51:BR:132:ALA:HB1	2.52	0.44
35:BB:430:A:C2	35:BB:441:G:C4	3.05	0.44
56:BW:36:LEU:HD22	56:BW:62:ALA:CB	2.47	0.44
85:AA:1799:C:H6	85:AA:1799:C:O5'	2.00	0.44
35:BB:1381:U:C4	35:BB:1382:U:C4	3.05	0.44
85:AA:1435:C:C6	85:AA:1435:C:H3'	2.52	0.44
35:BB:743:C:H2'	35:BB:744:U:C4'	2.46	0.44
35:BB:770:G:C2	35:BB:771:U:C2	3.05	0.44
35:BB:770:G:C6	35:BB:771:U:N3	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1441:G:C5	85:AA:1442:U:C4	3.05	0.44
5:A4:58:ARG:HH21	5:A4:173:LEU:HG	1.83	0.44
34:BA:736:G:C4	34:BA:901:C:C1'	3.00	0.44
4:A3:165:VAL:HG13	4:A3:167:LYS:HE2	1.99	0.44
25:AR:30:THR:HB	25:AR:32:PHE:CZ	2.51	0.44
52:BS:81:ALA:HA	52:BS:90:THR:O	2.17	0.44
29:AV:100:TYR:CG	85:AA:2249:U:H5'	2.53	0.44
8:A7:63:LEU:HB3	8:A7:94:TRP:CZ3	2.51	0.44
4:A3:215:LEU:HD13	4:A3:216:VAL:HB	1.98	0.44
13:AE:151:ILE:HG22	13:AE:153:TYR:H	1.82	0.44
85:AA:1572:C:H5"	85:AA:1574:C:C5	2.51	0.44
58:BY:4:ILE:HG22	58:BY:5:ASP:H	1.82	0.44
27:AT:73:GLY:C	27:AT:75:LYS:H	2.19	0.44
85:AA:229:U:O2	85:AA:230:U:C5	2.70	0.44
16:AH:56:LYS:HE2	16:AH:56:LYS:HA	2.00	0.44
50:BQ:63:GLU:H	50:BQ:63:GLU:CD	2.20	0.44
85:AA:326:C:H2'	85:AA:326:C:O2	2.16	0.44
85:AA:328:U:H3'	85:AA:328:U:H6	1.82	0.44
18:AJ:14:ILE:O	18:AJ:17:ALA:HB3	2.17	0.44
48:BO:195:VAL:O	48:BO:198:LYS:HB2	2.16	0.44
50:BQ:186:ARG:O	50:BQ:190:GLY:N	2.50	0.44
6:A5:80:ASP:OD2	6:A5:103:VAL:HG21	2.17	0.44
33:AZ:46:VAL:HG23	33:AZ:86:GLU:HB3	2.00	0.44
31:AX:157:ILE:HG23	31:AX:163:HIS:HA	1.99	0.44
7:A6:142:ILE:HB	7:A6:145:PHE:CZ	2.53	0.44
12:AD:12:ASP:HB3	12:AD:44:LEU:HD11	2.00	0.44
85:AA:2154:C:C2	85:AA:2155:U:C6	3.05	0.44
34:BA:1070:G:H2'	34:BA:1071:G:O4'	2.16	0.44
34:BA:1167:A:C6	34:BA:1206:C:C4	3.05	0.44
34:BA:15:G:C6	36:BC:153:C:C4	3.04	0.44
34:BA:1600:G:C6	34:BA:1601:C:N4	2.85	0.44
34:BA:1610:A:C6	34:BA:1640:G:C6	3.06	0.44
34:BA:1642:A:C5	34:BA:1643:U:C4	3.05	0.44
34:BA:1671:A:N7	34:BA:1672:C:C5	2.85	0.44
34:BA:1684:A:H2'	34:BA:1685:C:C6	2.53	0.44
34:BA:1737:A:N1	34:BA:1738:G:C5	2.85	0.44
34:BA:1731:A:C8	34:BA:1793:G:N3	2.86	0.44
34:BA:1729:G:C4	34:BA:1794:A:C6	3.05	0.44
34:BA:1841:A:H3'	34:BA:1842:U:C5	2.52	0.44
34:BA:241:U:H2'	34:BA:242:U:O4'	2.18	0.44
34:BA:365:A:C4	34:BA:377:G:C2	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:402:G:C6	36:BC:26:U:N3	2.86	0.44
34:BA:416:A:C2	36:BC:52:A:N1	2.85	0.44
34:BA:412:G:C1'	34:BA:418:G:C6	3.00	0.44
34:BA:487:A:H1'	34:BA:488:C:O2	2.18	0.44
34:BA:738:C:C2	34:BA:739:A:N7	2.85	0.44
34:BA:753:G:N1	34:BA:754:G:C5	2.85	0.44
34:BA:804:G:C5	34:BA:805:A:C4	3.05	0.44
34:BA:818:G:C2	34:BA:853:A:C4	3.05	0.44
34:BA:878:G:N1	34:BA:880:G:C5	2.85	0.44
34:BA:938:C:C2'	34:BA:939:C:H6	2.30	0.44
35:BB:1147:G:C8	35:BB:1147:G:O5'	2.70	0.44
35:BB:1295:A:C6	35:BB:1308:G:C5	3.06	0.44
35:BB:1363:A:H2'	35:BB:1364:C:C6	2.51	0.44
35:BB:404:A:C2	35:BB:411:A:N6	2.85	0.44
35:BB:60:A:C4'	35:BB:61:A:H5"	2.45	0.44
36:BC:111:C:C2	36:BC:113:G:H1'	2.52	0.44
36:BC:140:U:OP2	36:BC:140:U:C4	2.70	0.44
37:BD:74:A:H62	37:BD:102:C:H41	1.64	0.44
38:BE:117:A:H5'	38:BE:117:A:N3	2.32	0.44
38:BE:133:C:O2	38:BE:134:A:H2'	2.17	0.44
38:BE:72:C:O2'	38:BE:135:A:C5	2.68	0.44
38:BE:18:U:O5'	38:BE:18:U:H6	2.00	0.44
38:BE:90:G:C5	38:BE:91:G:N7	2.84	0.44
39:BF:25:G:C6	39:BF:26:U:O4	2.71	0.44
40:BG:50:G:N3	40:BG:59:G:C6	2.85	0.44
41:BH:66:G:C8	41:BH:66:G:O5'	2.70	0.44
41:BH:69:C:C5	41:BH:70:U:C5	3.06	0.44
47:BN:28:LYS:HB3	50:BQ:217:PHE:CE2	2.52	0.44
35:BB:133:G:P	53:BT:134:ASN:HD21	2.40	0.44
85:AA:104:C:N4	85:AA:373:G:H1	2.15	0.44
85:AA:143:U:C2	85:AA:144:A:N7	2.85	0.44
85:AA:379:U:H3	85:AA:1495:G:C2'	2.30	0.44
85:AA:2187:G:N1	85:AA:2188:C:C2	2.86	0.44
85:AA:43:A:C6	85:AA:443:A:C6	3.06	0.44
85:AA:427:G:C2	85:AA:448:G:N3	2.86	0.44
85:AA:450:A:O5'	85:AA:450:A:H8	2.01	0.44
85:AA:482:C:H4'	85:AA:483:G:C6	2.52	0.44
85:AA:48:G:C6	85:AA:497:G:C4	3.06	0.44
85:AA:637:U:C3'	85:AA:638:G:C8	3.01	0.44
85:AA:669:G:C5	85:AA:670:C:C5	3.05	0.44
34:BA:610:A:H3'	34:BA:610:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:841:U:H2'	35:BB:842:G:C8	2.52	0.44
35:BB:970:C:C6	35:BB:970:C:H3'	2.53	0.44
85:AA:1218:C:C3'	85:AA:1218:C:C6	3.00	0.44
85:AA:2212:U:H4'	85:AA:2233:A:C2	2.53	0.44
35:BB:514:G:C4	35:BB:515:C:C5	3.06	0.44
85:AA:1194:U:N3	85:AA:1195:U:C5	2.86	0.44
18:AJ:107:SER:O	85:AA:930:G:H5'	2.16	0.44
85:AA:1563:U:C4	85:AA:1564:U:C4	3.06	0.44
85:AA:1864:G:C4	85:AA:1865:C:C5	3.05	0.44
85:AA:1650:G:C2'	85:AA:1869:U:C5	3.00	0.44
85:AA:2044:A:P	86:AB:35:A:H4'	2.58	0.44
34:BA:680:C:H5'	34:BA:681:G:H8	1.82	0.44
35:BB:639:A:C5'	35:BB:640:A:H5"	2.46	0.44
34:BA:1488:C:C6	34:BA:1489:U:H5	2.34	0.44
27:AT:42:PRO:HA	85:AA:591:A:C5'	2.47	0.44
35:BB:361:A:C2	35:BB:362:A:C4	3.06	0.44
35:BB:1525:G:C2	35:BB:1526:C:C2	3.06	0.44
85:AA:1288:A:H1'	85:AA:1455:C:O2	2.17	0.44
85:AA:1287:C:N4	85:AA:1468:G:H4'	2.32	0.44
85:AA:1672:G:N1	85:AA:1680:U:C2	2.86	0.44
85:AA:1665:G:OP2	85:AA:1691:U:H6	2.01	0.44
85:AA:2137:A:N6	85:AA:2138:G:C6	2.85	0.44
85:AA:2172:A:C2	85:AA:2173:A:C1'	3.00	0.44
85:AA:2145:G:H1'	85:AA:2174:G:H1	1.80	0.44
34:BA:2:A:C8	34:BA:2:A:O5'	2.71	0.44
85:AA:556:C:H2'	85:AA:557:G:C8	2.52	0.44
85:AA:1716:U:N3	85:AA:1823:G:C6	2.85	0.44
27:AT:17:PHE:CD2	27:AT:17:PHE:N	2.85	0.44
85:AA:119:G:N2	85:AA:362:G:H1'	2.32	0.44
85:AA:401:U:O4	85:AA:402:G:C6	2.71	0.44
35:BB:1003:G:C2	35:BB:1004:A:C5	3.05	0.44
35:BB:1005:A:C2	35:BB:1014:U:C2	3.06	0.44
11:AC:227:ARG:NH2	11:AC:228:SER:H	2.16	0.44
39:BF:45:G:N1	39:BF:46:G:C6	2.85	0.44
39:BF:50:C:H2'	39:BF:50:C:O2	2.17	0.44
85:AA:764:U:H2'	85:AA:766:G:N7	2.32	0.44
85:AA:1726:G:H22	85:AA:1814:U:H3	1.65	0.44
30:AW:14:ARG:HB3	30:AW:15:THR:HG23	1.99	0.44
85:AA:1002:G:N1	85:AA:1003:G:C5	2.86	0.44
86:AB:3:C:C4	86:AB:71:G:C5	3.06	0.44
85:AA:1714:G:H2'	85:AA:1715:C:C5	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1953:G:C4	85:AA:1954:C:C5	3.06	0.44
85:AA:202:U:H6	85:AA:202:U:H3'	1.82	0.44
34:BA:984:U:C4	34:BA:985:C:C4	3.05	0.44
35:BB:635:A:C5	35:BB:636:G:C8	3.05	0.44
27:AT:117:ARG:HA	27:AT:120:ARG:NH2	2.32	0.44
85:AA:835:C:H5	85:AA:836:A:C8	2.34	0.44
1:A0:118:LYS:O	1:A0:119:TRP:CD1	2.71	0.44
34:BA:1352:G:O6	34:BA:1353:U:C5	2.71	0.44
35:BB:606:C:OP1	35:BB:606:C:C6	2.70	0.44
85:AA:833:U:C4	85:AA:834:U:C2	3.05	0.44
85:AA:1644:G:C6	85:AA:1645:G:C4	3.05	0.44
86:AB:49:C:H3'	86:AB:50:U:C5	2.53	0.44
34:BA:1316:G:C4	34:BA:1317:U:O4	2.71	0.44
47:BN:59:LEU:HD12	47:BN:158:TYR:CE1	2.52	0.44
4:A3:28:LEU:HD21	4:A3:41:ILE:HG21	1.98	0.44
12:AD:68:TRP:HE1	31:AX:22:GLU:HG3	1.83	0.44
23:AP:47:THR:O	23:AP:51:ARG:HB3	2.16	0.44
12:AD:24:SER:H	31:AX:74:GLN:HB3	1.82	0.44
29:AV:44:ARG:HD3	29:AV:45:ARG:H	1.82	0.44
85:AA:227:A:C5	85:AA:228:C:C6	3.05	0.44
51:BR:67:ILE:HB	51:BR:80:LYS:HE2	1.98	0.44
24:AQ:77:TYR:N	24:AQ:77:TYR:CD2	2.84	0.44
35:BB:589:U:O5'	35:BB:589:U:H6	2.00	0.44
11:AC:93:LYS:HD2	11:AC:195:ILE:HG23	2.00	0.44
34:BA:1014:A:C5	34:BA:1016:A:H1'	2.52	0.44
34:BA:1048:C:C2	34:BA:1049:G:C8	3.06	0.44
34:BA:1259:C:C6	34:BA:1259:C:O5'	2.70	0.44
34:BA:1270:G:H2'	34:BA:1271:C:O4'	2.18	0.44
34:BA:1292:A:C8	34:BA:1292:A:O5'	2.71	0.44
34:BA:1599:A:C4	34:BA:1600:G:H1'	2.52	0.44
34:BA:1627:U:H3'	34:BA:1628:A:H8	1.83	0.44
34:BA:219:U:C4	34:BA:220:U:C4	3.05	0.44
34:BA:315:U:C5	34:BA:316:G:N7	2.85	0.44
34:BA:371:U:C2	34:BA:372:U:N1	2.86	0.44
34:BA:45:A:O3'	34:BA:46:C:H4'	2.18	0.44
34:BA:55:G:C4	34:BA:56:G:C5	3.06	0.44
34:BA:757:G:H5'	34:BA:758:G:N2	2.33	0.44
34:BA:77:C:H2'	34:BA:78:U:C6	2.52	0.44
35:BB:1041:A:C2	35:BB:1042:U:C5	3.05	0.44
35:BB:1095:G:C6	35:BB:1096:G:N7	2.86	0.44
35:BB:1148:U:O4'	35:BB:1152:U:C4	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1150:A:H3'	35:BB:1151:A:C5'	2.48	0.44
35:BB:24:C:O2'	35:BB:25:A:H5"	2.18	0.44
35:BB:494:C:H2'	35:BB:495:A:C8	2.53	0.44
35:BB:596:C:C2	35:BB:597:C:C5	3.06	0.44
35:BB:693:U:O5'	35:BB:693:U:H6	1.99	0.44
35:BB:707:G:H2'	35:BB:708:C:H6	1.83	0.44
36:BC:117:A:C5	36:BC:118:U:C5	3.06	0.44
36:BC:156:A:H4'	36:BC:157:U:OP2	2.17	0.44
36:BC:23:G:O6	59:BZ:10:ARG:NH2	2.50	0.44
36:BC:52:A:C2	36:BC:53:A:H1'	2.53	0.44
38:BE:164:C:N3	38:BE:165:U:C5	2.86	0.44
38:BE:178:G:H5"	38:BE:179:A:C2	2.52	0.44
38:BE:186:C:N4	38:BE:189:A:C2	2.85	0.44
38:BE:35:A:C6	38:BE:36:U:N3	2.86	0.44
38:BE:42:C:H4'	53:BT:63:TRP:CZ3	2.52	0.44
38:BE:87:U:N3	38:BE:88:G:C8	2.86	0.44
39:BF:66:C:O5'	39:BF:66:C:C6	2.69	0.44
40:BG:77:U:C6	40:BG:78:C:C5	3.05	0.44
40:BG:80:G:C5	40:BG:81:G:C5	3.05	0.44
41:BH:101:A:C2'	41:BH:102:C:H5'	2.47	0.44
41:BH:32:U:C5	41:BH:33:G:C4	3.06	0.44
35:BB:1226:G:C4	47:BN:192:LYS:HE2	2.52	0.44
40:BG:35:G:OP1	48:BO:91:HIS:HA	2.18	0.44
51:BR:49:ARG:O	51:BR:53:ALA:HB3	2.17	0.44
34:BA:1154:U:H3'	54:BU:13:HIS:HE1	1.83	0.44
34:BA:544:U:N3	34:BA:545:U:C6	2.85	0.44
2:A1:55:ALA:C	2:A1:59:GLN:HE21	2.20	0.44
85:AA:41:G:C2	85:AA:503:A:C5	3.05	0.44
85:AA:457:G:C6	85:AA:458:C:C5	3.05	0.44
85:AA:542:G:O6	85:AA:543:A:C6	2.71	0.44
85:AA:637:U:C4	85:AA:638:G:C6	3.05	0.44
85:AA:638:G:C6	85:AA:652:U:C1'	3.00	0.44
85:AA:642:G:C2	85:AA:643:C:C2	3.05	0.44
85:AA:544:A:N6	85:AA:669:G:OP1	2.51	0.44
85:AA:671:G:C5	85:AA:672:U:C4	3.06	0.44
85:AA:686:U:H5'	85:AA:1477:A:N1	2.33	0.44
85:AA:5:U:C2	85:AA:6:G:C8	3.06	0.44
23:AP:214:THR:HG21	85:AA:4:C:H5'	1.98	0.44
34:BA:616:G:N2	34:BA:617:G:C2	2.85	0.44
34:BA:659:U:H3'	34:BA:660:C:C5'	2.47	0.44
35:BB:555:G:H5"	35:BB:556:U:OP2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:808:U:O5'	35:BB:808:U:C6	2.70	0.44
35:BB:812:G:C4	35:BB:813:C:C6	3.05	0.44
35:BB:849:A:C8	35:BB:850:U:H2'	2.52	0.44
85:AA:959:C:C6	85:AA:960:G:C4	3.05	0.44
35:BB:515:C:H3'	35:BB:540:G:N7	2.33	0.44
24:AQ:63:ARG:HE	85:AA:1576:G:H1'	1.82	0.44
21:AM:126:HIS:CE1	85:AA:2011:C:H5"	2.53	0.44
21:AM:34:VAL:HG13	21:AM:39:ILE:HG21	1.98	0.44
34:BA:603:U:O4	34:BA:1491:U:C2	2.70	0.44
85:AA:1964:A:H2'	85:AA:1965:U:C5	2.52	0.44
85:AA:1988:A:C2	85:AA:1989:A:C2	3.06	0.44
34:BA:970:U:O2	34:BA:971:G:C8	2.70	0.44
35:BB:640:A:C2	35:BB:1283:C:H5'	2.52	0.44
35:BB:1404:A:C5	35:BB:1440:A:C2	3.05	0.44
34:BA:1495:A:H2'	34:BA:1498:A:N7	2.31	0.44
85:AA:258:G:C6	85:AA:259:A:N7	2.86	0.44
85:AA:1458:G:OP2	85:AA:1458:G:H3'	2.17	0.44
85:AA:1705:G:C5	85:AA:1706:A:N7	2.86	0.44
85:AA:2216:A:C5	85:AA:2218:G:N1	2.86	0.44
85:AA:2228:G:H2'	85:AA:2229:G:O4'	2.17	0.44
85:AA:1624:U:H2'	85:AA:1625:C:C6	2.53	0.44
85:AA:271:A:N1	85:AA:978:U:C2	2.85	0.44
85:AA:283:A:H2	85:AA:286:C:OP2	2.01	0.44
85:AA:286:C:C4	85:AA:287:G:C4	3.05	0.44
34:BA:2:A:C6	36:BC:169:G:N1	2.85	0.44
85:AA:550:G:H2'	85:AA:551:C:C6	2.53	0.44
85:AA:575:G:N1	85:AA:577:U:C4	2.86	0.44
85:AA:2081:A:C4	85:AA:2082:C:C5	3.05	0.44
34:BA:1341:A:N7	34:BA:1342:C:C5	2.86	0.44
34:BA:1409:A:N1	34:BA:1410:C:C2	2.84	0.44
13:AE:145:ARG:HB3	85:AA:112:A:C8	2.51	0.44
35:BB:1466:A:OP2	35:BB:1466:A:C8	2.70	0.44
85:AA:1264:U:H3'	85:AA:1265:C:H5	1.82	0.44
85:AA:65:A:C8	85:AA:66:U:O4	2.71	0.44
85:AA:72:C:O5'	85:AA:72:C:C6	2.70	0.44
47:BN:81:SER:O	47:BN:85:LEU:HG	2.18	0.44
85:AA:810:C:C4	85:AA:811:A:N7	2.85	0.44
85:AA:810:C:N3	85:AA:811:A:C8	2.85	0.44
39:BF:36:G:N3	39:BF:48:G:C2	2.85	0.44
39:BF:42:G:C4	39:BF:44:C:C2	3.05	0.44
39:BF:45:G:C4	39:BF:46:G:C8	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:53:G:P	39:BF:54:U:H5	2.41	0.44
85:AA:739:C:H6	85:AA:740:A:H5"	1.82	0.44
85:AA:1016:G:H4'	85:AA:1056:C:C5	2.53	0.44
85:AA:1019:U:H2'	85:AA:1051:A:N7	2.32	0.44
34:BA:529:A:C5	34:BA:530:A:N7	2.85	0.44
34:BA:1139:G:H2'	34:BA:1139:G:N3	2.33	0.44
21:AM:98:HIS:O	21:AM:98:HIS:CD2	2.70	0.44
3:A2:12:TRP:CD1	3:A2:93:ASN:HA	2.52	0.44
86:AB:28:G:H2'	86:AB:29:G:C8	2.52	0.44
35:BB:475:A:C6	35:BB:504:C:O2	2.71	0.44
85:AA:1847:U:O5'	85:AA:1847:U:H6	2.00	0.44
85:AA:1953:G:N2	85:AA:1954:C:C2	2.85	0.44
85:AA:1143:C:H42	85:AA:1168:C:H42	1.65	0.44
34:BA:834:C:C5	34:BA:835:U:C6	3.05	0.44
34:BA:838:U:C4	34:BA:839:U:C1'	3.00	0.44
85:AA:835:C:N4	85:AA:836:A:C4	2.85	0.44
35:BB:717:A:C2	35:BB:764:C:H1'	2.51	0.44
5:A4:159:LEU:HB2	5:A4:190:PHE:CD2	2.52	0.44
4:A3:45:ALA:HB3	4:A3:46:PHE:CE2	2.53	0.44
85:AA:1762:G:C6	85:AA:1763:G:O6	2.71	0.44
85:AA:1651:C:N1	85:AA:1866:A:C5	2.85	0.44
35:BB:732:G:C2	35:BB:758:A:C6	3.05	0.44
34:BA:1369:C:N4	34:BA:1370:A:N3	2.66	0.44
47:BN:101:ARG:CG	47:BN:101:ARG:HH11	2.30	0.44
85:AA:1941:C:H2'	85:AA:1942:U:C6	2.53	0.44
35:BB:346:U:C4	35:BB:347:G:C5	3.05	0.44
59:BZ:31:PRO:HA	59:BZ:37:ARG:NH2	2.32	0.44
85:AA:295:U:C5'	85:AA:296:A:C8	3.00	0.44
7:A6:142:ILE:HB	7:A6:145:PHE:CE1	2.53	0.44
52:BS:111:ASP:O	52:BS:115:ARG:N	2.49	0.44
31:AX:86:PHE:N	31:AX:86:PHE:CD1	2.84	0.44
5:A4:91:PHE:N	5:A4:91:PHE:CD2	2.84	0.44
85:AA:1348:C:H2'	85:AA:1349:A:C8	2.53	0.44
7:A6:50:LYS:O	7:A6:54:THR:HG23	2.18	0.44
8:A7:197:ASN:HD22	8:A7:217:ASP:HA	1.83	0.44
42:BI:35:PHE:CZ	42:BI:39:ARG:HB3	2.52	0.44
34:BA:10:G:C2	34:BA:11:U:C5	3.06	0.44
34:BA:1201:G:C5	34:BA:1202:G:C8	3.05	0.44
34:BA:1276:G:N1	34:BA:1277:G:C5	2.86	0.44
34:BA:1467:U:N3	34:BA:1468:U:C5	2.86	0.44
34:BA:1049:G:C5	34:BA:1516:G:N1	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1544:G:C5	34:BA:1545:C:C5	3.06	0.44
34:BA:1563:G:C2	34:BA:1565:U:C2	3.05	0.44
34:BA:1597:G:O6	51:BR:25:HIS:CE1	2.71	0.44
34:BA:1618:A:O2'	34:BA:1619:U:H5'	2.16	0.44
34:BA:1708:A:C5	34:BA:1709:A:C1'	3.00	0.44
34:BA:1736:A:C5	34:BA:1737:A:N7	2.86	0.44
34:BA:1737:A:C2	34:BA:1788:U:C4	3.06	0.44
34:BA:187:G:C2	34:BA:300:C:C2	3.05	0.44
34:BA:213:A:C4	34:BA:217:C:C4	3.06	0.44
34:BA:23:A:C6	34:BA:24:C:C4	3.06	0.44
34:BA:295:G:C8	34:BA:296:G:O6	2.71	0.44
34:BA:306:G:C6	34:BA:307:C:C5	3.06	0.44
34:BA:371:U:C4	34:BA:372:U:C4	3.06	0.44
34:BA:400:A:C2	36:BC:27:U:O2	2.71	0.44
34:BA:403:A:C2	34:BA:1531:G:H1'	2.53	0.44
34:BA:412:G:C6	34:BA:418:G:C8	3.06	0.44
34:BA:441:A:H3'	34:BA:442:G:H5"	1.98	0.44
34:BA:446:U:H2'	34:BA:447:U:O4'	2.18	0.44
34:BA:757:G:H5'	34:BA:758:G:C2	2.52	0.44
34:BA:775:C:C6	34:BA:775:C:H3'	2.52	0.44
34:BA:757:G:OP1	34:BA:782:C:C2	2.71	0.44
35:BB:1147:G:H3'	35:BB:1148:U:C6	2.52	0.44
35:BB:1149:A:C2	35:BB:1151:A:N6	2.85	0.44
34:BA:366:G:N2	35:BB:1236:A:C5	2.86	0.44
34:BA:40:A:C6	35:BB:1260:A:C5	3.06	0.44
35:BB:128:C:C4	35:BB:376:A:N1	2.85	0.44
35:BB:1305:A:H1'	35:BB:1356:G:C8	2.53	0.44
35:BB:133:G:N1	35:BB:134:G:C5	2.85	0.44
35:BB:28:G:H5'	35:BB:29:C:H5"	1.98	0.44
35:BB:413:A:C2	35:BB:414:C:N1	2.86	0.44
35:BB:621:C:N4	35:BB:622:G:C6	2.86	0.44
35:BB:694:C:N3	35:BB:695:U:C4	2.86	0.44
35:BB:901:U:C4	35:BB:902:C:C5	3.05	0.44
36:BC:11:G:C2	36:BC:12:A:N9	2.86	0.44
34:BA:14:G:C2	36:BC:153:C:C2	3.06	0.44
37:BD:101:A:C5	37:BD:102:C:C4	3.06	0.44
37:BD:107:G:C2	37:BD:108:G:C4	3.06	0.44
37:BD:32:A:C6	37:BD:41:G:C5	3.05	0.44
37:BD:30:A:N1	37:BD:48:G:C4	2.85	0.44
37:BD:77:A:H2'	37:BD:78:C:O4'	2.18	0.44
38:BE:122:G:C5	38:BE:123:A:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:141:A:C8	38:BE:144:A:C5	3.05	0.44
38:BE:149:A:H2'	38:BE:150:G:H8	1.80	0.44
38:BE:149:A:H2	38:BE:164:C:N3	2.13	0.44
38:BE:171:U:C6	38:BE:171:U:H5"	2.53	0.44
38:BE:37:C:C2	38:BE:176:G:C2	3.05	0.44
38:BE:2:G:C6	38:BE:3:G:C5	3.05	0.44
38:BE:96:G:N1	38:BE:124:G:C6	2.85	0.44
40:BG:9:G:C6	40:BG:10:U:C5	3.06	0.44
40:BG:169:A:O2'	40:BG:173:C:C1'	2.66	0.44
40:BG:44:G:N2	40:BG:45:G:H1'	2.33	0.44
40:BG:4:A:O5'	40:BG:4:A:C8	2.71	0.44
40:BG:77:U:H3'	40:BG:78:C:H6	1.82	0.44
41:BH:130:G:C6	41:BH:131:A:N7	2.86	0.44
41:BH:61:C:H3'	41:BH:62:C:H5'	2.00	0.44
44:BK:171:TRP:CE3	44:BK:181:TYR:CD1	3.06	0.44
44:BK:95:HIS:CD2	44:BK:128:ARG:HG2	2.52	0.44
45:BL:132:MET:HE2	45:BL:132:MET:HB2	1.91	0.44
47:BN:76:LEU:HD21	47:BN:164:GLY:HA2	1.99	0.44
39:BF:23:G:H1'	48:BO:133:THR:N	2.32	0.44
49:BP:66:SER:HB2	49:BP:69:CYS:SG	2.58	0.44
58:BY:48:LYS:HB2	58:BY:51:ARG:HB2	9.13	0.44
4:A3:77:LEU:HA	4:A3:97:ARG:HA	2.00	0.44
85:AA:1481:U:C2	85:AA:1482:C:C5	3.06	0.44
85:AA:2121:G:C3'	85:AA:2122:A:C8	3.00	0.44
85:AA:2132:A:C6	85:AA:2187:G:N1	2.86	0.44
85:AA:499:G:C2	85:AA:501:A:H8	2.36	0.44
34:BA:619:U:C4	34:BA:620:C:C5	3.06	0.44
34:BA:630:U:C2	34:BA:631:G:C4	3.06	0.44
35:BB:810:G:C5	35:BB:811:C:C4	3.05	0.44
35:BB:799:A:C6	35:BB:975:G:N7	2.86	0.44
85:AA:1204:A:C4	85:AA:1205:U:C5	3.05	0.44
15:AG:49:ARG:HH21	15:AG:52:MET:HB3	1.81	0.44
6:A5:107:ALA:HA	6:A5:110:ARG:CZ	2.47	0.44
53:BT:17:CYS:HB2	53:BT:21:ARG:HB2	1.99	0.44
85:AA:2110:U:C4	85:AA:2111:C:C4	3.05	0.44
35:BB:517:G:C2	35:BB:534:C:O2	2.70	0.44
85:AA:1138:U:N3	85:AA:1139:G:C5	2.85	0.44
85:AA:872:U:C2	85:AA:873:U:C5	3.06	0.44
85:AA:876:U:H2'	85:AA:877:G:O4'	2.18	0.44
85:AA:1546:G:N2	85:AA:2042:G:C8	2.86	0.44
85:AA:2006:G:H2'	85:AA:2007:G:H5'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AQ:63:ARG:HA	24:AQ:74:TRP:CE3	2.53	0.44
34:BA:259:C:N3	34:BA:260:A:C6	2.86	0.44
34:BA:283:U:C5	34:BA:284:U:C4	3.05	0.44
34:BA:678:C:H2'	34:BA:679:U:H5'	2.00	0.44
85:AA:1926:A:N6	85:AA:1985:C:H42	2.14	0.44
35:BB:1330:A:C3'	35:BB:1331:U:H5'	2.48	0.44
27:AT:7:LYS:HZ2	85:AA:605:A:C5'	2.31	0.44
85:AA:255:A:N1	85:AA:325:C:C4	2.85	0.44
85:AA:1521:U:C2	85:AA:1522:U:C4	3.06	0.44
85:AA:2237:G:C6	85:AA:2238:C:C5	3.05	0.44
85:AA:2146:G:H2'	85:AA:2171:A:C2	2.53	0.44
85:AA:2149:C:O5'	85:AA:2149:C:C6	2.71	0.44
85:AA:286:C:C5	85:AA:286:C:OP2	2.71	0.44
85:AA:553:G:C6	85:AA:554:A:C5	3.06	0.44
85:AA:570:U:N3	85:AA:571:G:C8	2.86	0.44
85:AA:548:G:C6	85:AA:581:A:C2	3.05	0.44
85:AA:547:A:C6	85:AA:582:A:N3	2.86	0.44
85:AA:2056:C:H2'	85:AA:2057:G:O4'	2.17	0.44
85:AA:716:G:C4	85:AA:717:G:C8	3.06	0.44
85:AA:892:C:C4	85:AA:900:G:C6	3.06	0.44
85:AA:367:A:C4	85:AA:368:C:C6	3.06	0.44
85:AA:401:U:C5	85:AA:402:G:C5	3.06	0.44
85:AA:408:C:C2	85:AA:409:C:C6	3.05	0.44
85:AA:438:G:N3	85:AA:438:G:H2'	2.32	0.44
35:BB:1014:U:O5'	35:BB:1014:U:H6	2.01	0.44
1:A0:101:GLN:O	1:A0:103:HIS:HE1	2.00	0.44
4:A3:139:LYS:HE2	85:AA:65:A:C8	2.53	0.44
85:AA:821:U:O5'	85:AA:821:U:C6	2.70	0.44
85:AA:823:C:C2	85:AA:858:G:N3	2.85	0.44
34:BA:925:G:N1	34:BA:926:A:C4	2.85	0.44
1:A0:165:TRP:O	1:A0:168:MET:SD	2.75	0.44
34:BA:524:G:N2	34:BA:590:U:C2	2.86	0.44
19:AK:33:CYS:N	85:AA:1792:C:OP2	2.51	0.44
34:BA:244:A:C6	34:BA:245:U:C4	3.06	0.44
85:AA:1101:C:C4	85:AA:1102:C:C5	3.06	0.44
85:AA:1844:A:N1	85:AA:1845:G:C5	2.86	0.44
85:AA:1846:G:C6	85:AA:1847:U:O4	2.71	0.44
54:BU:133:ARG:CZ	54:BU:133:ARG:HB3	5.26	0.44
35:BB:1070:G:C5	35:BB:1071:G:N7	2.85	0.44
35:BB:419:G:H1'	35:BB:580:A:N1	2.33	0.44
34:BA:839:U:H6	34:BA:839:U:O5'	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:648:G:O2'	35:BB:649:A:H5'	2.17	0.44
48:BO:201:ARG:HA	48:BO:202:LYS:HB2	1.99	0.44
35:BB:1057:G:H2'	35:BB:1058:U:C6	2.52	0.44
85:AA:1731:G:C4	85:AA:1732:G:N7	2.85	0.44
85:AA:1796:C:C2	85:AA:1797:U:C6	3.05	0.44
85:AA:1800:U:H2'	85:AA:1801:U:O4'	2.17	0.44
85:AA:851:G:O2'	85:AA:853:G:C6	2.70	0.44
35:BB:412:A:C6	35:BB:548:A:C5	3.06	0.44
35:BB:756:C:C5	35:BB:757:C:C6	3.05	0.44
30:AW:29:PRO:HB3	85:AA:1208:C:C4	2.53	0.44
7:A6:139:ILE:HG12	7:A6:140:VAL:H	1.82	0.44
85:AA:231:G:C5	85:AA:232:U:C5	3.06	0.44
3:A2:131:ARG:HA	33:AZ:83:PRO:HG2	1.98	0.44
4:A3:8:PRO:C	4:A3:11:GLY:H	2.21	0.44
13:AE:109:PHE:HA	13:AE:116:TYR:HA	1.99	0.44
50:BQ:131:ARG:NE	50:BQ:173:HIS:O	2.50	0.44
10:A9:123:CYS:HB3	10:A9:132:VAL:HG13	2.00	0.44
34:BA:1109:G:C6	34:BA:1110:A:N7	2.86	0.44
34:BA:1175:G:N2	34:BA:1176:C:C2	2.86	0.44
34:BA:1198:U:OP1	34:BA:1198:U:C4	2.71	0.44
34:BA:1202:G:C4	34:BA:1203:G:C8	3.06	0.44
34:BA:1257:U:C6	34:BA:1515:U:O2	2.70	0.44
34:BA:127:U:C4	34:BA:128:C:N4	2.85	0.44
34:BA:1457:C:H6	34:BA:1457:C:O5'	2.01	0.44
34:BA:1479:G:O2'	34:BA:1480:C:H5'	2.17	0.44
34:BA:1046:G:C2	34:BA:1522:G:C4	3.05	0.44
34:BA:1535:G:C4	34:BA:1572:G:C6	3.06	0.44
34:BA:157:U:H2'	34:BA:158:U:H5'	2.00	0.44
34:BA:1599:A:C6	34:BA:1600:G:H1'	2.52	0.44
34:BA:1621:U:C2	34:BA:1623:U:C4	3.06	0.44
34:BA:164:C:C2'	34:BA:165:C:H3'	2.48	0.44
34:BA:1741:G:C6	34:BA:1742:G:C5	3.06	0.44
34:BA:1800:G:H2'	34:BA:1801:G:C8	2.53	0.44
34:BA:1816:G:C2'	34:BA:1818:A:C8	3.00	0.44
34:BA:1837:U:C2	34:BA:1838:U:C6	3.05	0.44
34:BA:1837:U:N3	34:BA:1838:U:C5	2.85	0.44
34:BA:240:C:C6	34:BA:241:U:C5	3.05	0.44
34:BA:304:G:C2	34:BA:305:C:C6	3.06	0.44
34:BA:325:A:C2'	34:BA:326:A:H5'	2.48	0.44
34:BA:401:A:C5	34:BA:402:G:N7	2.86	0.44
34:BA:470:C:C2	34:BA:471:U:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:477:C:C4	36:BC:12:A:N1	2.86	0.44
34:BA:505:U:H2'	34:BA:506:U:H6	1.82	0.44
34:BA:57:A:N6	34:BA:58:A:C6	2.86	0.44
34:BA:798:G:H3'	34:BA:800:G:C4'	2.48	0.44
34:BA:804:G:C8	34:BA:805:A:C8	3.06	0.44
34:BA:908:G:C6	34:BA:909:G:N7	2.86	0.44
35:BB:1111:C:C2	35:BB:1112:U:C5	3.05	0.44
35:BB:1220:A:C2	35:BB:1221:G:C5	3.06	0.44
35:BB:392:G:C6	35:BB:597:C:N4	2.86	0.44
35:BB:616:U:N3	35:BB:617:C:C5	2.85	0.44
35:BB:876:G:C2	35:BB:959:C:C2	3.05	0.44
36:BC:102:G:C2	36:BC:104:A:C6	3.06	0.44
36:BC:156:A:H3'	36:BC:159:U:C4	2.53	0.44
34:BA:399:G:N1	36:BC:29:C:N3	2.65	0.44
36:BC:6:G:C4	36:BC:7:U:O4	2.71	0.44
37:BD:18:G:N2	37:BD:61:C:H1'	2.32	0.44
38:BE:134:A:H5"	38:BE:136:G:O4'	2.17	0.44
38:BE:139:U:H3'	38:BE:140:G:H2'	2.00	0.44
39:BF:62:U:O2'	39:BF:63:U:H2'	2.17	0.44
39:BF:6:C:O2	39:BF:7:G:C2	2.70	0.44
40:BG:63:U:C6	40:BG:64:C:C5	3.06	0.44
40:BG:94:G:N1	40:BG:95:U:C4	2.86	0.44
41:BH:34:G:N3	41:BH:121:A:C2	2.86	0.44
41:BH:133:U:C6	41:BH:134:U:H1'	2.53	0.44
48:BO:89:PHE:C	48:BO:90:HIS:CG	2.90	0.44
51:BR:26:TYR:CE2	51:BR:121:GLN:HG3	2.53	0.44
53:BT:63:TRP:CE3	53:BT:67:LYS:HE2	2.52	0.44
35:BB:1170:U:OP1	54:BU:88:ARG:NH2	2.50	0.44
85:AA:125:A:H2	85:AA:127:U:OP2	2.00	0.44
85:AA:1282:A:N1	85:AA:1480:C:N3	2.65	0.44
85:AA:1484:G:N1	85:AA:1485:G:C6	2.86	0.44
85:AA:147:G:C6	85:AA:148:G:C5	3.05	0.44
85:AA:156:G:N2	85:AA:157:G:H1'	2.32	0.44
85:AA:445:U:H4'	85:AA:446:C:OP1	2.16	0.44
85:AA:493:A:C4	85:AA:494:G:C8	3.06	0.44
85:AA:63:G:C6	85:AA:64:A:C5	3.05	0.44
85:AA:671:G:C4	85:AA:672:U:C6	3.05	0.44
85:AA:680:U:H4'	85:AA:681:G:H5"	2.00	0.44
85:AA:686:U:C4	85:AA:687:G:C4	3.06	0.44
35:BB:815:G:C2	35:BB:816:U:N1	2.86	0.44
35:BB:805:G:C6	35:BB:834:U:O4	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:846:A:C2	35:BB:847:U:C4'	3.00	0.44
57:BX:48:ALA:C	57:BX:49:TYR:CG	2.91	0.44
85:AA:2233:A:H2'	85:AA:2234:C:H5'	1.99	0.44
35:BB:536:U:O5'	35:BB:536:U:C6	2.70	0.44
85:AA:1130:G:N3	85:AA:1197:U:C2	2.86	0.44
85:AA:945:A:C2	85:AA:1104:G:P	3.11	0.44
85:AA:876:U:O5'	85:AA:876:U:H6	2.00	0.44
85:AA:944:C:C5	85:AA:945:A:N9	2.85	0.44
85:AA:1559:U:H3'	85:AA:1560:A:H5"	1.98	0.44
21:AM:29:PHE:CD1	85:AA:2005:U:H5"	2.52	0.44
34:BA:261:A:H4'	34:BA:262:A:OP1	2.16	0.44
34:BA:282:A:O5'	34:BA:288:U:H5'	2.17	0.44
34:BA:606:G:C8	34:BA:607:C:N4	2.86	0.44
34:BA:1237:U:H2'	34:BA:1238:C:C6	2.52	0.44
35:BB:665:A:C2	35:BB:666:A:H1'	2.52	0.44
85:AA:1913:G:C5	85:AA:1914:U:C5	3.05	0.44
34:BA:1489:U:H5	34:BA:1490:U:C2	2.36	0.44
34:BA:598:G:H4'	34:BA:599:U:O4'	2.17	0.44
85:AA:234:G:C6	85:AA:237:G:C5	3.06	0.44
85:AA:1450:U:C4	85:AA:1451:U:N3	2.86	0.44
85:AA:968:U:C2	85:AA:985:G:C2	3.05	0.44
3:A2:41:ARG:HD3	3:A2:48:ARG:HH12	1.83	0.44
5:A4:183:HIS:HB2	85:AA:716:G:O2'	2.17	0.44
85:AA:396:U:H2'	85:AA:397:G:C8	2.52	0.44
35:BB:1014:U:C6	35:BB:1014:U:O5'	2.71	0.44
85:AA:1233:G:C2	85:AA:1234:G:C5	3.06	0.44
25:AR:6:THR:O	25:AR:7:TYR:CG	2.71	0.44
49:BP:137:VAL:CG2	49:BP:140:HIS:HB2	2.47	0.44
34:BA:1092:U:C2	34:BA:1093:G:C8	3.06	0.44
34:BA:1133:A:H2'	34:BA:1134:A:C8	2.51	0.44
34:BA:1000:G:C6	34:BA:1001:G:C5	3.06	0.44
34:BA:1001:G:N1	34:BA:1002:U:C2	2.86	0.44
85:AA:741:G:C4	85:AA:743:C:N4	2.86	0.44
85:AA:746:G:N2	85:AA:747:U:C2	2.86	0.44
3:A2:16:ASN:C	3:A2:17:LEU:HD22	2.38	0.44
85:AA:1248:U:H2'	85:AA:1249:U:O4'	2.18	0.44
85:AA:1252:A:N1	85:AA:1254:A:N1	2.66	0.44
85:AA:1102:C:H2'	85:AA:1103:A:H8	1.80	0.44
35:BB:475:A:N6	35:BB:504:C:N3	2.65	0.44
20:AL:28:PHE:CZ	85:AA:1825:A:H5"	2.52	0.44
34:BA:968:G:C2	34:BA:990:G:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:116:G:C5	85:AA:117:C:C6	3.06	0.44
23:AP:61:LEU:O	23:AP:64:ILE:HB	2.17	0.44
85:AA:1012:C:H2'	85:AA:1013:C:H6	1.81	0.44
35:BB:1482:A:C6	35:BB:1483:A:C6	3.06	0.44
4:A3:31:TYR:HA	4:A3:32:ARG:HH21	1.83	0.44
85:AA:831:C:C6	85:AA:831:C:C3'	3.00	0.44
85:AA:1590:A:C2	85:AA:1890:C:N3	2.86	0.44
85:AA:1968:A:H2'	85:AA:1969:A:O4'	2.17	0.44
5:A4:58:ARG:HE	5:A4:173:LEU:HD21	1.83	0.44
30:AW:29:PRO:HB3	85:AA:1208:C:C5	2.53	0.44
18:AJ:98:GLN:HG3	18:AJ:99:PHE:CD2	2.53	0.44
85:AA:1903:G:C6	85:AA:1904:C:C2	3.06	0.44
85:AA:1930:U:N3	85:AA:1931:C:C2	2.85	0.44
7:A6:27:MET:O	7:A6:30:CYS:SG	2.74	0.44
47:BN:190:LEU:HA	47:BN:190:LEU:HD12	1.81	0.44
24:AQ:82:TYR:CD1	24:AQ:82:TYR:N	2.86	0.44
6:A5:9:HIS:CE1	6:A5:10:LYS:HD2	2.53	0.44
85:AA:1751:G:H4'	85:AA:1752:C:OP2	2.16	0.44
44:BK:41:ALA:HB1	44:BK:45:GLU:HG2	1.99	0.44
58:BY:79:THR:HG21	85:AA:2163:G:C5'	2.36	0.44
34:BA:1013:A:H4'	34:BA:1014:A:C4	2.53	0.44
34:BA:115:U:N1	34:BA:327:G:C8	2.85	0.44
34:BA:136:A:O5'	34:BA:136:A:C8	2.70	0.44
34:BA:1442:A:C2	34:BA:1443:U:C2	3.06	0.44
34:BA:122:U:N3	34:BA:146:G:N1	2.66	0.44
34:BA:1470:G:N1	34:BA:1472:G:C4	2.85	0.44
34:BA:1484:A:N1	34:BA:1502:G:C4	2.86	0.44
34:BA:1518:A:C8	34:BA:1518:A:C3'	3.00	0.44
34:BA:1531:G:N2	34:BA:1532:G:C4	2.86	0.44
34:BA:1527:G:C6	34:BA:1581:G:O6	2.71	0.44
34:BA:1611:A:C4	34:BA:1612:C:C5	3.05	0.44
34:BA:1644:A:C2	34:BA:1645:C:C6	3.05	0.44
34:BA:1684:A:C4	34:BA:1685:C:C5	3.06	0.44
34:BA:1691:G:C2	34:BA:1694:C:C6	3.06	0.44
34:BA:1743:U:O5'	34:BA:1743:U:H6	2.01	0.44
34:BA:188:C:H3'	34:BA:189:G:N7	2.33	0.44
34:BA:213:A:H2	34:BA:220:U:C2	2.36	0.44
34:BA:316:G:C2	34:BA:318:U:H1'	2.53	0.44
34:BA:157:U:O3'	34:BA:326:A:C2	2.71	0.44
34:BA:374:U:H3'	34:BA:375:C:C5	2.53	0.44
34:BA:64:A:C8	34:BA:380:A:H1'	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:461:A:C8	34:BA:461:A:H3'	2.52	0.44
34:BA:733:G:H3'	34:BA:734:G:C8	2.52	0.44
34:BA:817:U:H2'	34:BA:817:U:O2	2.18	0.44
35:BB:1043:C:OP1	35:BB:1044:U:H5'	2.16	0.44
35:BB:1213:U:N3	35:BB:1214:U:C4	2.86	0.44
35:BB:1346:A:H2'	35:BB:1368:A:N6	2.30	0.44
35:BB:1450:G:C2	35:BB:1451:C:C2	3.06	0.44
35:BB:1:U:C5'	35:BB:2:C:H1'	2.47	0.44
35:BB:20:U:H3'	35:BB:21:C:C6	2.53	0.44
35:BB:374:A:C2	35:BB:375:G:H1'	2.53	0.44
35:BB:382:U:H1'	35:BB:384:A:N1	2.33	0.44
35:BB:417:A:O5'	35:BB:417:A:C8	2.70	0.44
35:BB:425:G:C2	35:BB:446:U:C5	3.05	0.44
35:BB:495:A:C6	35:BB:496:C:C4	3.05	0.44
36:BC:126:G:H2'	36:BC:127:C:O4'	2.18	0.44
36:BC:40:A:H2'	36:BC:41:A:C8	2.53	0.44
36:BC:56:G:C4	36:BC:57:C:C6	3.06	0.44
36:BC:92:C:H2'	36:BC:93:C:O4'	2.18	0.44
37:BD:17:G:C2	37:BD:62:A:C2	3.05	0.44
37:BD:64:A:N3	37:BD:64:A:H2'	2.32	0.44
38:BE:123:A:C2	38:BE:124:G:N9	2.85	0.44
35:BB:4:C:N1	38:BE:13:A:H1'	2.32	0.44
38:BE:141:A:N7	38:BE:144:A:C5	2.86	0.44
38:BE:154:A:C4'	38:BE:157:C:C5	2.99	0.44
38:BE:48:G:N2	38:BE:49:A:C4	2.85	0.44
40:BG:14:G:H3'	40:BG:14:G:C8	2.53	0.44
40:BG:33:G:N1	40:BG:168:A:C2	2.86	0.44
40:BG:175:G:C4	40:BG:176:G:C8	3.05	0.44
40:BG:4:A:C2	40:BG:21:C:C6	3.06	0.44
40:BG:49:A:C8	40:BG:51:U:C2	3.06	0.44
40:BG:87:G:H2'	40:BG:88:G:C8	2.53	0.44
42:BI:16:ARG:O	42:BI:17:HIS:CG	2.71	0.44
4:A3:77:LEU:HD23	4:A3:97:ARG:CA	2.47	0.44
85:AA:31:C:C2	85:AA:32:U:C6	3.06	0.44
85:AA:637:U:C2	85:AA:638:G:C5	3.06	0.44
27:AT:125:ARG:CZ	85:AA:84:C:H5'	2.48	0.44
34:BA:628:U:O2	34:BA:629:G:C8	2.71	0.44
34:BA:664:C:C2	34:BA:665:C:C5	3.05	0.44
35:BB:812:G:C2	35:BB:828:G:C2	3.06	0.44
35:BB:1165:A:C6	35:BB:1167:C:N3	2.85	0.44
85:AA:1140:G:C5	85:AA:1141:U:C4	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:879:G:C4	85:AA:927:A:N1	2.86	0.44
85:AA:1585:A:C8	85:AA:1586:C:C6	3.05	0.44
85:AA:2014:G:N1	85:AA:2030:U:N3	2.65	0.44
31:AX:178:ALA:HB1	85:AA:1877:G:C4'	2.48	0.44
34:BA:593:G:C5	34:BA:594:G:N3	2.86	0.44
34:BA:674:G:H3'	34:BA:675:C:H6	1.79	0.44
22:AO:130:LEU:HD23	22:AO:138:HIS:CD2	2.53	0.44
22:AO:89:TYR:CE1	85:AA:1963:G:OP2	2.71	0.44
35:BB:1288:G:C6	35:BB:1289:G:C4	3.06	0.44
35:BB:22:A:H3'	35:BB:22:A:C8	2.52	0.44
35:BB:1512:C:H6	35:BB:1512:C:H5'	1.82	0.44
85:AA:209:C:C2	85:AA:210:G:H5"	2.52	0.44
35:BB:1525:G:C6	35:BB:1526:C:C4	3.06	0.44
35:BB:1544:A:C6	35:BB:1545:U:C5	3.06	0.44
57:BX:151:SER:HB2	57:BX:152:TYR:CZ	2.53	0.44
85:AA:1517:G:N3	85:AA:1518:A:C8	2.85	0.44
85:AA:1522:U:H2'	85:AA:1523:G:O4'	2.18	0.44
85:AA:1674:G:H2'	85:AA:1676:G:OP2	2.18	0.44
85:AA:1681:G:C5'	85:AA:1699:A:OP1	2.66	0.44
11:AC:141:PRO:HB2	85:AA:1698:A:C6	2.53	0.44
85:AA:1700:C:H2'	85:AA:1701:G:C8	2.53	0.44
85:AA:1526:G:C6	85:AA:2096:G:C6	3.05	0.44
85:AA:2096:G:H2'	85:AA:2097:U:C6	2.52	0.44
23:AP:100:THR:HA	85:AA:1523:G:C4'	2.47	0.44
34:BA:1287:G:C5	34:BA:1436:A:C2	3.06	0.44
85:AA:1220:A:C8	85:AA:1221:G:C8	3.05	0.44
85:AA:559:G:C2	85:AA:560:C:C2	3.05	0.44
85:AA:561:C:C6	85:AA:562:C:C6	3.06	0.44
85:AA:561:C:N4	85:AA:565:G:C8	2.85	0.44
85:AA:567:G:H2'	85:AA:568:C:O4'	2.17	0.44
32:AY:31:ARG:CZ	85:AA:618:A:C8	3.01	0.44
3:A2:42:TRP:CZ2	3:A2:52:ILE:HG22	2.52	0.44
85:AA:713:G:H3'	85:AA:713:G:C4	2.52	0.44
85:AA:793:C:C4	85:AA:794:A:C8	3.06	0.44
85:AA:906:U:H5'	85:AA:907:G:H8	1.81	0.44
34:BA:1342:C:N4	34:BA:1343:A:H62	2.16	0.44
35:BB:1004:A:C2	35:BB:1005:A:C8	3.05	0.44
35:BB:1009:U:H2'	35:BB:1011:C:C5	2.52	0.44
85:AA:68:A:N7	85:AA:69:C:C4	2.85	0.44
34:BA:1399:A:C2	34:BA:1400:A:C4	3.06	0.44
39:BF:32:G:C8	39:BF:52:A:C8	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:52:A:O2'	39:BF:53:G:H3'	2.18	0.44
85:AA:764:U:H2'	85:AA:767:A:C2	2.51	0.44
85:AA:1811:C:C3'	85:AA:1812:C:H4'	2.46	0.44
34:BA:529:A:C6	34:BA:530:A:N7	2.86	0.44
56:BW:82:ARG:HA	56:BW:97:PHE:CD2	2.53	0.44
85:AA:1098:C:C4	85:AA:1099:U:O4	2.70	0.44
86:AB:71:G:H2'	86:AB:72:C:C5	2.52	0.44
35:BB:583:G:C4	35:BB:584:A:C8	3.05	0.44
85:AA:202:U:C6	85:AA:204:U:OP2	2.71	0.44
35:BB:1180:G:H2'	35:BB:1181:A:C8	2.52	0.44
35:BB:432:C:N3	35:BB:439:G:C6	2.85	0.44
11:AC:192:PHE:CD1	25:AR:64:ARG:HB3	2.53	0.44
85:AA:1800:U:C2	85:AA:1801:U:C6	3.06	0.44
85:AA:1144:G:C4	85:AA:1145:U:C6	3.06	0.44
85:AA:1357:U:C3'	85:AA:1357:U:C6	3.01	0.44
85:AA:831:C:H5'	85:AA:853:G:C5'	2.48	0.44
2:A1:211:SER:HB2	2:A1:213:HIS:CD2	2.53	0.44
35:BB:1391:G:N1	35:BB:1392:A:N1	2.66	0.44
35:BB:354:C:H2'	35:BB:355:A:C8	2.53	0.44
8:A7:118:SER:HA	8:A7:160:PHE:CG	2.53	0.44
1:A0:75:LYS:HD2	1:A0:77:GLN:H	1.83	0.44
12:AD:5:VAL:HA	12:AD:6:PRO:HD3	1.76	0.44
53:BT:132:PHE:CD1	53:BT:132:PHE:N	2.85	0.44
27:AT:112:LYS:HZ2	85:AA:529:G:P	2.41	0.44
85:AA:1899:A:H3'	85:AA:1899:A:C8	2.53	0.44
54:BU:157:ILE:HB	54:BU:158:PRO:CD	2.47	0.44
17:AI:101:VAL:O	17:AI:111:ALA:HA	2.18	0.44
5:A4:144:ARG:HG3	5:A4:158:PHE:CE1	2.53	0.44
42:BI:94:LEU:HA	42:BI:94:LEU:HD13	1.78	0.44
34:BA:1046:G:C2	34:BA:1047:U:C4	3.05	0.44
34:BA:121:A:C2	34:BA:123:C:H1'	2.53	0.44
34:BA:1286:C:C4'	34:BA:1292:A:C6	3.01	0.44
34:BA:1323:G:C4	34:BA:1324:G:C8	3.05	0.44
34:BA:1470:G:N2	34:BA:1472:G:C4	2.85	0.44
34:BA:1518:A:N7	34:BA:1519:G:C8	2.85	0.44
34:BA:1539:A:C8	34:BA:1541:G:N2	2.85	0.44
34:BA:1708:A:N1	34:BA:1724:G:C8	2.86	0.44
34:BA:1812:C:C2	34:BA:1835:A:C2	3.05	0.44
34:BA:1829:A:C8	34:BA:1830:A:C5	3.06	0.44
34:BA:221:G:C5	34:BA:222:C:C5	3.05	0.44
34:BA:234:A:C5	34:BA:235:C:N3	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:234:A:N1	34:BA:242:U:C2	2.86	0.44
34:BA:320:G:N1	34:BA:321:G:C4	2.86	0.44
34:BA:333:A:C6	34:BA:334:G:C4	3.05	0.44
34:BA:329:G:H2'	34:BA:381:A:C5	2.52	0.44
34:BA:384:U:O5'	34:BA:384:U:H6	2.00	0.44
34:BA:435:U:N3	34:BA:436:U:C2	2.86	0.44
34:BA:453:A:H2'	34:BA:454:G:C8	2.53	0.44
34:BA:446:U:C2	34:BA:456:G:C2	3.06	0.44
34:BA:496:G:N1	34:BA:497:U:C2	2.85	0.44
34:BA:55:G:N1	34:BA:56:G:C6	2.86	0.44
34:BA:742:C:H2'	34:BA:743:A:C8	2.52	0.44
34:BA:747:G:N1	34:BA:748:C:C2	2.85	0.44
35:BB:102:G:N2	35:BB:121:A:C4	2.86	0.44
35:BB:1096:G:N1	35:BB:1097:U:C4	2.86	0.44
35:BB:1103:A:C2	35:BB:1105:G:C5	3.06	0.44
35:BB:1121:A:C2	45:BL:131:GLY:HA3	2.52	0.44
35:BB:1162:A:N1	35:BB:1201:G:C6	2.86	0.44
35:BB:1232:A:C4	35:BB:1245:A:C2	3.06	0.44
35:BB:126:C:C5	35:BB:126:C:OP2	2.71	0.44
35:BB:1355:C:H2'	35:BB:1357:C:H5'	1.98	0.44
35:BB:1457:A:OP2	35:BB:1460:G:H5'	2.18	0.44
35:BB:1471:A:N7	48:BO:133:THR:HB	2.32	0.44
35:BB:382:U:C2'	35:BB:384:A:C2	3.01	0.44
35:BB:423:G:C5	35:BB:424:U:C6	3.05	0.44
35:BB:490:G:H2'	35:BB:491:A:O4'	2.18	0.44
35:BB:658:G:C8	35:BB:659:C:C5	3.05	0.44
35:BB:8:U:H2'	35:BB:9:G:H8	1.81	0.44
35:BB:93:A:H2'	35:BB:94:A:C1'	2.46	0.44
35:BB:99:G:C5	35:BB:100:A:N7	2.86	0.44
36:BC:108:A:H2	36:BC:111:C:C5	2.35	0.44
36:BC:106:G:N1	36:BC:115:G:C5	2.86	0.44
36:BC:134:G:H2'	36:BC:135:A:O4'	2.18	0.44
36:BC:152:C:C2'	36:BC:153:C:C6	3.00	0.44
36:BC:42:G:N2	36:BC:43:A:H1'	2.33	0.44
37:BD:26:C:H3'	37:BD:26:C:C6	2.51	0.44
37:BD:90:A:C8	37:BD:91:U:H1'	2.53	0.44
37:BD:75:G:C6	37:BD:99:G:N7	2.85	0.44
38:BE:127:G:O6	38:BE:128:G:C6	2.71	0.44
38:BE:95:G:N2	38:BE:126:G:C4	2.86	0.44
40:BG:40:G:N1	40:BG:71:C:C2	2.85	0.44
40:BG:47:G:C2	40:BG:48:U:C2	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:53:C:C4	40:BG:54:G:N7	2.85	0.44
40:BG:95:U:H6	53:BT:62:ARG:NH2	2.15	0.44
41:BH:70:U:C4	41:BH:71:C:C2	3.06	0.44
51:BR:4:TYR:CZ	51:BR:18:LYS:CB	3.01	0.44
85:AA:135:C:C6	85:AA:135:C:C3'	3.00	0.44
85:AA:172:A:H2'	85:AA:173:A:O4'	2.18	0.44
85:AA:2132:A:C4	85:AA:2187:G:N2	2.86	0.44
85:AA:2182:A:H2'	85:AA:2183:U:O4'	2.18	0.44
85:AA:30:G:C2	85:AA:671:G:C5	3.05	0.44
85:AA:370:A:C2	85:AA:371:C:C2	3.05	0.44
85:AA:371:C:C4	85:AA:372:U:C6	3.06	0.44
85:AA:44:C:C5	85:AA:45:U:H5	2.35	0.44
85:AA:596:A:C5	85:AA:597:A:N7	2.86	0.44
34:BA:608:G:C2	34:BA:672:G:C2	3.05	0.44
34:BA:615:A:N6	34:BA:616:G:C6	2.86	0.44
34:BA:630:U:O2	34:BA:652:C:C4	2.70	0.44
34:BA:668:G:C5	34:BA:669:U:C5	3.06	0.44
56:BW:93:THR:HG22	56:BW:95:ILE:HG23	1.99	0.44
85:AA:959:C:N1	85:AA:960:G:C8	2.86	0.44
5:A4:69:PRO:CD	85:AA:998:U:C4	3.00	0.44
5:A4:71:ARG:HG3	85:AA:998:U:O5'	2.18	0.44
85:AA:1115:G:C2	85:AA:1116:G:N9	2.86	0.44
85:AA:1122:U:C6	85:AA:1122:U:O5'	2.71	0.44
85:AA:708:G:C6	85:AA:1215:A:N6	2.86	0.44
35:BB:467:G:C2	35:BB:468:U:C2	3.06	0.44
35:BB:472:C:O2	35:BB:506:G:C2	2.70	0.44
5:A4:26:ALA:O	5:A4:30:PHE:CD1	2.71	0.44
49:BP:87:TYR:CE1	49:BP:93:ARG:HD2	2.52	0.44
85:AA:1560:A:N6	85:AA:1561:A:C2	2.84	0.44
85:AA:1561:A:H5"	85:AA:1562:U:OP2	2.18	0.44
85:AA:1570:A:C4	85:AA:1659:C:H4'	2.52	0.44
85:AA:1878:C:C2	85:AA:1879:U:C6	3.06	0.44
17:AI:44:VAL:HG12	17:AI:45:HIS:N	2.32	0.44
34:BA:675:C:N4	34:BA:676:G:C6	2.86	0.44
85:AA:1976:G:C8	85:AA:1976:G:H5"	2.53	0.44
85:AA:1917:G:C6	85:AA:1918:U:C4	3.05	0.44
85:AA:1288:A:N3	85:AA:1455:C:C1'	2.80	0.44
85:AA:1454:U:O2	85:AA:1455:C:C5	2.71	0.44
85:AA:2228:G:C6	85:AA:2229:G:C6	3.06	0.44
34:BA:1287:G:C2	34:BA:1288:U:C2	3.06	0.44
85:AA:2141:G:O2'	85:AA:2142:A:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2178:A:O5'	85:AA:2178:A:H8	2.01	0.44
85:AA:278:C:H4'	85:AA:303:A:H5'	1.99	0.44
7:A6:170:ARG:O	7:A6:176:ARG:HG3	2.18	0.44
32:AY:34:ALA:HB3	85:AA:546:U:C5	2.53	0.44
32:AY:46:ALA:CB	85:AA:573:U:H4'	2.47	0.44
85:AA:576:U:C2	85:AA:577:U:H5'	2.53	0.44
3:A2:44:LYS:O	85:AA:2082:C:C6	2.71	0.44
85:AA:2090:C:C2	85:AA:2091:C:C5	3.06	0.44
5:A4:183:HIS:CE1	85:AA:786:G:C5	3.06	0.44
85:AA:774:C:N3	85:AA:775:C:C2	2.86	0.44
85:AA:794:A:N1	85:AA:800:A:N3	2.65	0.44
85:AA:801:U:H5	85:AA:802:A:C2	2.36	0.44
34:BA:1332:U:C4	34:BA:1333:G:N7	2.86	0.44
85:AA:438:G:N1	85:AA:439:U:C6	2.86	0.44
85:AA:383:C:H2'	85:AA:384:C:O4'	2.18	0.44
34:BA:205:G:C6	34:BA:252:A:N1	2.86	0.44
85:AA:766:G:OP1	85:AA:767:A:C8	2.70	0.44
34:BA:524:G:N2	34:BA:589:A:H2	2.16	0.44
34:BA:533:U:C5	34:BA:575:U:N3	2.85	0.44
34:BA:226:A:H3'	34:BA:227:C:C5'	2.46	0.44
85:AA:1254:A:C4	85:AA:1255:C:C6	3.06	0.44
35:BB:500:C:H3'	35:BB:501:G:H8	1.83	0.44
35:BB:582:G:C6	35:BB:583:G:N7	2.86	0.44
34:BA:514:U:C6	34:BA:515:U:C5	3.05	0.44
35:BB:1071:G:N1	35:BB:1072:C:C4	2.86	0.44
85:AA:1166:C:H2'	85:AA:1167:G:C8	2.53	0.44
11:AC:192:PHE:CD1	25:AR:64:ARG:HB2	2.52	0.44
49:BP:172:LYS:O	49:BP:176:ALA:N	2.49	0.44
1:A0:145:THR:HA	1:A0:209:LEU:HA	2.00	0.44
35:BB:1382:U:H2'	35:BB:1383:C:O4'	2.18	0.44
85:AA:1356:U:H2'	85:AA:1357:U:O4'	2.16	0.44
85:AA:1590:A:C2	85:AA:1890:C:C2	3.06	0.44
51:BR:36:ILE:C	51:BR:44:ALA:HB1	2.38	0.44
1:A0:201:LYS:HB3	85:AA:1373:U:C5'	2.48	0.44
1:A0:32:VAL:HA	1:A0:98:LEU:HG	1.99	0.44
34:BA:1316:G:O4'	34:BA:1317:U:C2	2.71	0.44
49:BP:163:ARG:HH12	49:BP:167:ALA:HB2	1.81	0.44
35:BB:47:C:N3	35:BB:48:G:C6	2.85	0.44
40:BG:141:A:H2'	40:BG:142:A:O4'	2.18	0.44
35:BB:1531:G:C2	35:BB:1538:G:C4	3.06	0.44
7:A6:94:TYR:CD1	7:A6:97:SER:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:27:TYR:CD1	3:A2:130:MET:SD	3.10	0.44
50:BQ:79:PHE:N	50:BQ:79:PHE:CD2	2.85	0.44
4:A3:213:LEU:HA	4:A3:216:VAL:HG12	1.99	0.44
85:AA:1025:U:H3	85:AA:1045:G:H1	1.64	0.44
34:BA:1769:U:C4	34:BA:1770:U:C4	3.05	0.44
13:AE:98:ARG:C	13:AE:127:CYS:SG	2.95	0.44
51:BR:67:ILE:HG21	51:BR:80:LYS:HD3	1.99	0.44
35:BB:308:C:H2'	35:BB:309:G:C8	2.52	0.44
44:BK:46:PHE:CE1	44:BK:141:LYS:HE2	2.52	0.44
12:AD:17:PHE:CE1	12:AD:22:VAL:HA	2.53	0.44
34:BA:1067:G:C5	34:BA:1068:C:C4	3.06	0.44
34:BA:1071:G:H2'	34:BA:1072:U:O4'	2.18	0.44
34:BA:1112:U:N3	34:BA:1147:C:N3	2.65	0.44
34:BA:113:G:C2	34:BA:329:G:C2	3.06	0.44
34:BA:1223:C:O2	34:BA:1224:A:C5	2.71	0.44
34:BA:1229:G:C6	35:BB:1275:A:C5	3.06	0.44
34:BA:1052:G:C2	34:BA:1230:G:H1'	2.52	0.44
34:BA:1443:U:C2	34:BA:1454:G:C5	3.05	0.44
34:BA:1276:G:C2	34:BA:1465:C:N3	2.86	0.44
34:BA:149:G:C6	34:BA:150:C:N3	2.86	0.44
34:BA:1532:G:N1	34:BA:1575:U:C2	2.86	0.44
34:BA:159:U:C4	34:BA:166:G:H1'	2.53	0.44
34:BA:1603:A:H2'	34:BA:1604:A:C8	2.53	0.44
34:BA:1640:G:C4	34:BA:1641:G:C8	3.06	0.44
34:BA:1636:C:C4	34:BA:1676:A:H1'	2.53	0.44
34:BA:1812:C:C2	34:BA:1835:A:C4	3.06	0.44
34:BA:189:G:C6	34:BA:190:U:C5	3.05	0.44
34:BA:208:A:H4'	34:BA:209:A:N7	2.33	0.44
34:BA:336:A:C5	34:BA:337:C:C5	3.06	0.44
34:BA:430:A:C4	34:BA:431:A:C8	3.06	0.44
34:BA:471:U:C6	34:BA:472:G:C5	3.06	0.44
34:BA:473:A:C2	34:BA:474:A:C4	3.06	0.44
34:BA:495:A:N1	34:BA:496:G:C4	2.86	0.44
34:BA:756:A:C8	34:BA:757:G:O4'	2.71	0.44
34:BA:828:A:C2	34:BA:840:U:N3	2.86	0.44
34:BA:854:A:C4	34:BA:855:C:C6	3.06	0.44
34:BA:986:G:C6	34:BA:987:C:C4	3.05	0.44
35:BB:1050:A:C4	35:BB:1051:U:C6	3.06	0.44
35:BB:1096:G:C2	35:BB:1097:U:C5	3.06	0.44
35:BB:1100:C:O2	35:BB:1141:A:C5	2.71	0.44
35:BB:1155:U:C2'	35:BB:1156:U:O5'	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1162:A:O4'	35:BB:1201:G:C8	2.71	0.44
35:BB:1219:A:C5	35:BB:1220:A:C8	3.05	0.44
35:BB:1224:C:N4	35:BB:1226:G:H5"	2.32	0.44
35:BB:1297:G:O6	35:BB:1308:G:C2	2.70	0.44
35:BB:1307:C:N4	35:BB:1308:G:C6	2.85	0.44
35:BB:1361:A:C2	35:BB:1362:G:C2	3.06	0.44
35:BB:1450:G:H3'	35:BB:1451:C:C5	2.52	0.44
34:BA:1741:G:H1'	35:BB:1:U:O3'	2.18	0.44
35:BB:780:U:C2'	35:BB:1038:G:H1	2.31	0.44
35:BB:780:U:H2'	35:BB:1038:G:N1	2.33	0.44
35:BB:785:G:C4	35:BB:1036:G:C2	3.06	0.44
35:BB:85:A:H61	35:BB:93:A:N6	2.16	0.44
35:BB:93:A:C6	35:BB:94:A:C6	3.06	0.44
36:BC:139:A:H2'	36:BC:140:U:C5	2.53	0.44
36:BC:41:A:C5	36:BC:42:G:C5	3.06	0.44
36:BC:72:A:C6	36:BC:73:U:C4	3.06	0.44
37:BD:25:G:H2'	37:BD:26:C:O4'	2.18	0.44
37:BD:2:G:C5	37:BD:3:G:N7	2.86	0.44
37:BD:54:A:C4	37:BD:55:A:C8	3.05	0.44
37:BD:66:G:C5	37:BD:67:C:C6	3.06	0.44
37:BD:80:G:N1	37:BD:97:U:C4	2.86	0.44
37:BD:79:G:N1	37:BD:98:G:C5	2.86	0.44
38:BE:115:U:N3	38:BE:116:U:C4	2.86	0.44
38:BE:141:A:C8	38:BE:144:A:C4	3.06	0.44
38:BE:47:U:H2'	38:BE:48:G:H8	1.81	0.44
40:BG:112:C:O5'	40:BG:112:C:H6	2.01	0.44
40:BG:169:A:O2'	40:BG:173:C:C2	2.71	0.44
41:BH:106:G:C6	41:BH:107:A:C6	3.06	0.44
41:BH:106:G:N2	41:BH:107:A:C2	2.86	0.44
41:BH:119:U:C5	41:BH:120:C:C5	3.06	0.44
41:BH:3:U:C2	41:BH:4:U:C4	3.06	0.44
41:BH:48:G:C4	41:BH:72:G:C8	3.06	0.44
34:BA:750:C:P	42:BI:111:ARG:HH12	2.41	0.44
42:BI:16:ARG:HD3	42:BI:20:TYR:CZ	2.53	0.44
44:BK:139:ARG:HB2	44:BK:172:GLY:HA3	2.00	0.44
47:BN:52:PHE:CZ	47:BN:153:GLN:HA	2.53	0.44
39:BF:24:G:C4	48:BO:187:HIS:CG	3.06	0.44
51:BR:118:GLN:O	51:BR:147:GLN:HG2	2.17	0.44
52:BS:28:LYS:O	54:BU:145:VAL:HG12	2.18	0.44
85:AA:1228:A:C2	85:AA:1229:G:H1'	2.53	0.44
85:AA:153:C:H2'	85:AA:154:U:H6	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2121:G:H2'	85:AA:2122:A:N7	2.31	0.44
85:AA:464:A:C8	85:AA:464:A:H3'	2.53	0.44
85:AA:629:A:C5	85:AA:630:A:C2	3.06	0.44
85:AA:639:C:N3	85:AA:651:G:C6	2.85	0.44
85:AA:649:C:C4	85:AA:650:G:C5	3.06	0.44
34:BA:625:U:N3	34:BA:657:C:C2	2.86	0.44
35:BB:793:A:C6	57:BX:61:ARG:CZ	35.22	0.44
35:BB:812:G:C5	35:BB:813:C:C6	3.05	0.44
35:BB:967:G:N3	35:BB:968:C:C6	2.86	0.44
35:BB:1188:A:C6	35:BB:1189:C:C2	3.06	0.44
35:BB:469:G:C2	35:BB:470:C:C2	3.05	0.44
85:AA:1140:G:N2	85:AA:1141:U:H1'	2.33	0.44
85:AA:877:G:N1	85:AA:878:U:C2	2.86	0.44
85:AA:1547:G:C6	85:AA:1548:A:C8	3.06	0.44
85:AA:2018:U:C4	85:AA:2019:G:C6	3.06	0.44
85:AA:2026:U:H6	85:AA:2026:U:O5'	2.01	0.44
85:AA:2043:A:C8	85:AA:2044:A:C8	3.06	0.44
85:AA:2044:A:C2	85:AA:2045:U:H1'	2.52	0.44
40:BG:139:U:O4	40:BG:140:G:C5	2.71	0.44
34:BA:191:G:H2'	34:BA:192:G:C8	2.53	0.44
34:BA:259:C:N3	34:BA:260:A:C5	2.86	0.44
85:AA:1986:G:P	85:AA:1989:A:H62	2.41	0.44
35:BB:1330:A:O2'	35:BB:1331:U:H5'	2.18	0.44
85:AA:1916:A:C6	85:AA:1917:G:C5	3.06	0.44
35:BB:136:A:C6	35:BB:366:G:C6	3.05	0.44
35:BB:1522:G:C2	35:BB:1523:U:C5	3.06	0.44
41:BH:11:C:O2	41:BH:13:C:C5	2.70	0.44
85:AA:1448:A:C2	85:AA:1449:C:O2	2.71	0.44
85:AA:1462:A:C2	85:AA:1519:A:H4'	2.53	0.44
85:AA:1679:U:OP2	85:AA:1679:U:C6	2.71	0.44
85:AA:309:G:C5	85:AA:317:A:N6	2.85	0.44
85:AA:2145:G:H1'	85:AA:2174:G:C2	2.53	0.44
85:AA:268:A:H3'	85:AA:268:A:H8	1.80	0.44
85:AA:884:A:C8	85:AA:884:A:O5'	2.71	0.44
7:A6:119:LYS:H	7:A6:123:HIS:HB3	1.83	0.44
85:AA:553:G:C2	85:AA:575:G:C4	3.06	0.44
32:AY:48:THR:HA	85:AA:557:G:H5'	2.00	0.44
85:AA:1541:G:C2	85:AA:1542:A:C4	3.06	0.44
85:AA:1922:A:O2'	85:AA:1923:A:C8	2.71	0.44
85:AA:792:A:N7	85:AA:800:A:C5	2.86	0.44
34:BA:1343:A:N3	40:BG:144:G:C5	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:398:U:H2'	85:AA:400:G:OP2	2.18	0.44
85:AA:421:G:C5	85:AA:422:G:C8	3.06	0.44
34:BA:1093:G:H2'	34:BA:1094:U:O4'	2.18	0.44
85:AA:1037:U:OP2	85:AA:1037:U:H6	2.01	0.44
85:AA:743:C:O2	85:AA:766:G:C2	2.70	0.44
85:AA:759:G:C2	85:AA:763:U:C6	3.06	0.44
85:AA:346:U:C4	85:AA:347:U:C6	3.05	0.44
7:A6:132:HIS:CG	7:A6:163:PHE:CD2	3.05	0.44
34:BA:1428:G:C4	34:BA:1429:A:C8	3.05	0.44
85:AA:1934:A:C2	85:AA:1958:C:OP2	2.70	0.44
34:BA:513:U:O4	34:BA:690:G:C5	2.70	0.44
34:BA:513:U:C2	34:BA:691:A:N7	2.85	0.44
85:AA:1011:G:C2	85:AA:1092:G:C2	3.06	0.44
85:AA:1307:U:C2	85:AA:1350:A:C2	3.06	0.44
35:BB:1179:C:C4	35:BB:1180:G:C5	3.06	0.44
11:AC:209:MET:HG2	11:AC:235:VAL:HG21	2.00	0.44
35:BB:50:A:H2'	35:BB:51:U:C6	2.53	0.44
8:A7:129:ARG:HG3	8:A7:154:TRP:CD1	2.53	0.44
21:AM:1:MET:SD	85:AA:2000:C:C5	3.11	0.44
35:BB:723:A:N1	35:BB:724:G:C4	2.86	0.44
34:BA:1365:U:C6	34:BA:1365:U:OP2	2.71	0.44
85:AA:1014:U:H4'	85:AA:1015:U:C5	2.52	0.44
35:BB:728:A:C2	35:BB:753:A:H5'	2.53	0.44
85:AA:228:C:C5	85:AA:229:U:N3	2.86	0.44
42:BI:120:ILE:HG22	42:BI:125:GLY:HA3	2.00	0.44
44:BK:30:ARG:HH21	44:BK:63:GLU:CD	2.21	0.44
2:A1:123:VAL:HA	2:A1:138:THR:HA	1.99	0.44
34:BA:1031:U:H6	34:BA:1031:U:OP1	2.00	0.44
22:AO:45:MET:HG2	22:AO:127:LEU:HD11	2.00	0.44
34:BA:1011:G:H2'	34:BA:1013:A:N7	2.32	0.43
34:BA:1161:G:C4	34:BA:1162:U:C5	3.05	0.43
34:BA:117:C:H2'	34:BA:118:C:H6	1.82	0.43
34:BA:1301:G:C6	34:BA:1302:C:N4	2.86	0.43
34:BA:1465:C:C2	34:BA:1466:U:C5	3.06	0.43
34:BA:1564:A:H3'	34:BA:1564:A:C8	2.53	0.43
34:BA:1642:A:C5	34:BA:1643:U:C5	3.06	0.43
34:BA:1648:G:OP1	34:BA:1648:G:H4'	2.18	0.43
34:BA:1741:G:H21	35:BB:1:U:H1'	1.82	0.43
34:BA:1781:A:C6	34:BA:1782:C:C5	3.06	0.43
34:BA:20:A:C6	34:BA:21:C:C2	3.05	0.43
34:BA:185:A:C4	34:BA:304:G:N1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:36:A:C8	34:BA:38:G:OP2	2.70	0.43
34:BA:397:A:N1	36:BC:31:A:C4	2.86	0.43
34:BA:401:A:N1	34:BA:402:G:C5	2.86	0.43
34:BA:412:G:N1	34:BA:418:G:C8	2.86	0.43
34:BA:493:G:C6	34:BA:494:A:C5	3.06	0.43
34:BA:52:G:C2	34:BA:53:G:C4	3.06	0.43
34:BA:71:G:H5"	47:BN:109:LYS:HB2	1.99	0.43
34:BA:897:U:C2	47:BN:14:ARG:CZ	3.01	0.43
35:BB:1136:G:H4'	35:BB:1137:G:N3	2.33	0.43
35:BB:119:G:C2	35:BB:120:C:N1	2.86	0.43
34:BA:1689:U:H1'	35:BB:18:A:H5'	2.00	0.43
36:BC:101:U:C4	36:BC:102:G:C6	3.05	0.43
36:BC:39:G:N3	36:BC:104:A:C2	2.86	0.43
36:BC:115:G:N1	36:BC:116:C:C4	2.86	0.43
36:BC:129:C:H6	36:BC:129:C:O5'	2.01	0.43
37:BD:75:G:N3	37:BD:99:G:C2	2.86	0.43
40:BG:169:A:C2	40:BG:170:G:H5'	2.53	0.43
40:BG:175:G:C2	40:BG:176:G:N9	2.86	0.43
40:BG:179:C:H2'	40:BG:180:C:C6	2.50	0.43
40:BG:31:G:H2'	40:BG:31:G:C2	2.53	0.43
40:BG:7:U:C4	40:BG:8:U:C6	3.05	0.43
35:BB:1536:G:H1'	41:BH:27:A:N6	2.33	0.43
44:BK:92:HIS:HB3	44:BK:94:PHE:CZ	2.53	0.43
47:BN:171:ARG:CG	47:BN:172:GLU:H	2.22	0.43
49:BP:34:ASN:HB3	49:BP:35:ARG:HE	1.81	0.43
6:A5:26:LYS:HG3	6:A5:29:LEU:HD22	1.99	0.43
85:AA:1228:A:H2'	85:AA:1229:G:O4'	2.18	0.43
85:AA:125:A:C2	85:AA:127:U:OP2	2.71	0.43
85:AA:696:G:H2'	85:AA:1281:G:H5'	2.00	0.43
4:A3:152:ARG:CG	85:AA:145:C:H5"	2.49	0.43
85:AA:1499:G:N2	85:AA:1503:G:C5	2.86	0.43
85:AA:335:G:C6	85:AA:355:G:C5	3.06	0.43
85:AA:493:A:C2	85:AA:494:G:C1'	3.00	0.43
85:AA:636:G:C6	85:AA:637:U:N3	2.86	0.43
85:AA:63:G:H2'	85:AA:63:G:N3	2.31	0.43
85:AA:92:G:N3	85:AA:92:G:H2'	2.33	0.43
34:BA:651:U:C6	34:BA:651:U:H3'	2.53	0.43
35:BB:797:C:C4	35:BB:798:A:N6	2.86	0.43
35:BB:811:C:H3'	35:BB:811:C:C6	2.52	0.43
35:BB:817:C:N4	35:BB:818:U:N3	2.66	0.43
35:BB:866:A:C2	35:BB:867:C:N1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1204:A:C5	85:AA:1205:U:C5	3.06	0.43
85:AA:1211:C:H3'	85:AA:1211:C:C6	2.53	0.43
85:AA:878:U:H6	85:AA:878:U:O5'	2.01	0.43
13:AE:172:SER:O	85:AA:941:C:H1'	2.17	0.43
34:BA:193:C:H3'	34:BA:194:G:H4'	2.00	0.43
34:BA:602:G:C6	34:BA:1492:G:N3	2.86	0.43
85:AA:1960:C:H42	85:AA:1977:G:H1	1.66	0.43
85:AA:1978:G:H1'	85:AA:1984:A:C5	2.51	0.43
35:BB:1274:G:HO2'	35:BB:1327:U:H5	1.55	0.43
35:BB:1277:A:C5	35:BB:1278:A:C8	3.06	0.43
34:BA:1488:C:C4	34:BA:1489:U:O4	2.71	0.43
23:AP:119:GLY:HA2	23:AP:149:VAL:HB	1.99	0.43
23:AP:151:ARG:HD2	23:AP:203:VAL:HG23	2.00	0.43
35:BB:641:C:C4	35:BB:1399:A:C6	3.05	0.43
85:AA:245:A:C5	85:AA:246:C:C5	3.06	0.43
35:BB:1527:A:C6	35:BB:1541:G:C2	3.06	0.43
85:AA:1288:A:C2	85:AA:1289:U:N3	2.85	0.43
85:AA:1699:A:H2'	85:AA:1700:C:O4'	2.17	0.43
85:AA:1668:G:N1	85:AA:1701:G:N2	2.66	0.43
85:AA:2105:G:N7	85:AA:2106:C:C5	2.86	0.43
85:AA:2106:C:C4	85:AA:2107:C:C2	3.06	0.43
85:AA:2225:G:C2	85:AA:2239:A:C2	3.06	0.43
85:AA:279:C:N3	85:AA:291:G:C2	2.86	0.43
85:AA:290:G:C2	85:AA:291:G:C4	3.06	0.43
32:AY:47:LYS:HB2	85:AA:573:U:H1'	2.00	0.43
85:AA:584:G:C2	85:AA:612:A:C5	3.06	0.43
85:AA:725:G:C5	85:AA:726:U:C6	3.05	0.43
85:AA:725:G:H2'	85:AA:726:U:H5'	2.00	0.43
85:AA:789:A:H2'	85:AA:802:A:C6	2.53	0.43
85:AA:792:A:C2	85:AA:793:C:N4	2.86	0.43
85:AA:393:C:H2'	85:AA:393:C:O2	2.18	0.43
85:AA:397:G:C2	85:AA:404:A:N1	2.86	0.43
85:AA:377:U:O2	85:AA:422:G:C2	2.72	0.43
34:BA:205:G:H2'	34:BA:249:A:N1	2.33	0.43
85:AA:1263:G:H3'	85:AA:1264:U:C6	2.53	0.43
85:AA:817:G:C8	85:AA:819:G:OP2	2.71	0.43
30:AW:15:THR:HA	30:AW:18:MET:SD	2.58	0.43
34:BA:226:A:H5'	34:BA:227:C:C5'	2.47	0.43
34:BA:1430:C:N3	34:BA:1431:G:H1'	2.32	0.43
85:AA:1003:G:H2'	85:AA:1004:G:C8	2.53	0.43
85:AA:1825:A:C6	85:AA:1850:G:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BF:1:C:H3'	39:BF:2:G:H5'	2.00	0.43
35:BB:1384:A:C2	35:BB:1385:C:C2	3.06	0.43
34:BA:1152:A:C8	44:BK:22:PHE:CE2	3.05	0.43
34:BA:981:A:C8	34:BA:984:U:H1'	2.52	0.43
35:BB:14:C:C5	35:BB:15:C:C4	3.06	0.43
35:BB:430:A:C6	35:BB:431:U:C2	3.06	0.43
35:BB:436:G:C6	35:BB:438:G:N9	2.87	0.43
35:BB:634:A:C2	35:BB:648:G:C2	3.06	0.43
6:A5:186:ALA:HA	6:A5:203:LEU:N	2.32	0.43
34:BA:144:C:H4'	34:BA:145:U:C6	2.53	0.43
35:BB:863:U:H3'	35:BB:864:U:C6	2.53	0.43
9:A8:22:CYS:HA	9:A8:38:ASN:HB3	1.99	0.43
17:AI:40:PHE:O	17:AI:43:LEU:HB2	2.17	0.43
23:AP:80:LEU:HD23	23:AP:80:LEU:C	2.38	0.43
21:AM:68:ILE:HA	21:AM:71:VAL:HG22	2.00	0.43
6:A5:113:TYR:CE2	6:A5:117:TYR:CE2	3.06	0.43
7:A6:65:HIS:CD2	7:A6:68:ARG:HE	2.35	0.43
34:BA:927:A:C6	34:BA:997:U:C4	3.06	0.43
85:AA:413:G:C2	85:AA:414:C:C6	3.05	0.43
34:BA:1078:U:O5'	34:BA:1078:U:C6	2.71	0.43
35:BB:357:C:H5"	35:BB:358:U:C5	2.52	0.43
35:BB:738:G:C6	35:BB:741:A:C6	3.06	0.43
30:AW:36:VAL:HA	30:AW:80:PHE:HA	2.00	0.43
35:BB:1184:C:P	54:BU:92:ARG:HH21	2.41	0.43
2:A1:208:LYS:HA	2:A1:214:GLU:HA	1.98	0.43
11:AC:64:LYS:HB2	11:AC:66:SER:O	2.18	0.43
34:BA:1755:U:H3	34:BA:1768:G:H1	1.64	0.43
35:BB:143:G:C2	35:BB:318:C:C2	3.06	0.43
54:BU:157:ILE:HB	54:BU:158:PRO:HD2	2.00	0.43
5:A4:136:TYR:C	5:A4:138:CYS:H	2.21	0.43
48:BO:215:VAL:HG23	48:BO:219:PHE:CE2	2.52	0.43
35:BB:269:A:H2'	35:BB:270:G:C8	2.53	0.43
15:AG:18:TYR:CE1	18:AJ:56:HIS:CE1	3.06	0.43
53:BT:184:GLU:HA	53:BT:187:ARG:HB2	1.99	0.43
34:BA:1168:C:C2	34:BA:1170:A:C4	3.06	0.43
34:BA:1193:A:C6	34:BA:1194:G:C5	3.05	0.43
34:BA:1222:C:C6	34:BA:1223:C:C5	3.06	0.43
34:BA:1614:G:H1'	34:BA:1678:U:O2	2.17	0.43
34:BA:1617:U:OP2	34:BA:1617:U:C5	2.71	0.43
34:BA:173:U:C4	34:BA:174:A:N7	2.86	0.43
34:BA:1781:A:C2	34:BA:1782:C:C2	3.05	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1788:U:C6	34:BA:1789:A:N7	2.85	0.43
34:BA:180:G:C2	34:BA:181:G:C4	3.07	0.43
34:BA:339:G:C6	34:BA:351:A:C6	3.05	0.43
34:BA:354:G:C6	34:BA:355:U:C4	3.06	0.43
34:BA:269:G:C6	34:BA:438:A:O4'	2.71	0.43
34:BA:446:U:N3	34:BA:447:U:C4	2.86	0.43
34:BA:702:G:C4	34:BA:703:U:C5	3.06	0.43
34:BA:750:C:H2'	34:BA:751:A:H8	1.83	0.43
34:BA:766:A:N1	34:BA:769:U:OP2	2.51	0.43
34:BA:825:G:C2	34:BA:826:C:C2	3.06	0.43
35:BB:1123:A:H4'	35:BB:1124:G:O5'	2.17	0.43
35:BB:132:G:P	53:BT:136:ARG:HH21	2.41	0.43
34:BA:1420:A:N3	35:BB:1345:A:C8	2.86	0.43
35:BB:58:G:N1	35:BB:59:U:C2	2.86	0.43
35:BB:615:A:C8	35:BB:616:U:C5	3.06	0.43
35:BB:62:C:O2'	35:BB:63:A:H5'	2.18	0.43
35:BB:656:A:N6	35:BB:1449:G:C6	2.87	0.43
35:BB:95:A:H2'	35:BB:96:A:H8	1.80	0.43
36:BC:18:G:N3	36:BC:19:A:C4	2.86	0.43
37:BD:108:G:C8	37:BD:108:G:O5'	2.71	0.43
37:BD:18:G:C6	37:BD:19:C:C4	3.05	0.43
37:BD:58:G:H2'	37:BD:59:G:C8	2.53	0.43
38:BE:147:G:C6	38:BE:166:G:C6	3.06	0.43
38:BE:20:C:N3	38:BE:199:A:C2	2.86	0.43
38:BE:39:U:H2'	38:BE:40:C:O4'	2.18	0.43
38:BE:74:U:C6	38:BE:75:C:C5	3.06	0.43
35:BB:1464:G:C6	40:BG:24:A:OP1	2.71	0.43
40:BG:48:U:N3	40:BG:49:A:C6	2.86	0.43
40:BG:92:U:C2	40:BG:108:G:N2	2.86	0.43
41:BH:47:G:C2	41:BH:106:G:C2	3.06	0.43
41:BH:38:G:C4	41:BH:39:G:C8	3.06	0.43
41:BH:39:G:C2	41:BH:40:C:N1	2.87	0.43
34:BA:742:C:C5	47:BN:10:HIS:CD2	3.06	0.43
49:BP:19:PRO:HG2	49:BP:20:ARG:NH2	2.34	0.43
35:BB:981:A:P	57:BX:51:ARG:HH12	35.39	0.43
85:AA:1489:G:O5'	85:AA:1489:G:C8	2.71	0.43
85:AA:1504:A:C6	85:AA:1505:G:C5	3.06	0.43
85:AA:1508:A:C6	85:AA:1509:A:N1	2.86	0.43
85:AA:2180:C:H2'	85:AA:2181:G:O4'	2.17	0.43
85:AA:2191:C:C2	85:AA:2192:A:C8	3.06	0.43
85:AA:372:U:C6	85:AA:372:U:C3'	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:50:C:C2	85:AA:495:G:N1	2.86	0.43
85:AA:496:C:C2	85:AA:497:G:C8	3.06	0.43
85:AA:627:A:H3'	85:AA:628:C:C6	2.53	0.43
85:AA:678:A:C2	85:AA:679:A:H1'	2.53	0.43
85:AA:698:G:C8	85:AA:1276:A:C6	3.06	0.43
35:BB:843:G:C2	35:BB:844:G:C8	3.07	0.43
35:BB:868:C:H6	35:BB:868:C:O5'	2.02	0.43
85:AA:1115:G:C5	85:AA:1214:C:N4	2.85	0.43
35:BB:1191:G:C6	35:BB:1199:A:N1	2.86	0.43
85:AA:1139:G:C3'	85:AA:1140:G:C5'	2.96	0.43
85:AA:1140:G:C5	85:AA:1141:U:C5	3.06	0.43
85:AA:1105:G:N7	85:AA:1107:A:H4'	2.33	0.43
85:AA:931:G:C6	85:AA:932:A:N6	2.86	0.43
85:AA:1579:A:C8	85:AA:1896:G:O6	2.71	0.43
85:AA:1585:A:C8	85:AA:1585:A:H3'	2.53	0.43
24:AQ:71:THR:HG22	85:AA:1570:A:C5'	2.47	0.43
34:BA:265:A:N1	34:BA:278:U:H1'	2.33	0.43
35:BB:1277:A:C6	35:BB:1278:A:N7	2.85	0.43
85:AA:1465:C:O5'	85:AA:1465:C:C6	2.71	0.43
85:AA:1518:A:N1	85:AA:1519:A:C6	2.86	0.43
85:AA:1695:G:H2'	85:AA:1696:U:H6	1.82	0.43
85:AA:2107:C:OP2	85:AA:2107:C:C5	2.71	0.43
85:AA:559:G:C6	85:AA:569:A:N3	2.86	0.43
85:AA:576:U:H2'	85:AA:577:U:H5'	2.00	0.43
3:A2:42:TRP:CZ2	3:A2:51:ARG:CZ	3.01	0.43
85:AA:1532:G:H2'	85:AA:1533:C:H6	1.82	0.43
85:AA:2082:C:C5'	85:AA:2083:G:O4'	2.66	0.43
85:AA:720:A:N3	85:AA:781:G:C2	2.86	0.43
34:BA:1335:A:H3'	34:BA:1336:U:C5	2.52	0.43
34:BA:1335:A:C2	34:BA:1336:U:N3	2.87	0.43
85:AA:391:G:N1	85:AA:410:A:C6	2.86	0.43
85:AA:382:G:C5	85:AA:415:G:C2	3.07	0.43
4:A3:171:LYS:HB2	85:AA:74:U:OP2	2.18	0.43
35:BB:1419:G:C6	35:BB:1430:G:C6	3.06	0.43
34:BA:1377:A:C4	34:BA:1399:A:H1'	2.53	0.43
85:AA:813:G:C4	85:AA:865:G:N2	2.86	0.43
34:BA:1087:A:N6	34:BA:1213:A:H61	2.16	0.43
85:AA:1855:U:H2'	85:AA:1856:G:C8	2.53	0.43
12:AD:33:TRP:CG	85:AA:1957:C:N1	2.86	0.43
34:BA:687:G:C6	34:BA:688:G:C4	3.05	0.43
35:BB:610:U:H2'	35:BB:611:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A4:143:ARG:HA	5:A4:156:LYS:O	2.17	0.43
85:AA:1593:C:C2	85:AA:1887:G:N2	2.86	0.43
35:BB:398:A:N1	35:BB:590:G:C6	2.86	0.43
35:BB:462:G:H2'	35:BB:463:C:C6	2.53	0.43
35:BB:47:C:H3'	35:BB:48:G:C8	2.53	0.43
85:AA:1022:G:H2'	85:AA:1023:U:C6	2.53	0.43
15:AG:136:PRO:O	15:AG:139:TRP:HB2	2.18	0.43
2:A1:33:HIS:CD2	2:A1:140:ASP:O	2.71	0.43
2:A1:88:GLU:HG3	2:A1:95:ARG:HG2	1.98	0.43
2:A1:9:LEU:HG	2:A1:11:ALA:H	1.82	0.43
58:BY:61:ARG:HA	58:BY:66:THR:OG1	2.17	0.43
6:A5:80:ASP:O	6:A5:103:VAL:N	2.51	0.43
10:A9:132:VAL:CG2	85:AA:1630:U:H4'	2.48	0.43
4:A3:36:GLU:HG2	4:A3:37:VAL:N	2.33	0.43
27:AT:115:LYS:CD	27:AT:118:ARG:HH12	2.31	0.43
54:BU:40:VAL:HG12	54:BU:98:LYS:CG	2.48	0.43
29:AV:4:LYS:HD2	29:AV:5:ARG:CZ	2.48	0.43
25:AR:10:GLU:HG3	25:AR:10:GLU:O	2.18	0.43
11:AC:145:THR:CG2	11:AC:175:LEU:HD13	2.48	0.43
34:BA:1158:A:C6	34:BA:1159:A:C4	3.06	0.43
34:BA:1158:A:C5	34:BA:1159:A:C5	3.06	0.43
34:BA:116:G:H4'	34:BA:117:C:O5'	2.18	0.43
34:BA:1229:G:C6	35:BB:1275:A:C6	3.05	0.43
34:BA:1258:G:C8	34:BA:1259:C:C5	3.06	0.43
34:BA:1312:A:C8	34:BA:1312:A:O5'	2.71	0.43
34:BA:1319:A:N1	37:BD:87:G:C8	2.86	0.43
34:BA:1470:G:C6	34:BA:1472:G:C5	3.06	0.43
34:BA:1474:G:O6	34:BA:1475:G:C5	2.71	0.43
34:BA:1532:G:C4	34:BA:1533:G:C8	3.07	0.43
34:BA:1539:A:N1	34:BA:1568:A:N1	2.67	0.43
34:BA:1554:C:N4	34:BA:1555:G:C6	2.86	0.43
34:BA:159:U:C6	34:BA:159:U:H3'	2.54	0.43
34:BA:168:U:C2	34:BA:321:G:N2	2.86	0.43
34:BA:1708:A:N3	34:BA:1708:A:C2'	2.79	0.43
34:BA:1744:C:C2	34:BA:1781:A:N1	2.86	0.43
34:BA:1781:A:C2	34:BA:1782:C:C6	3.06	0.43
34:BA:1796:A:P	34:BA:1796:A:H2'	2.58	0.43
34:BA:1801:G:C2	34:BA:1802:C:C6	3.06	0.43
34:BA:1815:G:N1	34:BA:1832:A:C5	2.85	0.43
34:BA:233:U:C5	34:BA:234:A:N7	2.86	0.43
34:BA:31:A:C5	34:BA:32:A:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:369:A:C2	34:BA:370:U:C6	3.06	0.43
34:BA:401:A:H5'	59:BZ:5:LYS:NZ	2.32	0.43
34:BA:412:G:C2'	34:BA:413:A:C8	3.01	0.43
34:BA:459:U:O4	34:BA:460:G:C6	2.71	0.43
34:BA:461:A:C3'	34:BA:461:A:C8	3.01	0.43
34:BA:490:A:C6	34:BA:491:U:N3	2.85	0.43
34:BA:65:A:H4'	50:BQ:194:LYS:HA	2.00	0.43
34:BA:69:C:N3	34:BA:71:G:C6	2.86	0.43
34:BA:762:A:C6	34:BA:771:A:OP2	2.71	0.43
34:BA:798:G:C2'	34:BA:800:G:O4'	2.66	0.43
34:BA:799:A:C2	34:BA:858:C:OP1	2.71	0.43
34:BA:821:G:N2	42:BI:73:ARG:HH22	2.16	0.43
34:BA:824:C:C2	34:BA:825:G:C8	3.06	0.43
34:BA:949:C:N3	34:BA:950:C:C5	2.86	0.43
34:BA:994:G:C8	34:BA:996:U:N1	2.86	0.43
35:BB:1030:U:H2'	35:BB:1031:G:C4	2.54	0.43
35:BB:107:A:C5	35:BB:108:G:C5	3.06	0.43
35:BB:1106:G:C4	35:BB:1107:C:C5	3.07	0.43
35:BB:1123:A:C4	35:BB:1127:A:N7	2.86	0.43
35:BB:1114:A:C6	35:BB:1137:G:C6	3.07	0.43
35:BB:1146:C:H3'	35:BB:1147:G:C8	2.53	0.43
35:BB:1242:C:C2	35:BB:1243:A:C8	3.06	0.43
34:BA:1056:C:C5'	35:BB:1257:A:H62	2.31	0.43
34:BA:1681:U:C5	35:BB:24:C:O2	2.71	0.43
35:BB:692:G:C5	35:BB:693:U:O4	2.71	0.43
36:BC:117:A:N1	36:BC:147:G:C5	2.86	0.43
34:BA:9:A:C2	36:BC:162:C:C2	3.06	0.43
36:BC:166:G:C2'	36:BC:167:U:C6	3.00	0.43
37:BD:13:A:C6	37:BD:110:G:N1	2.86	0.43
37:BD:46:G:C4	37:BD:47:U:C5	3.06	0.43
37:BD:62:A:C2	37:BD:64:A:C4	3.06	0.43
38:BE:112:G:H3'	38:BE:112:G:C8	2.53	0.43
38:BE:114:G:C5	38:BE:115:U:C5	3.06	0.43
38:BE:74:U:C4	38:BE:75:C:N1	2.87	0.43
40:BG:95:U:H2'	40:BG:96:C:C6	2.53	0.43
41:BH:35:G:O5'	41:BH:35:G:C8	2.71	0.43
41:BH:66:G:C6	41:BH:67:G:C5	3.06	0.43
34:BA:845:U:O2	42:BI:73:ARG:NH1	2.51	0.43
44:BK:47:PRO:O	44:BK:171:TRP:CG	2.71	0.43
44:BK:49:CYS:SG	44:BK:173:PHE:CD1	3.11	0.43
85:AA:160:A:C5	85:AA:161:A:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2121:G:H8	85:AA:2121:G:O5'	2.00	0.43
85:AA:370:A:C2	85:AA:371:C:N1	2.86	0.43
85:AA:428:G:C8	85:AA:428:G:C5'	3.01	0.43
85:AA:508:C:C2	85:AA:509:C:C5	3.07	0.43
85:AA:532:G:C5	85:AA:533:C:H5	2.37	0.43
85:AA:506:G:N3	85:AA:534:A:C2	2.86	0.43
85:AA:635:G:H2'	85:AA:635:G:N3	2.33	0.43
23:AP:189:VAL:HG12	23:AP:190:ALA:N	2.33	0.43
32:AY:60:GLN:HA	32:AY:62:PRO:HD3	2.00	0.43
34:BA:669:U:N3	34:BA:670:U:C6	2.87	0.43
30:AW:31:SER:HB3	30:AW:50:HIS:CD2	2.54	0.43
5:A4:104:ILE:HG12	5:A4:123:SER:HA	2.00	0.43
85:AA:938:A:OP2	85:AA:939:A:H8	2.01	0.43
20:AL:90:HIS:CE1	20:AL:91:VAL:HG12	2.53	0.43
21:AM:142:ARG:CD	85:AA:1550:C:C5	3.01	0.43
21:AM:25:ARG:HG3	21:AM:30:ALA:HB2	1.99	0.43
34:BA:1208:U:C4'	34:BA:1209:A:C8	3.01	0.43
34:BA:682:A:C2	34:BA:1492:G:H4'	2.53	0.43
34:BA:603:U:H5"	34:BA:604:G:C5'	2.48	0.43
34:BA:605:G:C5	34:BA:606:G:C8	3.06	0.43
34:BA:679:U:H3'	34:BA:680:C:C5	2.52	0.43
85:AA:1928:A:C5	85:AA:1978:G:C6	3.06	0.43
85:AA:1928:A:C6	85:AA:1978:G:C6	3.06	0.43
34:BA:972:C:H4'	34:BA:973:U:OP2	2.19	0.43
35:BB:1272:G:C4	35:BB:1273:G:C8	3.06	0.43
35:BB:1288:G:C2	35:BB:1319:U:C4	3.06	0.43
34:BA:725:C:H4'	35:BB:1329:G:H2'	1.99	0.43
35:BB:666:A:C4	35:BB:667:G:C4	3.07	0.43
35:BB:673:C:H2'	35:BB:674:C:C6	2.53	0.43
27:AT:69:THR:CG2	85:AA:600:C:C2	3.01	0.43
35:BB:1512:C:N4	35:BB:1513:U:C4	2.86	0.43
35:BB:363:A:C5'	53:BT:143:HIS:CE1	3.01	0.43
35:BB:1524:G:C2	35:BB:1525:G:C8	3.06	0.43
41:BH:23:G:C4	41:BH:24:U:N3	2.87	0.43
85:AA:1674:G:N1	85:AA:1678:U:N3	2.67	0.43
85:AA:2222:G:C4	85:AA:2223:C:C6	3.06	0.43
85:AA:2145:G:C6	85:AA:2146:G:C5	3.06	0.43
85:AA:270:A:N3	85:AA:271:A:C8	2.86	0.43
85:AA:965:G:H2'	85:AA:966:G:C8	2.53	0.43
85:AA:562:C:H1'	85:AA:565:G:N7	2.34	0.43
85:AA:794:A:N6	85:AA:800:A:C2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:886:A:C2	85:AA:887:A:C4'	3.02	0.43
85:AA:887:A:C2	85:AA:889:G:C4	3.07	0.43
85:AA:895:C:H2'	85:AA:896:C:O4'	2.18	0.43
40:BG:146:C:C6	40:BG:146:C:O5'	2.72	0.43
35:BB:997:G:C6	35:BB:998:G:N7	2.86	0.43
34:BA:925:G:C5	34:BA:926:A:N7	2.87	0.43
35:BB:1401:G:C5	35:BB:1402:U:C2	3.06	0.43
85:AA:741:G:C6	85:AA:764:U:O4	2.71	0.43
85:AA:1051:A:C8	85:AA:1051:A:OP2	2.72	0.43
34:BA:534:C:C5	34:BA:535:G:N7	2.86	0.43
56:BW:79:VAL:HG11	56:BW:128:TRP:CZ2	2.53	0.43
34:BA:1428:G:C2	34:BA:1429:A:C4	3.06	0.43
34:BA:1428:G:C2	34:BA:1429:A:C8	3.06	0.43
85:AA:1247:A:N6	85:AA:1248:U:C4	2.86	0.43
85:AA:1255:C:C4	85:AA:1256:C:C6	3.06	0.43
34:BA:516:U:O2'	34:BA:517:A:H5'	2.18	0.43
34:BA:690:G:O4'	34:BA:691:A:C2	2.71	0.43
6:A5:130:THR:HG21	6:A5:158:LEU:HD22	1.99	0.43
35:BB:1476:C:N3	35:BB:1489:A:C5	2.87	0.43
10:A9:135:ALA:O	10:A9:141:LYS:HA	2.19	0.43
85:AA:1799:C:H42	85:AA:1808:G:P	2.41	0.43
17:AI:25:ARG:HG3	17:AI:43:LEU:HB3	2.00	0.43
35:BB:891:U:C2	35:BB:893:U:C4	3.05	0.43
35:BB:882:U:C5	35:BB:896:C:C5	3.07	0.43
34:BA:976:C:H3'	34:BA:977:G:C8	2.53	0.43
85:AA:1554:C:H2'	85:AA:1555:G:H8	1.83	0.43
18:AJ:113:HIS:CG	18:AJ:114:GLU:N	2.87	0.43
52:BS:82:TYR:O	52:BS:90:THR:HG22	2.18	0.43
8:A7:146:LEU:N	8:A7:146:LEU:HD12	2.33	0.43
45:BL:147:HIS:CG	45:BL:147:HIS:O	2.71	0.43
2:A1:226:GLY:HA3	2:A1:231:SER:H	1.83	0.43
4:A3:7:TYR:H	4:A3:127:VAL:HG12	1.83	0.43
8:A7:87:TRP:CD2	8:A7:111:ASP:HB3	2.53	0.43
23:AP:121:ILE:O	23:AP:146:ILE:HA	2.19	0.43
34:BA:1009:G:H2'	34:BA:1010:C:C6	2.53	0.43
34:BA:124:G:H2'	34:BA:125:G:C8	2.53	0.43
34:BA:1297:G:N1	34:BA:1451:A:H1'	2.33	0.43
34:BA:1309:U:C4	34:BA:1309:U:OP1	2.72	0.43
34:BA:1469:G:C6	34:BA:1513:G:N1	2.87	0.43
34:BA:1535:G:H1'	34:BA:1572:G:C2	2.54	0.43
34:BA:1546:C:C2	34:BA:1547:G:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1653:G:N1	34:BA:1654:G:C4	2.87	0.43
34:BA:172:A:C6	34:BA:316:G:C4	3.07	0.43
34:BA:1790:U:C5	34:BA:1790:U:OP2	2.71	0.43
34:BA:1800:G:H2'	34:BA:1801:G:H8	1.82	0.43
34:BA:223:U:N3	34:BA:224:G:C8	2.87	0.43
34:BA:234:A:C5	34:BA:235:C:C4	3.06	0.43
34:BA:369:A:C6	35:BB:1242:C:O2	2.71	0.43
34:BA:371:U:H1'	35:BB:489:A:H2	1.83	0.43
34:BA:383:G:N2	34:BA:384:U:C5	2.86	0.43
34:BA:389:U:N3	34:BA:390:A:C8	2.87	0.43
34:BA:412:G:C2	34:BA:413:A:C4	3.06	0.43
34:BA:417:A:C8	34:BA:419:U:N3	2.87	0.43
34:BA:457:A:C5	34:BA:458:G:N7	2.86	0.43
34:BA:496:G:C6	34:BA:497:U:N3	2.87	0.43
34:BA:728:A:C6	34:BA:729:C:C4	3.07	0.43
34:BA:738:C:H2'	34:BA:739:A:H8	1.83	0.43
34:BA:756:A:N1	34:BA:757:G:C2	2.87	0.43
34:BA:824:C:H5"	42:BI:142:ASN:N	2.33	0.43
34:BA:825:G:N1	34:BA:826:C:C4	2.87	0.43
34:BA:827:A:C6	34:BA:841:G:C6	3.06	0.43
34:BA:851:C:C2	34:BA:852:C:C5	3.06	0.43
34:BA:891:C:N3	34:BA:892:C:C4	2.86	0.43
34:BA:982:A:H3'	34:BA:1020:A:H2	1.83	0.43
35:BB:113:C:H5"	35:BB:113:C:H6	1.83	0.43
35:BB:118:A:N6	35:BB:119:G:C4	2.86	0.43
35:BB:1215:U:C2	35:BB:1216:G:N7	2.86	0.43
35:BB:1291:G:C2	35:BB:1292:G:C1'	3.01	0.43
35:BB:1299:G:C2	35:BB:1302:C:O2	2.71	0.43
35:BB:1301:U:C4	35:BB:1302:C:C2	3.07	0.43
35:BB:130:G:H2'	35:BB:131:A:C8	2.54	0.43
35:BB:1354:C:H5'	35:BB:1354:C:H6	1.82	0.43
35:BB:130:G:C5	35:BB:374:A:N1	2.86	0.43
35:BB:413:A:C4	35:BB:414:C:C6	3.06	0.43
35:BB:593:A:C5	35:BB:594:U:C6	3.05	0.43
35:BB:593:A:C4	35:BB:594:U:C6	3.07	0.43
35:BB:650:A:C2	35:BB:651:G:C8	3.06	0.43
35:BB:81:A:C6	35:BB:82:G:C5	3.06	0.43
35:BB:991:C:C5	35:BB:992:C:N4	2.78	0.43
36:BC:1:A:C2	36:BC:2:A:C4	3.07	0.43
34:BA:18:G:O6	36:BC:37:U:C6	2.71	0.43
36:BC:41:A:H61	36:BC:102:G:C2'	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:46:G:C6	37:BD:47:U:O4	2.71	0.43
34:BA:1269:C:O3'	37:BD:83:A:C2	2.71	0.43
37:BD:87:G:N2	37:BD:91:U:C2	2.86	0.43
38:BE:122:G:C6	38:BE:123:A:C6	3.06	0.43
38:BE:145:A:C6	38:BE:146:U:C5	3.07	0.43
38:BE:152:U:C5	38:BE:154:A:C2	3.06	0.43
38:BE:89:G:H1'	38:BE:134:A:N6	2.33	0.43
39:BF:19:A:N6	39:BF:57:C:H42	2.15	0.43
39:BF:60:C:H2'	39:BF:62:U:N3	2.34	0.43
40:BG:132:U:C3'	40:BG:132:U:C6	3.01	0.43
40:BG:134:U:H6	40:BG:134:U:O5'	2.02	0.43
40:BG:14:G:H2'	40:BG:15:G:H8	1.83	0.43
40:BG:44:G:C4	40:BG:67:A:N1	2.87	0.43
40:BG:55:A:C6	40:BG:56:G:C5	3.07	0.43
40:BG:58:G:C5	40:BG:59:G:C8	3.07	0.43
40:BG:67:A:H2'	40:BG:68:U:C6	2.53	0.43
40:BG:70:C:C4	40:BG:71:C:C4	3.06	0.43
41:BH:8:C:P	41:BH:9:C:H41	2.42	0.43
34:BA:1112:U:O4'	44:BK:92:HIS:CE1	2.72	0.43
47:BN:28:LYS:HB3	50:BQ:217:PHE:CD2	2.53	0.43
51:BR:122:ALA:HA	51:BR:145:HIS:CE1	2.54	0.43
2:A1:24:PHE:CE1	2:A1:27:ARG:HD3	2.53	0.43
85:AA:100:A:C8	85:AA:424:A:N6	2.86	0.43
85:AA:106:G:C2	85:AA:372:U:O2	2.71	0.43
85:AA:131:C:H2'	85:AA:132:G:O4'	2.19	0.43
85:AA:133:G:N2	85:AA:138:C:C2	2.86	0.43
85:AA:146:U:C3'	85:AA:146:U:C6	3.01	0.43
85:AA:1492:U:O4	85:AA:1493:A:C6	2.72	0.43
85:AA:156:G:C5	85:AA:157:G:C8	3.06	0.43
85:AA:2192:A:H2'	85:AA:2193:A:H8	1.79	0.43
85:AA:450:A:C6	85:AA:451:G:C5	3.07	0.43
85:AA:472:A:H2'	85:AA:473:C:C6	2.53	0.43
85:AA:494:G:C3'	85:AA:495:G:C5'	2.96	0.43
85:AA:495:G:H2'	85:AA:496:C:O4'	2.19	0.43
85:AA:496:C:N3	85:AA:497:G:C8	2.86	0.43
85:AA:631:G:C8	85:AA:633:C:N4	2.86	0.43
85:AA:639:C:N3	85:AA:651:G:N1	2.66	0.43
85:AA:684:G:C2	85:AA:688:C:C4	3.06	0.43
34:BA:617:G:C6	34:BA:618:G:C5	3.06	0.43
35:BB:524:C:C5	35:BB:525:U:C2	3.06	0.43
35:BB:555:G:C2	35:BB:556:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:563:A:H8	35:BB:563:A:O5'	2.02	0.43
35:BB:568:A:N1	35:BB:569:G:C5	2.87	0.43
35:BB:823:G:H2'	35:BB:824:C:O4'	2.18	0.43
53:BT:177:GLU:HB3	85:AA:999:A:H62	1.82	0.43
85:AA:1222:A:C2	85:AA:1223:A:C5	3.06	0.43
35:BB:472:C:N3	35:BB:506:G:C6	2.86	0.43
35:BB:522:A:C6	35:BB:528:G:C2	3.06	0.43
85:AA:928:U:H2'	85:AA:929:G:O4'	2.18	0.43
85:AA:938:A:N3	85:AA:939:A:H1'	2.34	0.43
85:AA:939:A:C2	85:AA:940:G:H5'	2.53	0.43
85:AA:940:G:C8	85:AA:940:G:C3'	3.01	0.43
15:AG:73:ARG:CZ	85:AA:940:G:C5	3.01	0.43
85:AA:1909:C:C6	85:AA:2040:A:C6	3.06	0.43
21:AM:126:HIS:CE1	21:AM:132:VAL:HG21	2.52	0.43
34:BA:1208:U:C4	34:BA:1210:A:N3	2.86	0.43
34:BA:521:C:H3'	34:BA:522:C:C6	2.54	0.43
34:BA:1235:C:H2'	34:BA:1236:U:C6	2.53	0.43
34:BA:1246:G:C6	34:BA:1247:G:C5	3.06	0.43
34:BA:726:G:N1	34:BA:727:G:C4	2.87	0.43
34:BA:596:G:C2	34:BA:1487:U:H2'	2.54	0.43
27:AT:67:PHE:CE1	85:AA:592:C:H2'	2.54	0.43
85:AA:197:C:N4	85:AA:209:C:H5"	2.30	0.43
35:BB:1525:G:C2	35:BB:1543:C:C2	3.06	0.43
85:AA:1290:G:C2	85:AA:1453:U:C4	3.06	0.43
85:AA:1695:G:C4	85:AA:1696:U:C5	3.06	0.43
85:AA:2229:G:C5	85:AA:2230:U:O4	2.71	0.43
85:AA:314:C:H3'	85:AA:314:C:C6	2.53	0.43
85:AA:2148:C:C4	85:AA:2149:C:C5	3.07	0.43
85:AA:2172:A:OP2	85:AA:2172:A:C8	2.72	0.43
34:BA:4:A:H5"	34:BA:4:A:H8	1.83	0.43
32:AY:31:ARG:O	85:AA:546:U:C4	2.70	0.43
85:AA:564:A:C2'	85:AA:565:G:H5'	2.47	0.43
85:AA:1923:A:N7	85:AA:1990:U:N3	2.65	0.43
34:BA:1335:A:C5	34:BA:1336:U:C4	3.06	0.43
35:BB:434:A:C2	35:BB:435:A:N3	2.86	0.43
34:BA:1095:G:C6	34:BA:1163:G:N7	2.86	0.43
34:BA:1125:G:C6	34:BA:1136:A:C6	3.06	0.43
34:BA:1133:A:C5	34:BA:1134:A:C5	3.06	0.43
34:BA:1349:A:C8	34:BA:1349:A:O5'	2.72	0.43
85:AA:808:A:C2'	85:AA:809:A:H5"	2.47	0.43
34:BA:925:G:C4	34:BA:999:G:N1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:743:C:O2	85:AA:744:C:C6	2.72	0.43
85:AA:1722:G:H2'	85:AA:1723:U:C6	2.54	0.43
85:AA:1362:A:C5	85:AA:1363:U:C4	3.07	0.43
85:AA:1256:C:C6	85:AA:1256:C:O5'	2.71	0.43
85:AA:1830:U:C6	85:AA:1830:U:O5'	2.64	0.43
85:AA:1938:G:H1	85:AA:1951:U:H3	1.66	0.43
85:AA:203:C:O2'	85:AA:204:U:H5'	2.18	0.43
35:BB:1069:C:N4	35:BB:1070:G:C2	2.86	0.43
27:AT:117:ARG:HH21	27:AT:128:ALA:HB1	1.83	0.43
35:BB:717:A:OP2	35:BB:718:G:C8	2.71	0.43
85:AA:1645:G:O3'	85:AA:1646:U:H3'	2.18	0.43
85:AA:413:G:C5	85:AA:414:C:C5	3.06	0.43
59:BZ:20:PRO:O	59:BZ:24:ARG:HG3	2.19	0.43
29:AV:91:ARG:NH2	85:AA:2248:A:C2	2.86	0.43
54:BU:71:GLY:CA	54:BU:92:ARG:HA	2.48	0.43
18:AJ:20:ARG:HB2	18:AJ:20:ARG:CZ	2.48	0.43
5:A4:117:VAL:HG22	5:A4:118:GLN:N	2.33	0.43
23:AP:160:GLU:CD	23:AP:184:ARG:HH12	2.22	0.43
56:BW:130:LYS:O	56:BW:134:HIS:CD2	2.71	0.43
6:A5:206:ALA:HA	6:A5:209:GLN:CD	2.38	0.43
56:BW:74:LYS:CD	56:BW:75:VAL:H	2.31	0.43
15:AG:76:LYS:HA	15:AG:81:ALA:HB2	1.99	0.43
85:AA:2166:G:H2'	85:AA:2167:A:O4'	2.19	0.43
34:BA:1198:U:C6	34:BA:1201:G:H5"	2.54	0.43
34:BA:1167:A:C5	34:BA:1206:C:C4	3.07	0.43
34:BA:1226:G:N1	34:BA:1227:U:C2	2.86	0.43
34:BA:1254:C:H2'	34:BA:1255:G:H5'	2.00	0.43
34:BA:1260:G:C6	34:BA:1270:G:N1	2.87	0.43
34:BA:1297:G:C5	49:BP:19:PRO:CD	3.01	0.43
34:BA:1628:A:C2	34:BA:1629:A:C4	3.06	0.43
34:BA:1651:C:H1'	34:BA:1652:G:OP1	2.19	0.43
34:BA:1719:G:C2	34:BA:1720:U:C6	3.05	0.43
34:BA:1734:U:C2'	34:BA:1735:G:H5'	2.48	0.43
34:BA:1815:G:C5	34:BA:1832:A:C6	3.06	0.43
34:BA:27:G:C6	34:BA:28:C:C4	3.07	0.43
34:BA:185:A:C5	34:BA:304:G:O6	2.71	0.43
34:BA:359:G:H3'	34:BA:360:C:C4'	2.41	0.43
34:BA:373:G:N1	34:BA:374:U:C4	2.87	0.43
34:BA:38:G:H3'	34:BA:39:C:C5	2.53	0.43
34:BA:412:G:C8	34:BA:418:G:O6	2.72	0.43
34:BA:455:A:C5	34:BA:456:G:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:456:G:H3'	34:BA:457:A:H8	1.83	0.43
34:BA:44:U:C6	34:BA:45:A:H2'	2.52	0.43
34:BA:463:A:H1'	34:BA:465:A:H3'	1.99	0.43
34:BA:480:G:N2	36:BC:9:G:C4	2.86	0.43
34:BA:50:G:N1	34:BA:51:C:C4	2.86	0.43
34:BA:740:A:C6	34:BA:741:A:C5	3.06	0.43
34:BA:954:U:H2'	34:BA:955:G:O4'	2.19	0.43
35:BB:702:G:C4	35:BB:1039:A:C2	3.06	0.43
35:BB:1122:C:N3	35:BB:1123:A:C5	2.87	0.43
35:BB:1141:A:H5"	35:BB:1142:C:P	2.59	0.43
35:BB:370:A:H2'	35:BB:371:C:C6	2.53	0.43
35:BB:39:C:C6	35:BB:39:C:O5'	2.72	0.43
35:BB:404:A:C4	35:BB:410:A:N1	2.86	0.43
35:BB:620:G:H2'	35:BB:621:C:O4'	2.19	0.43
34:BA:1594:G:C2	35:BB:627:G:C2	3.06	0.43
35:BB:656:A:C6	35:BB:1449:G:N1	2.87	0.43
35:BB:679:G:C5	35:BB:680:A:N7	2.87	0.43
35:BB:701:U:C2'	35:BB:701:U:O5'	2.65	0.43
36:BC:18:G:C6	36:BC:19:A:N1	2.86	0.43
34:BA:398:G:N2	36:BC:30:U:C2	2.86	0.43
37:BD:13:A:H3'	37:BD:14:C:H6	1.84	0.43
38:BE:101:C:C5	38:BE:120:C:C4	3.07	0.43
38:BE:128:G:C5	38:BE:129:G:N7	2.86	0.43
38:BE:134:A:O5'	38:BE:136:G:C8	2.71	0.43
40:BG:164:U:H2'	40:BG:165:C:C6	2.53	0.43
40:BG:3:G:N1	40:BG:4:A:C6	2.87	0.43
40:BG:55:A:C5	40:BG:56:G:C5	3.07	0.43
41:BH:54:U:H2'	41:BH:55:C:C6	2.54	0.43
41:BH:57:A:C6	41:BH:58:C:C4	3.07	0.43
47:BN:12:HIS:CD2	47:BN:13:GLN:H	2.36	0.43
47:BN:74:ARG:H	47:BN:74:ARG:CZ	2.32	0.43
34:BA:1690:U:C5'	57:BX:135:LEU:HD13	2.47	0.43
58:BY:63:HIS:C	58:BY:65:LYS:H	2.20	0.43
85:AA:1227:A:O5'	85:AA:1227:A:H8	2.02	0.43
85:AA:692:U:C5'	85:AA:1279:A:C8	3.01	0.43
85:AA:1277:C:C4	85:AA:1279:A:O4'	2.72	0.43
23:AP:178:ARG:HE	85:AA:1475:A:P	2.41	0.43
85:AA:1494:C:H2'	85:AA:2121:G:OP1	2.19	0.43
85:AA:2185:U:C3'	85:AA:2185:U:C6	3.01	0.43
85:AA:484:G:C4	85:AA:485:A:C8	3.06	0.43
85:AA:498:C:C4	85:AA:499:G:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:532:G:C5	85:AA:533:C:C5	3.07	0.43
85:AA:540:A:H2'	85:AA:541:A:H8	1.84	0.43
85:AA:620:U:H2'	85:AA:621:U:O4'	2.18	0.43
34:BA:610:A:H2'	34:BA:611:A:H8	1.83	0.43
35:BB:556:U:N3	35:BB:557:C:C5	2.86	0.43
35:BB:842:G:C4	35:BB:843:G:C8	3.06	0.43
18:AJ:57:ARG:NH1	85:AA:1112:G:OP1	2.51	0.43
85:AA:708:G:N2	85:AA:1214:C:OP2	2.52	0.43
35:BB:520:G:C6	35:BB:521:U:C4	3.07	0.43
35:BB:536:U:C2	35:BB:539:G:N3	2.86	0.43
85:AA:879:G:N1	85:AA:927:A:C5	2.86	0.43
85:AA:1580:A:N1	85:AA:2021:A:C5	2.87	0.43
21:AM:132:VAL:HG11	85:AA:2025:A:C2	2.54	0.43
34:BA:194:G:H2'	34:BA:195:G:C8	2.53	0.43
34:BA:262:A:H1'	34:BA:279:U:O4	2.19	0.43
34:BA:288:U:C5	34:BA:289:A:N7	2.86	0.43
34:BA:293:A:C4	34:BA:294:C:C5	3.07	0.43
34:BA:519:G:H5"	34:BA:684:G:C2	2.53	0.43
85:AA:197:C:N3	85:AA:209:C:H3'	2.34	0.43
35:BB:361:A:H2'	35:BB:362:A:O4'	2.18	0.43
35:BB:363:A:P	53:BT:143:HIS:CE1	3.11	0.43
41:BH:11:C:C2	41:BH:12:U:C5	3.06	0.43
85:AA:1448:A:C4	85:AA:1449:C:C2	3.06	0.43
85:AA:1452:C:H2'	85:AA:1453:U:C5	2.53	0.43
85:AA:1469:G:N2	85:AA:1471:G:C5	2.87	0.43
13:AE:56:LEU:HG	85:AA:313:A:N9	2.33	0.43
85:AA:270:A:H2	85:AA:271:A:C4	2.36	0.43
85:AA:274:A:C6	85:AA:275:A:C8	3.06	0.43
85:AA:554:A:C2	85:AA:574:U:C2	3.06	0.43
85:AA:583:U:H2'	85:AA:584:G:OP2	2.18	0.43
3:A2:67:ARG:HA	85:AA:2055:G:H4'	2.01	0.43
85:AA:1537:A:H2'	85:AA:1538:C:C6	2.54	0.43
85:AA:2088:U:C2	85:AA:2089:G:C8	3.07	0.43
85:AA:2091:C:O2'	85:AA:2092:A:H5'	2.18	0.43
85:AA:790:A:O5'	85:AA:790:A:H8	2.02	0.43
85:AA:791:C:H1'	85:AA:792:A:N7	2.33	0.43
85:AA:794:A:H2	85:AA:800:A:O2'	2.01	0.43
85:AA:365:G:N1	85:AA:366:A:C6	2.86	0.43
85:AA:440:U:C6	85:AA:440:U:C3'	3.01	0.43
35:BB:1014:U:C2	35:BB:1015:U:C6	3.07	0.43
85:AA:71:G:C2'	85:AA:72:C:H6	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1208:G:N1	35:BB:1253:U:H3'	2.33	0.43
34:BA:1378:A:C2	34:BA:1379:G:N7	2.86	0.43
85:AA:814:G:N2	85:AA:818:C:C5	2.86	0.43
85:AA:751:C:H2'	85:AA:753:U:H3'	1.99	0.43
85:AA:740:A:C2	85:AA:769:C:O2	2.71	0.43
34:BA:1213:A:C4	34:BA:1214:U:C6	3.07	0.43
34:BA:529:A:H2'	34:BA:530:A:C8	2.53	0.43
34:BA:574:U:C4	34:BA:575:U:C4	3.07	0.43
34:BA:1118:C:C4	34:BA:1119:A:C8	3.06	0.43
34:BA:1430:C:C6	34:BA:1430:C:H3'	2.54	0.43
85:AA:1937:G:N3	85:AA:1953:G:C2	2.87	0.43
35:BB:874:G:C2	35:BB:961:G:C2	3.07	0.43
35:BB:1484:A:N6	35:BB:1485:G:C6	2.87	0.43
34:BA:981:A:C6	34:BA:984:U:C4	3.07	0.43
25:AR:71:HIS:O	25:AR:74:ASN:HB3	2.17	0.43
35:BB:709:G:N1	35:BB:773:G:C6	2.86	0.43
21:AM:71:VAL:HA	21:AM:78:PHE:CE2	2.53	0.43
26:AS:134:TYR:C	26:AS:134:TYR:CD1	2.92	0.43
40:BG:142:A:C4	40:BG:143:C:C5	3.06	0.43
34:BA:736:G:O6	34:BA:901:C:C5	2.71	0.43
35:BB:408:U:H1'	35:BB:1436:U:C6	2.53	0.43
47:BN:145:GLU:O	47:BN:148:VAL:HG12	2.18	0.43
35:BB:326:G:C6	35:BB:327:U:C4	3.06	0.43
22:AO:28:PRO:HA	22:AO:31:TRP:HB3	2.00	0.43
45:BL:54:LEU:HD21	45:BL:71:LYS:CG	2.48	0.43
4:A3:63:PRO:HG2	4:A3:100:LEU:HD22	1.99	0.43
20:AL:81:ARG:O	20:AL:84:TYR:CE2	2.71	0.43
52:BS:107:GLN:HA	52:BS:110:ASN:OD1	2.19	0.43
34:BA:99:G:H2'	34:BA:100:A:C8	2.54	0.43
34:BA:1044:A:C2	34:BA:1045:C:C2	3.07	0.43
34:BA:1159:A:O5'	34:BA:1159:A:C8	2.71	0.43
34:BA:1230:G:C6	34:BA:1231:C:N4	2.87	0.43
34:BA:1260:G:H2'	34:BA:1260:G:N3	2.34	0.43
34:BA:1311:G:H2'	34:BA:1312:A:C8	2.53	0.43
34:BA:1321:A:C2	34:BA:1322:A:C4	3.06	0.43
34:BA:133:A:N7	34:BA:134:U:C2	2.85	0.43
34:BA:1454:G:C2	34:BA:1455:C:C5	3.06	0.43
34:BA:1510:C:N3	34:BA:1511:C:C5	2.87	0.43
34:BA:1532:G:C2	34:BA:1533:G:C4	3.06	0.43
34:BA:20:A:C8	34:BA:1716:A:N1	2.86	0.43
34:BA:1788:U:C4	34:BA:1789:A:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1802:C:C4	34:BA:1803:A:N7	2.87	0.43
34:BA:209:A:C6	34:BA:224:G:H1'	2.54	0.43
34:BA:221:G:H2'	34:BA:222:C:O4'	2.19	0.43
34:BA:320:G:O6	34:BA:321:G:C6	2.72	0.43
34:BA:161:U:N3	34:BA:323:C:O4'	2.51	0.43
34:BA:152:C:N3	34:BA:327:G:P	2.91	0.43
34:BA:329:G:C8	34:BA:329:G:O5'	2.72	0.43
34:BA:374:U:C2	34:BA:375:C:C5	3.06	0.43
34:BA:41:U:C4	34:BA:42:A:H1'	2.53	0.43
34:BA:703:U:H2'	34:BA:704:G:C8	2.54	0.43
34:BA:744:G:C2	47:BN:6:ASN:HA	2.53	0.43
34:BA:752:A:C5'	34:BA:885:A:H61	2.32	0.43
34:BA:767:U:C4	34:BA:768:G:N3	2.86	0.43
34:BA:768:G:O2'	34:BA:769:U:H5'	2.19	0.43
34:BA:820:C:N3	34:BA:850:C:N4	2.67	0.43
34:BA:912:G:C6	34:BA:913:U:O4	2.71	0.43
34:BA:932:G:C5	34:BA:933:U:N1	2.86	0.43
35:BB:1078:U:H2'	35:BB:1079:G:C8	2.54	0.43
35:BB:1124:G:C4	35:BB:1126:A:N1	2.87	0.43
35:BB:1123:A:C6	35:BB:1127:A:C5	3.06	0.43
35:BB:1158:C:H2'	35:BB:1159:U:C6	2.53	0.43
35:BB:1143:A:C5	35:BB:1205:A:N1	2.87	0.43
35:BB:1305:A:H3'	35:BB:1306:G:H8	1.83	0.43
35:BB:1311:G:N7	35:BB:1312:U:C5	2.86	0.43
34:BA:1421:A:C5	35:BB:1345:A:C6	3.06	0.43
35:BB:1453:G:H3'	35:BB:1454:G:H5"	2.00	0.43
35:BB:1458:U:O2	39:BF:14:C:C4	2.71	0.43
35:BB:43:G:C6	35:BB:44:C:C4	3.06	0.43
35:BB:79:U:H2'	35:BB:80:C:O4'	2.18	0.43
36:BC:128:U:H2'	36:BC:129:C:O4'	2.18	0.43
36:BC:147:G:H5"	36:BC:147:G:C8	2.53	0.43
36:BC:105:C:O4'	36:BC:149:A:C4	2.72	0.43
36:BC:46:G:N3	36:BC:61:A:H2	2.16	0.43
37:BD:89:G:C2	37:BD:90:A:N1	2.86	0.43
38:BE:150:G:C6	38:BE:151:C:N3	2.87	0.43
38:BE:25:U:O2	38:BE:196:C:C2	2.70	0.43
38:BE:49:A:H5"	55:BV:110:LEU:HD22	2.00	0.43
38:BE:67:A:C6	38:BE:68:U:C4	3.07	0.43
40:BG:101:G:C5	40:BG:102:G:C8	3.07	0.43
41:BH:39:G:C5	41:BH:113:G:N1	2.86	0.43
41:BH:58:C:H3'	41:BH:59:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BT:10:LEU:HD21	53:BT:38:ARG:HA	1.99	0.43
2:A1:23:VAL:CG1	2:A1:24:PHE:H	2.29	0.43
85:AA:105:A:C5	85:AA:373:G:N2	2.87	0.43
85:AA:1229:G:C6	85:AA:1230:U:C4	3.06	0.43
85:AA:1274:A:H5'	85:AA:1275:A:OP1	2.18	0.43
85:AA:130:G:C5	85:AA:131:C:C5	3.07	0.43
85:AA:39:A:C2	85:AA:40:A:N7	2.86	0.43
85:AA:2:A:C6	85:AA:435:A:C2	3.06	0.43
85:AA:453:G:N2	85:AA:454:G:C4	2.87	0.43
85:AA:466:A:N6	85:AA:469:G:C6	2.64	0.43
85:AA:466:A:H2	85:AA:467:U:C5'	2.32	0.43
85:AA:472:A:O5'	85:AA:472:A:C8	2.71	0.43
85:AA:479:C:H2'	85:AA:480:U:C6	2.53	0.43
85:AA:52:U:O5'	85:AA:52:U:C6	2.71	0.43
85:AA:677:U:O2'	85:AA:678:A:H5'	2.19	0.43
85:AA:688:C:N3	85:AA:689:U:C6	2.87	0.43
32:AY:57:MET:SD	85:AA:664:C:H5'	2.58	0.43
35:BB:805:G:N7	35:BB:806:U:O4	2.51	0.43
35:BB:871:C:C2	35:BB:964:G:C2	3.07	0.43
35:BB:852:G:C2	35:BB:967:G:OP2	2.72	0.43
35:BB:969:C:C2	35:BB:970:C:C5	3.06	0.43
35:BB:798:A:N6	35:BB:976:U:N3	2.67	0.43
35:BB:839:G:C5	35:BB:978:C:O2	2.72	0.43
6:A5:106:ALA:HB1	6:A5:179:LEU:CD2	2.45	0.43
35:BB:1198:C:C2	35:BB:1199:A:C8	3.07	0.43
35:BB:517:G:N1	35:BB:518:G:C8	2.86	0.43
5:A4:13:LEU:HD23	5:A4:48:ILE:HG12	2.00	0.43
85:AA:936:C:C6	85:AA:936:C:O5'	2.72	0.43
85:AA:1867:G:N1	85:AA:1868:G:C4	2.86	0.43
85:AA:2007:G:C6	85:AA:2008:G:C2	3.07	0.43
85:AA:2042:G:C6	85:AA:2043:A:C6	3.06	0.43
34:BA:1234:U:C6	34:BA:1235:C:C5	3.07	0.43
34:BA:1237:U:H2'	34:BA:1238:C:C5	2.54	0.43
34:BA:1239:G:H2'	34:BA:1240:G:C8	2.53	0.43
35:BB:665:A:H2'	35:BB:666:A:O4'	2.18	0.43
85:AA:1911:A:C5	85:AA:1913:G:C2	3.06	0.43
35:BB:1493:A:N1	35:BB:1514:G:C6	2.87	0.43
85:AA:248:U:C5	85:AA:249:C:C5	3.06	0.43
35:BB:367:C:H2'	35:BB:368:C:O4'	2.17	0.43
8:A7:34:THR:HG23	8:A7:73:VAL:CB	2.48	0.43
35:BB:1522:G:N2	35:BB:1546:C:H1'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1449:C:H2'	85:AA:1450:U:C1'	2.49	0.43
85:AA:1464:G:N2	85:AA:1465:C:C2	2.87	0.43
85:AA:1464:G:H8	85:AA:1464:G:OP2	2.00	0.43
18:AJ:12:ARG:CZ	85:AA:1472:G:C4	3.01	0.43
85:AA:1520:A:H2'	85:AA:1521:U:C6	2.54	0.43
85:AA:1670:U:O5'	85:AA:1670:U:C6	2.70	0.43
11:AC:141:PRO:HB3	11:AC:168:GLN:OE1	2.18	0.43
40:BG:152:G:C4	40:BG:153:C:C5	3.06	0.43
85:AA:1220:A:H3'	85:AA:1221:G:H8	1.84	0.43
34:BA:4:A:H2'	34:BA:4:A:N3	2.32	0.43
85:AA:578:U:H2'	85:AA:579:U:O4'	2.18	0.43
85:AA:2087:C:C4	85:AA:2088:U:C4	3.07	0.43
85:AA:1717:G:H3'	85:AA:1718:C:H4'	2.00	0.43
85:AA:893:G:C8	85:AA:896:C:OP2	2.71	0.43
85:AA:392:G:C6	85:AA:409:C:N3	2.87	0.43
85:AA:522:A:H4'	85:AA:523:U:H5"	2.00	0.43
40:BG:135:C:C6	40:BG:135:C:H3'	2.53	0.43
85:AA:1259:U:C4	85:AA:1260:G:C5	3.06	0.43
85:AA:817:G:H2'	85:AA:818:C:C5	2.54	0.43
39:BF:36:G:N2	39:BF:37:C:H1'	2.33	0.43
39:BF:45:G:N1	39:BF:46:G:C4	2.86	0.43
34:BA:1122:G:C5	34:BA:1123:G:N7	2.87	0.43
19:AK:70:ARG:H	85:AA:1792:C:C2'	2.32	0.43
85:AA:1251:G:C6	85:AA:1252:A:C5	3.07	0.43
85:AA:1252:A:C2'	85:AA:1253:G:OP2	2.66	0.43
85:AA:1003:G:C4	85:AA:1004:G:C8	3.06	0.43
85:AA:1825:A:N1	85:AA:1850:G:H2'	2.33	0.43
85:AA:1857:G:C5	85:AA:1858:G:N7	2.86	0.43
35:BB:874:G:C2	35:BB:875:G:C8	3.07	0.43
34:BA:511:U:H3'	34:BA:512:U:C5	2.53	0.43
34:BA:514:U:H2'	34:BA:515:U:C6	2.54	0.43
35:BB:1384:A:N7	35:BB:1385:C:C5	2.86	0.43
25:AR:75:HIS:CG	25:AR:78:ILE:HG12	2.52	0.43
5:A4:178:TYR:CD1	5:A4:186:VAL:HG12	2.54	0.43
35:BB:1332:G:C8	35:BB:1403:G:N1	2.86	0.43
27:AT:95:ASN:HA	27:AT:98:LYS:HB2	2.01	0.43
35:BB:1491:G:C2	35:BB:1516:C:C2	3.06	0.43
86:AB:63:G:H2'	86:AB:64:A:C8	2.54	0.43
16:AH:23:VAL:O	16:AH:37:VAL:HA	2.19	0.43
44:BK:134:ILE:HG21	44:BK:137:SER:OG	2.18	0.43
35:BB:50:A:C2	35:BB:51:U:N1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A6:61:LEU:HB2	7:A6:68:ARG:HH21	1.84	0.43
35:BB:1538:G:C6	35:BB:1539:C:C5	3.06	0.43
16:AH:27:TYR:C	16:AH:27:TYR:CD1	2.88	0.43
34:BA:1391:A:C8	34:BA:1392:A:C8	3.07	0.43
11:AC:99:ARG:NE	25:AR:42:ALA:O	2.51	0.43
8:A7:196:THR:H	8:A7:217:ASP:HB2	1.84	0.43
6:A5:207:GLU:CD	6:A5:207:GLU:H	2.20	0.43
56:BW:106:ASN:OD1	56:BW:110:GLU:N	2.49	0.43
12:AD:76:ASN:O	12:AD:80:ILE:HG23	2.19	0.43
21:AM:26:LYS:O	21:AM:53:VAL:HA	2.19	0.43
34:BA:1043:C:C6	34:BA:1581:G:C2	3.07	0.43
34:BA:1113:A:C2	34:BA:1114:G:C5	3.06	0.43
34:BA:1162:U:OP2	34:BA:1162:U:C5	2.72	0.43
34:BA:1190:A:H2'	34:BA:1191:C:C6	2.54	0.43
34:BA:1225:A:C5	34:BA:1226:G:C4	3.06	0.43
34:BA:1443:U:C4	34:BA:1454:G:O6	2.72	0.43
34:BA:1598:U:OP2	35:BB:622:G:N2	2.52	0.43
34:BA:1628:A:O5'	34:BA:1628:A:H8	2.02	0.43
34:BA:171:U:C3'	34:BA:171:U:C6	2.99	0.43
34:BA:1745:G:H2'	34:BA:1746:G:C8	2.54	0.43
34:BA:1748:G:H1	34:BA:1775:U:H3	1.66	0.43
34:BA:177:G:C2	34:BA:310:C:C2	3.07	0.43
34:BA:1736:A:C6	34:BA:1789:A:C2	3.06	0.43
34:BA:1792:U:H3'	34:BA:1793:G:C8	2.50	0.43
34:BA:26:C:H2'	34:BA:27:G:O4'	2.19	0.43
34:BA:297:A:N1	36:BC:32:U:C6	2.87	0.43
34:BA:306:G:C5	34:BA:307:C:C5	3.06	0.43
34:BA:162:G:C4	34:BA:321:G:N7	2.87	0.43
34:BA:114:U:H2'	34:BA:327:G:O2'	2.19	0.43
34:BA:384:U:H5'	50:BQ:167:TRP:CH2	2.53	0.43
34:BA:390:A:C5	34:BA:391:U:C4	3.06	0.43
34:BA:413:A:O4'	34:BA:417:A:C2	2.72	0.43
34:BA:439:A:C2	34:BA:441:A:N9	2.87	0.43
34:BA:449:G:C2'	34:BA:449:G:N3	2.75	0.43
34:BA:472:G:P	34:BA:1566:G:H4'	2.58	0.43
34:BA:744:G:H1'	47:BN:5:ASN:C	2.39	0.43
34:BA:744:G:C2	34:BA:745:A:C4	3.06	0.43
34:BA:791:A:C6	34:BA:792:A:C4	3.07	0.43
34:BA:795:G:H3'	34:BA:796:G:C8	2.54	0.43
34:BA:84:U:OP2	34:BA:96:G:N1	2.51	0.43
34:BA:886:G:C2	34:BA:887:U:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:935:A:C8	34:BA:957:A:C6	3.06	0.43
34:BA:934:G:N3	34:BA:956:G:C2	2.87	0.43
35:BB:104:G:H1'	35:BB:119:G:N2	2.33	0.43
35:BB:692:G:C6	35:BB:1052:G:N3	2.87	0.43
35:BB:1075:A:N6	35:BB:1076:U:C4	2.86	0.43
35:BB:1131:C:H2'	35:BB:1132:A:C8	2.53	0.43
35:BB:1170:U:C4	35:BB:1171:U:C5	3.07	0.43
34:BA:1839:G:C6	35:BB:11:A:C6	3.07	0.43
35:BB:1371:G:N1	35:BB:1372:G:C5	2.86	0.43
35:BB:481:A:C5	35:BB:499:A:C6	3.07	0.43
35:BB:599:U:H2'	35:BB:600:C:O4'	2.18	0.43
35:BB:59:U:C4	35:BB:60:A:C8	3.06	0.43
34:BA:1643:U:C2	35:BB:60:A:N1	2.87	0.43
35:BB:696:G:C4	35:BB:697:G:C8	3.07	0.43
36:BC:18:G:H2'	36:BC:19:A:C8	2.53	0.43
36:BC:87:C:H2'	36:BC:88:A:O4'	2.18	0.43
38:BE:165:U:H5"	38:BE:165:U:H6	1.84	0.43
38:BE:172:U:OP2	38:BE:172:U:C5	2.72	0.43
38:BE:180:G:H5'	38:BE:182:U:H5'	2.00	0.43
38:BE:2:G:C8	38:BE:2:G:O5'	2.72	0.43
38:BE:30:C:C4	38:BE:31:A:C5	3.07	0.43
38:BE:47:U:OP2	55:BV:87:LYS:HG2	2.18	0.43
38:BE:58:U:C6	38:BE:58:U:H3'	2.54	0.43
41:BH:43:G:C6	41:BH:111:U:C5'	3.02	0.43
41:BH:33:G:C2'	41:BH:34:G:H8	2.31	0.43
41:BH:44:A:C5	41:BH:45:G:N9	2.87	0.43
41:BH:45:G:C6	41:BH:46:C:C4	3.07	0.43
41:BH:96:G:C2	41:BH:97:C:H1'	2.53	0.43
49:BP:119:SER:O	49:BP:123:TRP:CD2	2.71	0.43
54:BU:117:ALA:HA	54:BU:120:LYS:HE2	2.01	0.43
85:AA:104:C:C3'	85:AA:104:C:C6	3.01	0.43
85:AA:1226:A:C4	85:AA:1274:A:C5	3.06	0.43
85:AA:1227:A:N6	85:AA:1273:C:N3	2.67	0.43
85:AA:135:C:C5	85:AA:137:C:H1'	2.54	0.43
85:AA:146:U:C5	85:AA:333:A:H2'	2.53	0.43
85:AA:156:G:C2	85:AA:157:G:C1'	3.01	0.43
85:AA:2190:U:H6	85:AA:2190:U:O5'	2.01	0.43
85:AA:515:C:N3	85:AA:527:A:C2	2.87	0.43
85:AA:626:G:C2	85:AA:627:A:C2	3.07	0.43
85:AA:684:G:C2	85:AA:688:C:C5	3.06	0.43
34:BA:663:U:C5	34:BA:664:C:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:669:U:O4	34:BA:670:U:C5	2.72	0.43
35:BB:526:A:H61	85:AA:2112:G:C3'	2.31	0.43
35:BB:527:U:H5	35:BB:527:U:OP2	2.01	0.43
35:BB:805:G:C4	35:BB:806:U:C4	3.07	0.43
35:BB:804:U:N1	35:BB:805:G:H1'	2.34	0.43
35:BB:824:C:N4	35:BB:825:U:C5	2.86	0.43
35:BB:830:G:C2	35:BB:831:C:N1	2.87	0.43
49:BP:88:ALA:HA	49:BP:93:ARG:NH1	2.33	0.43
85:AA:942:A:OP2	85:AA:944:C:C5	2.72	0.43
59:BZ:76:VAL:HA	59:BZ:96:VAL:O	2.18	0.43
34:BA:602:G:H3'	34:BA:1492:G:N2	2.34	0.43
34:BA:520:G:H3'	34:BA:521:C:C5'	2.48	0.43
34:BA:603:U:C5	34:BA:680:C:N4	2.87	0.43
34:BA:1236:U:C2	34:BA:1237:U:C6	3.06	0.43
34:BA:1240:G:C2'	34:BA:1242:A:OP2	2.66	0.43
34:BA:724:A:C4	34:BA:725:C:C5	3.06	0.43
34:BA:1244:G:N3	35:BB:640:A:C6	2.87	0.43
85:AA:242:G:C8	85:AA:243:A:N3	2.87	0.43
85:AA:244:G:C5	85:AA:245:A:N7	2.87	0.43
41:BH:13:C:H2'	41:BH:14:C:O4'	2.18	0.43
41:BH:15:A:C8	41:BH:16:A:N7	2.86	0.43
85:AA:1284:A:C4	85:AA:1285:C:C5	3.07	0.43
85:AA:1520:A:C4	85:AA:1521:U:C5	3.06	0.43
85:AA:2228:G:C4	85:AA:2229:G:C8	3.06	0.43
85:AA:1617:G:H2'	85:AA:1619:A:C6	2.54	0.43
85:AA:293:A:C4'	85:AA:294:G:OP2	2.66	0.43
85:AA:548:G:C6	85:AA:581:A:N3	2.87	0.43
85:AA:779:G:C2	85:AA:780:U:C5	3.06	0.43
34:BA:1333:G:C6	34:BA:1334:G:C8	3.07	0.43
1:A0:99:LEU:HD12	1:A0:99:LEU:N	2.34	0.43
40:BG:136:G:C6	40:BG:137:G:C4	3.07	0.43
85:AA:1242:A:C6	85:AA:1243:G:C5	3.06	0.43
49:BP:139:TRP:CE3	49:BP:139:TRP:O	2.72	0.43
35:BB:1415:G:N1	35:BB:1416:A:C4	2.87	0.43
85:AA:808:A:H2'	85:AA:809:A:C5'	2.48	0.43
85:AA:812:C:H2'	85:AA:813:G:C8	2.54	0.43
85:AA:746:G:C6	85:AA:747:U:C4	3.07	0.43
86:AB:39:U:H2'	86:AB:40:C:C6	2.54	0.43
54:BU:64:VAL:HG13	54:BU:66:ASN:H	1.84	0.43
35:BB:474:G:C8	35:BB:474:G:H3'	2.54	0.43
34:BA:832:C:H3'	34:BA:833:U:C5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1045:G:C4	35:BB:1046:C:C6	3.06	0.43
34:BA:1355:G:C8	34:BA:1356:C:H4'	2.54	0.43
85:AA:1882:U:O3'	85:AA:1883:C:C6	2.71	0.43
85:AA:1883:C:H1'	85:AA:1885:A:N7	2.33	0.43
85:AA:1648:G:C2	85:AA:1649:U:C2	3.07	0.43
21:AM:81:PRO:HB3	21:AM:83:TRP:CD1	2.54	0.43
85:AA:387:U:H1'	85:AA:388:G:C5'	2.48	0.43
57:BX:100:GLU:HA	57:BX:100:GLU:OE1	2.19	0.43
35:BB:408:U:C1'	35:BB:1436:U:C6	3.02	0.43
11:AC:118:PHE:CD2	11:AC:118:PHE:N	2.86	0.43
33:AZ:85:LYS:HG3	33:AZ:86:GLU:H	1.83	0.43
85:AA:150:U:C6	85:AA:150:U:C3'	3.02	0.43
23:AP:45:PRO:HB2	23:AP:50:GLY:C	2.39	0.43
85:AA:306:C:H6	85:AA:306:C:H3'	1.84	0.43
8:A7:278:HIS:CG	8:A7:286:PRO:HG3	2.53	0.43
54:BU:94:GLU:H	54:BU:94:GLU:CD	2.22	0.43
34:BA:1713:U:O3'	34:BA:1714:A:C8	2.72	0.43
49:BP:53:LEU:HA	49:BP:56:VAL:HG22	1.99	0.43
47:BN:123:THR:HA	47:BN:126:SER:OG	2.19	0.43
13:AE:173:LYS:HB2	13:AE:174:ASN:H	1.65	0.43
85:AA:2153:G:C2	85:AA:2154:C:N1	2.87	0.43
34:BA:1057:C:OP1	35:BB:1257:A:H3'	2.18	0.43
34:BA:1110:A:N3	34:BA:1110:A:H2'	2.33	0.43
34:BA:1286:C:H4'	34:BA:1292:A:C5	2.54	0.43
34:BA:1323:G:H2'	34:BA:1324:G:O4'	2.19	0.43
34:BA:1044:A:C6	34:BA:1525:G:C6	3.06	0.43
34:BA:1529:G:C2	34:BA:1578:A:C4	3.07	0.43
34:BA:1588:U:H2'	34:BA:1589:U:C6	2.53	0.43
34:BA:1603:A:C6	35:BB:33:A:C5	3.06	0.43
34:BA:1659:G:C6	34:BA:1660:A:C5	3.06	0.43
34:BA:1674:G:H3'	34:BA:1675:C:C5'	2.49	0.43
34:BA:1711:G:C5	34:BA:1719:G:N1	2.87	0.43
34:BA:176:G:C2	34:BA:177:G:N9	2.87	0.43
34:BA:1827:C:O2'	34:BA:1828:A:C6	2.70	0.43
34:BA:377:G:C6	34:BA:378:C:C5	3.06	0.43
34:BA:490:A:H2'	34:BA:491:U:N1	2.34	0.43
34:BA:502:U:O2	34:BA:502:U:H2'	2.18	0.43
34:BA:728:A:N6	34:BA:1593:U:C4	2.87	0.43
34:BA:751:A:N1	34:BA:886:G:C6	2.87	0.43
34:BA:79:C:H4'	34:BA:758:G:H4'	2.01	0.43
34:BA:753:G:C5	34:BA:785:G:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:798:G:H2'	34:BA:800:G:O4'	2.19	0.43
34:BA:7:U:OP1	50:BQ:57:ARG:NE	2.51	0.43
34:BA:81:C:H3'	34:BA:82:A:H2'	2.00	0.43
34:BA:849:G:C1'	42:BI:147:ARG:HG3	2.48	0.43
34:BA:82:A:O4'	34:BA:84:U:C6	2.71	0.43
34:BA:799:A:C6	34:BA:858:C:OP1	2.72	0.43
34:BA:874:G:OP1	34:BA:1180:A:N6	2.51	0.43
34:BA:942:G:N2	34:BA:943:G:H1'	2.33	0.43
35:BB:1079:G:C6	35:BB:1094:A:C6	3.06	0.43
35:BB:1105:G:H2'	35:BB:1106:G:C8	2.54	0.43
35:BB:1139:A:C5	35:BB:1140:C:C4	3.07	0.43
35:BB:1210:U:C4	35:BB:1211:C:N3	2.87	0.43
35:BB:1222:A:C8	35:BB:1222:A:C3'	2.96	0.43
35:BB:1225:A:C2'	35:BB:1226:G:H5"	2.48	0.43
35:BB:1213:U:O4	35:BB:1251:G:C2	2.71	0.43
35:BB:1295:A:C2	35:BB:1308:G:N3	2.87	0.43
35:BB:1340:U:N3	35:BB:1341:U:C4	2.87	0.43
35:BB:1359:G:C8	35:BB:1360:A:C8	3.07	0.43
35:BB:1367:U:C6	35:BB:1367:U:H3'	2.54	0.43
35:BB:376:A:N1	35:BB:377:A:C4	2.87	0.43
35:BB:599:U:C4	35:BB:600:C:C5	3.06	0.43
35:BB:93:A:C6	35:BB:94:A:C5	3.06	0.43
35:BB:990:G:C5'	35:BB:990:G:C8	3.02	0.43
36:BC:101:U:C5	36:BC:102:G:N7	2.87	0.43
36:BC:125:A:C2	36:BC:139:A:C2	3.06	0.43
36:BC:160:C:C4	36:BC:161:U:C5	3.06	0.43
36:BC:65:G:N1	36:BC:66:G:C5	2.87	0.43
37:BD:29:C:C5'	45:BL:142:GLY:HA2	2.48	0.43
37:BD:77:A:N3	37:BD:100:A:C4	2.87	0.43
37:BD:93:G:C2'	37:BD:94:C:C5	3.02	0.43
38:BE:123:A:N1	38:BE:124:G:C5	2.86	0.43
38:BE:202:C:O3'	38:BE:203:C:C6	2.71	0.43
38:BE:203:C:C3'	38:BE:203:C:H6	2.30	0.43
38:BE:32:U:C6	38:BE:32:U:H3'	2.52	0.43
38:BE:45:G:C2	38:BE:46:G:C4	3.06	0.43
38:BE:49:A:N1	38:BE:50:G:C4	2.87	0.43
38:BE:48:G:C6	38:BE:61:A:N1	2.86	0.43
34:BA:239:C:H1'	40:BG:13:A:C4	2.54	0.43
40:BG:181:C:C5	40:BG:182:G:O6	2.71	0.43
40:BG:93:U:C4	40:BG:94:G:C5	3.07	0.43
41:BH:104:U:C5	41:BH:105:U:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:43:G:H1'	41:BH:111:U:O2'	2.19	0.43
41:BH:67:G:N1	41:BH:68:G:C4	2.87	0.43
35:BB:1296:A:C4'	44:BK:71:GLN:HE22	2.32	0.43
48:BO:206:LYS:C	48:BO:208:MET:H	2.21	0.43
50:BQ:74:GLN:C	50:BQ:76:TYR:H	2.22	0.43
34:BA:455:A:C5'	51:BR:17:ALA:HA	2.49	0.43
51:BR:27:LYS:O	51:BR:30:PHE:HB3	2.19	0.43
34:BA:401:A:H5'	59:BZ:5:LYS:HZ3	1.84	0.43
85:AA:1189:A:C6	85:AA:1190:G:C4	3.06	0.43
85:AA:1231:G:C4	85:AA:1232:U:C5	3.07	0.43
85:AA:136:U:H5"	85:AA:137:C:C6	2.54	0.43
85:AA:143:U:C2	85:AA:144:A:C8	3.07	0.43
85:AA:2127:G:N1	85:AA:2128:G:C5	2.86	0.43
85:AA:436:G:C4	85:AA:437:G:C8	3.07	0.43
85:AA:498:C:H2'	85:AA:499:G:C8	2.53	0.43
85:AA:539:A:H3'	85:AA:539:A:C8	2.54	0.43
85:AA:542:G:N1	85:AA:543:A:C4	2.87	0.43
85:AA:6:G:H5'	85:AA:627:A:H4'	1.99	0.43
85:AA:649:C:H5"	85:AA:649:C:C6	2.53	0.43
85:AA:639:C:C2	85:AA:651:G:N1	2.87	0.43
85:AA:660:G:C6	85:AA:661:C:C4	3.07	0.43
34:BA:628:U:O3'	34:BA:629:G:C8	2.72	0.43
35:BB:561:C:C4	35:BB:563:A:H3'	2.54	0.43
35:BB:816:U:H2'	35:BB:817:C:C6	2.54	0.43
35:BB:977:G:H2'	35:BB:978:C:C5'	2.49	0.43
85:AA:996:A:C8	85:AA:997:U:C4	3.06	0.43
35:BB:1168:G:N2	35:BB:1185:G:C2	2.87	0.43
35:BB:534:C:H3'	35:BB:535:U:C6	2.54	0.43
85:AA:1575:G:N1	85:AA:1577:G:C6	2.87	0.43
85:AA:1654:G:C4	85:AA:1655:G:C8	3.07	0.43
85:AA:1654:G:C6	85:AA:1875:A:C6	3.07	0.43
85:AA:1867:G:C6	85:AA:1868:G:C6	3.06	0.43
17:AI:133:VAL:HG22	85:AA:1558:U:H1'	2.01	0.43
21:AM:29:PHE:CE1	85:AA:2005:U:H5"	2.53	0.43
34:BA:253:U:C4	34:BA:254:U:C5	3.07	0.43
34:BA:257:G:H2'	34:BA:258:C:H6	1.81	0.43
34:BA:289:A:N1	34:BA:290:G:C8	2.87	0.43
34:BA:1039:G:N3	34:BA:1039:G:H2'	2.34	0.43
35:BB:641:C:N4	35:BB:1399:A:C4	2.87	0.43
85:AA:195:C:N3	85:AA:245:A:C2	2.87	0.43
35:BB:137:A:N6	35:BB:363:A:N1	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1293:U:O2	85:AA:1294:U:H1'	2.19	0.43
85:AA:1449:C:O2	85:AA:1450:U:H1'	2.19	0.43
85:AA:1699:A:C5	85:AA:1700:C:C4	3.07	0.43
85:AA:2145:G:N1	85:AA:2146:G:C2	2.86	0.43
85:AA:1615:A:C2	85:AA:1625:C:C2	3.06	0.43
85:AA:554:A:C2	85:AA:555:C:N3	2.87	0.43
3:A2:43:GLN:NE2	85:AA:2050:C:H2'	2.34	0.43
85:AA:2084:U:C2	85:AA:2085:C:C6	3.07	0.43
35:BB:1062:G:H2'	35:BB:1063:C:O4'	2.19	0.43
85:AA:891:G:H3'	85:AA:892:C:C5	2.54	0.43
85:AA:894:A:C8	85:AA:899:A:C2	3.07	0.43
85:AA:118:C:H2'	85:AA:119:G:C8	2.54	0.43
1:A0:234:HIS:HE1	1:A0:237:VAL:N	2.16	0.43
35:BB:997:G:C6	35:BB:998:G:C4	3.07	0.43
85:AA:1153:G:C8	85:AA:1154:A:O4'	2.72	0.43
85:AA:1233:G:C2	85:AA:1234:G:C8	3.06	0.43
25:AR:6:THR:O	25:AR:13:ASN:CG	2.57	0.43
34:BA:1095:G:H1'	34:BA:1163:G:N2	2.34	0.43
47:BN:80:PHE:CD1	47:BN:85:LEU:HD21	2.54	0.43
85:AA:351:C:O2'	85:AA:352:G:H5'	2.18	0.43
85:AA:858:G:C6	85:AA:859:G:C5	3.07	0.43
34:BA:925:G:C6	34:BA:999:G:C5	3.07	0.43
39:BF:32:G:C2	39:BF:52:A:N7	2.87	0.43
85:AA:1016:G:C4'	85:AA:1056:C:C4	3.00	0.43
85:AA:1816:C:C5	85:AA:1816:C:OP2	2.72	0.43
34:BA:895:U:O3'	47:BN:9:PRO:HB3	2.18	0.43
85:AA:1253:G:H3'	85:AA:1254:A:H5"	2.01	0.43
85:AA:1009:G:N2	85:AA:1094:G:C4	2.87	0.43
85:AA:1094:G:C4	85:AA:1095:C:C6	3.07	0.43
34:BA:988:U:C5	34:BA:989:C:C5	3.06	0.43
85:AA:1937:G:N1	85:AA:1953:G:C6	2.87	0.43
34:BA:508:C:C5'	34:BA:511:U:C2	3.02	0.43
85:AA:1083:C:C5	85:AA:1084:A:N7	2.86	0.43
34:BA:831:U:H6	34:BA:831:U:O5'	2.02	0.43
35:BB:648:G:C6	35:BB:649:A:N7	2.87	0.43
35:BB:716:G:N2	35:BB:765:G:H1'	2.34	0.43
25:AR:62:TYR:CZ	25:AR:65:CYS:HB2	2.54	0.43
35:BB:1056:A:C6	35:BB:1057:G:C6	3.06	0.43
85:AA:1593:C:C4	85:AA:1883:C:C2	3.07	0.43
85:AA:1887:G:C8	85:AA:1887:G:H5'	2.54	0.43
85:AA:731:U:H3	85:AA:773:G:H22	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:755:A:C2	35:BB:756:C:C6	3.06	0.43
35:BB:756:C:H5	35:BB:757:C:C6	2.37	0.43
35:BB:543:G:C6	35:BB:544:C:N3	2.86	0.43
49:BP:164:VAL:C	49:BP:167:ALA:H	2.22	0.43
38:BE:174:U:C6	38:BE:174:U:O5'	2.71	0.43
48:BO:150:ASN:N	48:BO:150:ASN:HD22	2.17	0.43
85:AA:1633:A:C2	85:AA:1635:C:H1'	2.54	0.43
34:BA:1383:U:H3'	34:BA:1384:G:H8	1.84	0.43
85:AA:1980:A:H4'	85:AA:1981:A:OP1	2.18	0.43
6:A5:88:ASN:HD22	6:A5:88:ASN:H	1.67	0.43
7:A6:110:THR:HA	7:A6:121:VAL:HG12	1.99	0.43
35:BB:733:G:N7	35:BB:734:A:C8	2.87	0.43
34:BA:1014:A:N1	34:BA:1016:A:C5	2.87	0.43
34:BA:1113:A:H61	34:BA:1145:U:H3	1.66	0.43
34:BA:1230:G:H2'	34:BA:1231:C:O4'	2.19	0.43
34:BA:127:U:H2'	34:BA:128:C:N1	2.34	0.43
34:BA:1535:G:C2	34:BA:1537:G:C8	3.07	0.43
34:BA:1648:G:H5'	34:BA:1648:G:N9	2.32	0.43
34:BA:1683:C:H2'	34:BA:1684:A:C8	2.54	0.43
34:BA:1727:A:O4'	57:BX:54:PHE:CD2	2.72	0.43
34:BA:1735:G:C2'	34:BA:1736:A:C8	2.99	0.43
34:BA:176:G:C6	34:BA:177:G:N7	2.87	0.43
34:BA:37:A:C4	34:BA:1036:G:C6	3.06	0.43
34:BA:108:A:C6	34:BA:386:A:N9	2.87	0.43
34:BA:447:U:C2	34:BA:448:U:C4	3.07	0.43
34:BA:74:A:C4	34:BA:75:U:C6	3.07	0.43
34:BA:774:A:C3'	34:BA:774:A:C8	3.00	0.43
34:BA:800:G:H3'	34:BA:801:U:C6	2.54	0.43
34:BA:824:C:C4'	42:BI:142:ASN:H	2.31	0.43
34:BA:827:A:N3	34:BA:841:G:C2	2.87	0.43
34:BA:816:G:N1	34:BA:855:C:C2	2.87	0.43
34:BA:860:G:O2'	34:BA:861:C:H5'	2.18	0.43
35:BB:1151:A:C5	35:BB:1153:G:C4	3.07	0.43
35:BB:117:A:H5'	35:BB:118:A:OP2	2.19	0.43
35:BB:127:U:N3	35:BB:128:C:C5	2.87	0.43
35:BB:1315:C:C2	35:BB:1316:U:C5	3.07	0.43
35:BB:1316:U:H3'	35:BB:1317:U:C5	2.54	0.43
35:BB:19:C:N3	35:BB:20:U:C5	2.87	0.43
34:BA:1741:G:H1'	35:BB:2:C:OP2	2.18	0.43
35:BB:482:A:C2'	35:BB:483:C:H5'	2.48	0.43
35:BB:497:C:C4	35:BB:498:G:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:603:U:C5	35:BB:604:C:C4	3.07	0.43
35:BB:662:G:H2'	35:BB:663:G:O4'	2.19	0.43
35:BB:692:G:C6	35:BB:693:U:O4	2.72	0.43
35:BB:707:G:H2'	35:BB:708:C:C6	2.54	0.43
34:BA:986:G:O2'	35:BB:76:C:C6	2.72	0.43
34:BA:397:A:N1	36:BC:31:A:N9	2.66	0.43
37:BD:37:G:C5	37:BD:38:U:C5	3.06	0.43
37:BD:46:G:C2	37:BD:47:U:C5	3.07	0.43
37:BD:8:A:C5	37:BD:9:C:C4	3.07	0.43
38:BE:100:U:C4	38:BE:119:U:C2	3.07	0.43
38:BE:1:U:N1	38:BE:12:A:H1'	2.34	0.43
38:BE:149:A:H2	38:BE:164:C:O2	2.00	0.43
38:BE:84:U:C5	38:BE:85:G:N3	2.87	0.43
39:BF:22:U:O2'	39:BF:23:G:H5'	2.18	0.43
40:BG:26:G:C5	40:BG:27:C:C4	3.07	0.43
40:BG:30:C:N3	40:BG:31:G:C8	2.87	0.43
40:BG:46:G:OP2	56:BW:9:LYS:HD3	2.18	0.43
40:BG:3:G:C2	40:BG:4:A:C4	3.07	0.43
41:BH:5:G:C4	41:BH:6:U:C6	3.07	0.43
41:BH:70:U:H2'	41:BH:71:C:O4'	2.19	0.43
43:BJ:52:LEU:HD12	43:BJ:152:VAL:HG11	2.01	0.43
44:BK:35:ASP:CG	44:BK:86:HIS:CE1	2.92	0.43
47:BN:185:LYS:C	47:BN:186:MET:SD	2.97	0.43
34:BA:1299:G:OP1	49:BP:52:ASN:CG	2.57	0.43
54:BU:7:TYR:HA	54:BU:54:HIS:CE1	2.54	0.43
58:BY:57:ARG:O	58:BY:60:ARG:HG2	2.18	0.43
34:BA:546:U:OP2	34:BA:546:U:C5	2.72	0.43
4:A3:194:LYS:HD2	85:AA:332:A:C8	2.53	0.43
7:A6:2:ARG:N	85:AA:446:C:OP2	2.52	0.43
85:AA:1279:A:OP2	85:AA:1280:U:H6	2.01	0.43
85:AA:132:G:C6	85:AA:133:G:C5	3.07	0.43
85:AA:136:U:C3'	85:AA:136:U:C6	3.01	0.43
85:AA:1508:A:N1	85:AA:1509:A:C2	2.87	0.43
85:AA:2128:G:C2'	85:AA:2129:U:H5'	2.49	0.43
85:AA:2129:U:H2'	85:AA:2130:G:O4'	2.19	0.43
85:AA:2185:U:C2	85:AA:2186:U:C6	3.07	0.43
85:AA:2195:A:H2'	85:AA:2196:G:C8	2.54	0.43
85:AA:253:C:O2	85:AA:329:G:C4	2.72	0.43
85:AA:450:A:H2'	85:AA:451:G:C8	2.54	0.43
85:AA:456:A:C2	85:AA:457:G:N9	2.86	0.43
85:AA:468:A:H3'	85:AA:468:A:OP1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AY:59:LYS:HE2	85:AA:624:A:H2	1.84	0.43
85:AA:642:G:C4	85:AA:643:C:C5	3.07	0.43
85:AA:669:G:C4	85:AA:670:C:C5	3.06	0.43
34:BA:610:A:H2'	34:BA:611:A:C8	2.53	0.43
35:BB:796:C:C5	35:BB:978:C:OP1	2.72	0.43
35:BB:804:U:C6	35:BB:805:G:H1'	2.54	0.43
35:BB:839:G:C4	35:BB:978:C:O2	2.71	0.43
35:BB:471:U:C2	35:BB:507:G:C2	3.06	0.43
35:BB:519:A:C6	35:BB:520:G:C5	3.07	0.43
85:AA:1105:G:C2	85:AA:1106:A:C6	3.06	0.43
85:AA:938:A:H3'	85:AA:938:A:OP2	2.19	0.43
85:AA:1546:G:C6	85:AA:2041:G:H8	2.36	0.43
85:AA:1660:U:H2'	85:AA:1661:U:C2	2.54	0.43
85:AA:1877:G:C8	85:AA:1877:G:O5'	2.72	0.43
85:AA:1877:G:H3'	85:AA:1878:C:C6	2.54	0.43
85:AA:2046:G:C4	85:AA:2047:U:C5	3.06	0.43
34:BA:263:G:O6	34:BA:273:G:C5	2.72	0.43
34:BA:266:G:N1	34:BA:277:A:C4	2.87	0.43
34:BA:720:A:C2	35:BB:639:A:C4	3.06	0.43
27:AT:7:LYS:C	27:AT:37:TRP:HA	2.39	0.43
35:BB:1512:C:H6	35:BB:1512:C:C5'	2.32	0.43
35:BB:1514:G:O5'	35:BB:1514:G:C8	2.71	0.43
85:AA:235:U:C6	85:AA:237:G:O6	2.72	0.43
85:AA:249:C:C2'	85:AA:250:C:H6	2.28	0.43
41:BH:23:G:O5'	41:BH:23:G:H8	2.00	0.43
85:AA:2224:U:H2'	85:AA:2225:G:C8	2.53	0.43
85:AA:310:U:H3	85:AA:316:C:N4	2.06	0.43
85:AA:317:A:C4	85:AA:318:A:C8	3.07	0.43
85:AA:2178:A:C2	85:AA:2179:C:N1	2.87	0.43
85:AA:573:U:C2	85:AA:574:U:C5	3.06	0.43
85:AA:613:G:H4'	85:AA:614:U:H1'	2.01	0.43
32:AY:47:LYS:HG2	85:AA:556:C:H1'	1.99	0.43
85:AA:2083:G:H2'	85:AA:2084:U:O4'	2.19	0.43
85:AA:2089:G:H2'	85:AA:2090:C:C5	2.54	0.43
24:AQ:45:VAL:CG1	24:AQ:88:LEU:HD23	2.49	0.43
85:AA:1720:C:H2'	85:AA:1820:G:N2	2.34	0.43
6:A5:49:ARG:CB	85:AA:399:A:H5'	2.48	0.43
85:AA:381:A:N1	85:AA:416:U:N3	2.66	0.43
35:BB:1434:G:H2'	35:BB:1435:G:C8	2.54	0.43
34:BA:1125:G:C4	34:BA:1126:U:C5	3.07	0.43
85:AA:811:A:C2	85:AA:812:C:N3	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:857:G:C2	85:AA:858:G:C8	3.06	0.43
85:AA:860:C:H2'	85:AA:862:U:C5	2.54	0.43
85:AA:813:G:C2	85:AA:865:G:N3	2.86	0.43
39:BF:38:C:H3'	39:BF:39:C:C6	2.54	0.43
85:AA:746:G:N1	85:AA:747:U:C4	2.87	0.43
85:AA:1018:G:N2	85:AA:1019:U:C4	2.86	0.43
34:BA:529:A:C4	34:BA:530:A:N7	2.87	0.43
34:BA:586:G:H2'	34:BA:586:G:N3	2.33	0.43
85:AA:1247:A:C5	85:AA:1248:U:C6	3.07	0.43
85:AA:1256:C:H6	85:AA:1256:C:O5'	2.02	0.43
85:AA:1098:C:C4	85:AA:1099:U:C4	3.07	0.43
23:AP:43:TRP:HZ3	23:AP:74:HIS:CE1	2.36	0.43
35:BB:474:G:C4	35:BB:475:A:C5	3.07	0.43
85:AA:1852:U:C6	85:AA:1854:U:H5'	2.53	0.43
35:BB:461:U:H4'	35:BB:579:A:C6	2.54	0.43
34:BA:513:U:O2	34:BA:514:U:C6	2.71	0.43
34:BA:899:G:C8	34:BA:1032:A:N7	2.87	0.43
85:AA:1142:G:H2'	85:AA:1143:C:C1'	2.49	0.43
85:AA:1167:G:C5	85:AA:1168:C:N4	2.87	0.43
34:BA:830:U:N3	34:BA:831:U:C4	2.87	0.43
35:BB:1177:U:H2'	35:BB:1178:A:H5'	2.01	0.43
35:BB:648:G:H2'	35:BB:649:A:O4'	2.19	0.43
35:BB:1380:G:C6	35:BB:1381:U:C6	3.07	0.43
85:AA:1881:C:C4	85:AA:1882:U:O4	2.72	0.43
34:BA:901:C:C2	34:BA:902:C:C5	3.06	0.43
8:A7:108:HIS:CG	8:A7:112:VAL:HG22	2.54	0.43
34:BA:444:A:C2	34:BA:445:C:H1'	2.53	0.43
44:BK:121:LYS:HB3	44:BK:122:PRO:HD2	1.99	0.43
18:AJ:101:PHE:HB2	18:AJ:129:PHE:CE1	2.54	0.43
8:A7:278:HIS:CG	8:A7:279:GLN:N	2.84	0.43
85:AA:1920:A:OP1	85:AA:1920:A:C8	2.72	0.43
36:BC:165:U:OP1	36:BC:165:U:C6	2.72	0.43
85:AA:1353:U:H3'	85:AA:1354:A:H5'	1.99	0.43
52:BS:11:VAL:HB	52:BS:43:PHE:CE1	2.54	0.43
48:BO:111:LYS:HA	48:BO:114:GLN:OE1	2.18	0.43
7:A6:113:PHE:HA	7:A6:117:LEU:O	2.19	0.43
34:BA:1013:A:H4'	34:BA:1014:A:C5	2.53	0.43
34:BA:1018:U:C4	34:BA:1022:C:N3	2.87	0.43
34:BA:1097:G:H4'	54:BU:14:LEU:HD13	1.99	0.43
34:BA:1193:A:N1	34:BA:1194:G:N1	2.67	0.43
34:BA:1177:C:C2	34:BA:1195:G:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1301:G:C2	34:BA:1302:C:C2	3.07	0.43
34:BA:141:G:C8	34:BA:141:G:H5"	2.54	0.43
34:BA:1468:U:C6	34:BA:1468:U:O5'	2.71	0.43
34:BA:1525:G:C5	34:BA:1526:C:C5	3.07	0.43
34:BA:1623:U:C5	34:BA:1625:C:OP2	2.72	0.43
34:BA:1650:G:C8	34:BA:1652:G:N9	2.87	0.43
34:BA:1671:A:N6	34:BA:1672:C:C4	2.87	0.43
34:BA:1706:A:C5	34:BA:1707:C:C2	3.07	0.43
34:BA:1706:A:N6	34:BA:1723:U:C4	2.86	0.43
34:BA:1724:G:C4	34:BA:1799:G:C6	3.07	0.43
34:BA:23:A:H3'	34:BA:24:C:C6	2.54	0.43
34:BA:27:G:OP2	50:BQ:206:ARG:NH2	2.52	0.43
34:BA:316:G:C5	34:BA:318:U:C5	3.07	0.43
34:BA:321:G:N2	34:BA:322:U:H1'	2.33	0.43
34:BA:400:A:C4	36:BC:28:C:N3	2.87	0.43
34:BA:427:G:N1	34:BA:428:C:C2	2.87	0.43
34:BA:441:A:H2'	34:BA:442:G:OP1	2.19	0.43
34:BA:448:U:O5'	34:BA:448:U:H6	2.01	0.43
34:BA:484:A:C8	34:BA:484:A:H5'	2.53	0.43
34:BA:728:A:C4	35:BB:627:G:C2	3.06	0.43
34:BA:809:U:H2'	34:BA:810:A:C8	2.54	0.43
34:BA:852:C:C2	34:BA:853:A:C8	3.06	0.43
34:BA:857:C:H2'	34:BA:858:C:C5	2.54	0.43
34:BA:935:A:C5	34:BA:957:A:C8	3.07	0.43
35:BB:1135:U:H1'	35:BB:1136:G:C2	2.54	0.43
35:BB:115:A:C8	35:BB:117:A:O4'	2.72	0.43
35:BB:1353:G:C2	35:BB:1365:G:C5	3.07	0.43
34:BA:1603:A:C4	35:BB:33:A:C6	3.07	0.43
35:BB:45:A:H3'	35:BB:46:U:C6	2.53	0.43
35:BB:491:A:OP2	35:BB:492:U:C4	2.72	0.43
35:BB:493:U:O5'	35:BB:493:U:H6	2.02	0.43
35:BB:58:G:H2'	35:BB:59:U:O4'	2.19	0.43
35:BB:680:A:H2'	35:BB:681:G:H8	1.83	0.43
35:BB:72:G:N2	35:BB:73:G:H1'	2.33	0.43
34:BA:15:G:N1	36:BC:153:C:N3	2.67	0.43
34:BA:8:G:C6	36:BC:163:A:N1	2.87	0.43
36:BC:17:U:C6	36:BC:17:U:O5'	2.72	0.43
36:BC:43:A:N3	36:BC:43:A:H2'	2.34	0.43
36:BC:61:A:C8	36:BC:61:A:OP2	2.72	0.43
36:BC:64:U:H2'	36:BC:64:U:O2	2.17	0.43
37:BD:23:A:C8	37:BD:23:A:C3'	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:189:A:C2	48:BO:50:LYS:HG2	125.71	0.43
38:BE:193:A:C4	38:BE:194:A:C5	3.07	0.43
38:BE:5:A:C6	38:BE:6:A:N6	2.87	0.43
39:BF:18:U:H6	39:BF:18:U:P	2.42	0.43
39:BF:8:C:H3'	39:BF:10:A:N7	2.34	0.43
40:BG:27:C:H2'	40:BG:28:A:O4'	2.18	0.43
40:BG:4:A:H2'	40:BG:5:G:O4'	2.18	0.43
40:BG:72:G:C6	40:BG:73:U:O4	2.72	0.43
41:BH:103:C:N3	41:BH:104:U:C6	2.87	0.43
41:BH:116:A:H3'	41:BH:117:U:C2	2.54	0.43
41:BH:119:U:H2'	41:BH:120:C:O4'	2.18	0.43
41:BH:39:G:N3	41:BH:113:G:N2	2.67	0.43
41:BH:59:G:H3'	41:BH:60:A:C5'	2.49	0.43
41:BH:69:C:C4	41:BH:70:U:C4	3.07	0.43
44:BK:68:ALA:HA	44:BK:158:LYS:HG3	2.01	0.43
34:BA:63:A:C6	47:BN:105:ARG:NE	2.87	0.43
34:BA:739:A:H1'	47:BN:13:GLN:H	1.84	0.43
48:BO:71:LYS:O	48:BO:74:GLN:HG2	2.18	0.43
39:BF:64:U:O4	49:BP:123:TRP:CE3	2.72	0.43
36:BC:12:A:OP1	51:BR:2:VAL:HG13	2.19	0.43
53:BT:117:ARG:O	53:BT:120:TYR:HB3	2.19	0.43
54:BU:3:HIS:O	54:BU:5:HIS:CD2	2.72	0.43
34:BA:405:C:H42	59:BZ:10:ARG:NH2	2.17	0.43
34:BA:568:G:N2	34:BA:569:C:H1'	2.34	0.43
85:AA:1484:G:C5	85:AA:1485:G:C5	3.07	0.43
85:AA:177:A:O2'	85:AA:178:U:H5'	2.19	0.43
85:AA:2129:U:N3	85:AA:2130:G:C4	2.87	0.43
85:AA:372:U:C4	85:AA:373:G:C5	3.07	0.43
85:AA:457:G:N1	85:AA:458:C:C5	2.87	0.43
85:AA:488:G:OP2	85:AA:488:G:H8	2.02	0.43
85:AA:500:C:N3	85:AA:501:A:C2	2.87	0.43
85:AA:635:G:C2	85:AA:659:A:C4	3.07	0.43
85:AA:679:A:C5'	85:AA:680:U:H3'	2.49	0.43
85:AA:680:U:C6	85:AA:682:C:C3'	3.02	0.43
85:AA:6:G:C4	85:AA:19:A:C2	3.07	0.43
85:AA:91:U:C6	85:AA:92:G:H5'	2.54	0.43
34:BA:632:U:C2	34:BA:633:G:C8	3.07	0.43
35:BB:837:A:C5'	35:BB:1026:G:C4	2.95	0.43
35:BB:813:C:C2	35:BB:814:A:C8	3.07	0.43
35:BB:836:U:H2'	35:BB:837:A:N9	2.33	0.43
35:BB:846:A:C6	35:BB:847:U:H1'	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:997:U:C3'	85:AA:998:U:H5'	2.48	0.43
85:AA:709:A:C4	85:AA:1112:G:C2	3.06	0.43
85:AA:1203:G:H2'	85:AA:1204:A:C8	2.53	0.43
85:AA:2109:G:C2	85:AA:2211:G:C2	3.07	0.43
35:BB:519:A:C2	35:BB:532:C:C2	3.06	0.43
85:AA:871:U:H2'	85:AA:872:U:H6	1.83	0.43
85:AA:944:C:O5'	85:AA:945:A:H3'	2.18	0.43
13:AE:171:PHE:HB2	85:AA:942:A:H2'	2.01	0.43
21:AM:25:ARG:NH1	21:AM:29:PHE:HB2	2.34	0.43
40:BG:140:G:C2	40:BG:149:U:C5	3.06	0.43
34:BA:257:G:N1	34:BA:258:C:C4	2.87	0.43
34:BA:197:A:C2'	34:BA:280:A:H61	2.20	0.43
34:BA:281:C:C4	34:BA:288:U:C5	3.06	0.43
34:BA:1241:U:C4	34:BA:1242:A:C5	3.07	0.43
35:BB:1519:U:C2	35:BB:1520:C:C6	3.07	0.43
35:BB:1520:C:C2	35:BB:1521:G:C8	3.07	0.43
35:BB:1524:G:N2	35:BB:1525:G:C4	2.87	0.43
85:AA:1681:G:C5	85:AA:1682:U:C4	3.06	0.43
85:AA:1701:G:H2'	85:AA:1701:G:N3	2.33	0.43
85:AA:967:C:N3	85:AA:968:U:C5	2.87	0.43
85:AA:2052:U:C5	85:AA:2077:G:N1	2.87	0.43
85:AA:790:A:H4'	85:AA:791:C:OP1	2.19	0.43
85:AA:892:C:C2	85:AA:900:G:C2	3.07	0.43
85:AA:902:A:H2'	85:AA:903:G:O4'	2.19	0.43
85:AA:362:G:N1	85:AA:363:A:N1	2.67	0.43
85:AA:115:U:C2	85:AA:365:G:C2	3.06	0.43
15:AG:20:ARG:HH12	85:AA:1110:A:C5'	2.32	0.43
34:BA:1137:U:H6	34:BA:1137:U:O5'	2.02	0.43
85:AA:741:G:C2	85:AA:766:G:O6	2.72	0.43
85:AA:1016:G:C5	85:AA:1018:G:C2	3.07	0.43
85:AA:1812:C:H2'	85:AA:1812:C:O2	2.18	0.43
7:A6:132:HIS:CE1	7:A6:157:PHE:CD1	3.06	0.43
34:BA:1118:C:N3	34:BA:1119:A:C8	2.87	0.43
86:AB:10:G:C2	86:AB:11:C:C2	3.07	0.43
85:AA:1099:U:H2'	85:AA:1100:U:C6	2.54	0.43
35:BB:1203:C:H1'	54:BU:49:ARG:NE	2.33	0.43
35:BB:1482:A:C6	35:BB:1483:A:C5	3.07	0.43
85:AA:1142:G:C2	85:AA:1169:A:C4	3.06	0.43
35:BB:1175:A:C6	35:BB:1177:U:C4	3.07	0.43
35:BB:633:C:O2	35:BB:633:C:H2'	2.19	0.43
85:AA:1731:G:C2	85:AA:1808:G:N7	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1799:C:C6	85:AA:1799:C:O5'	2.72	0.43
3:A2:190:ARG:CG	16:AH:65:TYR:CZ	3.01	0.43
85:AA:1593:C:C2'	85:AA:1883:C:H42	2.31	0.43
85:AA:1373:U:H2'	85:AA:1374:A:C8	2.53	0.43
85:AA:1374:A:C2	85:AA:1430:A:N3	2.87	0.43
1:A0:202:ARG:NH2	85:AA:1435:C:N3	2.63	0.43
8:A7:151:HIS:C	8:A7:153:ASP:H	2.22	0.43
35:BB:543:G:C4	35:BB:544:C:C5	3.07	0.43
4:A3:240:ARG:HH21	85:AA:297:A:P	2.42	0.43
49:BP:165:GLU:H	49:BP:165:GLU:HG2	1.53	0.43
35:BB:345:U:C5	35:BB:346:U:C6	3.07	0.43
2:A1:96:PHE:HA	2:A1:110:ARG:HA	2.01	0.43
23:AP:236:THR:O	23:AP:240:TRP:CD1	2.72	0.43
26:AS:21:ARG:O	26:AS:27:TRP:CE3	2.71	0.43
4:A3:208:GLU:O	4:A3:212:TYR:HB2	2.19	0.43
21:AM:149:VAL:HG22	85:AA:1899:A:H4'	2.00	0.43
8:A7:158:VAL:HA	8:A7:170:VAL:O	2.18	0.43
25:AR:22:CYS:O	25:AR:24:ALA:N	2.51	0.43
42:BI:149:ARG:HE	42:BI:150:LYS:C	2.22	0.43
6:A5:108:PRO:O	6:A5:112:TRP:HB2	2.18	0.43
49:BP:36:VAL:O	49:BP:50:VAL:HA	2.18	0.43
11:AC:166:ASP:O	11:AC:170:LEU:HD12	2.19	0.43
16:AH:119:ILE:H	29:AV:58:ALA:HB1	1.84	0.43
45:BL:15:PRO:HD2	45:BL:17:ARG:HG2	2.01	0.43
59:BZ:66:ARG:CZ	59:BZ:68:THR:HA	2.49	0.43
34:BA:1007:G:H4'	34:BA:1008:A:H5"	2.01	0.42
34:BA:1054:U:O2	34:BA:1066:A:H1'	2.19	0.42
34:BA:1153:C:C4	34:BA:1154:U:C4	3.06	0.42
34:BA:1221:A:C6	34:BA:1222:C:N4	2.88	0.42
34:BA:1284:G:C2	34:BA:1285:G:C8	3.07	0.42
34:BA:1298:U:C4	34:BA:1444:G:H5'	2.54	0.42
34:BA:1517:U:C4	34:BA:1518:A:C5	3.07	0.42
34:BA:1520:A:H2'	34:BA:1521:C:C6	2.54	0.42
34:BA:403:A:N3	34:BA:1531:G:H1'	2.34	0.42
34:BA:1532:G:C6	34:BA:1533:G:C5	3.07	0.42
34:BA:1554:C:C5	34:BA:1555:G:N7	2.87	0.42
34:BA:1578:A:C2	34:BA:1580:U:C6	3.07	0.42
34:BA:1644:A:C5	35:BB:60:A:C6	3.07	0.42
34:BA:1648:G:C5	35:BB:42:A:C5	3.06	0.42
34:BA:1671:A:C6	34:BA:1672:C:C4	3.07	0.42
34:BA:1822:U:C4	34:BA:1823:A:N1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1826:C:N3	34:BA:1827:C:C5	2.87	0.42
34:BA:1843:G:H2'	34:BA:1844:U:C6	2.54	0.42
34:BA:237:A:H2'	34:BA:238:C:C6	2.54	0.42
34:BA:26:C:C2	34:BA:53:G:N2	2.87	0.42
34:BA:364:C:C2	34:BA:365:A:C8	3.07	0.42
34:BA:385:U:H6	34:BA:385:U:O5'	2.01	0.42
34:BA:416:A:H2	36:BC:53:A:H1'	1.83	0.42
34:BA:457:A:H2'	34:BA:458:G:C8	2.54	0.42
34:BA:469:C:H5'	34:BA:470:C:OP2	2.19	0.42
34:BA:487:A:C6	35:BB:651:G:C4	3.07	0.42
34:BA:793:A:OP2	34:BA:794:G:C8	2.72	0.42
34:BA:874:G:H2'	34:BA:875:G:O4'	2.19	0.42
35:BB:1081:U:O4	35:BB:1082:A:C2	2.72	0.42
35:BB:1128:U:C2	35:BB:1129:C:C5	3.07	0.42
35:BB:1138:A:C4	35:BB:1149:A:N6	2.87	0.42
35:BB:1219:A:C5	35:BB:1220:A:C4	3.07	0.42
35:BB:1334:C:H2'	35:BB:1335:G:C8	2.54	0.42
34:BA:1420:A:C4	35:BB:1345:A:N7	2.87	0.42
35:BB:1360:A:H2'	35:BB:1361:A:O4'	2.19	0.42
35:BB:483:C:C4	35:BB:484:G:N7	2.87	0.42
35:BB:618:U:H2'	35:BB:619:A:H8	1.83	0.42
35:BB:652:G:N1	40:BG:172:C:N3	2.67	0.42
35:BB:71:A:C4	35:BB:72:G:C8	3.07	0.42
36:BC:101:U:C5	36:BC:102:G:C5	3.06	0.42
36:BC:102:G:C6	36:BC:104:A:C2	3.07	0.42
36:BC:106:G:C4	36:BC:115:G:C6	3.07	0.42
36:BC:115:G:C6	36:BC:116:C:C4	3.07	0.42
36:BC:127:C:C2	36:BC:128:U:C6	3.07	0.42
36:BC:38:U:H4'	36:BC:39:G:OP2	2.20	0.42
36:BC:52:A:C6	36:BC:53:A:C4	3.07	0.42
37:BD:101:A:H8	37:BD:101:A:O5'	2.02	0.42
37:BD:105:G:C2	37:BD:106:G:C4	3.07	0.42
37:BD:80:G:C2	37:BD:97:U:C2	3.07	0.42
38:BE:161:G:C6	38:BE:162:U:C4	3.07	0.42
38:BE:3:G:N2	38:BE:5:A:H3'	2.34	0.42
38:BE:48:G:N1	38:BE:49:A:C6	2.87	0.42
39:BF:9:C:N4	39:BF:18:U:C5	2.87	0.42
40:BG:36:G:C4	40:BG:37:G:C8	3.06	0.42
40:BG:9:G:C2	40:BG:15:G:N2	2.87	0.42
41:BH:107:A:C5	41:BH:108:U:C4	3.07	0.42
41:BH:119:U:C2	41:BH:120:C:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:131:A:C8	41:BH:132:C:C5	3.07	0.42
34:BA:1144:A:H2	44:BK:193:ARG:HE	1.67	0.42
44:BK:37:GLY:HA3	44:BK:86:HIS:HA	2.01	0.42
48:BO:25:ILE:O	48:BO:51:ILE:HA	2.19	0.42
38:BE:106:C:C5	53:BT:121:ARG:NH1	2.87	0.42
21:AM:13:ILE:O	21:AM:13:ILE:HG23	2.19	0.42
85:AA:107:A:H5'	85:AA:923:A:H1'	2.01	0.42
85:AA:50:C:O2	85:AA:495:G:C2	2.72	0.42
85:AA:496:C:C6	85:AA:496:C:O5'	2.71	0.42
85:AA:629:A:C5	85:AA:630:A:N1	2.87	0.42
85:AA:675:A:C6	85:AA:676:U:C4	3.07	0.42
34:BA:669:U:C4	34:BA:670:U:C5	3.07	0.42
35:BB:808:U:C5	35:BB:809:U:N1	2.86	0.42
35:BB:809:U:O4	35:BB:830:G:N1	2.51	0.42
85:AA:959:C:C6	85:AA:960:G:C6	3.07	0.42
35:BB:536:U:C6	35:BB:539:G:C2	3.07	0.42
85:AA:880:A:C5	85:AA:881:C:C5	3.07	0.42
85:AA:1863:A:N6	85:AA:1864:G:C6	2.87	0.42
85:AA:1869:U:C6	85:AA:1869:U:OP2	2.71	0.42
31:AX:178:ALA:HB2	85:AA:653:A:N6	2.34	0.42
34:BA:266:G:C6	34:BA:277:A:C4	3.07	0.42
34:BA:266:G:C2	34:BA:267:G:C4	3.07	0.42
34:BA:262:A:H1'	34:BA:279:U:C4	2.54	0.42
34:BA:521:C:C4	34:BA:522:C:C2	3.07	0.42
35:BB:672:C:C5	35:BB:673:C:C4	3.06	0.42
34:BA:1697:U:OP2	34:BA:1697:U:C6	2.66	0.42
34:BA:1489:U:C4	34:BA:1490:U:H1'	2.54	0.42
85:AA:590:U:C5	85:AA:601:A:N6	2.87	0.42
27:AT:37:TRP:NE1	85:AA:604:C:C2	2.87	0.42
35:BB:1514:G:C4	35:BB:1515:C:C6	3.07	0.42
85:AA:244:G:H2'	85:AA:245:A:O4'	2.19	0.42
35:BB:361:A:C8	35:BB:361:A:OP2	2.72	0.42
85:AA:11:A:N1	85:AA:1521:U:C2	2.87	0.42
85:AA:1520:A:H8	85:AA:1520:A:H5"	1.84	0.42
85:AA:1696:U:N3	85:AA:1697:C:C2	2.87	0.42
85:AA:1702:G:H2'	85:AA:1702:G:N3	2.33	0.42
85:AA:2213:A:H2'	85:AA:2214:A:C5'	2.49	0.42
51:BR:57:CYS:SG	51:BR:83:TRP:CE2	3.05	0.42
85:AA:314:C:H4'	85:AA:315:U:OP2	2.18	0.42
85:AA:2174:G:O5'	85:AA:2174:G:H8	2.02	0.42
85:AA:268:A:C8	85:AA:269:G:C5'	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:274:A:C4	85:AA:975:G:N1	2.87	0.42
85:AA:976:G:C6	85:AA:977:U:C5	3.07	0.42
85:AA:882:C:H3'	85:AA:883:A:H8	1.84	0.42
85:AA:561:C:C5	85:AA:562:C:N3	2.86	0.42
85:AA:583:U:C6	85:AA:583:U:O5'	2.72	0.42
3:A2:43:GLN:HE22	85:AA:2050:C:H2'	1.83	0.42
85:AA:1923:A:N7	85:AA:1990:U:C2	2.86	0.42
54:BU:150:THR:HB	54:BU:153:TYR:CD2	2.54	0.42
24:AQ:114:PRO:C	24:AQ:115:HIS:CG	2.91	0.42
85:AA:381:A:N6	85:AA:416:U:C2	2.87	0.42
85:AA:1148:G:C8	85:AA:1148:G:H3'	2.53	0.42
35:BB:1208:G:C2	35:BB:1253:U:H2'	2.54	0.42
85:AA:352:G:N1	85:AA:353:G:C5	2.86	0.42
34:BA:1040:G:C5	34:BA:1041:U:N3	2.87	0.42
34:BA:923:C:H1'	34:BA:1001:G:N2	2.34	0.42
35:BB:554:C:N4	35:BB:565:U:C4	2.87	0.42
39:BF:36:G:C5	39:BF:48:G:N1	2.86	0.42
39:BF:51:C:O2	39:BF:52:A:C8	2.68	0.42
85:AA:1361:A:C5	85:AA:1362:A:C5	3.07	0.42
85:AA:1832:G:C8	85:AA:1832:G:H3'	2.52	0.42
34:BA:1702:G:C4	34:BA:1703:A:C5	3.06	0.42
35:BB:461:U:C6	35:BB:461:U:OP2	2.72	0.42
35:BB:874:G:N1	35:BB:961:G:C6	2.87	0.42
85:AA:205:A:C5	85:AA:205:A:OP2	2.72	0.42
34:BA:836:U:H3'	34:BA:837:U:C6	2.54	0.42
34:BA:1015:G:C5	34:BA:1023:G:C5	3.06	0.42
35:BB:716:G:C8	35:BB:718:G:C6	3.07	0.42
5:A4:192:TRP:HA	85:AA:1356:U:C5'	2.49	0.42
42:BI:114:LYS:HG3	42:BI:115:SER:N	2.32	0.42
35:BB:756:C:N4	35:BB:757:C:C2	2.87	0.42
86:AB:7:A:C2	86:AB:67:C:C2	3.07	0.42
35:BB:462:G:C4	35:BB:463:C:C5	3.07	0.42
35:BB:462:G:H2'	35:BB:463:C:H6	1.83	0.42
40:BG:115:C:H2'	40:BG:116:G:C8	2.54	0.42
34:BA:1084:A:C6	34:BA:1085:G:C6	3.07	0.42
34:BA:1316:G:C5	34:BA:1317:U:O4	2.72	0.42
85:AA:1651:C:C2	85:AA:1866:A:C5	3.06	0.42
4:A3:167:LYS:HB2	4:A3:170:LYS:CB	2.48	0.42
8:A7:108:HIS:CE1	8:A7:126:SER:OG	2.72	0.42
34:BA:1076:U:C4	34:BA:1077:G:N7	2.86	0.42
35:BB:552:C:C2	35:BB:553:U:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:927:A:N1	34:BA:928:C:C4	2.87	0.42
6:A5:156:SER:O	6:A5:159:LYS:CB	2.67	0.42
34:BA:445:C:H6	34:BA:445:C:O5'	2.02	0.42
85:AA:1980:A:O2'	85:AA:1981:A:C8	2.63	0.42
13:AE:58:PHE:N	13:AE:58:PHE:CD2	2.85	0.42
59:BZ:71:TYR:CE2	59:BZ:74:LYS:HB2	2.54	0.42
7:A6:19:GLU:HB3	7:A6:22:ARG:HB3	2.01	0.42
50:BQ:75:GLY:O	50:BQ:152:VAL:HA	2.18	0.42
48:BO:100:ARG:HD3	48:BO:100:ARG:O	2.19	0.42
51:BR:41:LEU:H	51:BR:41:LEU:HD23	1.84	0.42
48:BO:159:ASN:OD1	48:BO:159:ASN:N	2.50	0.42
55:BV:113:GLY:C	55:BV:115:ASP:H	2.22	0.42
1:A0:163:VAL:HA	1:A0:166:VAL:HG22	2.01	0.42
22:AO:142:LYS:O	22:AO:145:ARG:HG3	2.19	0.42
85:AA:2153:G:C4	85:AA:2154:C:C6	3.06	0.42
85:AA:2167:A:C6	85:AA:2168:C:C5	3.07	0.42
34:BA:62:A:C6	34:BA:109:A:C8	3.07	0.42
34:BA:62:A:H5"	34:BA:109:A:H62	1.83	0.42
34:BA:1146:U:H2'	34:BA:1147:C:C6	2.54	0.42
34:BA:1177:C:H6	34:BA:1177:C:O5'	2.01	0.42
34:BA:126:G:O5'	34:BA:126:G:H8	2.03	0.42
34:BA:12:G:N3	34:BA:13:U:C6	2.87	0.42
34:BA:1320:A:C5	34:BA:1419:A:C6	3.06	0.42
34:BA:141:G:C6	34:BA:142:A:N6	2.87	0.42
34:BA:1433:U:O4'	34:BA:1435:A:C4	2.72	0.42
34:BA:1438:C:H2'	34:BA:1439:C:C6	2.55	0.42
34:BA:1452:U:C6	34:BA:1452:U:H5"	2.53	0.42
34:BA:1496:G:O5'	34:BA:1497:A:C8	2.72	0.42
34:BA:1533:G:C8	34:BA:1534:U:C5	3.07	0.42
34:BA:154:A:C6	34:BA:155:U:C2	3.08	0.42
34:BA:1614:G:C4	34:BA:1634:A:N6	2.87	0.42
34:BA:1614:G:N1	34:BA:1634:A:C5	2.87	0.42
34:BA:1802:C:C2	34:BA:1803:A:C8	3.07	0.42
34:BA:224:G:C2	34:BA:225:A:N1	2.87	0.42
34:BA:336:A:C2	34:BA:354:G:C2	3.07	0.42
34:BA:442:G:C2	34:BA:467:A:C4	3.07	0.42
34:BA:45:A:O4'	34:BA:47:U:C6	2.73	0.42
34:BA:699:G:C8	34:BA:699:G:O5'	2.72	0.42
34:BA:827:A:C2	34:BA:828:A:C5	3.07	0.42
34:BA:816:G:N1	34:BA:854:A:C2	2.87	0.42
34:BA:88:C:H2'	34:BA:89:G:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:92:G:C6	34:BA:93:A:N1	2.87	0.42
35:BB:1077:C:C2	35:BB:1078:U:C5	3.07	0.42
35:BB:1100:C:H1'	35:BB:1141:A:C2	2.54	0.42
35:BB:1219:A:H2'	35:BB:1220:A:C8	2.52	0.42
34:BA:375:C:C2	35:BB:1236:A:N1	2.88	0.42
35:BB:1297:G:H2'	35:BB:1298:C:O4'	2.18	0.42
35:BB:1296:A:N6	35:BB:1309:A:C8	2.87	0.42
35:BB:1340:U:C2	35:BB:1341:U:C5	3.07	0.42
35:BB:1459:U:H4'	35:BB:1461:C:C5	2.53	0.42
35:BB:30:A:C6	35:BB:32:C:O2	2.72	0.42
35:BB:387:G:C2	35:BB:388:C:H1'	2.54	0.42
36:BC:132:U:C6	36:BC:133:C:C6	3.07	0.42
34:BA:14:G:N1	36:BC:153:C:C2	2.87	0.42
36:BC:40:A:C6	36:BC:103:A:N3	2.86	0.42
36:BC:52:A:C5	36:BC:53:A:C8	3.06	0.42
36:BC:96:A:H2'	36:BC:97:U:C5	2.53	0.42
37:BD:107:G:C4	37:BD:108:G:C8	3.07	0.42
37:BD:12:U:H3	37:BD:108:G:HO2'	1.66	0.42
37:BD:15:U:C4	37:BD:16:U:C5	3.07	0.42
37:BD:16:U:C4	37:BD:17:G:N7	2.87	0.42
37:BD:82:G:H2'	37:BD:84:U:H5	1.84	0.42
38:BE:104:G:H2'	38:BE:105:A:O4'	2.19	0.42
38:BE:131:C:C2	38:BE:132:U:C5	3.07	0.42
38:BE:153:C:C5	38:BE:154:A:N9	2.86	0.42
38:BE:68:U:H2'	38:BE:69:C:C5	2.53	0.42
40:BG:103:C:H2'	40:BG:104:A:H8	1.84	0.42
40:BG:159:A:C2	40:BG:160:C:C2	3.06	0.42
40:BG:167:C:C6	40:BG:167:C:H5'	2.54	0.42
35:BB:1464:G:O6	40:BG:24:A:H5'	2.15	0.42
40:BG:36:G:C8	40:BG:36:G:H3'	2.54	0.42
40:BG:44:G:C2	40:BG:45:G:C4	3.07	0.42
40:BG:44:G:N1	40:BG:67:A:C5	2.86	0.42
40:BG:6:A:C2	40:BG:7:U:C2	3.07	0.42
41:BH:38:G:C2	41:BH:114:G:C4	3.07	0.42
34:BA:1224:A:C1'	47:BN:5:ASN:HD22	2.32	0.42
48:BO:88:PRO:O	48:BO:90:HIS:CE1	2.72	0.42
34:BA:548:G:H1'	34:BA:560:U:C4	2.54	0.42
85:AA:1231:G:H2'	85:AA:1232:U:C6	2.54	0.42
85:AA:156:G:N1	85:AA:157:G:C4	2.87	0.42
85:AA:2126:U:O2'	85:AA:2127:G:H5'	2.19	0.42
85:AA:2185:U:C4	85:AA:2186:U:C5	3.06	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2196:G:O5'	85:AA:2196:G:H8	2.02	0.42
85:AA:30:G:C5	85:AA:31:C:C5	3.07	0.42
85:AA:479:C:H42	85:AA:485:A:N6	2.18	0.42
27:AT:135:LYS:HD2	85:AA:54:C:OP2	2.18	0.42
85:AA:596:A:C6	85:AA:597:A:C5	3.07	0.42
85:AA:99:U:H2'	85:AA:100:A:H8	1.83	0.42
34:BA:620:C:C5	34:BA:621:G:N7	2.88	0.42
35:BB:837:A:C4'	35:BB:1026:G:C6	3.03	0.42
35:BB:798:A:H3'	35:BB:976:U:OP1	2.19	0.42
35:BB:804:U:C6	35:BB:805:G:O4'	2.72	0.42
35:BB:805:G:H5'	35:BB:806:U:OP1	2.19	0.42
35:BB:836:U:C3'	35:BB:837:A:C8	3.01	0.42
85:AA:1117:G:C5	85:AA:1118:U:C5	3.07	0.42
85:AA:1121:U:H3'	85:AA:1122:U:C6	2.55	0.42
35:BB:1195:A:C8	35:BB:1195:A:C3'	3.00	0.42
85:AA:1134:G:N2	85:AA:1177:G:H1'	2.34	0.42
85:AA:1547:G:N3	85:AA:1547:G:H2'	2.34	0.42
85:AA:1585:A:C8	85:AA:1585:A:C3'	3.03	0.42
85:AA:2009:A:N3	85:AA:2009:A:H2'	2.34	0.42
40:BG:139:U:O4	40:BG:149:U:H5	2.02	0.42
34:BA:191:G:C2	34:BA:293:A:N3	2.87	0.42
34:BA:1208:U:H4'	34:BA:1209:A:C8	2.54	0.42
34:BA:1038:U:H4'	35:BB:1273:G:OP1	2.18	0.42
34:BA:1246:G:O6	34:BA:1247:G:C5	2.72	0.42
34:BA:726:G:C5	34:BA:727:G:N7	2.87	0.42
85:AA:605:A:H2'	85:AA:607:U:OP1	2.19	0.42
35:BB:1508:G:H2'	35:BB:1509:G:O4'	2.19	0.42
35:BB:1514:G:C2	35:BB:1515:C:C2	3.06	0.42
41:BH:15:A:H3'	41:BH:16:A:H8	1.82	0.42
23:AP:99:ALA:HB2	85:AA:10:G:H1'	2.01	0.42
85:AA:2237:G:C5	85:AA:2238:C:C5	3.07	0.42
85:AA:111:A:N6	85:AA:314:C:C4	2.88	0.42
85:AA:2146:G:N2	85:AA:2172:A:OP2	2.52	0.42
3:A2:46:ARG:HE	33:AZ:84:CYS:H	1.67	0.42
85:AA:774:C:H3'	85:AA:775:C:H6	1.84	0.42
85:AA:887:A:C4	85:AA:889:G:C6	3.07	0.42
34:BA:1343:A:C4	40:BG:144:G:C6	3.08	0.42
85:AA:366:A:H2'	85:AA:367:A:O4'	2.18	0.42
85:AA:368:C:H2'	85:AA:368:C:O2	2.19	0.42
85:AA:410:A:C2	85:AA:411:U:C2	3.08	0.42
13:AE:145:ARG:NE	85:AA:401:U:H4'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:155:A:C6	40:BG:156:G:C5	3.07	0.42
85:AA:439:U:O5'	85:AA:439:U:H6	2.01	0.42
85:AA:1486:G:C6	85:AA:1487:G:C4	3.07	0.42
35:BB:1019:C:H2'	35:BB:1020:U:H6	1.83	0.42
85:AA:69:C:H2'	85:AA:70:U:O5'	2.20	0.42
85:AA:1019:U:H5	85:AA:1052:C:C4	2.37	0.42
85:AA:343:U:O2	85:AA:345:U:H3'	2.19	0.42
34:BA:578:C:O2'	34:BA:579:U:H5"	2.19	0.42
85:AA:1005:C:C4	85:AA:1006:C:C5	3.07	0.42
86:AB:5:G:C4	86:AB:69:G:C2	3.08	0.42
34:BA:1151:A:N1	34:BA:1152:A:N1	2.67	0.42
85:AA:1013:C:C6	85:AA:1053:A:C2	3.07	0.42
35:BB:630:A:N3	35:BB:630:A:H2'	2.34	0.42
48:BO:216:LEU:HD21	49:BP:112:GLN:HG3	2.01	0.42
2:A1:96:PHE:CD2	2:A1:96:PHE:N	2.84	0.42
34:BA:1362:A:C8	34:BA:1389:A:C5'	3.02	0.42
85:AA:2248:A:H5"	85:AA:2248:A:N3	2.33	0.42
37:BD:119:U:H2'	37:BD:119:U:O2	2.18	0.42
13:AE:42:VAL:HG22	85:AA:970:U:H5'	2.01	0.42
30:AW:65:CYS:SG	30:AW:72:ALA:HB1	2.59	0.42
23:AP:191:ALA:HB1	23:AP:193:VAL:HG13	2.00	0.42
2:A1:189:ILE:N	2:A1:241:GLY:HA3	2.34	0.42
85:AA:1353:U:H3'	85:AA:1354:A:C5'	2.48	0.42
85:AA:1316:G:C2	85:AA:1343:G:C4	3.08	0.42
15:AG:64:LYS:HA	15:AG:69:ARG:O	2.19	0.42
29:AV:10:ARG:NE	85:AA:2242:U:OP2	2.52	0.42
7:A6:91:LYS:C	7:A6:92:LEU:HG	2.40	0.42
85:AA:2167:A:N1	85:AA:2168:C:C4	2.88	0.42
34:BA:1028:A:C4	34:BA:1029:C:C6	3.08	0.42
34:BA:1064:A:C5	34:BA:1065:U:C5	3.06	0.42
34:BA:1225:A:N6	34:BA:1226:G:C2	2.87	0.42
34:BA:1260:G:N1	34:BA:1270:G:C4	2.87	0.42
34:BA:1323:G:H1	34:BA:1417:C:H42	1.67	0.42
34:BA:1461:A:H2'	34:BA:1462:U:C6	2.53	0.42
34:BA:1625:C:C5	34:BA:1626:U:C4	3.07	0.42
34:BA:1631:U:H2'	34:BA:1632:G:C4'	2.49	0.42
34:BA:1700:C:N4	34:BA:1804:A:C8	2.87	0.42
34:BA:1815:G:H2'	34:BA:1816:G:C8	2.54	0.42
34:BA:1832:A:N1	34:BA:1833:G:C2	2.87	0.42
34:BA:183:G:C4	34:BA:306:G:N1	2.88	0.42
34:BA:216:C:H2'	34:BA:217:C:O2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:232:U:N3	34:BA:233:U:C2	2.87	0.42
34:BA:300:C:H2'	34:BA:301:U:C5'	2.49	0.42
34:BA:322:U:O5'	34:BA:322:U:H6	2.02	0.42
34:BA:399:G:C4	34:BA:400:A:C8	3.06	0.42
34:BA:487:A:C2	35:BB:652:G:C5'	3.03	0.42
34:BA:487:A:C4	35:BB:651:G:C2	3.07	0.42
34:BA:498:A:N3	34:BA:704:G:C2	2.87	0.42
34:BA:697:A:H2'	34:BA:698:U:C5	2.55	0.42
34:BA:704:G:C5	34:BA:705:C:C5	3.07	0.42
34:BA:769:U:H3	34:BA:771:A:H1'	1.84	0.42
34:BA:936:A:C2	34:BA:937:G:C8	3.08	0.42
34:BA:965:A:N7	34:BA:966:G:C8	2.87	0.42
35:BB:1122:C:N4	35:BB:1123:A:C2	2.87	0.42
35:BB:1149:A:C4	35:BB:1151:A:C6	3.06	0.42
35:BB:1151:A:C8	35:BB:1153:G:C5	3.07	0.42
35:BB:102:G:C6	35:BB:121:A:N1	2.87	0.42
35:BB:1243:A:C2	35:BB:1244:U:C6	3.07	0.42
35:BB:1295:A:C6	35:BB:1308:G:C6	3.07	0.42
35:BB:1294:C:H5	35:BB:1310:C:N4	2.17	0.42
35:BB:1361:A:N1	35:BB:1362:G:C6	2.87	0.42
35:BB:1396:G:C6	35:BB:1397:G:N7	2.88	0.42
35:BB:1459:U:H4'	35:BB:1461:C:C6	2.54	0.42
35:BB:1457:A:C2'	35:BB:1460:G:OP1	2.67	0.42
35:BB:1468:A:H3'	35:BB:1468:A:P	2.59	0.42
35:BB:492:U:C3'	35:BB:492:U:C6	3.01	0.42
35:BB:68:G:H3'	35:BB:69:A:C8	2.55	0.42
35:BB:698:C:C2	35:BB:699:U:O2	2.73	0.42
35:BB:68:G:C5	35:BB:69:A:N6	2.86	0.42
36:BC:117:A:C2	36:BC:147:G:C5	3.07	0.42
34:BA:399:G:N1	36:BC:28:C:O2	2.52	0.42
36:BC:33:U:N3	36:BC:34:U:C6	2.87	0.42
36:BC:88:A:C5'	36:BC:89:U:P	3.08	0.42
37:BD:2:G:H2'	37:BD:3:G:C8	2.54	0.42
37:BD:27:A:H1'	37:BD:56:G:C2	2.54	0.42
37:BD:77:A:C8	37:BD:78:C:C5	3.07	0.42
37:BD:98:G:C6	37:BD:99:G:C5	3.07	0.42
38:BE:66:A:C5	38:BE:67:A:C8	3.07	0.42
40:BG:102:G:N1	40:BG:103:C:C2	2.87	0.42
35:BB:652:G:O3'	40:BG:171:A:C8	2.72	0.42
35:BB:1463:A:H5'	40:BG:23:C:OP1	2.18	0.42
40:BG:60:A:C2	40:BG:61:A:C1'	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:62:C:H2'	40:BG:63:U:C6	2.54	0.42
40:BG:5:G:N1	40:BG:6:A:C6	2.88	0.42
41:BH:130:G:C2	41:BH:131:A:N9	2.87	0.42
44:BK:171:TRP:CD2	44:BK:181:TYR:CE1	3.07	0.42
37:BD:64:A:OP1	44:BK:205:LYS:HA	2.20	0.42
49:BP:45:LYS:HA	49:BP:46:MET:HA	1.90	0.42
85:AA:696:G:C2	85:AA:1281:G:C8	3.07	0.42
85:AA:128:U:C4	85:AA:129:U:C1'	3.02	0.42
85:AA:1490:A:H4'	85:AA:1491:G:OP1	2.18	0.42
85:AA:1508:A:C6	85:AA:1509:A:C2	3.07	0.42
85:AA:156:G:C6	85:AA:167:A:C6	3.07	0.42
85:AA:2117:U:C2	85:AA:2118:U:C5	3.07	0.42
85:AA:2135:A:N3	85:AA:2184:A:C2	2.88	0.42
85:AA:379:U:O4	85:AA:1495:G:H1'	2.18	0.42
85:AA:495:G:H3'	85:AA:495:G:C8	2.54	0.42
85:AA:531:G:H2'	85:AA:532:G:O4'	2.19	0.42
85:AA:539:A:C5	85:AA:540:A:C8	3.06	0.42
85:AA:686:U:C4	85:AA:687:G:C2	3.07	0.42
35:BB:793:A:N1	35:BB:794:G:C2	2.88	0.42
35:BB:808:U:OP2	35:BB:808:U:C6	2.72	0.42
35:BB:840:C:H2'	35:BB:841:U:H6	1.82	0.42
35:BB:969:C:C4	35:BB:970:C:C5	3.07	0.42
85:AA:711:C:H2'	85:AA:712:U:O4	2.19	0.42
6:A5:105:ASP:O	6:A5:106:ALA:HB3	2.20	0.42
85:AA:2108:C:C3'	85:AA:2108:C:C6	3.02	0.42
35:BB:537:A:C6	35:BB:538:A:N1	2.87	0.42
85:AA:1105:G:C2	85:AA:1106:A:N6	2.87	0.42
85:AA:874:A:C2	85:AA:875:C:C6	3.07	0.42
85:AA:876:U:C2	85:AA:877:G:C8	3.07	0.42
85:AA:1547:G:C5	85:AA:2041:G:C8	3.07	0.42
85:AA:1985:C:C6	85:AA:1985:C:C5'	3.00	0.42
34:BA:718:U:H2'	34:BA:719:G:C8	2.54	0.42
34:BA:1696:G:H3'	34:BA:1697:U:N1	2.32	0.42
85:AA:189:G:C8	85:AA:189:G:O5'	2.72	0.42
85:AA:192:G:C2	85:AA:247:G:N3	2.88	0.42
85:AA:255:A:C2	85:AA:256:A:C8	3.07	0.42
85:AA:10:G:C5	85:AA:2100:A:N1	2.87	0.42
23:AP:99:ALA:CB	85:AA:10:G:H1'	2.49	0.42
85:AA:2142:A:C4	85:AA:2177:C:C2	3.08	0.42
85:AA:2174:G:C6	85:AA:2175:U:C4	3.07	0.42
85:AA:1626:U:C4	85:AA:1627:U:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:31:ILE:HA	44:BK:66:GLU:CD	2.39	0.42
85:AA:965:G:C8	85:AA:965:G:C5'	3.02	0.42
85:AA:545:A:H3'	85:AA:545:A:C8	2.54	0.42
7:A6:122:HIS:CE1	85:AA:548:G:C5'	3.02	0.42
85:AA:561:C:C4	85:AA:567:G:N1	2.87	0.42
32:AY:46:ALA:HB1	85:AA:573:U:H4'	2.01	0.42
85:AA:576:U:C3'	85:AA:577:U:C5'	2.97	0.42
85:AA:2060:G:C6	85:AA:2061:C:N4	2.87	0.42
85:AA:790:A:N6	85:AA:801:U:H5'	2.34	0.42
34:BA:779:U:C4	34:BA:780:U:C5	3.07	0.42
85:AA:889:G:N2	85:AA:919:U:C5	2.88	0.42
34:BA:1334:G:C6	34:BA:1335:A:C8	3.08	0.42
40:BG:154:C:C2	40:BG:155:A:C8	3.07	0.42
85:AA:420:C:O2	85:AA:420:C:H2'	2.18	0.42
35:BB:1006:C:H2'	35:BB:1007:U:O4'	2.19	0.42
35:BB:997:G:C6	35:BB:998:G:C8	3.07	0.42
85:AA:1240:A:C2	85:AA:1261:U:C4	3.07	0.42
47:BN:81:SER:HB3	47:BN:84:GLU:HB2	2.01	0.42
35:BB:551:C:N4	35:BB:575:C:OP2	2.53	0.42
34:BA:1137:U:O5'	34:BA:1137:U:C6	2.72	0.42
85:AA:810:C:N3	85:AA:869:A:C2	2.87	0.42
34:BA:1086:A:C2	34:BA:1087:A:C8	3.08	0.42
85:AA:1919:G:C8	85:AA:1993:C:N4	2.87	0.42
86:AB:29:G:C6	86:AB:30:G:C5	3.06	0.42
4:A3:31:TYR:HA	4:A3:32:ARG:NH2	2.34	0.42
56:BW:29:ASP:HA	56:BW:115:GLY:O	2.19	0.42
85:AA:1797:U:O4	85:AA:1798:U:C6	2.72	0.42
52:BS:14:ARG:HD3	52:BS:24:PRO:HB2	2.02	0.42
5:A4:159:LEU:HD11	5:A4:188:PHE:HB3	2.01	0.42
85:AA:1882:U:O4'	85:AA:1885:A:C2	2.73	0.42
85:AA:844:C:H1'	85:AA:847:G:C2	2.55	0.42
1:A0:198:ARG:HH12	85:AA:1373:U:C4'	2.33	0.42
85:AA:1432:C:C5	85:AA:1433:C:C2	3.07	0.42
34:BA:1396:A:C6	34:BA:1397:C:C6	3.07	0.42
44:BK:60:ILE:O	44:BK:126:CYS:HA	2.19	0.42
4:A3:28:LEU:CD2	4:A3:41:ILE:HG21	2.50	0.42
16:AH:9:TYR:CE2	16:AH:15:GLY:HA3	2.54	0.42
85:AA:1872:G:C4	85:AA:1873:U:H1'	2.54	0.42
13:AE:42:VAL:HG22	85:AA:970:U:C4'	2.48	0.42
12:AD:6:PRO:HG3	85:AA:1634:U:H6	1.83	0.42
7:A6:31:GLY:O	32:AY:40:TYR:CE2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1429:A:C8	35:BB:1429:A:H3'	2.54	0.42
52:BS:139:LEU:O	52:BS:143:GLN:HB2	2.19	0.42
50:BQ:184:ALA:O	50:BQ:187:LYS:HB3	2.19	0.42
56:BW:59:MET:SD	56:BW:78:ALA:O	2.78	0.42
7:A6:138:GLN:HB2	7:A6:141:THR:HG23	2.01	0.42
34:BA:1064:A:H2'	34:BA:1065:U:O4'	2.19	0.42
34:BA:1054:U:O4	34:BA:1066:A:C6	2.73	0.42
34:BA:1097:G:N3	35:BB:1084:A:H2'	2.34	0.42
34:BA:1099:U:H6	34:BA:1099:U:H5"	1.83	0.42
34:BA:1277:G:N1	34:BA:1278:A:C5	2.87	0.42
34:BA:1285:G:N3	34:BA:1292:A:C2	2.86	0.42
34:BA:1296:U:C6	34:BA:1296:U:OP1	2.72	0.42
34:BA:1469:G:N1	34:BA:1470:G:C6	2.88	0.42
34:BA:1476:G:C6	34:BA:1477:C:N1	2.87	0.42
34:BA:1531:G:C2	34:BA:1532:G:C8	3.07	0.42
34:BA:1563:G:C4	34:BA:1565:U:C6	3.07	0.42
34:BA:1683:C:H2'	34:BA:1684:A:H8	1.84	0.42
34:BA:16:C:H2'	34:BA:17:A:C8	2.54	0.42
34:BA:1740:U:H3'	34:BA:1740:U:C6	2.54	0.42
34:BA:1801:G:N2	34:BA:1802:C:C2	2.87	0.42
34:BA:180:G:C2	34:BA:181:G:C8	3.07	0.42
34:BA:181:G:C5	34:BA:182:U:C5	3.07	0.42
34:BA:1842:U:H6	34:BA:1842:U:H5"	1.83	0.42
34:BA:185:A:H1'	34:BA:304:G:N2	2.33	0.42
34:BA:443:U:H1'	34:BA:458:G:C2	2.54	0.42
34:BA:489:A:C5	34:BA:490:A:C5	3.07	0.42
34:BA:49:A:O5'	34:BA:49:A:C8	2.73	0.42
34:BA:743:A:C2	34:BA:894:G:H1'	2.54	0.42
34:BA:74:A:C3'	34:BA:74:A:C8	3.02	0.42
34:BA:857:C:C2	34:BA:858:C:C5	3.07	0.42
34:BA:8:G:C2	34:BA:9:A:N9	2.88	0.42
34:BA:912:G:N1	34:BA:913:U:C4	2.88	0.42
34:BA:943:G:N1	34:BA:944:G:C4	2.87	0.42
35:BB:1155:U:C2	35:BB:1156:U:C6	3.08	0.42
35:BB:1241:U:C5	35:BB:1242:C:C5	3.08	0.42
35:BB:133:G:H5'	53:BT:135:LYS:HD3	2.01	0.42
35:BB:1358:A:C2	35:BB:1359:G:N9	2.88	0.42
35:BB:1362:G:C5	35:BB:1363:A:N7	2.87	0.42
35:BB:1457:A:C8	35:BB:1460:G:P	3.13	0.42
35:BB:20:U:H1'	35:BB:25:A:C5	2.55	0.42
35:BB:393:A:C2	35:BB:596:C:N3	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:66:G:N1	35:BB:67:A:C5	2.87	0.42
35:BB:699:U:H2'	35:BB:1044:U:O4	2.19	0.42
35:BB:93:A:C3'	35:BB:94:A:C8	3.01	0.42
35:BB:987:U:H3'	35:BB:988:G:C2	2.54	0.42
36:BC:101:U:C4	36:BC:102:G:C4	3.08	0.42
36:BC:106:G:C2	36:BC:107:C:C2	3.07	0.42
36:BC:25:C:C2	36:BC:26:U:O4	2.72	0.42
36:BC:4:G:C5	36:BC:5:U:C4	3.08	0.42
37:BD:65:G:C2	37:BD:66:G:H1'	2.55	0.42
38:BE:130:G:C6	38:BE:131:C:C2	3.07	0.42
38:BE:179:A:H4'	38:BE:180:G:C4'	2.49	0.42
38:BE:192:A:C6	38:BE:193:A:N6	2.87	0.42
38:BE:1:U:H3'	38:BE:1:U:C2	2.55	0.42
38:BE:43:A:C2	38:BE:171:U:O2	2.73	0.42
38:BE:88:G:H4'	38:BE:89:G:OP1	2.19	0.42
40:BG:130:G:C2	40:BG:161:C:C2	3.08	0.42
40:BG:37:G:C2	40:BG:166:C:N3	2.87	0.42
40:BG:69:G:C6	40:BG:70:C:N4	2.88	0.42
41:BH:110:C:C4	41:BH:111:U:C5	3.07	0.42
41:BH:39:G:C2	41:BH:40:C:H1'	2.54	0.42
44:BK:49:CYS:SG	44:BK:173:PHE:N	2.92	0.42
47:BN:10:HIS:C	47:BN:10:HIS:ND1	2.72	0.42
49:BP:77:ALA:O	49:BP:81:LYS:HG2	2.19	0.42
51:BR:2:VAL:HG12	51:BR:4:TYR:H	1.84	0.42
26:AS:4:THR:CG2	85:AA:1480:C:C5	3.02	0.42
85:AA:1496:U:H2'	85:AA:1497:U:C6	2.55	0.42
85:AA:160:A:H62	85:AA:161:A:N6	2.17	0.42
85:AA:2192:A:C2	85:AA:2193:A:C5	3.07	0.42
13:AE:104:ARG:NH1	85:AA:372:U:OP1	2.50	0.42
85:AA:443:A:C2'	85:AA:444:U:C6	3.02	0.42
85:AA:448:G:C6	85:AA:449:G:C5	3.07	0.42
85:AA:480:U:C2	85:AA:482:C:C2	3.07	0.42
85:AA:534:A:N6	85:AA:535:G:C5	2.88	0.42
85:AA:53:G:H2'	85:AA:54:C:C6	2.54	0.42
85:AA:698:G:N3	85:AA:699:U:C6	2.87	0.42
85:AA:923:A:N1	85:AA:924:A:C6	2.87	0.42
34:BA:647:U:C2'	34:BA:648:C:C5	3.00	0.42
34:BA:625:U:O4	34:BA:657:C:C4	2.72	0.42
34:BA:661:C:N3	34:BA:662:U:C5	2.87	0.42
34:BA:670:U:O2'	34:BA:671:C:H5'	2.19	0.42
35:BB:566:A:C5	35:BB:567:G:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BW:87:TRP:HE1	56:BW:89:ARG:HD3	1.85	0.42
35:BB:867:C:C5	35:BB:868:C:C5	3.07	0.42
34:BA:556:A:C4	34:BA:557:U:H6	2.37	0.42
85:AA:1114:A:C2	85:AA:1213:U:C1'	3.02	0.42
15:AG:123:HIS:NE2	34:BA:946:A:C4'	2.50	0.42
85:AA:2209:U:O5'	85:AA:2209:U:H6	2.02	0.42
35:BB:517:G:N2	35:BB:534:C:H1'	2.34	0.42
85:AA:1126:G:C4	85:AA:1127:G:C8	3.07	0.42
85:AA:1171:C:C2	85:AA:1172:A:C8	3.07	0.42
85:AA:2019:G:C4	85:AA:2021:A:OP2	2.72	0.42
21:AM:122:ARG:CZ	21:AM:122:ARG:HB2	2.49	0.42
21:AM:39:ILE:HG23	21:AM:39:ILE:H	1.55	0.42
34:BA:265:A:C2	34:BA:277:A:C2	3.07	0.42
34:BA:519:G:C6	34:BA:1491:U:C5'	3.02	0.42
34:BA:675:C:C6	34:BA:676:G:N7	2.87	0.42
34:BA:594:G:C8	34:BA:684:G:C8	3.07	0.42
35:BB:1404:A:C2	35:BB:1440:A:C4	3.07	0.42
85:AA:1916:A:C2	85:AA:1997:G:N3	2.87	0.42
85:AA:196:U:N3	85:AA:210:G:N7	2.67	0.42
85:AA:1521:U:C6	85:AA:1521:U:O5'	2.72	0.42
85:AA:1528:A:H4'	85:AA:2245:A:H62	1.85	0.42
85:AA:2147:A:H3'	85:AA:2148:C:H6	1.84	0.42
85:AA:272:C:C2	85:AA:273:C:C6	3.07	0.42
85:AA:275:A:C6	85:AA:974:U:C4	3.06	0.42
3:A2:42:TRP:CZ2	3:A2:52:ILE:HB	2.54	0.42
85:AA:2081:A:H2'	85:AA:2082:C:C6	2.55	0.42
85:AA:910:G:N1	85:AA:911:A:C6	2.87	0.42
85:AA:109:G:N2	85:AA:368:C:O2	2.52	0.42
85:AA:401:U:C4	85:AA:402:G:C4	3.07	0.42
85:AA:441:C:H5"	85:AA:441:C:C6	2.54	0.42
85:AA:381:A:C2	85:AA:416:U:C4	3.07	0.42
16:AH:59:ARG:NH2	85:AA:1154:A:H3'	2.33	0.42
34:BA:1263:A:H2'	34:BA:1263:A:N3	2.34	0.42
85:AA:338:G:C5	85:AA:339:A:C8	3.07	0.42
35:BB:576:A:C4	35:BB:1420:U:O4'	2.72	0.42
34:BA:1001:G:C4	34:BA:1002:U:C5	3.07	0.42
39:BF:42:G:C2	39:BF:44:C:N3	2.87	0.42
85:AA:740:A:H2	85:AA:769:C:H1'	1.84	0.42
85:AA:763:U:P	85:AA:763:U:C6	3.12	0.42
85:AA:764:U:C4	85:AA:767:A:H2	2.37	0.42
85:AA:349:C:N3	85:AA:350:U:C5	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AK:70:ARG:HB3	85:AA:1793:A:OP1	2.19	0.42
3:A2:94:PRO:HA	3:A2:97:VAL:HB	2.01	0.42
34:BA:1431:G:N3	34:BA:1432:C:C6	2.88	0.42
85:AA:1100:U:H2'	85:AA:1101:C:C6	2.55	0.42
85:AA:1715:C:H1'	85:AA:1849:A:C4	2.54	0.42
34:BA:1152:A:C4	44:BK:22:PHE:CZ	3.08	0.42
5:A4:36:HIS:HA	5:A4:40:ARG:CB	2.49	0.42
85:AA:1091:C:C2	85:AA:1092:G:C8	3.07	0.42
35:BB:419:G:N3	35:BB:580:A:C2	2.88	0.42
85:AA:1588:A:N1	85:AA:1892:G:C2	2.88	0.42
85:AA:1646:U:H4'	85:AA:1647:G:C5'	2.50	0.42
35:BB:1421:C:H2'	35:BB:1422:G:C8	2.55	0.42
34:BA:1396:A:O2'	34:BA:1397:C:C6	2.67	0.42
20:AL:35:VAL:HG11	20:AL:47:LYS:HA	2.02	0.42
28:AU:68:PRO:HB2	28:AU:79:VAL:HG23	2.01	0.42
48:BO:216:LEU:HG	49:BP:113:LEU:HA	2.02	0.42
85:AA:1783:G:H2'	85:AA:1784:G:C8	2.54	0.42
54:BU:6:GLY:C	54:BU:8:LYS:H	2.19	0.42
35:BB:724:G:H21	35:BB:749:U:H3	1.67	0.42
26:AS:27:TRP:CZ2	26:AS:31:HIS:CD2	3.08	0.42
11:AC:146:ASN:OD1	11:AC:148:ILE:HB	2.20	0.42
13:AE:151:ILE:CG2	13:AE:153:TYR:H	2.32	0.42
44:BK:180:GLU:O	44:BK:184:LEU:HB2	2.19	0.42
5:A4:144:ARG:HA	18:AJ:53:VAL:HA	2.01	0.42
10:A9:118:ARG:HD3	10:A9:133:PHE:CZ	2.54	0.42
42:BI:64:LEU:HD12	42:BI:95:ASP:HA	2.01	0.42
8:A7:21:CYS:SG	8:A7:292:ALA:HB1	2.60	0.42
53:BT:93:ASP:O	53:BT:96:MET:HB2	2.19	0.42
26:AS:104:GLY:O	26:AS:105:PHE:CD1	2.72	0.42
3:A2:37:HIS:H	3:A2:56:GLU:CD	2.23	0.42
1:A0:64:ARG:HE	16:AH:41:SER:HB3	1.84	0.42
1:A0:206:ILE:HG22	1:A0:207:ILE:H	1.83	0.42
26:AS:124:LYS:HB3	26:AS:129:GLY:H	1.83	0.42
85:AA:2163:G:N2	85:AA:2164:G:C4	2.87	0.42
34:BA:1058:C:H4'	34:BA:1059:U:C5	2.54	0.42
34:BA:1270:G:C2	34:BA:1271:C:H1'	2.55	0.42
34:BA:1312:A:C6	34:BA:1427:U:C2	3.07	0.42
34:BA:1473:A:C2	34:BA:1510:C:H1'	2.54	0.42
34:BA:1477:C:C5	34:BA:1506:C:C4	3.07	0.42
34:BA:1522:G:N1	34:BA:1523:U:C4	2.88	0.42
34:BA:1531:G:C6	34:BA:1576:C:N3	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:503:C:O4'	34:BA:1550:G:H5'	2.19	0.42
34:BA:1532:G:C2	34:BA:1575:U:O2	2.72	0.42
34:BA:1527:G:C4	34:BA:1581:G:C6	3.07	0.42
34:BA:1603:A:H2'	34:BA:1604:A:H8	1.84	0.42
34:BA:1611:A:H2'	34:BA:1612:C:H6	1.84	0.42
34:BA:1621:U:C2	34:BA:1623:U:O4	2.71	0.42
34:BA:1704:G:N1	34:BA:1705:C:C2	2.88	0.42
34:BA:1707:C:H2'	34:BA:1708:A:O4'	2.20	0.42
34:BA:1742:G:C4	34:BA:1743:U:C6	3.08	0.42
34:BA:1782:C:O2'	34:BA:1783:C:H5'	2.20	0.42
34:BA:365:A:C6	34:BA:366:G:N7	2.87	0.42
34:BA:330:A:H5'	34:BA:381:A:C2	2.55	0.42
34:BA:390:A:C6	34:BA:391:U:N3	2.88	0.42
34:BA:45:A:C8	34:BA:47:U:C2	3.07	0.42
34:BA:500:C:O2	34:BA:702:G:C4	2.72	0.42
34:BA:59:A:N6	34:BA:60:A:C5	2.88	0.42
34:BA:68:A:C2	35:BB:1236:A:H1'	2.54	0.42
34:BA:763:U:C4	34:BA:770:G:O3'	2.73	0.42
34:BA:791:A:N7	34:BA:792:A:C5	2.88	0.42
34:BA:82:A:C5	34:BA:84:U:C4	3.07	0.42
34:BA:955:G:C2	34:BA:956:G:N3	2.88	0.42
34:BA:94:G:O6	34:BA:95:C:C4	2.73	0.42
35:BB:1050:A:C6	35:BB:1051:U:C2	3.07	0.42
35:BB:1108:G:N1	35:BB:1109:A:C5	2.87	0.42
35:BB:1108:G:C6	35:BB:1109:A:C5	3.07	0.42
35:BB:11:A:O5'	35:BB:11:A:C8	2.73	0.42
35:BB:1210:U:C6	35:BB:1211:C:C4	3.07	0.42
35:BB:1238:A:H2'	35:BB:1239:A:C8	2.54	0.42
35:BB:391:G:C2	35:BB:392:G:C8	3.06	0.42
35:BB:413:A:C4	35:BB:414:C:C5	3.07	0.42
35:BB:484:G:N2	35:BB:497:C:H1'	2.34	0.42
35:BB:994:A:C6	38:BE:202:C:H5'	2.55	0.42
36:BC:125:A:N1	36:BC:139:A:C6	2.87	0.42
36:BC:166:G:N1	36:BC:167:U:C2	2.87	0.42
36:BC:69:U:C2'	36:BC:69:U:O2	2.63	0.42
37:BD:69:U:H1'	37:BD:107:G:N2	2.35	0.42
38:BE:130:G:H2'	38:BE:131:C:C5'	2.48	0.42
38:BE:163:A:H3'	38:BE:163:A:C8	2.54	0.42
38:BE:193:A:C2	38:BE:194:A:C4	3.07	0.42
38:BE:44:C:H2'	38:BE:45:G:O4'	2.20	0.42
38:BE:49:A:C2	38:BE:60:C:N3	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:94:U:H2'	38:BE:95:G:H8	1.84	0.42
40:BG:101:G:C6	40:BG:102:G:N7	2.88	0.42
40:BG:82:U:O5'	40:BG:82:U:H6	2.03	0.42
41:BH:103:C:N3	41:BH:104:U:C2	2.88	0.42
41:BH:39:G:N1	41:BH:113:G:C6	2.88	0.42
41:BH:66:G:H8	41:BH:66:G:O5'	2.03	0.42
44:BK:85:PHE:CD2	44:BK:138:MET:SD	3.13	0.42
45:BL:114:SER:HA	45:BL:131:GLY:HA2	2.01	0.42
85:AA:102:A:N7	85:AA:103:U:C5	2.87	0.42
85:AA:121:C:N3	85:AA:122:A:C5	2.87	0.42
85:AA:456:A:O4'	85:AA:2182:A:H4'	2.20	0.42
85:AA:487:G:C6	85:AA:488:G:O6	2.73	0.42
85:AA:506:G:C6	85:AA:534:A:N6	2.88	0.42
85:AA:633:C:HO2'	85:AA:634:U:H6	1.66	0.42
85:AA:636:G:N3	85:AA:658:C:C2	2.88	0.42
85:AA:622:G:C2	85:AA:665:A:C2	3.07	0.42
85:AA:87:C:H6	85:AA:87:C:H5"	1.84	0.42
85:AA:98:U:C2'	85:AA:99:U:H5'	2.49	0.42
34:BA:620:C:C4	34:BA:621:G:N7	2.88	0.42
35:BB:526:A:P	35:BB:526:A:H8	2.42	0.42
35:BB:547:A:C6	35:BB:549:U:C2	3.07	0.42
35:BB:810:G:C2	35:BB:830:G:C2	3.07	0.42
5:A4:4:GLN:NE2	5:A4:6:HIS:CE1	2.87	0.42
85:AA:994:A:C6	85:AA:995:G:C8	3.07	0.42
85:AA:1121:U:C5	85:AA:1122:U:O4	2.72	0.42
85:AA:1125:G:H3'	85:AA:1185:G:N2	2.34	0.42
35:BB:516:G:H3'	35:BB:516:G:C8	2.54	0.42
35:BB:534:C:H3'	35:BB:535:U:H6	1.84	0.42
85:AA:939:A:C8	85:AA:939:A:C3'	2.98	0.42
85:AA:1562:U:O2	85:AA:1895:C:H5'	2.19	0.42
21:AM:32:ARG:HH22	85:AA:2033:C:H6	1.67	0.42
31:AX:178:ALA:HA	85:AA:1877:G:H4'	2.01	0.42
34:BA:254:U:N3	34:BA:255:G:C8	2.87	0.42
35:BB:669:A:C4	35:BB:1329:G:C4	3.07	0.42
35:BB:1407:U:H2'	35:BB:1408:G:N9	2.34	0.42
35:BB:1508:G:H2'	35:BB:1509:G:C8	2.55	0.42
35:BB:1519:U:C5	35:BB:1520:C:C5	3.07	0.42
85:AA:2213:A:C3'	85:AA:2213:A:C8	3.03	0.42
85:AA:1527:G:H1'	85:AA:2219:G:C2	2.54	0.42
85:AA:269:G:OP2	85:AA:269:G:H8	2.03	0.42
85:AA:572:G:C5	85:AA:573:U:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:396:U:C4	85:AA:397:G:C6	3.08	0.42
47:BN:200:PHE:CD2	47:BN:200:PHE:O	2.71	0.42
85:AA:419:A:H3'	85:AA:420:C:H6	1.81	0.42
85:AA:1156:A:C6	85:AA:1157:U:C5	3.07	0.42
54:BU:80:VAL:O	54:BU:83:ARG:HG2	2.19	0.42
35:BB:1419:G:C2	35:BB:1420:U:C2	3.07	0.42
85:AA:264:A:C2	85:AA:813:G:O4'	2.72	0.42
85:AA:826:C:C5	85:AA:827:C:C5	3.08	0.42
85:AA:859:G:C2	85:AA:860:C:N1	2.87	0.42
85:AA:813:G:C2	85:AA:865:G:C2	3.07	0.42
1:A0:165:TRP:CH2	85:AA:1434:U:OP2	2.72	0.42
86:AB:19:G:H4'	86:AB:57:G:H1	1.85	0.42
39:BF:46:G:C4	39:BF:47:C:C6	3.07	0.42
85:AA:736:U:C6	85:AA:737:G:OP1	2.73	0.42
34:BA:580:U:H6	34:BA:580:U:H3'	1.84	0.42
85:AA:1361:A:C3'	85:AA:1362:A:H5'	2.49	0.42
85:AA:1832:G:C6	85:AA:1843:A:N6	2.87	0.42
85:AA:1857:G:O6	85:AA:1858:G:C6	2.73	0.42
20:AL:28:PHE:CD1	85:AA:1826:U:C5	3.07	0.42
34:BA:963:G:O6	34:BA:992:A:H3'	2.19	0.42
85:AA:1935:G:C6	85:AA:1936:C:C4	3.07	0.42
34:BA:830:U:N1	34:BA:838:U:C4	2.88	0.42
34:BA:830:U:H1'	34:BA:838:U:C2	2.54	0.42
35:BB:636:G:N1	35:BB:646:U:C4	2.87	0.42
5:A4:21:GLU:O	5:A4:25:VAL:HG23	2.20	0.42
85:AA:1730:C:C6	85:AA:1730:C:O5'	2.72	0.42
35:BB:1381:U:C2	35:BB:1382:U:C6	3.07	0.42
16:AH:65:TYR:CE2	16:AH:69:MET:SD	3.13	0.42
85:AA:1588:A:C2	85:AA:1892:G:N3	2.88	0.42
85:AA:1890:C:C2	85:AA:1891:U:C5	3.08	0.42
7:A6:158:ALA:C	7:A6:161:SER:H	2.23	0.42
22:AO:58:HIS:CG	85:AA:1970:A:H5'	2.54	0.42
27:AT:21:LYS:H	27:AT:21:LYS:CD	2.30	0.42
85:AA:1599:G:C5	85:AA:1600:G:N7	2.88	0.42
8:A7:117:PHE:CD1	8:A7:121:ASN:HB3	2.54	0.42
31:AX:101:ALA:CB	31:AX:170:ALA:HB3	2.50	0.42
18:AJ:73:GLY:N	18:AJ:128:PHE:CE1	2.88	0.42
5:A4:99:VAL:HG22	5:A4:100:ALA:H	1.84	0.42
51:BR:45:GLN:CD	51:BR:113:VAL:HG13	2.39	0.42
49:BP:146:LYS:O	49:BP:150:ASN:HB2	2.18	0.42
19:AK:74:ARG:NH2	19:AK:76:ARG:HB2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AM:124:VAL:HA	21:AM:127:ALA:HB3	2.00	0.42
10:A9:117:GLU:HA	10:A9:117:GLU:OE1	2.19	0.42
47:BN:112:GLU:HA	47:BN:115:ASN:ND2	2.35	0.42
24:AQ:23:SER:HB2	24:AQ:29:VAL:HB	2.00	0.42
23:AP:53:VAL:HG12	23:AP:79:GLN:HG2	2.02	0.42
35:BB:265:C:H2'	35:BB:266:C:O4'	2.19	0.42
35:BB:541:U:C4	35:BB:578:G:N2	2.87	0.42
52:BS:80:ILE:O	52:BS:91:HIS:HA	2.19	0.42
34:BA:1011:G:C5	34:BA:1013:A:N6	2.87	0.42
34:BA:1044:A:H2'	34:BA:1045:C:C6	2.54	0.42
34:BA:1046:G:C2	34:BA:1047:U:C5	3.07	0.42
34:BA:1196:C:H2'	34:BA:1197:U:C6	2.54	0.42
34:BA:1300:G:C5	34:BA:1440:C:C4	3.08	0.42
34:BA:1529:G:C4	34:BA:1578:A:C2	3.08	0.42
34:BA:1644:A:C2	34:BA:1645:C:N1	2.88	0.42
34:BA:173:U:H2'	34:BA:174:A:C8	2.53	0.42
34:BA:186:G:C4	34:BA:187:G:C8	3.08	0.42
34:BA:188:C:H2'	34:BA:189:G:H8	1.85	0.42
34:BA:225:A:P	34:BA:225:A:C8	3.13	0.42
34:BA:248:G:C8	34:BA:248:G:H3'	2.54	0.42
34:BA:302:A:H5"	34:BA:303:C:C4'	2.48	0.42
34:BA:328:A:H2'	34:BA:329:G:OP2	2.19	0.42
34:BA:399:G:C4	36:BC:29:C:C2	3.08	0.42
34:BA:55:G:C6	34:BA:56:G:C6	3.07	0.42
34:BA:761:U:H2'	34:BA:762:A:O4'	2.20	0.42
34:BA:766:A:H2	34:BA:768:G:O5'	2.03	0.42
34:BA:776:U:C4	34:BA:777:C:C4	3.07	0.42
34:BA:825:G:C2	34:BA:843:G:C5	3.08	0.42
34:BA:859:G:C6	34:BA:860:G:N9	2.88	0.42
34:BA:751:A:C2	34:BA:886:G:C5	3.08	0.42
34:BA:888:G:C2	34:BA:889:U:N1	2.87	0.42
34:BA:8:G:C8	34:BA:8:G:H3'	2.55	0.42
34:BA:939:C:H2'	34:BA:940:C:C6	2.55	0.42
34:BA:943:G:N1	34:BA:944:G:C5	2.88	0.42
35:BB:1081:U:N3	35:BB:1082:A:C6	2.88	0.42
35:BB:1141:A:H2'	35:BB:1142:C:C6	2.55	0.42
35:BB:1449:G:N1	35:BB:1450:G:C5	2.87	0.42
35:BB:386:G:H2'	35:BB:387:G:C1'	2.49	0.42
35:BB:38:C:H2'	35:BB:39:C:H6	1.85	0.42
35:BB:392:G:C2	35:BB:597:C:N3	2.88	0.42
35:BB:780:U:C4	35:BB:1038:G:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:119:G:H2'	36:BC:120:G:H8	1.77	0.42
36:BC:73:U:N1	36:BC:74:U:H5	2.17	0.42
36:BC:92:C:C2	36:BC:93:C:C5	3.08	0.42
37:BD:105:G:O5'	37:BD:105:G:H8	2.03	0.42
37:BD:64:A:N1	37:BD:65:G:C4	2.87	0.42
37:BD:64:A:C6	37:BD:65:G:C5	3.08	0.42
38:BE:154:A:H4'	38:BE:157:C:C6	2.54	0.42
38:BE:199:A:H2'	38:BE:200:A:C8	2.54	0.42
38:BE:75:C:N3	38:BE:76:U:C5	2.87	0.42
40:BG:101:G:C2	40:BG:102:G:C4	3.07	0.42
40:BG:130:G:N2	40:BG:161:C:C2	2.87	0.42
40:BG:4:A:H2'	40:BG:5:G:C8	2.55	0.42
40:BG:4:A:N1	40:BG:5:G:C6	2.87	0.42
40:BG:63:U:H3'	40:BG:64:C:H6	1.84	0.42
41:BH:42:U:C1'	41:BH:110:C:C2	3.03	0.42
41:BH:123:G:C6	41:BH:124:C:C4	3.07	0.42
41:BH:127:A:N1	41:BH:128:G:N1	2.67	0.42
41:BH:7:C:H3'	41:BH:8:C:C6	2.53	0.42
45:BL:103:PHE:HB3	45:BL:163:LYS:HE2	2.02	0.42
45:BL:91:LEU:CB	45:BL:96:PHE:CE1	3.03	0.42
51:BR:26:TYR:CD2	51:BR:121:GLN:HG2	2.54	0.42
38:BE:160:C:N4	53:BT:43:LYS:HA	2.35	0.42
38:BE:48:G:OP1	55:BV:111:ALA:HB1	2.20	0.42
34:BA:544:U:O4	34:BA:545:U:C4	2.73	0.42
4:A3:180:GLN:HE22	85:AA:64:A:H4'	1.83	0.42
85:AA:1226:A:N6	85:AA:1274:A:C8	2.88	0.42
85:AA:1274:A:N3	85:AA:1274:A:H2'	2.33	0.42
85:AA:131:C:C2	85:AA:132:G:C8	3.08	0.42
85:AA:133:G:C6	85:AA:134:U:C4	3.08	0.42
85:AA:1493:A:H2'	85:AA:1494:C:OP2	2.19	0.42
85:AA:157:G:C6	85:AA:166:C:C4	3.07	0.42
85:AA:2130:G:H2'	85:AA:2131:C:O4'	2.20	0.42
85:AA:2185:U:H3'	85:AA:2185:U:C6	2.54	0.42
4:A3:181:ARG:HG2	85:AA:334:A:H4'	2.01	0.42
6:A5:22:ARG:NH1	85:AA:450:A:C5'	2.80	0.42
85:AA:464:A:H8	85:AA:464:A:H3'	1.83	0.42
85:AA:628:C:H5"	85:AA:629:A:OP1	2.19	0.42
85:AA:624:A:O4'	85:AA:630:A:C2	2.72	0.42
85:AA:684:G:C5	85:AA:688:C:C1'	3.02	0.42
34:BA:668:G:C8	34:BA:668:G:C3'	3.02	0.42
35:BB:797:C:H2'	35:BB:798:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:842:G:C6	35:BB:843:G:N7	2.88	0.42
53:BT:181:ARG:NH1	85:AA:999:A:C8	2.83	0.42
85:AA:711:C:C2'	85:AA:712:U:C5	3.03	0.42
15:AG:52:MET:HG3	15:AG:55:ARG:NH2	2.35	0.42
26:AS:6:GLY:O	85:AA:707:U:C5'	2.67	0.42
5:A4:10:LEU:HA	5:A4:13:LEU:HD13	2.01	0.42
85:AA:877:G:O6	85:AA:928:U:O4	2.38	0.42
85:AA:1545:U:C4	85:AA:1546:G:C5	3.08	0.42
85:AA:1582:U:C5	85:AA:1583:U:C2	3.07	0.42
21:AM:35:LYS:N	21:AM:39:ILE:HG12	2.35	0.42
34:BA:195:G:N2	34:BA:196:A:C4	2.86	0.42
34:BA:198:U:C4	34:BA:262:A:C5	3.07	0.42
34:BA:259:C:C2	34:BA:260:A:N7	2.88	0.42
34:BA:593:G:C2	34:BA:594:G:C4	3.07	0.42
85:AA:1962:U:H2'	85:AA:1963:G:H8	1.81	0.42
85:AA:588:G:N2	85:AA:603:C:N3	2.68	0.42
27:AT:7:LYS:HB3	85:AA:607:U:C4	2.54	0.42
85:AA:10:G:H8	85:AA:2100:A:O2'	2.01	0.42
29:AV:14:PRO:HB2	85:AA:1449:C:O3'	2.20	0.42
85:AA:1519:A:C4	85:AA:1520:A:C5	3.07	0.42
85:AA:1526:G:C4	85:AA:2096:G:N2	2.87	0.42
85:AA:312:G:H8	85:AA:313:A:C8	2.37	0.42
85:AA:2146:G:H2'	85:AA:2171:A:N1	2.35	0.42
85:AA:2172:A:C5	85:AA:2173:A:C8	3.07	0.42
85:AA:274:A:H2'	85:AA:274:A:N3	2.34	0.42
85:AA:280:U:H2'	85:AA:280:U:O2	2.19	0.42
85:AA:1532:G:C2	85:AA:1533:C:H1'	2.55	0.42
85:AA:2059:A:C6	85:AA:2060:G:C6	3.07	0.42
40:BG:145:C:H3'	40:BG:146:C:C6	2.55	0.42
85:AA:363:A:C4	85:AA:364:C:C6	3.08	0.42
85:AA:419:A:C5	85:AA:420:C:C5	3.06	0.42
49:BP:136:PRO:HB2	49:BP:140:HIS:CB	2.44	0.42
34:BA:1090:A:C5	34:BA:1091:U:C5	3.08	0.42
85:AA:867:G:N1	85:AA:869:A:C2	2.88	0.42
85:AA:764:U:H1'	85:AA:765:U:C5	2.54	0.42
85:AA:763:U:O2	85:AA:765:U:C5	2.73	0.42
85:AA:341:C:C5	85:AA:343:U:O4	2.73	0.42
34:BA:1086:A:H61	34:BA:1215:U:H3	1.66	0.42
3:A2:17:LEU:HD11	3:A2:96:GLN:HB2	2.00	0.42
86:AB:31:A:C2	86:AB:40:C:N3	2.87	0.42
86:AB:70:G:C2'	86:AB:71:G:OP1	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AT:66:GLY:HA3	27:AT:79:PHE:H	1.84	0.42
85:AA:1857:G:C6	85:AA:1858:G:C6	3.07	0.42
34:BA:1434:U:C2	48:BO:149:ARG:HA	2.55	0.42
34:BA:515:U:H3	34:BA:688:G:H1	1.68	0.42
35:BB:1489:A:C5	49:BP:158:PRO:HG3	2.55	0.42
85:AA:1728:G:N1	85:AA:1813:C:C2	2.88	0.42
85:AA:847:G:N1	85:AA:848:C:C2	2.87	0.42
86:AB:50:U:H2'	86:AB:51:U:C6	2.55	0.42
85:AA:1754:G:H1'	85:AA:1790:G:C4	2.55	0.42
16:AH:8:LYS:HA	16:AH:10:TYR:CE1	2.53	0.42
25:AR:39:ILE:HG22	25:AR:41:ILE:HG13	2.01	0.42
11:AC:153:MET:SD	11:AC:153:MET:C	2.98	0.42
57:BX:153:ASP:HB3	57:BX:156:ASP:HB3	2.02	0.42
50:BQ:203:PRO:O	50:BQ:207:ALA:HB3	2.19	0.42
6:A5:74:GLN:HG2	6:A5:109:PHE:CD2	2.54	0.42
86:AB:18:G:N2	86:AB:58:A:C5	2.88	0.42
17:AI:94:PRO:O	17:AI:97:VAL:HG12	2.19	0.42
5:A4:52:ARG:O	5:A4:64:MET:HA	2.18	0.42
85:AA:1359:U:C5	85:AA:1360:C:O2	2.73	0.42
23:AP:66:LEU:O	25:AR:20:ARG:HD3	2.20	0.42
22:AO:114:LYS:O	22:AO:118:HIS:ND1	2.52	0.42
34:BA:99:G:C6	34:BA:100:A:C6	3.07	0.42
34:BA:1045:C:N3	34:BA:1046:G:C5	2.88	0.42
34:BA:1097:G:N3	35:BB:1084:A:C4	2.88	0.42
34:BA:1189:A:C5	34:BA:1190:A:C5	3.08	0.42
34:BA:1276:G:C6	34:BA:1277:G:C5	3.07	0.42
34:BA:132:U:C6	34:BA:132:U:O5'	2.72	0.42
34:BA:146:G:C2'	34:BA:147:U:O5'	2.65	0.42
34:BA:1477:C:C5'	34:BA:1478:G:N1	2.83	0.42
34:BA:1469:G:N1	34:BA:1513:G:C5	2.87	0.42
34:BA:1667:G:C2'	34:BA:1668:C:H6	2.32	0.42
34:BA:1709:A:C2	34:BA:1710:C:C2	3.08	0.42
34:BA:1729:G:N1	34:BA:1730:A:C5	2.87	0.42
34:BA:1782:C:C2	34:BA:1783:C:C6	3.07	0.42
34:BA:189:G:H4'	34:BA:299:C:H1'	2.01	0.42
34:BA:334:G:C6	34:BA:335:C:N4	2.87	0.42
34:BA:373:G:N2	34:BA:374:U:C2	2.88	0.42
34:BA:439:A:C2	34:BA:441:A:C8	3.07	0.42
34:BA:457:A:H3'	34:BA:458:G:H8	1.84	0.42
34:BA:470:C:C2	36:BC:19:A:C2	3.07	0.42
34:BA:480:G:N7	34:BA:481:A:C5	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:489:A:C4	34:BA:490:A:C8	3.08	0.42
34:BA:67:A:C6	34:BA:68:A:C6	3.08	0.42
34:BA:692:U:C6	34:BA:692:U:C5'	3.03	0.42
34:BA:700:G:N1	34:BA:701:G:C8	2.88	0.42
34:BA:747:G:N7	34:BA:748:C:C5	2.88	0.42
34:BA:764:G:N1	34:BA:769:U:C4	2.88	0.42
34:BA:765:U:C4	34:BA:768:G:C6	3.08	0.42
34:BA:787:A:C5	34:BA:797:A:N7	2.88	0.42
34:BA:79:C:H2'	34:BA:80:U:O4'	2.20	0.42
34:BA:801:U:C4	34:BA:802:G:N7	2.87	0.42
34:BA:804:G:N7	34:BA:805:A:C6	2.87	0.42
34:BA:816:G:C6	34:BA:854:A:N1	2.88	0.42
34:BA:823:G:C5	34:BA:824:C:C5	3.08	0.42
34:BA:824:C:C6	34:BA:824:C:O5'	2.72	0.42
34:BA:906:A:N6	34:BA:1033:G:H1	2.16	0.42
34:BA:951:C:N4	34:BA:952:G:C5	2.88	0.42
34:BA:939:C:C4	34:BA:953:G:C2	3.08	0.42
34:BA:97:A:H2'	34:BA:98:A:C8	2.55	0.42
35:BB:1030:U:C2	35:BB:1031:G:N1	2.88	0.42
35:BB:1040:C:H3'	35:BB:1041:A:H2	1.85	0.42
35:BB:1100:C:C4	35:BB:1101:C:C5	3.08	0.42
35:BB:1132:A:H2'	35:BB:1133:C:C6	2.54	0.42
35:BB:1148:U:O5'	35:BB:1148:U:H6	2.03	0.42
35:BB:119:G:C2	35:BB:120:C:C6	3.07	0.42
35:BB:1301:U:O4	35:BB:1302:C:C2	2.73	0.42
35:BB:1299:G:C5	35:BB:1302:C:C2	3.08	0.42
35:BB:1296:A:C5	35:BB:1309:A:C4	3.07	0.42
35:BB:1348:C:C2	35:BB:1372:G:C2	3.07	0.42
35:BB:1394:A:C6	35:BB:1395:G:C5	3.08	0.42
35:BB:1457:A:H3'	35:BB:1460:G:OP1	2.20	0.42
35:BB:34:G:C6	35:BB:35:G:N7	2.88	0.42
35:BB:98:A:N3	35:BB:388:C:H2'	2.34	0.42
35:BB:60:A:H4'	35:BB:61:A:C5'	2.45	0.42
35:BB:782:A:C2	35:BB:783:U:C2	3.08	0.42
35:BB:786:A:C2	35:BB:787:A:C4	3.07	0.42
35:BB:81:A:N1	35:BB:82:G:C2	2.88	0.42
36:BC:145:G:C4	36:BC:146:U:C5	3.08	0.42
37:BD:79:G:C2	37:BD:80:G:C4	3.08	0.42
38:BE:13:A:H2'	38:BE:14:C:H5'	2.01	0.42
38:BE:144:A:N3	38:BE:144:A:C2'	2.80	0.42
38:BE:18:U:C6	38:BE:18:U:OP2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:3:G:N1	38:BE:7:U:C2	2.88	0.42
38:BE:59:U:H4'	53:BT:57:VAL:CB	2.50	0.42
38:BE:65:U:C4	38:BE:66:A:N7	2.87	0.42
38:BE:6:A:OP2	38:BE:7:U:C4	2.73	0.42
38:BE:71:A:O5'	38:BE:71:A:C8	2.73	0.42
39:BF:22:U:C5'	39:BF:57:C:H1'	2.50	0.42
40:BG:134:U:O5'	40:BG:134:U:C6	2.73	0.42
40:BG:157:A:C6	40:BG:159:A:C5	3.07	0.42
40:BG:17:A:C2	40:BG:18:U:N1	2.88	0.42
40:BG:26:G:C8	40:BG:26:G:H3'	2.54	0.42
40:BG:27:C:C6	40:BG:27:C:O5'	2.73	0.42
40:BG:80:G:H2'	40:BG:81:G:C8	2.54	0.42
41:BH:130:G:C5	41:BH:131:A:C8	3.06	0.42
41:BH:28:U:N3	41:BH:29:G:C6	2.88	0.42
41:BH:49:C:H3'	41:BH:49:C:C2	2.54	0.42
41:BH:54:U:H3	41:BH:67:G:H1	1.67	0.42
45:BL:56:ARG:HA	45:BL:72:ILE:H	1.85	0.42
49:BP:74:LEU:HD23	49:BP:75:LYS:CG	2.46	0.42
34:BA:1727:A:C2	57:BX:54:PHE:CZ	3.08	0.42
57:BX:71:ASN:O	57:BX:72:VAL:HG23	2.20	0.42
58:BY:54:ALA:HA	58:BY:59:TYR:CE2	2.53	0.42
34:BA:565:U:C3'	34:BA:565:U:C6	3.01	0.42
85:AA:125:A:N1	85:AA:126:U:C5	2.88	0.42
85:AA:132:G:N1	85:AA:139:G:C6	2.88	0.42
85:AA:160:A:C2'	85:AA:161:A:O5'	2.67	0.42
85:AA:2183:U:H3'	85:AA:2184:A:H8	1.84	0.42
85:AA:63:G:C2	85:AA:64:A:C4	3.08	0.42
32:AY:60:GLN:CD	32:AY:60:GLN:O	2.58	0.42
34:BA:669:U:C2'	34:BA:670:U:H5'	2.49	0.42
35:BB:526:A:H3'	35:BB:527:U:C5	2.54	0.42
35:BB:567:G:H2'	35:BB:568:A:O4'	2.20	0.42
35:BB:1027:U:H2'	35:BB:1028:C:O4'	2.20	0.42
35:BB:794:G:C5	35:BB:795:A:C5	3.08	0.42
35:BB:812:G:C6	35:BB:813:C:C4	3.08	0.42
35:BB:833:G:H2'	35:BB:834:U:OP2	2.20	0.42
85:AA:1202:G:N1	85:AA:1203:G:C5	2.88	0.42
15:AG:52:MET:HA	85:AA:1209:U:O4'	2.20	0.42
85:AA:1134:G:C8	85:AA:1135:U:C6	3.07	0.42
85:AA:1106:A:H2'	85:AA:1107:A:O5'	2.19	0.42
85:AA:940:G:C8	85:AA:1108:U:O2	2.73	0.42
85:AA:1893:G:C6	85:AA:1894:G:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AM:145:LYS:C	85:AA:1900:C:OP1	2.58	0.42
31:AX:139:GLY:N	85:AA:1654:G:H4'	2.34	0.42
34:BA:250:G:C5	34:BA:268:U:C4	3.07	0.42
34:BA:275:C:C4	34:BA:276:C:N4	2.88	0.42
34:BA:191:G:N1	34:BA:293:A:C4	2.87	0.42
34:BA:267:G:N2	59:BZ:99:SER:HB2	2.34	0.42
34:BA:605:G:C4	34:BA:606:G:C8	3.08	0.42
34:BA:1695:G:C4	34:BA:1696:G:N7	2.87	0.42
34:BA:597:C:H3'	34:BA:598:G:C8	2.54	0.42
85:AA:593:U:C6	85:AA:594:C:C5	3.08	0.42
85:AA:211:C:H2'	85:AA:241:U:O2	2.19	0.42
85:AA:188:G:O2'	85:AA:321:C:H5"	2.20	0.42
41:BH:15:A:C2	41:BH:16:A:H1'	2.54	0.42
85:AA:1469:G:N3	85:AA:1469:G:H5'	2.34	0.42
85:AA:1672:G:C2	85:AA:1673:A:C8	3.08	0.42
2:A1:127:TYR:HE1	85:AA:310:U:HO2'	1.63	0.42
85:AA:309:G:C2	85:AA:317:A:C5	3.07	0.42
85:AA:287:G:C4	85:AA:288:G:C5	3.08	0.42
85:AA:905:C:H5"	85:AA:907:G:N7	2.35	0.42
34:BA:1409:A:H2'	34:BA:1410:C:H6	1.84	0.42
52:BS:32:PHE:CZ	52:BS:102:ALA:HB2	2.55	0.42
85:AA:396:U:C4	85:AA:397:G:O6	2.72	0.42
6:A5:49:ARG:HG3	85:AA:399:A:C8	2.54	0.42
85:AA:429:G:OP2	85:AA:442:G:N2	2.53	0.42
85:AA:519:A:C8	85:AA:521:A:N7	2.88	0.42
35:BB:1015:U:C2	35:BB:1016:C:C5	3.08	0.42
35:BB:1016:C:O2	35:BB:1017:U:C6	2.73	0.42
35:BB:1001:G:C2	35:BB:1018:U:O2	2.73	0.42
85:AA:1233:G:N2	85:AA:1267:A:C5	2.88	0.42
34:BA:1093:G:N1	34:BA:1165:A:C6	2.87	0.42
34:BA:1095:G:C4	34:BA:1163:G:C5	3.08	0.42
11:AC:212:TRP:CD1	11:AC:231:TRP:CZ3	3.08	0.42
34:BA:999:G:C5	34:BA:1000:G:N7	2.87	0.42
85:AA:1434:U:H5'	85:AA:1436:A:C2	2.55	0.42
85:AA:1434:U:O2	85:AA:1436:A:C8	2.72	0.42
85:AA:764:U:C5	85:AA:767:A:H2	2.37	0.42
34:BA:1213:A:C6	34:BA:1214:U:C5	3.08	0.42
34:BA:575:U:H3'	34:BA:579:U:C4	2.55	0.42
34:BA:580:U:N3	34:BA:582:U:C6	2.87	0.42
34:BA:206:C:C4	34:BA:227:C:C5	3.07	0.42
85:AA:1250:A:H2'	85:AA:1251:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1848:G:N2	85:AA:1851:A:C8	2.88	0.42
35:BB:542:A:C2	35:BB:579:A:N3	2.88	0.42
85:AA:202:U:C3'	85:AA:202:U:C6	3.01	0.42
5:A4:33:GLU:O	5:A4:40:ARG:HB2	2.19	0.42
35:BB:1476:C:H3'	35:BB:1476:C:C6	2.55	0.42
35:BB:419:G:C6	35:BB:420:U:C5	3.07	0.42
1:A0:144:PHE:O	1:A0:209:LEU:HB3	2.19	0.42
85:AA:1797:U:C4	85:AA:1798:U:O4'	2.72	0.42
57:BX:136:ILE:HA	57:BX:142:LYS:HA	2.02	0.42
85:AA:1644:G:H21	85:AA:1887:G:C4'	2.32	0.42
85:AA:1646:U:C5'	85:AA:1647:G:H5"	2.50	0.42
85:AA:1649:U:C6	85:AA:1649:U:H5"	2.54	0.42
85:AA:1375:U:C2	85:AA:1376:U:C5	3.08	0.42
21:AM:83:TRP:CE3	21:AM:84:PHE:HB3	2.55	0.42
85:AA:1065:G:H2'	85:AA:1066:U:C6	2.55	0.42
40:BG:116:G:H2'	40:BG:117:C:O4'	2.20	0.42
35:BB:893:U:C3'	35:BB:893:U:C6	3.02	0.42
7:A6:134:ALA:N	7:A6:156:ALA:O	2.52	0.42
85:AA:1904:C:C6	85:AA:1904:C:H5"	2.54	0.42
35:BB:116:G:N1	35:BB:389:G:C4	2.88	0.42
34:BA:105:U:C4	34:BA:106:U:C5	3.07	0.42
18:AJ:104:LEU:HB2	18:AJ:125:VAL:HA	2.01	0.42
35:BB:316:U:H2'	35:BB:317:C:C6	2.55	0.42
12:AD:24:SER:HB3	31:AX:71:CYS:O	2.20	0.42
13:AE:142:GLY:C	13:AE:153:TYR:CD2	2.93	0.42
59:BZ:112:ARG:O	59:BZ:115:ILE:HG12	2.19	0.42
85:AA:1591:U:C2	85:AA:1592:C:C6	3.08	0.42
2:A1:230:SER:HB2	2:A1:232:VAL:HG23	2.01	0.42
6:A5:206:ALA:HA	6:A5:209:GLN:OE1	2.20	0.42
85:AA:2162:G:C4	85:AA:2163:G:C8	3.08	0.42
34:BA:1025:A:C4	34:BA:1026:C:C6	3.08	0.42
34:BA:1413:G:H2'	34:BA:1413:G:N3	2.34	0.42
34:BA:1424:G:C5	48:BO:79:ARG:O	2.73	0.42
34:BA:1464:C:H2'	34:BA:1465:C:H6	1.83	0.42
34:BA:1526:C:O4'	34:BA:1556:A:C2	2.72	0.42
34:BA:1609:U:H3	34:BA:1640:G:H1	1.67	0.42
34:BA:1719:G:N3	34:BA:1720:U:C6	2.88	0.42
34:BA:1801:G:N1	34:BA:1802:C:C4	2.88	0.42
34:BA:1691:G:N3	34:BA:1825:U:C6	2.88	0.42
34:BA:218:G:C2'	34:BA:219:U:H5'	2.50	0.42
34:BA:329:G:C2	34:BA:382:G:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:448:U:N3	34:BA:454:G:C6	2.87	0.42
34:BA:470:C:C2	36:BC:19:A:H2	2.38	0.42
34:BA:485:C:C2	34:BA:486:G:C6	3.08	0.42
34:BA:502:U:N3	34:BA:701:G:C6	2.88	0.42
34:BA:742:C:N3	34:BA:894:G:N2	2.68	0.42
34:BA:765:U:C6	59:BZ:2:VAL:CG1	3.02	0.42
34:BA:800:G:C2'	34:BA:801:U:C6	3.02	0.42
34:BA:816:G:C2	34:BA:817:U:C6	3.07	0.42
34:BA:825:G:N1	34:BA:843:G:C5	2.88	0.42
34:BA:828:A:N3	34:BA:828:A:H2'	2.34	0.42
34:BA:911:G:C6	34:BA:912:G:N7	2.87	0.42
34:BA:911:G:H2'	34:BA:912:G:O4'	2.20	0.42
35:BB:1079:G:H2'	35:BB:1080:U:O4'	2.19	0.42
35:BB:1110:G:N2	35:BB:1111:C:H1'	2.34	0.42
35:BB:1151:A:N7	35:BB:1153:G:C5	2.87	0.42
35:BB:1156:U:C6	35:BB:1156:U:O5'	2.67	0.42
35:BB:1219:A:C4	53:BT:16:ARG:NH2	138.88	0.42
35:BB:1453:G:N3	40:BG:172:C:C5	2.88	0.42
34:BA:1599:A:N3	35:BB:623:A:C6	2.88	0.42
35:BB:780:U:C4'	35:BB:781:U:OP1	2.67	0.42
35:BB:78:C:N3	35:BB:79:U:C5	2.87	0.42
35:BB:95:A:C5	35:BB:96:A:N7	2.88	0.42
35:BB:981:A:C4	57:BX:51:ARG:NH1	32.47	0.42
36:BC:119:G:C6	36:BC:145:G:O6	2.72	0.42
36:BC:41:A:C4	36:BC:42:G:C8	3.08	0.42
36:BC:92:C:C6	36:BC:93:C:C5	3.07	0.42
37:BD:23:A:H2'	37:BD:24:U:O4'	2.19	0.42
37:BD:79:G:C4	37:BD:98:G:N1	2.88	0.42
38:BE:132:U:H2'	38:BE:133:C:C6	2.55	0.42
38:BE:159:A:C5	38:BE:160:C:O2'	2.60	0.42
38:BE:170:U:C2	38:BE:171:U:C6	3.08	0.42
38:BE:177:U:N3	38:BE:178:G:C5	2.88	0.42
38:BE:1:U:H2'	38:BE:1:U:O2	2.20	0.42
38:BE:48:G:N1	38:BE:61:A:C6	2.87	0.42
39:BF:24:G:C5	48:BO:187:HIS:CD2	3.08	0.42
39:BF:62:U:H2'	39:BF:62:U:O5'	2.20	0.42
40:BG:122:G:H2'	40:BG:123:C:C6	2.55	0.42
40:BG:33:G:N1	40:BG:169:A:C5'	2.81	0.42
40:BG:57:A:N7	40:BG:58:G:H1'	2.34	0.42
40:BG:94:G:H2'	40:BG:95:U:H6	1.85	0.42
41:BH:119:U:C4	41:BH:120:C:N4	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BH:49:C:H4'	41:BH:50:A:N7	2.34	0.42
41:BH:65:G:C6	41:BH:66:G:C5	3.07	0.42
42:BI:69:VAL:HG23	42:BI:72:ARG:NH2	2.34	0.42
47:BN:20:CYS:C	47:BN:22:SER:H	2.22	0.42
47:BN:42:ARG:O	47:BN:46:LEU:HB3	2.18	0.42
51:BR:125:VAL:HG23	51:BR:141:ARG:HB3	2.02	0.42
34:BA:1441:C:H4'	52:BS:5:HIS:NE2	2.35	0.42
38:BE:49:A:OP1	55:BV:110:LEU:HD22	2.19	0.42
58:BY:83:GLU:OE1	85:AA:2160:U:C5'	2.68	0.42
34:BA:543:A:C2	34:BA:544:U:C2	3.05	0.42
34:BA:545:U:C5	34:BA:546:U:C4	3.07	0.42
4:A3:3:LEU:CD1	4:A3:18:VAL:H	2.33	0.42
85:AA:107:A:O2'	85:AA:108:C:H5'	2.20	0.42
85:AA:1189:A:N6	85:AA:1190:G:C5	2.88	0.42
85:AA:156:G:C2	85:AA:157:G:H1'	2.55	0.42
85:AA:27:U:C2'	85:AA:28:A:H5'	2.49	0.42
85:AA:332:A:N6	85:AA:356:U:H3	2.17	0.42
85:AA:41:G:C6	85:AA:537:G:N3	2.86	0.42
85:AA:491:G:C2	85:AA:492:C:C2	3.07	0.42
85:AA:33:U:C4	85:AA:538:A:N7	2.88	0.42
85:AA:684:G:H5'	85:AA:687:G:N2	2.34	0.42
85:AA:690:G:C1'	85:AA:695:A:C4	3.03	0.42
85:AA:90:A:C6	85:AA:463:G:C6	3.07	0.42
34:BA:621:G:H8	34:BA:621:G:O5'	2.03	0.42
35:BB:546:A:N7	35:BB:550:G:C2	2.88	0.42
35:BB:817:C:N3	35:BB:823:G:N1	2.66	0.42
85:AA:962:U:H1'	85:AA:992:G:N2	2.34	0.42
85:AA:1182:A:C8	85:AA:1182:A:C3'	3.00	0.42
35:BB:1186:A:N3	35:BB:1186:A:C2'	2.81	0.42
85:AA:2109:G:N1	85:AA:2110:U:C4	2.88	0.42
85:AA:2110:U:H2'	85:AA:2111:C:C6	2.55	0.42
35:BB:530:C:C6	85:AA:2231:G:N3	2.87	0.42
5:A4:48:ILE:HG13	5:A4:49:ASN:H	1.85	0.42
85:AA:1126:G:C2	85:AA:1127:G:N9	2.88	0.42
85:AA:1106:A:H2'	85:AA:1107:A:C5'	2.50	0.42
85:AA:1570:A:N9	85:AA:1659:C:H4'	2.35	0.42
85:AA:1894:G:H2'	85:AA:1895:C:C6	2.55	0.42
85:AA:2007:G:N1	85:AA:2008:G:C2	2.88	0.42
85:AA:2037:A:H3'	85:AA:2038:C:C6	2.54	0.42
85:AA:2043:A:C5	85:AA:2044:A:H1'	2.54	0.42
17:AI:41:LYS:HE3	17:AI:44:VAL:HG11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:257:G:C2'	34:BA:258:C:H6	2.33	0.42
34:BA:262:A:C2	34:BA:280:A:N6	2.86	0.42
34:BA:603:U:C2	34:BA:680:C:C2'	2.99	0.42
85:AA:1976:G:N1	85:AA:1977:G:C5	2.88	0.42
22:AO:36:SER:HA	22:AO:39:PHE:CE2	2.55	0.42
34:BA:1239:G:O6	34:BA:1246:G:C6	2.72	0.42
35:BB:673:C:H1'	35:BB:1277:A:N1	2.34	0.42
35:BB:641:C:C4	35:BB:1399:A:C4	3.07	0.42
85:AA:185:A:C2'	85:AA:186:U:C2	3.03	0.42
35:BB:1525:G:C4	35:BB:1526:C:C6	3.07	0.42
85:AA:9:U:N3	85:AA:11:A:H5"	2.34	0.42
85:AA:1288:A:C5'	85:AA:1288:A:H8	2.32	0.42
85:AA:1686:G:C6	85:AA:1687:U:N3	2.88	0.42
85:AA:2105:G:C8	85:AA:2105:G:H3'	2.54	0.42
2:A1:130:THR:HA	85:AA:318:A:H5"	2.02	0.42
13:AE:56:LEU:HA	85:AA:312:G:N9	2.35	0.42
85:AA:2170:G:C8	85:AA:2171:A:C8	3.07	0.42
85:AA:2171:A:H2'	85:AA:2172:A:OP2	2.19	0.42
85:AA:282:C:N4	85:AA:288:G:H1	2.18	0.42
85:AA:1923:A:N6	85:AA:1991:C:H41	2.18	0.42
34:BA:1334:G:O6	34:BA:1335:A:C4	2.73	0.42
34:BA:1335:A:C4	34:BA:1336:U:C4	3.06	0.42
85:AA:1156:A:C8	85:AA:1156:A:H3'	2.54	0.42
85:AA:1157:U:C5	85:AA:1158:U:H6	2.38	0.42
85:AA:1260:G:C2	85:AA:1261:U:C4	3.08	0.42
85:AA:1266:C:H2'	85:AA:1267:A:H8	1.85	0.42
25:AR:7:TYR:HA	25:AR:12:VAL:O	2.20	0.42
85:AA:338:G:C5	85:AA:352:G:C2	3.07	0.42
35:BB:1415:G:C5	35:BB:1434:G:N1	2.88	0.42
34:BA:1346:U:N3	34:BA:1400:A:N1	2.68	0.42
34:BA:1378:A:H2'	34:BA:1379:G:N3	2.34	0.42
85:AA:813:G:C5	85:AA:865:G:N1	2.88	0.42
85:AA:869:A:H2'	85:AA:869:A:N3	2.34	0.42
34:BA:1040:G:C4	34:BA:1041:U:N1	2.88	0.42
85:AA:761:G:OP2	85:AA:1035:C:H5'	2.20	0.42
85:AA:341:C:N3	85:AA:342:C:C6	2.88	0.42
34:BA:1087:A:C2	34:BA:1213:A:N1	2.87	0.42
34:BA:580:U:N3	34:BA:582:U:N1	2.68	0.42
85:AA:654:A:C6	85:AA:657:C:C2	3.08	0.42
86:AB:3:C:C4	86:AB:71:G:C6	3.07	0.42
27:AT:80:GLY:O	27:AT:81:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1848:G:C8	85:AA:1848:G:H3'	2.54	0.42
12:AD:33:TRP:CD1	85:AA:1957:C:O4'	2.73	0.42
34:BA:1152:A:C5	44:BK:22:PHE:CE2	3.08	0.42
85:AA:1082:U:N3	85:AA:1083:C:C5	2.88	0.42
52:BS:14:ARG:NH1	52:BS:15:GLU:O	2.52	0.42
85:AA:831:C:C6	85:AA:853:G:OP1	2.72	0.42
35:BB:863:U:H3'	35:BB:864:U:H6	1.85	0.42
85:AA:770:C:C5	85:AA:771:A:C8	3.07	0.42
35:BB:398:A:C6	35:BB:590:G:C6	3.07	0.42
35:BB:893:U:H3'	35:BB:893:U:C6	2.55	0.42
11:AC:77:ARG:HG3	20:AL:127:ALA:HB2	2.01	0.42
13:AE:103:ARG:HG3	13:AE:120:HIS:HD2	1.84	0.42
85:AA:1903:G:C4	85:AA:1904:C:C6	3.08	0.42
47:BN:129:VAL:HG13	47:BN:148:VAL:HG11	2.02	0.42
22:AO:28:PRO:CA	22:AO:32:VAL:H	2.31	0.42
35:BB:886:G:C6	35:BB:887:G:C4	3.08	0.42
27:AT:54:TYR:O	27:AT:55:LYS:HG3	2.19	0.42
11:AC:158:LEU:HD23	11:AC:180:VAL:HG21	2.01	0.42
85:AA:1478:G:C6	85:AA:1479:U:O4	2.73	0.42
4:A3:7:TYR:HB2	4:A3:127:VAL:HB	2.02	0.42
42:BI:184:SER:HA	42:BI:187:ARG:HG2	2.01	0.42
3:A2:109:GLU:CA	3:A2:127:VAL:HG23	2.50	0.42
53:BT:116:ASP:O	53:BT:119:ILE:HG22	2.19	0.42
28:AU:43:GLN:H	28:AU:75:LEU:HG	1.84	0.42
13:AE:113:TYR:N	13:AE:113:TYR:CD2	2.88	0.42
42:BI:161:ALA:HB2	42:BI:171:PRO:HG3	2.02	0.42
3:A2:155:LEU:HB2	3:A2:156:PRO:HD3	2.01	0.42
31:AX:145:ARG:HG3	31:AX:146:ALA:N	2.35	0.42
23:AP:131:VAL:O	23:AP:134:ALA:HB3	2.20	0.42
27:AT:47:ARG:HB3	27:AT:62:ILE:HG21	2.01	0.42
59:BZ:64:GLU:HG2	59:BZ:65:GLY:N	2.34	0.42
8:A7:302:SER:O	8:A7:309:ILE:HA	2.20	0.42
34:BA:1191:C:O2'	34:BA:1192:A:H5'	2.19	0.42
34:BA:1222:C:H2'	34:BA:1223:C:O4'	2.20	0.42
34:BA:1329:U:O5'	34:BA:1329:U:H6	2.03	0.42
34:BA:130:U:C4	34:BA:132:U:C5	3.07	0.42
34:BA:1415:C:HO2'	34:BA:1416:C:H6	1.64	0.42
34:BA:1422:A:C5	35:BB:1397:G:O4'	2.72	0.42
34:BA:1443:U:H2'	34:BA:1454:G:C8	2.54	0.42
34:BA:1537:G:N2	34:BA:1538:G:C8	2.88	0.42
34:BA:155:U:C5	34:BA:156:U:H3'	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1587:C:C2	34:BA:1588:U:C6	3.07	0.42
34:BA:1600:G:C4	34:BA:1601:C:C5	3.08	0.42
34:BA:1658:G:N1	34:BA:1659:G:C4	2.88	0.42
34:BA:1667:G:H2'	34:BA:1668:C:H6	1.85	0.42
34:BA:1724:G:H2'	34:BA:1725:U:O5'	2.20	0.42
34:BA:172:A:C6	34:BA:173:U:C4	3.08	0.42
34:BA:20:A:OP2	34:BA:1716:A:C2	2.73	0.42
34:BA:21:C:C3'	34:BA:22:C:H6	2.33	0.42
34:BA:23:A:H2'	34:BA:24:C:H6	1.85	0.42
34:BA:240:C:H2'	34:BA:241:U:C5'	2.49	0.42
34:BA:64:A:C2	34:BA:364:C:O4'	2.73	0.42
34:BA:387:A:C2	34:BA:388:A:C2	3.07	0.42
34:BA:397:A:N6	36:BC:30:U:C4	2.87	0.42
34:BA:407:A:C8	34:BA:433:G:C6	3.07	0.42
34:BA:470:C:C2	34:BA:471:U:C6	3.08	0.42
34:BA:503:C:C2	34:BA:700:G:N3	2.88	0.42
34:BA:27:G:C2	34:BA:52:G:C5	3.08	0.42
34:BA:60:A:C5	34:BA:61:G:C6	3.07	0.42
34:BA:66:C:C4	34:BA:67:A:C8	3.08	0.42
34:BA:503:C:H1'	34:BA:700:G:N2	2.35	0.42
34:BA:707:C:C2	34:BA:708:C:C5	3.07	0.42
34:BA:741:A:C5	34:BA:742:C:H1'	2.54	0.42
34:BA:747:G:C8	34:BA:748:C:C5	3.07	0.42
34:BA:795:G:C5	34:BA:796:G:C5	3.07	0.42
34:BA:807:U:H2'	34:BA:809:U:O4	2.19	0.42
34:BA:825:G:C4	34:BA:843:G:C2	3.07	0.42
34:BA:854:A:H2'	34:BA:855:C:C6	2.55	0.42
35:BB:1102:U:O4	35:BB:1160:U:C2	2.72	0.42
35:BB:1209:A:C8	35:BB:1258:G:N3	2.88	0.42
35:BB:1220:A:H2'	35:BB:1221:G:N9	2.35	0.42
35:BB:1339:C:C2	35:BB:1340:U:C5	3.08	0.42
34:BA:1421:A:C4	35:BB:1345:A:N1	2.88	0.42
35:BB:1353:G:N1	35:BB:1354:C:C5	2.87	0.42
35:BB:1444:U:C4	35:BB:1445:A:C5	3.08	0.42
35:BB:20:U:O4'	35:BB:25:A:C6	2.72	0.42
35:BB:369:A:C6	35:BB:370:A:C6	3.07	0.42
35:BB:75:A:H5"	35:BB:76:C:OP1	2.19	0.42
35:BB:78:C:C4	35:BB:79:U:C5	3.08	0.42
35:BB:92:C:C2	35:BB:93:A:C8	3.08	0.42
36:BC:107:C:C4	36:BC:108:A:C8	3.08	0.42
36:BC:134:G:C5	36:BC:135:A:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BC:151:G:C6	36:BC:152:C:C4	3.07	0.42
36:BC:17:U:N3	36:BC:18:G:C6	2.87	0.42
34:BA:402:G:C6	36:BC:26:U:C2	3.08	0.42
38:BE:9:C:C4	38:BE:12:A:C2	3.07	0.42
40:BG:40:G:C2	40:BG:71:C:O2	2.72	0.42
40:BG:45:G:N2	40:BG:46:G:H1'	2.35	0.42
41:BH:34:G:C6	41:BH:121:A:N1	2.88	0.42
41:BH:35:G:N1	41:BH:120:C:C2	2.88	0.42
41:BH:58:C:N4	41:BH:59:G:C6	2.88	0.42
41:BH:68:G:C6	41:BH:69:C:C5	3.07	0.42
38:BE:27:A:H5"	43:BJ:41:GLN:OE1	101.92	0.42
35:BB:1127:A:C4	45:BL:64:PHE:CD2	3.08	0.42
48:BO:120:LEU:HD12	48:BO:121:VAL:N	2.35	0.42
49:BP:19:PRO:HD2	49:BP:20:ARG:CZ	2.49	0.42
50:BQ:112:ASN:N	50:BQ:112:ASN:OD1	2.53	0.42
51:BR:131:ARG:HB2	51:BR:135:ARG:HB3	2.01	0.42
34:BA:464:U:H5	51:BR:3:HIS:CD2	2.37	0.42
34:BA:536:C:O5'	34:BA:536:C:H6	2.03	0.42
85:AA:1494:C:H4'	85:AA:1495:G:C5'	2.49	0.42
85:AA:175:A:C2	85:AA:176:C:N1	2.88	0.42
85:AA:128:U:C1'	85:AA:180:A:H4'	2.49	0.42
85:AA:460:U:C4	85:AA:461:G:C5	3.08	0.42
85:AA:58:C:O2'	85:AA:517:A:H1'	2.19	0.42
85:AA:662:U:H2'	85:AA:663:C:O4'	2.20	0.42
34:BA:627:U:O2	34:BA:629:G:C6	2.73	0.42
34:BA:632:U:C4	34:BA:633:G:C5	3.08	0.42
34:BA:658:C:H2'	34:BA:658:C:O2	2.20	0.42
34:BA:660:C:H2'	34:BA:661:C:H6	1.85	0.42
35:BB:561:C:N3	35:BB:564:U:C6	2.88	0.42
35:BB:826:G:N2	35:BB:827:U:C2	2.88	0.42
3:A2:184:ARG:HH22	86:AB:41:C:C3'	2.16	0.42
53:BT:190:ARG:HH21	53:BT:191:ASP:CG	2.22	0.42
85:AA:1120:G:C5	85:AA:1206:A:N1	2.88	0.42
85:AA:701:C:C5	85:AA:702:G:C5	3.08	0.42
85:AA:707:U:H2'	85:AA:708:G:O4'	2.20	0.42
35:BB:1161:G:N2	35:BB:1199:A:C5	2.88	0.42
35:BB:1163:U:C6	35:BB:1164:U:C5	3.08	0.42
85:AA:1105:G:H2'	85:AA:1106:A:C2	2.55	0.42
85:AA:874:A:C2	85:AA:875:C:C2	3.07	0.42
85:AA:928:U:N3	85:AA:929:G:C4	2.88	0.42
85:AA:937:G:H8	85:AA:937:G:H3'	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:938:A:C5	85:AA:939:A:C4	3.07	0.42
85:AA:1661:U:C6	85:AA:1663:U:C2	3.08	0.42
85:AA:1894:G:C2	85:AA:1895:C:N3	2.88	0.42
85:AA:2046:G:C6	85:AA:2047:U:C4	3.07	0.42
34:BA:254:U:O4	34:BA:255:G:C5	2.73	0.42
34:BA:273:G:C4	34:BA:274:C:C5	3.08	0.42
34:BA:277:A:H5'	59:BZ:29:SER:HB3	2.02	0.42
34:BA:520:G:H2'	34:BA:521:C:H4'	2.01	0.42
35:BB:665:A:C6	35:BB:1404:A:C6	3.08	0.42
34:BA:1697:U:H6	34:BA:1697:U:P	2.43	0.42
27:AT:37:TRP:CD1	27:AT:38:CYS:CB	3.03	0.42
85:AA:1670:U:C4	85:AA:1671:G:N7	2.88	0.42
85:AA:2105:G:C5	85:AA:2106:C:C4	3.08	0.42
85:AA:554:A:C2	85:AA:574:U:N3	2.88	0.42
85:AA:575:G:C2	85:AA:577:U:C5	3.08	0.42
85:AA:2057:G:N2	85:AA:2074:G:C4	2.87	0.42
85:AA:2061:C:O2'	85:AA:2062:U:C6	2.73	0.42
85:AA:2085:C:H1'	85:AA:2086:C:C6	2.55	0.42
24:AQ:16:ARG:HA	24:AQ:88:LEU:O	2.19	0.42
34:BA:1344:G:H4'	40:BG:145:C:O4'	2.19	0.42
85:AA:404:A:C5	85:AA:405:C:C5	3.08	0.42
13:AE:144:CYS:SG	13:AE:145:ARG:HG2	2.60	0.42
85:AA:68:A:C2	85:AA:81:A:H1'	2.54	0.42
85:AA:79:G:C6	85:AA:80:G:C4	3.08	0.42
85:AA:66:U:H5"	85:AA:81:A:H61	1.84	0.42
47:BN:80:PHE:CG	47:BN:85:LEU:HD11	2.54	0.42
34:BA:1128:C:H3'	34:BA:1129:U:C5'	2.49	0.42
39:BF:36:G:N1	39:BF:48:G:C6	2.88	0.42
85:AA:1036:A:C5	85:AA:1037:U:C4	3.08	0.42
34:BA:1122:G:N2	34:BA:1139:G:H1'	2.33	0.42
86:AB:30:G:C6	86:AB:31:A:C6	3.07	0.42
85:AA:1251:G:C5	85:AA:1252:A:N7	2.87	0.42
5:A4:45:ARG:CZ	85:AA:1001:G:H5'	2.50	0.42
35:BB:1384:A:C6	35:BB:1385:C:C4	3.08	0.42
4:A3:230:ARG:HD3	4:A3:231:HIS:CE1	2.55	0.42
85:AA:1089:G:C6	85:AA:1090:A:C4	3.08	0.42
85:AA:1167:G:C6	85:AA:1168:C:N4	2.88	0.42
34:BA:721:A:H2'	34:BA:722:A:H8	1.84	0.42
34:BA:723:C:N4	35:BB:642:G:H4'	2.35	0.42
35:BB:637:G:O5'	35:BB:637:G:C8	2.73	0.42
48:BO:201:ARG:HB3	49:BP:124:ALA:HB3	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:140:C:C5	34:BA:140:C:OP2	2.73	0.42
85:AA:1809:G:H3'	85:AA:1809:G:H8	1.83	0.42
86:AB:50:U:H1'	86:AB:65:G:H22	1.85	0.42
35:BB:712:U:C5	35:BB:713:U:C4	3.07	0.42
85:AA:1366:A:H3'	85:AA:1366:A:H8	1.84	0.42
2:A1:175:GLY:HA2	2:A1:192:ILE:O	2.19	0.42
8:A7:195:HIS:CD2	8:A7:195:HIS:H	2.38	0.42
85:AA:1345:C:O2'	85:AA:1426:G:C5'	2.68	0.42
21:AM:28:PRO:HA	21:AM:41:PHE:CZ	2.55	0.42
13:AE:105:ASN:HA	13:AE:120:HIS:HB2	2.02	0.42
85:AA:1553:G:C6	85:AA:1903:G:C6	3.07	0.42
85:AA:1555:G:C5	85:AA:1556:G:C8	3.08	0.42
34:BA:550:U:H3	34:BA:555:C:H41	1.68	0.42
86:AB:48:C:O2	86:AB:48:C:C2'	2.67	0.42
2:A1:195:ILE:HA	2:A1:204:ILE:O	2.19	0.42
9:A8:21:HIS:O	9:A8:21:HIS:CD2	2.73	0.42
22:AO:161:GLY:HA2	28:AU:100:CYS:HA	2.01	0.42
50:BQ:55:ARG:HA	50:BQ:79:PHE:CE1	2.54	0.42
18:AJ:36:LYS:O	18:AJ:40:VAL:HG23	2.20	0.42
8:A7:252:MET:SD	8:A7:263:PHE:HB2	2.60	0.42
35:BB:1183:U:O2	35:BB:1183:U:H2'	2.20	0.42
50:BQ:35:VAL:H	50:BQ:35:VAL:HG12	1.39	0.42
85:AA:1567:C:C4	85:AA:1571:A:C2	3.07	0.42
7:A6:46:MET:O	7:A6:50:LYS:HG3	2.20	0.42
35:BB:56:U:OP1	53:BT:55:VAL:HB	2.20	0.42
85:AA:1966:C:C4	85:AA:1967:A:N7	2.88	0.42
59:BZ:86:LYS:HB3	59:BZ:90:THR:HG1	1.84	0.42
42:BI:185:LYS:HA	42:BI:185:LYS:HE2	2.00	0.42
35:BB:321:C:H2'	35:BB:322:G:H5"	2.02	0.42
2:A1:246:VAL:HA	2:A1:249:GLU:HG2	2.02	0.42
35:BB:337:U:H2'	35:BB:338:C:C6	2.55	0.42
35:BB:1060:U:C2	35:BB:1262:A:N7	2.88	0.42
38:BE:79:G:H5'	38:BE:82:C:C6	2.55	0.42
29:AV:37:SER:HB3	29:AV:78:CYS:SG	2.60	0.42
34:BA:1007:G:C8	34:BA:1024:A:C5	3.08	0.42
34:BA:1049:G:C6	34:BA:1516:G:C4	3.07	0.42
34:BA:1191:C:H2'	34:BA:1192:A:O4'	2.20	0.42
34:BA:1202:G:N1	34:BA:1203:G:C4	2.88	0.42
34:BA:1202:G:N2	34:BA:1203:G:H1'	2.34	0.42
34:BA:1226:G:C4'	34:BA:1519:G:H4'	2.50	0.42
34:BA:1254:C:H2'	34:BA:1255:G:C5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1417:C:N3	34:BA:1418:G:C4	2.87	0.42
34:BA:1553:G:N3	34:BA:1557:G:C2	2.88	0.42
34:BA:1590:G:H2'	34:BA:1591:G:O4'	2.20	0.42
34:BA:1619:U:O2'	34:BA:1620:U:H5'	2.20	0.42
34:BA:1657:A:C2	34:BA:1658:G:H1'	2.55	0.42
34:BA:1686:G:C6	34:BA:1687:A:C5	3.07	0.42
34:BA:1738:G:N2	34:BA:1787:U:C2	2.88	0.42
34:BA:301:U:C6	34:BA:301:U:H3'	2.55	0.42
34:BA:172:A:N6	34:BA:316:G:C6	2.88	0.42
34:BA:152:C:N4	34:BA:327:G:H3'	2.29	0.42
34:BA:365:A:C5	34:BA:377:G:N1	2.88	0.42
34:BA:375:C:C5	34:BA:375:C:OP2	2.73	0.42
34:BA:38:G:C2	35:BB:1259:A:C5	3.08	0.42
34:BA:416:A:OP1	34:BA:416:A:C8	2.73	0.42
34:BA:36:A:C2	34:BA:42:A:N1	2.87	0.42
34:BA:457:A:H2'	34:BA:458:G:H8	1.85	0.42
34:BA:483:A:H1'	40:BG:17:A:C5'	2.50	0.42
34:BA:57:A:H3'	34:BA:57:A:C8	2.55	0.42
34:BA:757:G:C2'	34:BA:758:G:OP2	2.62	0.42
34:BA:786:U:C6	34:BA:786:U:O5'	2.73	0.42
34:BA:851:C:N3	34:BA:852:C:C5	2.88	0.42
34:BA:913:U:C2	34:BA:914:G:C8	3.08	0.42
35:BB:1096:G:N1	35:BB:1097:U:C5	2.88	0.42
35:BB:1119:G:N1	35:BB:1120:A:C5	2.88	0.42
35:BB:1172:U:H2'	35:BB:1173:C:C6	2.55	0.42
35:BB:1315:C:OP2	35:BB:1315:C:C6	2.72	0.42
35:BB:1335:G:C5	35:BB:1336:G:N7	2.88	0.42
35:BB:18:A:C8	35:BB:19:C:C5	3.07	0.42
35:BB:392:G:N1	35:BB:393:A:C4	2.88	0.42
35:BB:404:A:N3	35:BB:410:A:C5	2.88	0.42
35:BB:626:C:N3	35:BB:627:G:C5	2.88	0.42
34:BA:1845:G:N2	35:BB:6:A:H1'	2.35	0.42
35:BB:73:G:H3'	35:BB:74:U:H6	1.85	0.42
35:BB:781:U:C6	35:BB:781:U:OP1	2.69	0.42
36:BC:135:A:N1	36:BC:136:G:C6	2.87	0.42
34:BA:14:G:N1	36:BC:154:A:C6	2.87	0.42
36:BC:161:U:C5	36:BC:162:C:C5	3.08	0.42
36:BC:23:G:C5	36:BC:24:G:N7	2.87	0.42
37:BD:1:G:N1	37:BD:2:G:C6	2.88	0.42
37:BD:54:A:C2	37:BD:55:A:H1'	2.55	0.42
37:BD:55:A:C5	37:BD:56:G:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BD:79:G:C6	37:BD:80:G:N7	2.88	0.42
37:BD:89:G:H3'	37:BD:89:G:C8	2.54	0.42
37:BD:89:G:N3	37:BD:90:A:C2	2.88	0.42
37:BD:98:G:C3'	37:BD:99:G:C8	3.02	0.42
38:BE:95:G:C2	38:BE:126:G:C4	3.08	0.42
38:BE:144:A:C5	38:BE:145:A:C8	3.08	0.42
38:BE:157:C:H3'	38:BE:158:U:C6	2.55	0.42
38:BE:172:U:H2'	38:BE:173:G:C8	2.55	0.42
38:BE:18:U:C2	38:BE:20:C:C6	3.08	0.42
38:BE:20:C:N4	38:BE:198:A:N6	2.67	0.42
38:BE:37:C:N4	38:BE:176:G:C6	2.88	0.42
40:BG:89:A:C2	40:BG:111:C:C2	3.08	0.42
40:BG:176:G:N1	40:BG:177:U:C4	2.88	0.42
40:BG:3:G:N2	40:BG:4:A:H1'	2.35	0.42
40:BG:44:G:C4	40:BG:45:G:C8	3.08	0.42
41:BH:56:C:C2	41:BH:57:A:C8	3.08	0.42
47:BN:52:PHE:HB3	47:BN:152:THR:OG1	2.20	0.42
53:BT:63:TRP:CE3	53:BT:67:LYS:HE3	2.55	0.42
58:BY:82:ALA:HB1	85:AA:2159:C:O2	2.07	0.42
4:A3:54:ARG:C	4:A3:54:ARG:HD3	2.40	0.42
85:AA:1188:A:C5	85:AA:1189:A:C5	3.07	0.42
23:AP:178:ARG:NH1	85:AA:1474:U:O2	2.52	0.42
85:AA:1482:C:H3'	85:AA:1482:C:C6	2.54	0.42
85:AA:1493:A:N3	85:AA:1508:A:C6	2.88	0.42
85:AA:147:G:N2	85:AA:177:A:H1'	2.34	0.42
85:AA:535:G:C2'	85:AA:536:C:H5'	2.50	0.42
85:AA:41:G:C6	85:AA:537:G:C2	3.08	0.42
85:AA:669:G:H2'	85:AA:670:C:C6	2.55	0.42
27:AT:100:ARG:HH21	85:AA:596:A:P	2.42	0.42
32:AY:57:MET:C	32:AY:60:GLN:HE22	2.21	0.42
34:BA:612:U:H5"	34:BA:612:U:H6	1.85	0.42
35:BB:793:A:N1	35:BB:794:G:C4	2.88	0.42
35:BB:813:C:H2'	35:BB:814:A:O4'	2.19	0.42
35:BB:839:G:C4	35:BB:840:C:C6	3.07	0.42
85:AA:963:U:C6	85:AA:963:U:H3'	2.55	0.42
85:AA:1181:U:OP1	85:AA:1181:U:C5	2.72	0.42
85:AA:1209:U:OP2	85:AA:1209:U:C5	2.73	0.42
85:AA:708:G:C2	85:AA:1215:A:C5	3.08	0.42
35:BB:1168:G:C2	35:BB:1185:G:C2	3.08	0.42
35:BB:467:G:H2'	35:BB:467:G:N3	2.35	0.42
85:AA:1140:G:H2'	85:AA:1141:U:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1650:G:H1	85:AA:1875:A:N6	2.18	0.42
85:AA:1652:A:C5	85:AA:1653:U:C6	3.08	0.42
85:AA:1658:G:C2	85:AA:1867:G:C5	3.08	0.42
85:AA:1546:G:O6	85:AA:2041:G:C8	2.73	0.42
31:AX:144:GLN:NE2	85:AA:653:A:H3'	2.30	0.42
34:BA:293:A:N7	34:BA:294:C:C5	2.88	0.42
34:BA:1210:A:C4'	54:BU:131:SER:HA	2.36	0.42
22:AO:132:LYS:NZ	85:AA:1964:A:OP1	2.51	0.42
85:AA:1984:A:H5'	85:AA:1984:A:C8	2.54	0.42
34:BA:725:C:H2'	34:BA:726:G:C8	2.54	0.42
35:BB:1090:A:N6	35:BB:1092:G:C4	2.88	0.42
35:BB:666:A:C8	35:BB:667:G:N7	2.88	0.42
34:BA:1498:A:C6	34:BA:1499:A:C6	3.08	0.42
27:AT:7:LYS:HZ2	85:AA:605:A:H5'	1.84	0.42
35:BB:1496:C:C2	35:BB:1510:G:C2	3.08	0.42
35:BB:366:G:C6	35:BB:367:C:C4	3.08	0.42
41:BH:10:U:N3	41:BH:20:A:N1	2.68	0.42
85:AA:1667:C:C6	85:AA:1667:C:H5"	2.55	0.42
85:AA:2214:A:N6	85:AA:2215:C:C4	2.88	0.42
85:AA:2147:A:H8	85:AA:2147:A:OP2	2.03	0.42
85:AA:270:A:H2'	85:AA:271:A:O5'	2.20	0.42
85:AA:287:G:C6	85:AA:288:G:C5	3.08	0.42
85:AA:572:G:N2	85:AA:573:U:C2	2.88	0.42
85:AA:585:G:N2	85:AA:617:C:H1'	2.35	0.42
85:AA:2055:G:C6	85:AA:2056:C:C2	3.07	0.42
19:AK:129:ARG:HA	85:AA:2051:G:O2'	2.20	0.42
85:AA:119:G:H2'	85:AA:120:C:O2	2.20	0.42
47:BN:200:PHE:CE2	47:BN:207:ALA:HA	2.55	0.42
35:BB:996:G:N1	35:BB:997:G:C5	2.88	0.42
35:BB:997:G:N1	35:BB:998:G:C4	2.87	0.42
85:AA:1155:A:C6	85:AA:1156:A:C4	3.08	0.42
85:AA:1264:U:O5'	85:AA:1264:U:H6	2.03	0.42
85:AA:71:G:C4	85:AA:78:A:C6	3.07	0.42
85:AA:71:G:C5	85:AA:78:A:N6	2.88	0.42
35:BB:1504:U:C5	49:BP:139:TRP:CD2	3.08	0.42
34:BA:1091:U:C4	34:BA:1092:U:C4	3.07	0.42
47:BN:84:GLU:HG2	47:BN:114:MET:HA	2.01	0.42
34:BA:923:C:C2	34:BA:1001:G:C2	3.08	0.42
39:BF:49:C:C2'	39:BF:50:C:H6	2.33	0.42
85:AA:749:C:H1'	85:AA:756:G:N2	2.35	0.42
85:AA:343:U:C5	85:AA:345:U:OP2	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:575:U:H2'	34:BA:579:U:C2	2.54	0.42
19:AK:33:CYS:HA	85:AA:1792:C:C6	2.55	0.42
85:AA:1095:C:C2	85:AA:1096:G:C8	3.08	0.42
23:AP:126:ARG:HA	23:AP:126:ARG:HD2	1.88	0.42
85:AA:1713:A:C5	85:AA:1855:U:N3	2.88	0.42
34:BA:510:U:H3'	34:BA:511:U:C4	2.55	0.42
85:AA:773:G:H2'	85:AA:773:G:N3	2.35	0.42
1:A0:198:ARG:HH11	1:A0:198:ARG:HG3	1.84	0.42
35:BB:744:U:C5	35:BB:745:C:C4	3.07	0.42
34:BA:1380:G:H2'	34:BA:1382:G:O4'	2.20	0.42
86:AB:52:G:C8	86:AB:52:G:H5"	2.55	0.42
35:BB:889:U:H1'	35:BB:894:A:C5	2.55	0.42
21:AM:41:PHE:CZ	21:AM:43:TYR:HA	2.55	0.42
34:BA:1081:U:C6	34:BA:1081:U:C3'	3.02	0.42
85:AA:1378:U:H2'	85:AA:1379:A:C8	2.54	0.42
35:BB:355:A:C6	35:BB:356:C:C4	3.08	0.42
34:BA:1351:G:N3	34:BA:1374:G:C2	2.88	0.42
2:A1:100:TYR:CE1	2:A1:106:PHE:CE2	3.07	0.42
5:A4:89:LYS:HA	85:AA:1024:G:H4'	2.02	0.42
23:AP:232:TYR:CE2	25:AR:19:PRO:HB3	2.55	0.42
44:BK:169:LYS:O	44:BK:177:LEU:HA	2.20	0.42
85:AA:1567:C:C6	85:AA:1571:A:H1'	2.55	0.42
31:AX:157:ILE:CG2	31:AX:163:HIS:HA	2.50	0.42
42:BI:119:ARG:HE	42:BI:119:ARG:HB3	1.68	0.42
35:BB:1060:U:H3	35:BB:1262:A:N6	2.18	0.42
23:AP:62:GLU:HG2	23:AP:62:GLU:H	1.48	0.42
26:AS:35:ALA:O	26:AS:39:ASN:HB2	2.20	0.42
35:BB:149:A:C8	35:BB:267:C:C5	3.08	0.42
23:AP:133:LEU:HA	23:AP:136:ARG:CZ	2.50	0.42
85:AA:2155:U:H2'	85:AA:2156:C:C6	2.54	0.41
34:BA:1008:A:H2'	34:BA:1009:G:O4'	2.21	0.41
34:BA:1070:G:N1	34:BA:1071:G:C5	2.88	0.41
34:BA:1108:U:C6	34:BA:1108:U:O5'	2.71	0.41
34:BA:1155:U:C5	34:BA:1156:U:C5	3.07	0.41
34:BA:1170:A:C4	34:BA:1171:C:C5	3.08	0.41
34:BA:1276:G:C4	34:BA:1277:G:C8	3.07	0.41
34:BA:1302:C:N3	34:BA:1303:U:C5	2.88	0.41
34:BA:1310:C:N4	34:BA:1311:G:N1	2.68	0.41
34:BA:1527:G:H2'	34:BA:1528:U:H6	1.85	0.41
34:BA:1661:U:O2	34:BA:1663:U:C5	2.73	0.41
34:BA:1667:G:H2'	34:BA:1668:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1686:G:C6	34:BA:1687:A:C6	3.08	0.41
34:BA:1735:G:O6	34:BA:1789:A:H2	2.03	0.41
34:BA:176:G:C6	34:BA:177:G:C5	3.08	0.41
34:BA:1791:C:H2'	34:BA:1792:U:C6	2.55	0.41
34:BA:186:G:C6	34:BA:301:U:N3	2.87	0.41
34:BA:19:G:N2	34:BA:20:A:H1'	2.35	0.41
34:BA:220:U:C2	34:BA:221:G:C8	3.07	0.41
34:BA:304:G:C8	34:BA:304:G:C3'	3.03	0.41
34:BA:113:G:N2	34:BA:329:G:C4	2.88	0.41
34:BA:378:C:C4	34:BA:379:C:C4	3.07	0.41
34:BA:377:G:C5	34:BA:378:C:C5	3.08	0.41
34:BA:731:A:C6	34:BA:1590:G:C2	3.08	0.41
34:BA:754:G:H2'	34:BA:755:G:C8	2.55	0.41
34:BA:755:G:N2	34:BA:757:G:OP2	2.53	0.41
34:BA:856:G:C6	34:BA:857:C:C2	3.07	0.41
34:BA:89:G:H3'	34:BA:91:C:C5	2.54	0.41
34:BA:909:G:C2	34:BA:910:U:C5	3.07	0.41
34:BA:911:G:C6	34:BA:912:G:C4	3.07	0.41
34:BA:939:C:N3	34:BA:953:G:C2	2.88	0.41
35:BB:1143:A:H2'	35:BB:1144:A:O4'	2.20	0.41
35:BB:1151:A:H8	35:BB:1151:A:H5'	1.85	0.41
35:BB:1221:G:C5'	35:BB:1222:A:OP1	2.68	0.41
35:BB:1226:G:C2	35:BB:1229:A:C2	3.08	0.41
35:BB:1354:C:N3	35:BB:1363:A:C2	2.88	0.41
35:BB:1355:C:C2	35:BB:1363:A:C2	3.08	0.41
35:BB:1369:A:H4'	35:BB:1370:G:N7	2.35	0.41
35:BB:1346:A:H61	35:BB:1369:A:H5'	1.85	0.41
35:BB:1370:G:C6	40:BG:158:A:C6	3.07	0.41
35:BB:127:U:O2	35:BB:377:A:C2	2.72	0.41
35:BB:38:C:H2'	35:BB:39:C:C6	2.55	0.41
35:BB:404:A:N3	35:BB:410:A:C6	2.88	0.41
35:BB:423:G:C2	35:BB:450:A:C2	3.07	0.41
34:BA:1845:G:C6	35:BB:5:A:N6	2.88	0.41
35:BB:707:G:N1	35:BB:708:C:C2	2.88	0.41
35:BB:878:G:O2'	35:BB:879:G:C8	2.73	0.41
35:BB:92:C:C4	35:BB:93:A:C5	3.07	0.41
36:BC:33:U:H1'	36:BC:34:U:O4'	2.20	0.41
37:BD:67:C:H42	37:BD:108:G:H1	1.68	0.41
37:BD:43:U:C5	37:BD:44:U:C4	3.07	0.41
37:BD:75:G:H2'	52:BS:48:ARG:O	2.19	0.41
38:BE:110:U:H5"	53:BT:103:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:134:A:H5"	38:BE:136:G:C4'	2.50	0.41
38:BE:193:A:N3	38:BE:194:A:C4	2.88	0.41
38:BE:200:A:N6	38:BE:201:A:C4	2.88	0.41
38:BE:73:A:C2	38:BE:88:G:N3	2.88	0.41
39:BF:24:G:H2'	39:BF:25:G:OP1	2.20	0.41
34:BA:238:C:N3	40:BG:13:A:C2	2.88	0.41
40:BG:165:C:O5'	40:BG:165:C:H6	2.02	0.41
40:BG:166:C:N3	40:BG:167:C:C5	2.89	0.41
40:BG:169:A:C2'	40:BG:173:C:C2	3.03	0.41
40:BG:57:A:C8	40:BG:58:G:H1'	2.55	0.41
40:BG:63:U:H6	40:BG:63:U:O5'	2.03	0.41
41:BH:131:A:C4	41:BH:132:C:C5	3.08	0.41
41:BH:59:G:N3	41:BH:63:G:C6	2.88	0.41
45:BL:29:CYS:HA	45:BL:73:ALA:HB2	2.02	0.41
47:BN:67:THR:HG1	47:BN:69:ARG:HB3	1.85	0.41
48:BO:130:VAL:HA	48:BO:132:ARG:CZ	2.49	0.41
35:BB:30:A:C4	51:BR:130:PHE:CD2	3.08	0.41
53:BT:30:VAL:HG13	53:BT:31:GLU:H	1.84	0.41
55:BV:110:LEU:HD13	55:BV:111:ALA:N	2.35	0.41
56:BW:135:ALA:HB3	56:BW:138:ILE:HG22	2.02	0.41
34:BA:537:C:C4	34:BA:538:G:C5	3.08	0.41
85:AA:1269:A:C6	85:AA:1270:C:C2	3.08	0.41
85:AA:129:U:C2	85:AA:130:G:C8	3.08	0.41
85:AA:1498:C:C4	85:AA:1499:G:C5	3.08	0.41
85:AA:460:U:H2'	85:AA:461:G:C8	2.54	0.41
32:AY:13:LYS:CE	85:AA:638:G:H5'	2.50	0.41
85:AA:690:G:O4'	85:AA:695:A:C4	2.72	0.41
85:AA:84:C:O5'	85:AA:84:C:C6	2.73	0.41
34:BA:649:A:C2	34:BA:650:C:C1'	3.03	0.41
56:BW:93:THR:HA	58:BY:20:ARG:NH2	2.35	0.41
35:BB:813:C:O5'	35:BB:813:C:H6	2.03	0.41
35:BB:870:C:C6	35:BB:870:C:C3'	3.03	0.41
35:BB:972:C:OP1	35:BB:975:G:H8	2.04	0.41
85:AA:1112:G:N7	85:AA:1114:A:C5	2.88	0.41
85:AA:1117:G:C4	85:AA:1118:U:C6	3.08	0.41
15:AG:87:ASP:OD1	85:AA:1117:G:H1'	2.20	0.41
6:A5:181:GLU:O	41:BH:93:G:C5'	2.51	0.41
35:BB:1163:U:C5	35:BB:1164:U:O4	2.73	0.41
85:AA:1196:C:C2	85:AA:1197:U:C6	3.08	0.41
85:AA:1660:U:C2	85:AA:1864:G:N2	2.89	0.41
85:AA:2029:G:H2'	85:AA:2030:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AQ:68:GLY:O	85:AA:1566:A:H1'	2.20	0.41
28:AU:32:LYS:HB3	85:AA:2039:G:N7	2.35	0.41
34:BA:259:C:H2'	34:BA:260:A:C8	2.55	0.41
34:BA:198:U:H3	34:BA:262:A:HO2'	1.64	0.41
85:AA:1963:G:C6	85:AA:1975:G:N1	2.87	0.41
34:BA:714:G:C5	34:BA:715:U:C6	3.08	0.41
35:BB:1272:G:C2	35:BB:1273:G:C4	3.08	0.41
35:BB:362:A:H2'	35:BB:363:A:O2'	2.20	0.41
35:BB:362:A:C3'	35:BB:363:A:H4'	2.49	0.41
41:BH:20:A:C6	41:BH:21:G:N9	2.88	0.41
85:AA:9:U:O2	85:AA:11:A:H5"	2.19	0.41
85:AA:1466:U:O2'	85:AA:1467:U:C6	2.71	0.41
85:AA:1521:U:N3	85:AA:1522:U:C4	2.88	0.41
85:AA:12:U:C1'	85:AA:1677:A:H1'	2.50	0.41
85:AA:1686:G:C4	85:AA:1687:U:C6	3.08	0.41
85:AA:1705:G:C2	85:AA:1706:A:C8	3.08	0.41
34:BA:1:C:C6	34:BA:1:C:H3'	2.54	0.41
34:BA:3:G:C5	36:BC:169:G:N1	2.88	0.41
34:BA:3:G:C5	36:BC:169:G:N2	2.88	0.41
85:AA:2050:C:C4	85:AA:2052:U:O2	2.73	0.41
85:AA:2054:G:H2'	85:AA:2055:G:C8	2.55	0.41
85:AA:2088:U:N3	85:AA:2089:G:C5	2.88	0.41
85:AA:1718:C:N3	85:AA:1720:C:C4	2.87	0.41
85:AA:1720:C:N3	85:AA:1821:C:N3	2.68	0.41
85:AA:885:A:H2'	85:AA:886:A:C8	2.55	0.41
85:AA:915:G:H2'	85:AA:915:G:N3	2.35	0.41
34:BA:1336:U:C4	34:BA:1337:A:N7	2.88	0.41
7:A6:32:GLN:HB2	7:A6:33:TYR:CE2	2.55	0.41
85:AA:415:G:C1'	85:AA:419:A:H1'	2.50	0.41
85:AA:522:A:C8	85:AA:522:A:OP2	2.73	0.41
34:BA:1001:G:C5	34:BA:1002:U:C6	3.08	0.41
39:BF:42:G:H2'	39:BF:43:U:H3'	2.02	0.41
85:AA:1007:G:C2	85:AA:1096:G:C4	3.08	0.41
34:BA:962:U:H2'	34:BA:963:G:C5'	2.50	0.41
34:BA:508:C:C2	34:BA:512:U:N3	2.88	0.41
6:A5:130:THR:CG2	6:A5:158:LEU:HD22	2.50	0.41
35:BB:1479:C:N3	35:BB:1480:G:C5	2.88	0.41
35:BB:1482:A:H3'	35:BB:1482:A:C8	2.53	0.41
35:BB:1485:G:H8	35:BB:1485:G:O5'	2.02	0.41
35:BB:1477:C:C2	35:BB:1488:G:N1	2.88	0.41
23:AP:162:HIS:CD2	23:AP:163:THR:OG1	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1045:G:H2'	35:BB:1046:C:C6	2.55	0.41
85:AA:1796:C:C4	85:AA:1797:U:C4	3.07	0.41
85:AA:1800:U:C5	85:AA:1801:U:C5	3.07	0.41
35:BB:643:G:C6	35:BB:644:A:C6	3.08	0.41
34:BA:1355:G:P	34:BA:1381:A:H1'	2.60	0.41
17:AI:86:HIS:HB2	85:AA:1892:G:H4'	2.01	0.41
85:AA:844:C:OP2	85:AA:845:A:C2	2.73	0.41
23:AP:172:CYS:HG	23:AP:222:MET:HB2	1.85	0.41
35:BB:1491:G:N1	35:BB:1492:C:C2	2.88	0.41
34:BA:1364:G:H4'	34:BA:1382:G:OP2	2.20	0.41
21:AM:84:PHE:O	21:AM:85:LEU:HB2	2.20	0.41
23:AP:123:VAL:H	23:AP:145:SER:HB2	1.85	0.41
6:A5:117:TYR:CZ	6:A5:169:HIS:CE1	3.08	0.41
85:AA:1441:G:C6	85:AA:1442:U:C4	3.08	0.41
21:AM:31:LEU:HD12	21:AM:41:PHE:CE1	2.54	0.41
85:AA:1175:A:C5	85:AA:1176:C:C5	3.07	0.41
48:BO:150:ASN:O	48:BO:151:GLU:HG2	2.20	0.41
34:BA:1362:A:C2	34:BA:1365:U:H2'	2.55	0.41
23:AP:154:TRP:CE2	23:AP:155:GLY:N	2.88	0.41
23:AP:92:LEU:HB2	23:AP:111:PHE:CD1	2.54	0.41
13:AE:42:VAL:HG22	85:AA:970:U:C5'	2.50	0.41
47:BN:55:PRO:HA	47:BN:155:ARG:O	2.20	0.41
85:AA:1899:A:C3'	85:AA:1899:A:C8	3.03	0.41
34:BA:1037:C:OP1	34:BA:1062:G:H5'	2.19	0.41
34:BA:930:A:H3'	34:BA:930:A:C8	2.55	0.41
4:A3:123:PRO:HA	4:A3:128:THR:HG21	2.02	0.41
22:AO:72:ILE:O	22:AO:75:ALA:HB3	2.20	0.41
24:AQ:12:GLN:HE22	24:AQ:91:PRO:N	2.18	0.41
34:BA:102:G:C2	34:BA:103:G:C1'	3.01	0.41
34:BA:1321:A:C2	34:BA:1322:A:H1'	2.54	0.41
34:BA:1454:G:O2'	34:BA:1455:C:C5'	2.68	0.41
34:BA:1573:C:H2'	34:BA:1574:C:C5	2.54	0.41
34:BA:1598:U:OP2	35:BB:622:G:N1	2.53	0.41
34:BA:1680:G:O2'	34:BA:1681:U:H5'	2.20	0.41
34:BA:1704:G:H2'	34:BA:1704:G:N3	2.34	0.41
34:BA:1732:A:C8	34:BA:1732:A:O5'	2.73	0.41
34:BA:1788:U:C4	34:BA:1789:A:C4	3.08	0.41
34:BA:209:A:H2'	34:BA:209:A:N3	2.35	0.41
34:BA:340:U:N3	34:BA:341:U:C4	2.88	0.41
34:BA:378:C:H2'	34:BA:378:C:O2	2.20	0.41
34:BA:398:G:N3	34:BA:398:G:C2'	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:435:U:C4	34:BA:436:U:C4	3.08	0.41
34:BA:248:G:C5	34:BA:437:G:C2'	3.03	0.41
34:BA:49:A:C5	34:BA:50:G:C8	3.09	0.41
34:BA:67:A:C5	34:BA:68:A:C6	3.08	0.41
34:BA:74:A:C6	34:BA:75:U:C2	3.08	0.41
34:BA:760:G:N2	34:BA:761:U:C2	2.88	0.41
34:BA:767:U:C2	34:BA:768:G:C5	3.08	0.41
34:BA:775:C:C6	34:BA:775:C:C3'	3.02	0.41
34:BA:777:C:C5	34:BA:778:U:C5	3.08	0.41
34:BA:843:G:O5'	34:BA:843:G:C8	2.73	0.41
34:BA:847:U:C2	34:BA:852:C:N4	2.88	0.41
34:BA:854:A:C4	34:BA:855:C:C5	3.08	0.41
34:BA:986:G:C4	34:BA:987:C:C6	3.08	0.41
34:BA:8:G:N1	34:BA:9:A:C5	2.89	0.41
35:BB:1100:C:O2	35:BB:1141:A:C6	2.73	0.41
35:BB:1298:C:C3'	35:BB:1299:G:C8	2.97	0.41
35:BB:1371:G:C6	35:BB:1372:G:C5	3.08	0.41
35:BB:1347:C:N3	35:BB:1394:A:C8	2.88	0.41
35:BB:377:A:C5	35:BB:378:C:C5	3.08	0.41
35:BB:587:A:C5	35:BB:588:A:N9	2.87	0.41
35:BB:6:A:C6	35:BB:7:C:N4	2.88	0.41
36:BC:127:C:C4	36:BC:128:U:C5	3.08	0.41
36:BC:68:A:H1'	36:BC:91:G:N2	2.35	0.41
36:BC:71:A:H2'	59:BZ:48:ARG:CZ	2.50	0.41
37:BD:71:G:C2	37:BD:105:G:N3	2.88	0.41
37:BD:15:U:H6	37:BD:15:U:O5'	2.03	0.41
37:BD:36:C:H1'	37:BD:45:U:O2'	2.21	0.41
37:BD:56:G:C4	37:BD:57:C:C6	3.08	0.41
37:BD:85:C:C2	37:BD:93:G:N2	2.88	0.41
38:BE:13:A:N1	38:BE:14:C:C4	2.87	0.41
38:BE:150:G:C4	38:BE:163:A:C2	3.08	0.41
38:BE:17:U:H6	38:BE:17:U:O5'	2.03	0.41
38:BE:73:A:N1	38:BE:88:G:C6	2.88	0.41
40:BG:162:A:N1	40:BG:163:G:C6	2.89	0.41
40:BG:29:U:C6	40:BG:29:U:O5'	2.66	0.41
40:BG:4:A:C6	40:BG:5:G:C5	3.08	0.41
34:BA:45:A:OP2	47:BN:16:HIS:CE1	2.73	0.41
49:BP:17:ARG:HB3	49:BP:55:ASN:HD21	1.84	0.41
38:BE:160:C:C5	53:BT:43:LYS:HA	2.55	0.41
54:BU:22:HIS:CD2	54:BU:22:HIS:N	2.87	0.41
56:BW:132:SER:O	56:BW:135:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:63:HIS:O	58:BY:63:HIS:CD2	2.73	0.41
34:BA:536:C:H3'	34:BA:537:C:H6	1.85	0.41
6:A5:3:ILE:O	6:A5:29:LEU:HA	2.20	0.41
85:AA:106:G:N9	85:AA:107:A:C8	2.87	0.41
85:AA:139:G:C2	85:AA:140:C:C2	3.07	0.41
85:AA:145:C:O2'	85:AA:146:U:H5'	2.20	0.41
26:AS:4:THR:HG22	85:AA:1480:C:C5	2.55	0.41
85:AA:1493:A:H2	85:AA:1508:A:C2	2.38	0.41
85:AA:181:A:N6	85:AA:332:A:H4'	2.34	0.41
85:AA:2204:A:H2'	85:AA:2205:A:C8	2.55	0.41
85:AA:451:G:N1	85:AA:452:A:C6	2.88	0.41
85:AA:461:G:H2'	85:AA:463:G:OP2	2.20	0.41
85:AA:493:A:C6	85:AA:494:G:C5	3.09	0.41
85:AA:42:G:O4'	85:AA:502:A:C4	2.73	0.41
85:AA:493:A:H2	85:AA:505:U:O2	2.03	0.41
85:AA:543:A:N1	85:AA:544:A:C4	2.88	0.41
34:BA:616:G:H3'	34:BA:616:G:C8	2.55	0.41
34:BA:627:U:N3	34:BA:628:U:C2	2.88	0.41
34:BA:669:U:H3'	34:BA:669:U:C6	2.55	0.41
35:BB:546:A:C4	35:BB:550:G:C6	3.08	0.41
56:BW:87:TRP:CD2	56:BW:87:TRP:N	2.87	0.41
35:BB:810:G:N2	35:BB:811:C:C2	2.88	0.41
35:BB:857:G:C6	35:BB:858:U:C4	3.08	0.41
85:AA:1210:U:O2	85:AA:1210:U:H2'	2.19	0.41
35:BB:520:G:C2	35:BB:521:U:C2	3.08	0.41
85:AA:934:A:C8	85:AA:935:A:N7	2.88	0.41
85:AA:1559:U:C3'	85:AA:1560:A:H5"	2.50	0.41
85:AA:2009:A:H1'	85:AA:2036:A:C6	2.55	0.41
85:AA:2014:G:C2	85:AA:2029:G:N2	2.88	0.41
85:AA:2026:U:C4	85:AA:2027:U:C4	3.08	0.41
85:AA:2009:A:C5	85:AA:2036:A:N7	2.88	0.41
85:AA:1546:G:C2	85:AA:2044:A:N6	2.88	0.41
85:AA:1544:G:C5	85:AA:2046:G:O6	2.74	0.41
40:BG:139:U:H3'	40:BG:140:G:H8	1.84	0.41
34:BA:255:G:C6	34:BA:257:G:C5	3.08	0.41
34:BA:284:U:OP2	34:BA:287:U:C6	2.73	0.41
85:AA:1985:C:H5'	85:AA:1986:G:H5'	2.01	0.41
34:BA:1236:U:C2	34:BA:1237:U:C5	3.08	0.41
35:BB:1274:G:HO2'	35:BB:1327:U:H6	1.59	0.41
35:BB:1277:A:C4	35:BB:1278:A:C8	3.08	0.41
34:BA:1241:U:P	44:BK:100:ASN:H	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1524:G:C2	35:BB:1544:A:N3	2.88	0.41
35:BB:1524:G:C6	35:BB:1544:A:N1	2.88	0.41
41:BH:10:U:O4	41:BH:20:A:C6	2.73	0.41
85:AA:1524:A:C6	85:AA:1525:C:C4	3.08	0.41
85:AA:1671:G:C6	85:AA:1672:G:N7	2.88	0.41
13:AE:55:GLY:CA	85:AA:313:A:H1'	2.49	0.41
13:AE:79:ASN:ND2	85:AA:315:U:C4	2.88	0.41
85:AA:979:U:C4	85:AA:980:U:C4	3.08	0.41
85:AA:548:G:O6	85:AA:549:A:C6	2.73	0.41
85:AA:554:A:C2	85:AA:555:C:C2	3.08	0.41
85:AA:567:G:C5	85:AA:568:C:C5	3.07	0.41
85:AA:1537:A:C2	85:AA:1538:C:C2	3.08	0.41
85:AA:728:U:C5	85:AA:776:C:N3	2.88	0.41
85:AA:790:A:P	85:AA:792:A:H1'	2.61	0.41
34:BA:1341:A:C8	34:BA:1403:G:N2	2.88	0.41
34:BA:1404:A:N3	34:BA:1405:A:H1'	2.35	0.41
85:AA:441:C:C4	85:AA:442:G:N7	2.88	0.41
35:BB:1014:U:H2'	35:BB:1014:U:O2	2.19	0.41
34:BA:249:A:H1'	34:BA:251:U:C5	2.55	0.41
85:AA:65:A:C4	85:AA:66:U:O2	2.73	0.41
85:AA:69:C:H2'	85:AA:70:U:O4'	2.20	0.41
34:BA:1263:A:C4	34:BA:1264:U:C6	3.08	0.41
34:BA:1095:G:C5	34:BA:1163:G:C5	3.08	0.41
15:AG:20:ARG:HH12	85:AA:1110:A:H4'	1.85	0.41
85:AA:817:G:C2'	85:AA:818:C:C5	3.03	0.41
85:AA:1434:U:C5	85:AA:1438:C:C5'	3.03	0.41
34:BA:523:A:C5	34:BA:524:G:C5	3.09	0.41
34:BA:895:U:C2'	34:BA:896:U:H5'	2.49	0.41
85:AA:1002:G:H2'	85:AA:1003:G:C8	2.55	0.41
85:AA:1007:G:C2	85:AA:1008:C:C2	3.08	0.41
85:AA:1846:G:C6	85:AA:1847:U:C4	3.08	0.41
85:AA:1953:G:C4	85:AA:1954:C:C6	3.07	0.41
85:AA:1142:G:H2'	85:AA:1143:C:C6	2.55	0.41
34:BA:836:U:C6	34:BA:837:U:C6	3.08	0.41
34:BA:721:A:C2	35:BB:642:G:C2	3.08	0.41
35:BB:633:C:C2	35:BB:634:A:C8	3.08	0.41
11:AC:124:PHE:N	11:AC:124:PHE:CD1	2.84	0.41
85:AA:1731:G:O6	85:AA:1808:G:C6	2.73	0.41
85:AA:1798:U:C2	85:AA:1808:G:C6	3.08	0.41
85:AA:1374:A:H2'	85:AA:1375:U:C6	2.55	0.41
57:BX:124:LEU:HB3	57:BX:125:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BN:128:LEU:HG	47:BN:129:VAL:C	2.41	0.41
29:AV:91:ARG:NH1	85:AA:2248:A:C5	2.88	0.41
85:AA:319:U:H2'	85:AA:320:U:H6	1.86	0.41
20:AL:53:TYR:HA	20:AL:56:HIS:HB3	2.00	0.41
19:AK:58:VAL:HA	19:AK:66:PHE:CE1	2.55	0.41
8:A7:146:LEU:HB3	8:A7:181:TRP:CE3	2.55	0.41
12:AD:71:PHE:CB	12:AD:73:TRP:CE2	3.04	0.41
7:A6:22:ARG:HA	7:A6:25:ARG:NE	2.34	0.41
44:BK:211:ILE:HB	44:BK:212:MET:CB	2.50	0.41
13:AE:126:HIS:HB2	13:AE:147:LEU:HD12	2.02	0.41
2:A1:170:ILE:O	2:A1:172:ILE:N	2.54	0.41
19:AK:30:ALA:CB	19:AK:31:PRO:HD3	2.50	0.41
85:AA:2164:G:C2	85:AA:2165:C:C6	3.08	0.41
34:BA:1012:A:H5"	34:BA:1013:A:OP1	2.20	0.41
34:BA:1064:A:C5	34:BA:1065:U:C6	3.09	0.41
34:BA:1110:A:N3	34:BA:1110:A:C2'	2.84	0.41
34:BA:114:U:N3	34:BA:327:G:H2'	2.35	0.41
34:BA:1203:G:C8	34:BA:1203:G:C3'	3.03	0.41
34:BA:1068:C:N3	34:BA:1225:A:N6	2.68	0.41
34:BA:1275:G:C2	34:BA:1466:U:N3	2.88	0.41
34:BA:12:G:N1	36:BC:156:A:C6	2.88	0.41
34:BA:1325:G:C2	34:BA:1416:C:N3	2.88	0.41
34:BA:1469:G:C4	34:BA:1470:G:C8	3.08	0.41
34:BA:1474:G:H5'	34:BA:1475:G:OP2	2.20	0.41
34:BA:1533:G:C6	34:BA:1534:U:N3	2.88	0.41
34:BA:154:A:C2	34:BA:155:U:H1'	2.56	0.41
34:BA:1610:A:H2'	34:BA:1611:A:O4'	2.20	0.41
34:BA:1613:G:C8	34:BA:1613:G:O5'	2.72	0.41
34:BA:1732:A:C4	34:BA:1733:G:C8	3.08	0.41
34:BA:1802:C:N3	34:BA:1803:A:C8	2.89	0.41
34:BA:1820:G:C4	34:BA:1821:A:C5	3.08	0.41
34:BA:212:A:C5	34:BA:213:A:N7	2.88	0.41
34:BA:115:U:H2'	34:BA:327:G:C5	2.55	0.41
34:BA:351:A:H5'	50:BQ:112:ASN:O	2.20	0.41
34:BA:402:G:C2	36:BC:26:U:O2	2.73	0.41
34:BA:447:U:O5'	34:BA:447:U:H6	2.04	0.41
34:BA:448:U:H2'	34:BA:449:G:O4'	2.19	0.41
34:BA:482:C:C2	36:BC:6:G:N1	2.87	0.41
34:BA:71:G:C6	34:BA:72:U:C4	3.08	0.41
34:BA:740:A:H2'	34:BA:741:A:O5'	2.19	0.41
34:BA:772:G:H4'	47:BN:37:LYS:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:783:U:C4	34:BA:784:C:C4	3.09	0.41
34:BA:817:U:C2	34:BA:818:G:C8	3.08	0.41
34:BA:908:G:C6	34:BA:909:G:C8	3.07	0.41
34:BA:936:A:N6	34:BA:937:G:C6	2.87	0.41
34:BA:936:A:C4	34:BA:937:G:C8	3.09	0.41
35:BB:702:G:N3	35:BB:1039:A:C6	2.89	0.41
35:BB:106:A:C6	35:BB:117:A:C2	3.07	0.41
35:BB:1232:A:C2	35:BB:1233:U:C4	3.08	0.41
35:BB:1293:C:O2'	35:BB:1294:C:H5'	2.21	0.41
35:BB:1296:A:H2'	35:BB:1297:G:O4'	2.21	0.41
35:BB:1299:G:C6	35:BB:1302:C:H2'	2.54	0.41
35:BB:1334:C:C4	35:BB:1410:G:C5	3.09	0.41
35:BB:1357:C:H1'	35:BB:1361:A:H61	1.84	0.41
35:BB:1456:G:N2	35:BB:1457:A:C5	2.87	0.41
35:BB:1471:A:OP2	35:BB:1471:A:C5	2.73	0.41
35:BB:127:U:C2	35:BB:377:A:N1	2.88	0.41
35:BB:3:C:OP1	35:BB:3:C:C4'	2.68	0.41
35:BB:681:G:N7	35:BB:682:U:C5	2.88	0.41
35:BB:697:G:C6	35:BB:698:C:N4	2.88	0.41
35:BB:93:A:N1	35:BB:94:A:C2	2.88	0.41
36:BC:135:A:C2	36:BC:136:G:C5	3.08	0.41
36:BC:124:A:N6	36:BC:140:U:N3	2.67	0.41
34:BA:17:A:C6	36:BC:151:G:C6	3.09	0.41
37:BD:106:G:N1	37:BD:107:G:C6	2.89	0.41
37:BD:111:U:H2'	37:BD:112:U:C6	2.55	0.41
37:BD:4:U:C4	37:BD:5:A:N7	2.89	0.41
37:BD:95:G:C6	37:BD:96:C:N4	2.88	0.41
38:BE:144:A:C5	38:BE:145:A:N7	2.89	0.41
38:BE:6:A:H5"	38:BE:7:U:P	2.60	0.41
38:BE:1:U:H3	38:BE:8:G:H1	1.65	0.41
39:BF:9:C:C2	39:BF:10:A:C2	3.08	0.41
40:BG:34:A:C5	40:BG:35:G:C1'	3.03	0.41
40:BG:54:G:N3	40:BG:58:G:C2	2.89	0.41
40:BG:5:G:N1	40:BG:6:A:C5	2.89	0.41
40:BG:74:G:C5	40:BG:75:C:C6	3.08	0.41
41:BH:134:U:C5	41:BH:135:U:H5'	2.55	0.41
6:A5:180:ARG:C	41:BH:91:G:H2'	2.41	0.41
45:BL:132:MET:N	45:BL:132:MET:SD	2.94	0.41
48:BO:25:ILE:O	48:BO:52:THR:N	2.53	0.41
34:BA:1296:U:H5"	49:BP:54:LYS:HZ3	1.85	0.41
34:BA:543:A:N1	34:BA:544:U:C4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A3:64:MET:HA	4:A3:101:ARG:O	2.20	0.41
85:AA:1498:C:N3	85:AA:1499:G:C5	2.87	0.41
85:AA:2125:A:N6	85:AA:2194:U:H3	2.18	0.41
85:AA:2188:C:C4	85:AA:2189:U:C4	3.08	0.41
85:AA:527:A:C2'	85:AA:528:U:H5'	2.49	0.41
85:AA:681:G:C6	85:AA:687:G:N7	2.88	0.41
85:AA:681:G:O5'	85:AA:681:G:C8	2.73	0.41
85:AA:691:U:C4	85:AA:1470:A:C6	3.08	0.41
34:BA:627:U:C3'	34:BA:627:U:C6	3.03	0.41
34:BA:631:G:C4	34:BA:632:U:C6	3.08	0.41
34:BA:652:C:H3'	34:BA:652:C:C6	2.56	0.41
34:BA:652:C:C4	34:BA:653:U:C5	3.08	0.41
35:BB:802:G:C5'	35:BB:804:U:OP1	2.68	0.41
35:BB:808:U:H3'	35:BB:808:U:C6	2.56	0.41
35:BB:813:C:H2'	35:BB:814:A:C8	2.55	0.41
35:BB:817:C:C2	35:BB:818:U:C1'	3.04	0.41
5:A4:6:HIS:CD2	5:A4:6:HIS:C	2.93	0.41
85:AA:709:A:C4	85:AA:710:A:N3	2.88	0.41
15:AG:120:SER:O	15:AG:123:HIS:HB2	2.20	0.41
15:AG:128:TYR:O	15:AG:131:ARG:HB3	2.20	0.41
35:BB:469:G:C6	35:BB:470:C:C4	3.08	0.41
85:AA:1140:G:N2	85:AA:1171:C:C2	2.88	0.41
85:AA:1195:U:O5'	85:AA:1195:U:H6	2.02	0.41
85:AA:880:A:H2'	85:AA:881:C:O4'	2.20	0.41
17:AI:133:VAL:CG1	85:AA:1897:A:C2	3.02	0.41
85:AA:2003:C:C6	85:AA:2006:G:C5	3.07	0.41
34:BA:197:A:C2	34:BA:280:A:C6	3.07	0.41
34:BA:200:C:C4	34:BA:257:G:N1	2.88	0.41
34:BA:259:C:C2	34:BA:273:G:N2	2.88	0.41
34:BA:292:C:H2'	34:BA:293:A:C5'	2.50	0.41
34:BA:518:C:C6	34:BA:518:C:H3'	2.55	0.41
34:BA:682:A:N3	34:BA:682:A:H2'	2.34	0.41
85:AA:1961:U:H2'	85:AA:1962:U:H6	1.80	0.41
85:AA:1928:A:N7	85:AA:1978:G:N1	2.68	0.41
85:AA:2001:C:C4	85:AA:2001:C:OP1	2.73	0.41
34:BA:1495:A:C5	34:BA:1498:A:C4	3.08	0.41
85:AA:11:A:N1	85:AA:12:U:C2	2.88	0.41
85:AA:9:U:C2	85:AA:12:U:OP2	2.73	0.41
85:AA:1679:U:C2	85:AA:1680:U:C5	3.09	0.41
85:AA:1686:G:H3'	85:AA:1687:U:C6	2.56	0.41
85:AA:2095:U:C6	85:AA:2095:U:O5'	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2221:A:C4	85:AA:2222:G:C8	3.08	0.41
85:AA:2225:G:N7	85:AA:2226:U:C4	2.88	0.41
85:AA:2142:A:H2'	85:AA:2143:U:H6	1.85	0.41
85:AA:1618:G:C6	85:AA:1619:A:C6	3.08	0.41
85:AA:1598:A:C6	85:AA:1640:G:C5	3.08	0.41
85:AA:965:G:C8	85:AA:991:G:N7	2.88	0.41
85:AA:982:G:H2'	85:AA:983:A:O4'	2.20	0.41
85:AA:882:C:H3'	85:AA:883:A:C8	2.54	0.41
85:AA:291:G:C6	85:AA:292:C:C4	3.09	0.41
7:A6:123:HIS:CE1	85:AA:548:G:HO2'	2.37	0.41
3:A2:43:GLN:O	85:AA:2082:C:N4	2.53	0.41
85:AA:774:C:C4	85:AA:775:C:N3	2.88	0.41
85:AA:781:G:C6	85:AA:782:G:N7	2.88	0.41
85:AA:783:C:C2	85:AA:784:C:C5	3.09	0.41
24:AQ:45:VAL:HG23	24:AQ:94:LEU:HD23	2.01	0.41
35:BB:1065:G:H5"	44:BK:114:GLY:CA	2.50	0.41
85:AA:390:U:H3'	85:AA:390:U:C6	2.54	0.41
85:AA:390:U:C4	85:AA:391:G:N7	2.88	0.41
85:AA:381:A:N3	85:AA:419:A:C5	2.88	0.41
85:AA:1146:C:O2	85:AA:1146:C:H2'	2.19	0.41
35:BB:1017:U:N3	35:BB:1018:U:C5	2.88	0.41
85:AA:1158:U:C2	85:AA:1159:C:C5	3.08	0.41
85:AA:1158:U:C5'	85:AA:1158:U:N1	2.84	0.41
4:A3:177:PRO:CB	85:AA:65:A:C5	3.04	0.41
34:BA:1095:G:N3	34:BA:1095:G:H2'	2.36	0.41
34:BA:1447:C:H3'	34:BA:1448:G:C5'	2.48	0.41
34:BA:1377:A:H1'	34:BA:1399:A:C4'	2.51	0.41
34:BA:1400:A:C2	34:BA:1401:C:H1'	2.54	0.41
85:AA:817:G:C6	85:AA:820:G:C8	3.09	0.41
85:AA:858:G:C8	85:AA:858:G:H3'	2.56	0.41
39:BF:41:U:O4'	39:BF:42:G:C2	2.74	0.41
85:AA:749:C:N3	85:AA:756:G:C6	2.88	0.41
35:BB:1280:U:N3	35:BB:1281:G:C4	2.88	0.41
85:AA:1006:C:H2'	85:AA:1007:G:C8	2.54	0.41
85:AA:1709:U:H3	85:AA:1858:G:H1	1.67	0.41
35:BB:458:U:C2	35:BB:459:U:C6	3.09	0.41
34:BA:687:G:H2'	34:BA:688:G:C8	2.55	0.41
34:BA:690:G:H1'	34:BA:691:A:N3	2.36	0.41
35:BB:1384:A:N1	35:BB:1385:C:C2	2.89	0.41
85:AA:1011:G:C4	85:AA:1063:U:H1'	2.55	0.41
85:AA:1070:G:C4	85:AA:1084:A:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:832:C:C2	34:BA:836:U:C4	3.08	0.41
34:BA:723:C:C4	35:BB:642:G:O5'	2.72	0.41
85:AA:1730:C:O2	85:AA:1810:C:C5	2.73	0.41
11:AC:125:LYS:HB2	11:AC:238:PHE:CE1	2.55	0.41
11:AC:184:CYS:CB	11:AC:190:LEU:HD11	2.50	0.41
5:A4:145:TRP:CE2	5:A4:155:MET:HB3	2.56	0.41
5:A4:164:ARG:HD3	5:A4:190:PHE:CZ	2.54	0.41
17:AI:104:TYR:OH	85:AA:1588:A:C2	2.68	0.41
85:AA:1593:C:C2	85:AA:1883:C:N3	2.88	0.41
23:AP:172:CYS:HB2	23:AP:223:ALA:HB2	2.02	0.41
35:BB:1426:G:N1	35:BB:1427:A:C4	2.88	0.41
9:A8:24:ILE:C	12:AD:69:ARG:HE	2.24	0.41
34:BA:1084:A:C3'	34:BA:1085:G:C8	3.01	0.41
85:AA:1651:C:C6	85:AA:1866:A:N7	2.88	0.41
48:BO:214:GLU:CG	48:BO:216:LEU:HD13	2.48	0.41
2:A1:51:TYR:CG	2:A1:52:ALA:N	2.89	0.41
49:BP:151:ALA:O	49:BP:155:ASP:N	2.53	0.41
49:BP:15:ILE:CG2	49:BP:21:GLN:HA	2.50	0.41
30:AW:37:LYS:HA	30:AW:44:ILE:HG22	2.03	0.41
45:BL:170:PHE:CE2	45:BL:176:GLY:HA2	2.54	0.41
4:A3:204:LYS:HD2	4:A3:204:LYS:HA	1.92	0.41
33:AZ:63:LEU:HD12	33:AZ:74:ARG:HB3	2.02	0.41
4:A3:196:ARG:O	4:A3:199:ILE:HG12	2.20	0.41
56:BW:104:ILE:O	56:BW:104:ILE:HG23	2.20	0.41
8:A7:246:SER:HA	8:A7:293:TRP:CZ2	2.56	0.41
34:BA:1112:U:C2	34:BA:1147:C:C2	3.08	0.41
34:BA:1153:C:C2	34:BA:1154:U:C6	3.08	0.41
34:BA:1231:C:H2'	34:BA:1232:C:H6	1.85	0.41
34:BA:1260:G:N2	34:BA:1270:G:H1'	2.34	0.41
34:BA:1460:U:OP2	34:BA:1460:U:C5	2.73	0.41
34:BA:147:U:O4	34:BA:148:G:C5	2.74	0.41
34:BA:1564:A:C3'	34:BA:1564:A:C8	3.03	0.41
34:BA:1607:U:H2'	34:BA:1607:U:O2	2.21	0.41
34:BA:1617:U:H5	34:BA:1633:C:O2	2.03	0.41
34:BA:1665:G:C6	34:BA:1666:U:N3	2.88	0.41
34:BA:1636:C:O2	34:BA:1676:A:C2	2.74	0.41
34:BA:1686:G:N2	34:BA:1687:A:H1'	2.35	0.41
34:BA:1699:A:N1	34:BA:1808:A:H2	2.17	0.41
34:BA:174:A:H3'	34:BA:174:A:C8	2.55	0.41
34:BA:1833:G:N1	34:BA:1834:A:C5	2.88	0.41
34:BA:32:A:C4'	34:BA:909:G:H4'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:334:G:C5	34:BA:335:C:C5	3.08	0.41
34:BA:395:G:C6	34:BA:396:U:O4	2.74	0.41
34:BA:470:C:N3	36:BC:19:A:N1	2.68	0.41
34:BA:477:C:N3	36:BC:12:A:C2	2.88	0.41
34:BA:484:A:C2	36:BC:6:G:C5	3.09	0.41
34:BA:484:A:H8	34:BA:484:A:H5'	1.85	0.41
34:BA:504:A:C6	34:BA:505:U:C4	3.09	0.41
34:BA:50:G:H2'	34:BA:50:G:N3	2.36	0.41
34:BA:55:G:H8	34:BA:55:G:O5'	2.02	0.41
34:BA:71:G:N3	34:BA:72:U:C6	2.89	0.41
34:BA:745:A:C2	34:BA:746:C:C2	3.08	0.41
34:BA:771:A:N7	34:BA:774:A:H1'	2.35	0.41
34:BA:789:U:C4	34:BA:790:G:N7	2.88	0.41
34:BA:811:C:C2	34:BA:812:A:C8	3.09	0.41
34:BA:853:A:C6	34:BA:854:A:C5	3.09	0.41
34:BA:861:C:N3	34:BA:862:C:C5	2.89	0.41
34:BA:898:G:C2'	34:BA:900:A:C8	3.04	0.41
35:BB:1102:U:C5	35:BB:1103:A:N6	2.89	0.41
35:BB:1104:A:C2	35:BB:1141:A:N9	2.88	0.41
35:BB:1469:A:N3	35:BB:1472:U:C4	2.89	0.41
35:BB:388:C:C6	35:BB:388:C:C5'	3.03	0.41
35:BB:493:U:C2'	35:BB:494:C:H5'	2.49	0.41
35:BB:696:G:C2	35:BB:1048:A:C4	3.08	0.41
36:BC:9:G:C4	36:BC:10:C:C6	3.07	0.41
36:BC:113:G:C2	36:BC:114:C:N1	2.89	0.41
36:BC:113:G:H2'	36:BC:114:C:O4'	2.21	0.41
36:BC:27:U:C2	36:BC:28:C:C4	3.09	0.41
36:BC:44:A:H2'	36:BC:45:C:O4'	2.19	0.41
36:BC:73:U:C6	36:BC:74:U:C5	3.00	0.41
37:BD:32:A:C2	37:BD:46:G:N1	2.89	0.41
37:BD:4:U:O2'	37:BD:5:A:H5'	2.20	0.41
37:BD:92:G:H2'	37:BD:93:G:O4'	2.19	0.41
38:BE:101:C:C4	38:BE:120:C:C4	3.09	0.41
38:BE:148:C:C4	38:BE:149:A:C5	3.09	0.41
38:BE:184:G:C6	38:BE:185:G:O6	2.74	0.41
38:BE:43:A:C2	38:BE:171:U:N3	2.86	0.41
38:BE:98:C:C2	38:BE:99:C:C6	3.08	0.41
39:BF:13:U:C3'	39:BF:13:U:C6	3.03	0.41
40:BG:100:G:N7	40:BG:101:G:C5	2.88	0.41
40:BG:33:G:C5	40:BG:168:A:C6	3.08	0.41
40:BG:46:G:C4	40:BG:47:G:C8	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:60:A:N6	40:BG:61:A:C5	2.89	0.41
40:BG:88:G:N1	40:BG:89:A:C5	2.88	0.41
41:BH:123:G:O6	41:BH:124:C:C4	2.73	0.41
41:BH:125:U:C2	41:BH:126:C:C6	3.09	0.41
41:BH:127:A:N1	41:BH:128:G:C6	2.88	0.41
41:BH:43:G:C6	41:BH:111:U:H5'	2.55	0.41
41:BH:4:U:OP2	41:BH:4:U:C6	2.74	0.41
35:BB:1296:A:C5'	44:BK:71:GLN:HE22	2.33	0.41
34:BA:1456:C:H5"	45:BL:116:HIS:ND1	128.44	0.41
54:BU:143:VAL:HG22	54:BU:144:GLU:O	2.20	0.41
34:BA:765:U:C5	59:BZ:2:VAL:CG1	3.03	0.41
34:BA:540:G:C2	34:BA:541:C:N1	2.89	0.41
34:BA:563:A:N1	34:BA:564:C:C2	2.87	0.41
34:BA:568:G:C6	34:BA:569:C:C4	3.08	0.41
4:A3:3:LEU:HD12	4:A3:3:LEU:N	2.35	0.41
15:AG:113:PHE:CZ	85:AA:1188:A:C5	3.08	0.41
85:AA:132:G:N3	85:AA:139:G:C2	2.88	0.41
85:AA:160:A:H2'	85:AA:161:A:C8	2.55	0.41
85:AA:28:A:H2'	85:AA:29:U:H6	1.85	0.41
85:AA:425:G:C8	85:AA:425:G:OP1	2.73	0.41
85:AA:43:A:N7	85:AA:443:A:C2	2.87	0.41
85:AA:472:A:H2'	85:AA:473:C:H6	1.86	0.41
85:AA:42:G:H5"	85:AA:502:A:C8	2.55	0.41
85:AA:539:A:N6	85:AA:540:A:C4	2.88	0.41
85:AA:595:A:H2'	85:AA:596:A:O4'	2.21	0.41
85:AA:681:G:C6	85:AA:687:G:C5	3.08	0.41
85:AA:684:G:N3	85:AA:684:G:H2'	2.35	0.41
85:AA:88:G:N7	85:AA:89:C:C5	2.88	0.41
34:BA:615:A:N1	34:BA:616:G:C6	2.88	0.41
34:BA:633:G:C2	34:BA:649:A:C2	3.09	0.41
35:BB:546:A:O5'	35:BB:547:A:H5'	2.20	0.41
35:BB:561:C:C6	35:BB:563:A:N7	2.88	0.41
35:BB:568:A:C2	35:BB:569:G:C4	3.08	0.41
35:BB:832:C:C5	35:BB:833:G:N7	2.88	0.41
35:BB:844:G:N2	35:BB:845:C:H1'	2.35	0.41
35:BB:857:G:C2	35:BB:866:A:N3	2.88	0.41
5:A4:48:ILE:CG1	5:A4:49:ASN:H	2.33	0.41
85:AA:806:G:OP2	85:AA:806:G:C8	2.73	0.41
85:AA:939:A:H2'	85:AA:939:A:N3	2.34	0.41
85:AA:1895:C:OP2	85:AA:2024:U:C5	2.74	0.41
34:BA:714:G:C5	34:BA:715:U:C4	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:628:A:C8	35:BB:629:C:C5	3.08	0.41
85:AA:188:G:C5	85:AA:189:G:C8	3.08	0.41
35:BB:1522:G:N2	35:BB:1523:U:C2	2.89	0.41
85:AA:1284:A:C6	85:AA:1285:C:C4	3.08	0.41
85:AA:1671:G:C2'	85:AA:1672:G:H5'	2.51	0.41
85:AA:1700:C:H2'	85:AA:1701:G:C1'	2.50	0.41
7:A6:84:PHE:HA	7:A6:106:ARG:HD2	2.02	0.41
85:AA:2139:G:O2'	85:AA:2140:U:C6	2.71	0.41
85:AA:2145:G:C2	85:AA:2146:G:C4	3.08	0.41
85:AA:2174:G:N1	85:AA:2175:U:C4	2.88	0.41
85:AA:269:G:N7	85:AA:270:A:H1'	2.35	0.41
85:AA:883:A:N3	85:AA:883:A:H2'	2.36	0.41
85:AA:1531:G:C2	85:AA:2092:A:C2	3.08	0.41
85:AA:2083:G:C6	85:AA:2084:U:N3	2.89	0.41
85:AA:714:U:C2'	85:AA:715:G:H5'	2.46	0.41
85:AA:777:U:C6	85:AA:778:C:C6	3.08	0.41
34:BA:1406:U:O5'	34:BA:1406:U:H6	2.01	0.41
85:AA:429:G:O5'	85:AA:429:G:C8	2.73	0.41
85:AA:1487:G:C2	85:AA:1513:U:O2	2.73	0.41
35:BB:1004:A:H8	35:BB:1004:A:O5'	2.03	0.41
35:BB:1017:U:C3'	35:BB:1017:U:C6	3.03	0.41
34:BA:205:G:C4	34:BA:249:A:C2	3.09	0.41
85:AA:1241:A:C8	85:AA:1262:A:C6	3.08	0.41
85:AA:81:A:H2'	85:AA:82:A:O4'	2.20	0.41
85:AA:338:G:C4	85:AA:339:A:C8	3.09	0.41
39:BF:48:G:C6	39:BF:49:C:C4	3.08	0.41
39:BF:48:G:H2'	39:BF:49:C:H6	1.85	0.41
85:AA:748:C:O2	85:AA:757:A:C2	2.73	0.41
85:AA:769:C:C6	85:AA:769:C:O5'	2.74	0.41
85:AA:342:C:C6	85:AA:343:U:C6	3.09	0.41
34:BA:1122:G:C4	34:BA:1123:G:C8	3.07	0.41
85:AA:1792:C:C6	85:AA:1792:C:H5"	2.55	0.41
34:BA:895:U:H3'	47:BN:9:PRO:CA	2.50	0.41
34:BA:228:A:H62	34:BA:229:C:N4	2.19	0.41
35:BB:478:G:C5	35:BB:503:G:C2	3.09	0.41
35:BB:1263:A:N6	35:BB:1264:U:C4	2.88	0.41
35:BB:460:C:C2	35:BB:583:G:C6	3.09	0.41
35:BB:1487:G:C6	35:BB:1488:G:C6	3.09	0.41
35:BB:453:C:H2'	35:BB:454:U:H6	1.84	0.41
35:BB:438:G:N3	35:BB:438:G:H2'	2.36	0.41
34:BA:711:C:C5	35:BB:645:C:O4'	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A7:5:TYR:CB	8:A7:313:GLY:H	2.29	0.41
5:A4:146:ARG:HG2	5:A4:147:TYR:N	2.34	0.41
27:AT:93:GLU:HG2	27:AT:97:ARG:HB2	2.02	0.41
85:AA:1421:U:H4'	85:AA:1422:A:N7	2.35	0.41
35:BB:755:A:H2'	35:BB:755:A:N3	2.36	0.41
21:AM:83:TRP:CE3	21:AM:84:PHE:N	2.89	0.41
35:BB:711:C:C4	35:BB:769:C:N4	2.88	0.41
85:AA:388:G:C6	85:AA:403:G:C2	3.09	0.41
35:BB:955:U:C4	35:BB:956:G:C5	3.08	0.41
49:BP:151:ALA:O	49:BP:152:LYS:C	2.59	0.41
85:AA:231:G:C6	85:AA:232:U:C5	3.09	0.41
23:AP:45:PRO:HG2	23:AP:54:LYS:HB2	2.02	0.41
5:A4:20:GLN:H	5:A4:20:GLN:NE2	2.18	0.41
49:BP:106:THR:H	49:BP:109:GLU:CD	2.23	0.41
8:A7:304:TYR:CD1	8:A7:308:VAL:O	2.73	0.41
34:BA:79:C:O2	34:BA:102:G:C2	2.72	0.41
34:BA:1159:A:H1'	37:BD:79:G:H1'	2.02	0.41
34:BA:1158:A:C5	34:BA:1159:A:N7	2.88	0.41
34:BA:1181:G:C4	34:BA:1192:A:C2	3.09	0.41
34:BA:1277:G:H2'	34:BA:1278:A:C8	2.56	0.41
34:BA:132:U:C2	34:BA:133:A:C6	3.08	0.41
34:BA:1463:U:N3	34:BA:1464:C:C4	2.89	0.41
34:BA:1501:U:O2	34:BA:1502:G:C8	2.74	0.41
34:BA:1522:G:N3	34:BA:1522:G:H2'	2.35	0.41
34:BA:1613:G:N1	34:BA:1614:G:C5	2.88	0.41
34:BA:1613:G:N2	34:BA:1637:G:C6	2.89	0.41
34:BA:1709:A:C2	34:BA:1710:C:C6	3.09	0.41
34:BA:1708:A:N7	34:BA:1709:A:C4	2.89	0.41
34:BA:216:C:H6	34:BA:216:C:H3'	1.81	0.41
34:BA:225:A:C8	34:BA:225:A:O5'	2.73	0.41
34:BA:236:A:C1'	34:BA:239:C:H41	2.34	0.41
34:BA:331:G:H5'	50:BQ:137:TRP:CZ3	2.55	0.41
34:BA:33:C:H2'	34:BA:34:U:H5'	2.03	0.41
34:BA:362:G:H2'	34:BA:363:G:C8	2.54	0.41
34:BA:419:U:C2	34:BA:420:A:C8	3.08	0.41
34:BA:42:A:C4	34:BA:43:U:C6	3.09	0.41
34:BA:481:A:C2	36:BC:7:U:O2	2.73	0.41
34:BA:692:U:H3	34:BA:696:A:H1'	1.85	0.41
34:BA:740:A:C6	34:BA:741:A:C6	3.08	0.41
34:BA:757:G:C4'	34:BA:758:G:C4	2.96	0.41
34:BA:802:G:C4	34:BA:803:U:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:808:U:H3'	34:BA:809:U:O4'	2.19	0.41
34:BA:886:G:H2'	34:BA:887:U:C6	2.55	0.41
34:BA:88:C:C4	34:BA:89:G:C5	3.08	0.41
34:BA:935:A:C4	34:BA:936:A:C8	3.08	0.41
35:BB:1106:G:C6	35:BB:1107:C:N4	2.89	0.41
35:BB:1108:G:N1	35:BB:1157:G:C4	2.88	0.41
35:BB:1136:G:C8	35:BB:1149:A:N6	2.89	0.41
35:BB:123:U:O2	53:BT:79:GLY:HA2	2.20	0.41
35:BB:1292:G:C5	35:BB:1293:C:C4	3.07	0.41
35:BB:653:G:H2'	35:BB:654:C:C5'	2.51	0.41
35:BB:482:A:C2	35:BB:697:G:O4'	2.73	0.41
36:BC:113:G:P	36:BC:113:G:C8	3.13	0.41
36:BC:128:U:O2	36:BC:136:G:C2	2.74	0.41
34:BA:400:A:C6	36:BC:28:C:N3	2.89	0.41
36:BC:75:G:C4	36:BC:76:C:C6	3.08	0.41
36:BC:82:C:C5	36:BC:84:U:O4	2.73	0.41
36:BC:90:U:C6	36:BC:90:U:C3'	3.04	0.41
37:BD:26:C:H5"	37:BD:27:A:OP2	2.21	0.41
37:BD:3:G:H2'	37:BD:4:U:O4'	2.20	0.41
37:BD:89:G:C6	37:BD:90:A:N6	2.88	0.41
38:BE:107:U:H4'	38:BE:121:G:H5"	2.02	0.41
38:BE:13:A:C6	38:BE:14:C:C5	3.09	0.41
38:BE:43:A:C2	38:BE:171:U:C2	3.08	0.41
38:BE:172:U:O2	38:BE:172:U:H2'	2.20	0.41
38:BE:200:A:H2'	38:BE:201:A:C5'	2.51	0.41
38:BE:14:C:N3	38:BE:204:U:N3	2.69	0.41
38:BE:26:G:OP1	43:BJ:41:GLN:C	107.74	0.41
39:BF:22:U:C2	48:BO:136:ARG:NH1	2.88	0.41
39:BF:25:G:H2'	39:BF:25:G:N3	2.35	0.41
40:BG:104:A:O5'	40:BG:104:A:C8	2.73	0.41
40:BG:131:U:H2'	40:BG:132:U:O4'	2.20	0.41
40:BG:164:U:C2	40:BG:165:C:C6	3.08	0.41
40:BG:175:G:C2	40:BG:176:G:C4	3.08	0.41
40:BG:44:G:N1	40:BG:45:G:C5	2.88	0.41
41:BH:39:G:N1	41:BH:40:C:C2	2.88	0.41
41:BH:42:U:O4'	41:BH:110:C:C2	2.74	0.41
41:BH:70:U:H3'	41:BH:71:C:H6	1.85	0.41
41:BH:7:C:O4'	41:BH:130:G:C2	2.73	0.41
44:BK:47:PRO:O	44:BK:178:ARG:CD	2.69	0.41
47:BN:52:PHE:C	47:BN:152:THR:HA	2.40	0.41
34:BA:330:A:C8	50:BQ:29:LYS:HE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BR:122:ALA:HB2	51:BR:145:HIS:CG	2.55	0.41
58:BY:14:HIS:HB2	58:BY:17:HIS:CD2	2.55	0.41
58:BY:83:GLU:HA	85:AA:2161:C:C4'	2.37	0.41
21:AM:13:ILE:CG2	45:BL:123:TYR:CD2	2.75	0.41
34:BA:542:A:N1	34:BA:543:A:C5	2.88	0.41
34:BA:565:U:C4	34:BA:566:G:C5	3.09	0.41
85:AA:125:A:C5	85:AA:126:U:N3	2.89	0.41
85:AA:1277:C:H1'	85:AA:1278:C:P	2.59	0.41
85:AA:687:G:OP2	85:AA:1476:C:C5	2.73	0.41
85:AA:1498:C:H3'	85:AA:1499:G:H8	1.86	0.41
85:AA:1492:U:C4	85:AA:1508:A:C8	3.09	0.41
85:AA:2130:G:C2	85:AA:2189:U:O2	2.73	0.41
85:AA:30:G:C2	85:AA:31:C:C2	3.08	0.41
85:AA:43:A:H2'	85:AA:44:C:C5'	2.50	0.41
85:AA:629:A:C2	85:AA:630:A:C2	3.09	0.41
35:BB:569:G:O6	35:BB:570:A:C5	2.74	0.41
35:BB:808:U:C6	35:BB:809:U:C6	3.09	0.41
35:BB:810:G:C6	35:BB:830:G:C6	3.08	0.41
85:AA:959:C:H2'	85:AA:960:G:O4'	2.21	0.41
85:AA:1187:G:C2	85:AA:1191:G:C5	3.07	0.41
85:AA:1203:G:C6	85:AA:1204:A:C5	3.09	0.41
85:AA:708:G:N1	85:AA:1215:A:C5	2.88	0.41
85:AA:1218:C:C6	85:AA:1218:C:H3'	2.55	0.41
85:AA:711:C:O3'	85:AA:712:U:C6	2.74	0.41
35:BB:516:G:N1	35:BB:517:G:C4	2.88	0.41
35:BB:536:U:H1'	35:BB:539:G:C5	2.55	0.41
85:AA:1196:C:C4	85:AA:1197:U:C4	3.08	0.41
15:AG:73:ARG:NH1	85:AA:940:G:C5	2.88	0.41
85:AA:2028:G:N3	85:AA:2028:G:H2'	2.36	0.41
34:BA:291:C:C4	34:BA:292:C:C5	3.08	0.41
34:BA:191:G:C2	34:BA:293:A:C4	3.09	0.41
34:BA:520:G:C8	34:BA:520:G:H3'	2.55	0.41
34:BA:603:U:H5	34:BA:680:C:N4	2.18	0.41
34:BA:1238:C:N3	34:BA:1247:G:C2	2.88	0.41
3:A2:152:LEU:HG	85:AA:1911:A:H5"	2.03	0.41
35:BB:366:G:H2'	35:BB:367:C:O4'	2.20	0.41
8:A7:34:THR:HG23	8:A7:73:VAL:CG1	2.50	0.41
35:BB:1519:U:C4	35:BB:1520:C:C4	3.08	0.41
41:BH:21:G:C5	41:BH:22:A:N9	2.89	0.41
41:BH:20:A:C6	41:BH:21:G:C8	3.07	0.41
85:AA:11:A:C2	85:AA:12:U:N1	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:9:U:N3	85:AA:12:U:OP2	2.53	0.41
85:AA:1668:G:N1	85:AA:1702:G:C2	2.88	0.41
85:AA:1681:G:C4	85:AA:1682:U:C4	3.09	0.41
85:AA:1685:G:O6	85:AA:1686:G:C6	2.74	0.41
85:AA:2216:A:N7	85:AA:2218:G:C2	2.89	0.41
85:AA:2222:G:C6	85:AA:2223:C:N3	2.88	0.41
85:AA:9:U:H3'	85:AA:9:U:C6	2.55	0.41
85:AA:314:C:C5	85:AA:316:C:C4	3.08	0.41
85:AA:2169:C:C2	85:AA:2170:G:C8	3.08	0.41
85:AA:704:A:C2'	85:AA:704:A:N3	2.82	0.41
85:AA:1539:A:N3	85:AA:2083:G:C2	2.89	0.41
52:BS:121:HIS:CE1	52:BS:121:HIS:H	2.37	0.41
7:A6:70:LEU:HD11	85:AA:916:A:C2	2.56	0.41
34:BA:1334:G:N1	34:BA:1408:C:C4	2.89	0.41
34:BA:1409:A:C2	34:BA:1410:C:N1	2.87	0.41
85:AA:380:C:N3	85:AA:421:G:C6	2.89	0.41
85:AA:1163:G:O5'	85:AA:1163:G:C8	2.74	0.41
16:AH:24:VAL:O	16:AH:24:VAL:HG13	2.20	0.41
85:AA:68:A:C4	85:AA:81:A:N3	2.88	0.41
85:AA:338:G:C2	85:AA:352:G:C4	3.09	0.41
85:AA:750:A:C3'	85:AA:750:A:C8	3.02	0.41
34:BA:575:U:HO2'	34:BA:576:C:P	2.43	0.41
34:BA:577:U:H4'	34:BA:578:C:OP2	2.20	0.41
34:BA:585:G:C2	34:BA:587:U:C5	3.09	0.41
86:AB:30:G:H3'	86:AB:31:A:C8	2.55	0.41
86:AB:37:A:H3'	86:AB:38:A:H8	1.84	0.41
34:BA:226:A:H5'	34:BA:227:C:H5'	2.03	0.41
34:BA:231:U:OP1	40:BG:12:A:N6	2.53	0.41
85:AA:1246:G:C6	85:AA:1247:A:C4	3.08	0.41
86:AB:1:G:H2'	86:AB:2:C:C6	2.55	0.41
35:BB:1375:G:C6	35:BB:1388:A:C6	3.08	0.41
34:BA:1152:A:H2'	44:BK:22:PHE:CZ	2.55	0.41
34:BA:979:G:C8	34:BA:981:A:OP2	2.74	0.41
85:AA:770:C:C2	85:AA:771:A:O4'	2.74	0.41
85:AA:732:G:O6	85:AA:773:G:H1'	2.20	0.41
85:AA:1430:A:N1	85:AA:1431:U:H1'	2.36	0.41
34:BA:409:A:C5	34:BA:410:G:C4	3.09	0.41
13:AE:19:GLN:HB2	13:AE:24:TYR:CZ	2.55	0.41
1:A0:147:LYS:HG2	1:A0:156:CYS:SG	2.61	0.41
1:A0:151:GLN:HG3	85:AA:1441:G:OP1	2.20	0.41
85:AA:1345:C:O2'	85:AA:1426:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1556:G:C5	85:AA:1557:U:N3	2.88	0.41
34:BA:1367:G:C2	34:BA:1368:G:C8	3.08	0.41
49:BP:15:ILE:HG22	49:BP:21:GLN:HA	2.03	0.41
6:A5:162:TRP:CZ3	6:A5:166:ARG:HG2	2.55	0.41
5:A4:67:LEU:O	5:A4:68:TYR:CZ	2.74	0.41
52:BS:42:ARG:O	52:BS:46:MET:SD	2.78	0.41
59:BZ:115:ILE:O	59:BZ:119:LYS:HG2	2.20	0.41
2:A1:89:ILE:HG23	2:A1:94:ASP:HB2	2.02	0.41
85:AA:1571:A:C8	85:AA:1572:C:C4	3.08	0.41
33:AZ:43:ILE:HG22	33:AZ:86:GLU:HA	2.02	0.41
22:AO:118:HIS:HB3	22:AO:122:LYS:NZ	2.35	0.41
52:BS:69:ARG:HB2	52:BS:74:ARG:CZ	2.51	0.41
29:AV:59:SER:C	29:AV:61:ILE:H	2.24	0.41
7:A6:16:ARG:HA	7:A6:17:PRO:HD3	1.82	0.41
4:A3:117:GLU:HA	4:A3:117:GLU:OE1	2.20	0.41
48:BO:109:TYR:N	48:BO:109:TYR:CD1	2.89	0.41
20:AL:41:ALA:HA	31:AX:204:ILE:HA	2.01	0.41
3:A2:153:LYS:O	3:A2:154:THR:HB	2.20	0.41
4:A3:244:ASP:O	4:A3:247:LYS:HB3	2.20	0.41
42:BI:48:ILE:HG22	42:BI:49:HIS:N	2.36	0.41
26:AS:116:PRO:HD2	32:AY:4:VAL:HG21	2.02	0.41
85:AA:2158:U:O2'	85:AA:2159:C:C6	2.72	0.41
34:BA:1053:U:C3'	34:BA:1053:U:C6	3.04	0.41
34:BA:1146:U:O4'	44:BK:196:HIS:CE1	2.73	0.41
34:BA:1194:G:C2'	34:BA:1195:G:C8	3.03	0.41
34:BA:125:G:C5	34:BA:126:G:C8	3.08	0.41
34:BA:125:G:C2	34:BA:126:G:C4	3.08	0.41
34:BA:1275:G:C5	34:BA:1276:G:C8	3.09	0.41
34:BA:131:A:O3'	34:BA:132:U:C5	2.74	0.41
34:BA:125:G:C2	34:BA:139:U:O2	2.73	0.41
34:BA:1509:U:C2	34:BA:1510:C:C6	3.09	0.41
34:BA:1510:C:H2'	34:BA:1511:C:C6	2.55	0.41
34:BA:1542:A:C2	34:BA:1568:A:O4'	2.74	0.41
34:BA:1619:U:O5'	34:BA:1619:U:C6	2.74	0.41
34:BA:161:U:N3	34:BA:165:C:N3	2.68	0.41
34:BA:183:G:C6	34:BA:184:C:C4	3.09	0.41
34:BA:186:G:N2	34:BA:187:G:C4	2.89	0.41
34:BA:219:U:O4	34:BA:220:U:C4	2.73	0.41
34:BA:236:A:H1'	34:BA:239:C:H41	1.86	0.41
34:BA:368:U:O4	35:BB:1243:A:H2	2.04	0.41
34:BA:111:U:H3	34:BA:382:G:N2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:38:G:C4	35:BB:1259:A:N1	2.89	0.41
34:BA:412:G:C6	34:BA:413:A:C5	3.09	0.41
34:BA:458:G:N2	34:BA:459:U:C1'	2.83	0.41
34:BA:471:U:C4	34:BA:472:G:C4	3.08	0.41
34:BA:828:A:C4	34:BA:829:U:C5	3.08	0.41
34:BA:862:C:N3	34:BA:875:G:C6	2.89	0.41
34:BA:993:C:C2	34:BA:994:G:O6	2.73	0.41
35:BB:785:G:C2	35:BB:1036:G:N3	2.88	0.41
35:BB:1133:C:C4	35:BB:1134:G:C6	3.08	0.41
35:BB:1144:A:H2'	35:BB:1145:G:H8	1.84	0.41
35:BB:1159:U:H2'	35:BB:1160:U:C5	2.55	0.41
35:BB:1226:G:C4	47:BN:192:LYS:NZ	2.88	0.41
35:BB:375:G:C2	35:BB:376:A:C4	3.09	0.41
35:BB:481:A:C6	35:BB:499:A:C4	3.09	0.41
35:BB:489:A:C5	35:BB:490:G:C5	3.09	0.41
35:BB:650:A:H2'	35:BB:650:A:N3	2.35	0.41
35:BB:73:G:C5	35:BB:74:U:C4	3.09	0.41
35:BB:878:G:N1	35:BB:900:C:H1'	2.36	0.41
35:BB:89:C:C4	35:BB:90:G:C8	3.09	0.41
36:BC:108:A:C2	36:BC:111:C:C5	3.08	0.41
36:BC:119:G:N1	36:BC:120:G:C5	2.89	0.41
36:BC:147:G:C6	36:BC:148:C:C2	3.08	0.41
36:BC:16:A:C4	36:BC:17:U:C6	3.09	0.41
36:BC:67:U:H2'	36:BC:68:A:H8	1.83	0.41
36:BC:99:U:C4	36:BC:100:U:C5	3.09	0.41
37:BD:116:C:C4	37:BD:117:U:C4	3.08	0.41
37:BD:3:G:N2	37:BD:4:U:C2	2.89	0.41
37:BD:71:G:C5	37:BD:105:G:N1	2.89	0.41
38:BE:104:G:C4	38:BE:105:A:C4	3.08	0.41
38:BE:10:G:C4	38:BE:11:A:C5	3.08	0.41
38:BE:158:U:C4	38:BE:159:A:C5	3.08	0.41
38:BE:25:U:H2'	38:BE:25:U:O2	2.21	0.41
40:BG:19:C:H2'	40:BG:20:U:O4'	2.20	0.41
40:BG:94:G:C2	40:BG:104:A:C6	3.09	0.41
41:BH:25:A:N9	41:BH:128:G:C6	2.88	0.41
41:BH:32:U:H5'	41:BH:33:G:OP2	2.21	0.41
41:BH:38:G:C5	41:BH:39:G:C8	3.08	0.41
42:BI:56:ARG:HG3	42:BI:57:ASN:N	2.36	0.41
44:BK:87:MET:HB2	44:BK:138:MET:SD	2.60	0.41
53:BT:110:ARG:CZ	53:BT:120:TYR:CZ	3.04	0.41
54:BU:103:GLU:O	54:BU:107:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:22:VAL:HA	58:BY:32:VAL:HA	2.02	0.41
2:A1:24:PHE:HB3	2:A1:25:ALA:O	2.21	0.41
85:AA:1281:G:C2	85:AA:1282:A:C5	3.08	0.41
85:AA:1508:A:C6	85:AA:1509:A:C6	3.09	0.41
85:AA:160:A:C5	85:AA:483:G:O6	2.74	0.41
85:AA:2130:G:O6	85:AA:2188:C:N4	2.54	0.41
85:AA:2197:A:H8	85:AA:2197:A:OP2	2.04	0.41
85:AA:2119:C:N3	85:AA:2200:A:C2	2.89	0.41
85:AA:2200:A:C6	85:AA:2201:A:C4	3.09	0.41
85:AA:626:G:N2	85:AA:627:A:C2	2.88	0.41
85:AA:686:U:C4	85:AA:687:G:C6	3.09	0.41
34:BA:618:G:C6	34:BA:619:U:N3	2.89	0.41
34:BA:631:G:C2	34:BA:651:U:O2	2.74	0.41
35:BB:545:C:C6	35:BB:572:G:O6	2.73	0.41
35:BB:797:C:H3'	35:BB:977:G:P	2.61	0.41
35:BB:798:A:C2	35:BB:799:A:N1	2.89	0.41
35:BB:866:A:N6	35:BB:867:C:C4	2.89	0.41
85:AA:1116:G:C2	85:AA:1117:G:C4	3.08	0.41
15:AG:91:LEU:HD21	85:AA:1117:G:H4'	2.01	0.41
30:AW:31:SER:CB	30:AW:50:HIS:CD2	3.04	0.41
35:BB:517:G:N1	35:BB:534:C:N3	2.68	0.41
49:BP:92:VAL:O	49:BP:95:PRO:HD2	2.20	0.41
18:AJ:107:SER:HA	85:AA:930:G:H5'	2.02	0.41
85:AA:1655:G:C6	85:AA:1656:C:C4	3.09	0.41
85:AA:2043:A:C4	85:AA:2044:A:H1'	2.56	0.41
21:AM:38:GLY:HA2	85:AA:2033:C:H4'	2.02	0.41
34:BA:1211:G:H8	34:BA:1211:G:C5'	2.28	0.41
34:BA:520:G:N1	34:BA:521:C:C2	2.89	0.41
34:BA:1238:C:C4	34:BA:1247:G:C2	3.08	0.41
35:BB:1277:A:C2	35:BB:1278:A:N9	2.89	0.41
35:BB:26:C:C2	35:BB:27:C:C6	3.09	0.41
22:AO:63:ALA:O	85:AA:1916:A:H4'	2.20	0.41
23:AP:158:ILE:HA	25:AR:9:GLU:OE1	2.21	0.41
35:BB:1514:G:C4	35:BB:1515:C:C5	3.08	0.41
8:A7:34:THR:HG22	8:A7:40:LEU:HG	2.02	0.41
8:A7:73:VAL:HG22	8:A7:74:ALA:N	2.35	0.41
85:AA:1290:G:C6	85:AA:1292:A:N6	2.88	0.41
85:AA:1293:U:C2	85:AA:1294:U:C1'	3.04	0.41
85:AA:1520:A:C8	85:AA:1520:A:H5"	2.56	0.41
85:AA:1666:U:C4	85:AA:1667:C:C5	3.08	0.41
85:AA:1668:G:N3	85:AA:1669:G:C8	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:2100:A:H4'	85:AA:2101:C:O5'	2.20	0.41
85:AA:2226:U:H2'	85:AA:2227:A:C8	2.55	0.41
34:BA:1287:G:N1	34:BA:1288:U:N3	2.69	0.41
34:BA:1294:C:H1'	48:BO:141:LYS:HZ3	1.84	0.41
85:AA:725:G:H1'	85:AA:777:U:C6	2.55	0.41
85:AA:786:G:C6	85:AA:787:U:O4	2.74	0.41
85:AA:801:U:H3'	85:AA:802:A:C8	2.56	0.41
57:BX:89:LEU:H	57:BX:106:PHE:HA	1.84	0.41
57:BX:88:PRO:HA	57:BX:106:PHE:CG	2.55	0.41
85:AA:910:G:N2	85:AA:911:A:C5	2.89	0.41
2:A1:30:ALA:HB2	85:AA:364:C:H4'	2.01	0.41
85:AA:396:U:H2'	85:AA:396:U:O2	2.20	0.41
85:AA:408:C:C2	85:AA:409:C:C5	3.09	0.41
85:AA:416:U:H4'	85:AA:418:G:N7	2.35	0.41
34:BA:252:A:C3'	34:BA:252:A:C8	3.04	0.41
40:BG:135:C:H2'	40:BG:136:G:O4'	2.20	0.41
85:AA:1234:G:N2	85:AA:1266:C:H1'	2.35	0.41
85:AA:68:A:C6	85:AA:81:A:C4	3.09	0.41
85:AA:71:G:C6	85:AA:76:G:C5	3.09	0.41
19:AK:128:ARG:CB	19:AK:128:ARG:HH11	2.30	0.41
39:BF:40:U:OP2	39:BF:41:U:C4	2.74	0.41
85:AA:746:G:C4	85:AA:759:G:C2	3.07	0.41
34:BA:531:C:C6	34:BA:580:U:C2	3.09	0.41
3:A2:87:HIS:O	3:A2:91:ASP:HA	2.20	0.41
34:BA:226:A:H5'	34:BA:227:C:H6	1.86	0.41
34:BA:1429:A:N1	34:BA:1430:C:C2	2.89	0.41
23:AP:74:HIS:CD2	23:AP:143:LYS:CD	3.02	0.41
86:AB:5:G:C4	86:AB:69:G:N2	2.88	0.41
85:AA:1091:C:C5	85:AA:1092:G:N7	2.89	0.41
34:BA:981:A:C6	34:BA:984:U:C2	3.08	0.41
34:BA:835:U:C4	34:BA:836:U:H1'	2.55	0.41
35:BB:715:G:C2'	35:BB:716:G:C8	3.03	0.41
22:AO:19:LYS:HD3	85:AA:1795:C:H1'	2.03	0.41
85:AA:1144:G:C6	85:AA:1145:U:C5	3.08	0.41
1:A0:83:TYR:CE2	1:A0:213:ARG:NH1	2.89	0.41
85:AA:1065:G:C2	85:AA:1066:U:C2	3.08	0.41
8:A7:195:HIS:CD2	8:A7:221:ARG:HH11	2.39	0.41
35:BB:758:A:H5'	43:BJ:204:LYS:HE2	2.02	0.41
23:AP:51:ARG:HG3	23:AP:52:LEU:N	2.35	0.41
1:A0:186:ALA:O	1:A0:190:LEU:HG	2.21	0.41
34:BA:1384:G:C6	34:BA:1394:U:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:41:PHE:O	58:BY:44:TYR:HB3	2.21	0.41
18:AJ:43:LYS:C	18:AJ:44:HIS:CD2	2.94	0.41
2:A1:132:ARG:HH21	4:A3:213:LEU:HD13	1.85	0.41
54:BU:92:ARG:HG2	54:BU:92:ARG:H	1.60	0.41
44:BK:177:LEU:O	44:BK:177:LEU:HG	2.21	0.41
25:AR:22:CYS:C	25:AR:24:ALA:H	2.24	0.41
1:A0:39:GLU:HB3	1:A0:73:LEU:O	2.19	0.41
33:AZ:64:MET:CE	33:AZ:64:MET:HA	2.51	0.41
35:BB:166:C:H2'	35:BB:167:U:C6	2.55	0.41
85:AA:2166:G:C6	85:AA:2167:A:C4	3.09	0.41
34:BA:1008:A:C4	34:BA:1009:G:C8	3.09	0.41
34:BA:10:G:C8	34:BA:10:G:O5'	2.73	0.41
34:BA:1100:A:C2	34:BA:1158:A:C2	3.09	0.41
34:BA:1174:A:C6	34:BA:1175:G:C5	3.08	0.41
34:BA:1284:G:N1	34:BA:1285:G:C8	2.89	0.41
34:BA:1304:C:C2	34:BA:1305:A:C6	3.08	0.41
34:BA:1411:C:N3	34:BA:1412:G:C5	2.89	0.41
34:BA:1300:G:C2	34:BA:1440:C:C2	3.09	0.41
34:BA:1446:G:C6	52:BS:2:VAL:O	2.74	0.41
34:BA:1513:G:C6	34:BA:1514:A:C6	3.09	0.41
34:BA:1524:G:N3	34:BA:1524:G:C2'	2.83	0.41
34:BA:1573:C:C2	34:BA:1574:C:C5	3.09	0.41
34:BA:1598:U:H4'	51:BR:66:LYS:HB3	2.02	0.41
34:BA:1726:U:O2	34:BA:1728:G:C8	2.74	0.41
34:BA:1731:A:H3'	34:BA:1732:A:N7	2.36	0.41
34:BA:1750:A:N1	34:BA:1774:G:C6	2.89	0.41
34:BA:1785:G:H2'	34:BA:1786:C:C6	2.55	0.41
34:BA:185:A:C2	34:BA:186:G:N9	2.89	0.41
34:BA:210:G:C2	34:BA:223:U:C2	3.09	0.41
34:BA:133:A:C2	34:BA:308:C:O4'	2.74	0.41
34:BA:387:A:C2	34:BA:388:A:C5	3.08	0.41
34:BA:25:C:OP1	34:BA:392:A:N6	2.53	0.41
34:BA:392:A:N6	50:BQ:210:ARG:HH11	2.18	0.41
34:BA:403:A:C4	34:BA:1531:G:C1'	3.03	0.41
34:BA:423:G:C6	34:BA:427:G:C6	3.09	0.41
34:BA:427:G:C2	34:BA:428:C:N1	2.88	0.41
34:BA:490:A:C2	34:BA:491:U:O2	2.74	0.41
34:BA:733:G:H1	34:BA:1587:C:H42	1.68	0.41
34:BA:763:U:C5	34:BA:770:G:C1'	3.02	0.41
34:BA:764:G:C6	34:BA:769:U:C5	3.08	0.41
34:BA:787:A:C6	34:BA:797:A:C8	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:812:A:C8	34:BA:812:A:O5'	2.74	0.41
34:BA:846:U:C4	42:BI:69:VAL:HG21	2.56	0.41
34:BA:745:A:C2	34:BA:892:C:C2	3.08	0.41
34:BA:915:A:C8	34:BA:1005:C:N3	2.89	0.41
35:BB:1129:C:H2'	35:BB:1130:U:O4'	2.21	0.41
35:BB:1171:U:C2	35:BB:1182:A:C2	3.09	0.41
35:BB:1444:U:N3	35:BB:1445:A:C5	2.89	0.41
35:BB:1469:A:H2'	35:BB:1470:G:H8	1.86	0.41
35:BB:373:C:C2	35:BB:374:A:C8	3.08	0.41
35:BB:481:A:N1	35:BB:499:A:C2	2.88	0.41
35:BB:62:C:N3	35:BB:63:A:N1	2.68	0.41
34:BA:1845:G:C6	35:BB:6:A:N6	2.89	0.41
35:BB:701:U:O2'	35:BB:701:U:C6	2.74	0.41
35:BB:72:G:H2'	35:BB:73:G:O4'	2.20	0.41
35:BB:78:C:C2	35:BB:79:U:C6	3.09	0.41
36:BC:106:G:C4	36:BC:115:G:C2	3.08	0.41
36:BC:109:A:H1'	36:BC:111:C:C5	2.56	0.41
37:BD:7:G:C4	37:BD:113:G:N1	2.89	0.41
37:BD:5:A:N1	37:BD:115:A:C6	2.88	0.41
37:BD:54:A:C6	37:BD:55:A:C4	3.09	0.41
38:BE:120:C:C5	38:BE:121:G:C5	3.08	0.41
38:BE:94:U:H3	38:BE:126:G:H1	1.67	0.41
38:BE:164:C:C2	38:BE:165:U:C6	3.09	0.41
38:BE:17:U:C3'	38:BE:17:U:C6	3.03	0.41
38:BE:180:G:H5"	38:BE:180:G:C8	2.55	0.41
38:BE:192:A:N1	38:BE:193:A:C6	2.89	0.41
38:BE:201:A:C5	38:BE:202:C:C5	3.09	0.41
38:BE:52:U:O2	40:BG:97:G:C6	2.74	0.41
38:BE:73:A:C8	38:BE:73:A:H3'	2.55	0.41
38:BE:85:G:H2'	38:BE:86:C:O2'	2.21	0.41
40:BG:127:G:N2	40:BG:163:G:H2'	2.36	0.41
40:BG:90:G:N1	40:BG:91:U:C4	2.88	0.41
41:BH:130:G:C4	41:BH:131:A:C8	3.08	0.41
41:BH:62:C:C5	41:BH:63:G:C4	3.09	0.41
41:BH:7:C:C5	41:BH:8:C:C6	3.09	0.41
43:BJ:57:ARG:HE	43:BJ:152:VAL:HG12	1.85	0.41
44:BK:206:ILE:HA	44:BK:207:THR:OG1	2.20	0.41
35:BB:1120:A:H4'	45:BL:111:PHE:N	2.35	0.41
34:BA:360:C:H2'	46:BM:39:ALA:HB3	202.73	0.41
56:BW:21:VAL:HG12	56:BW:23:ALA:N	5.27	0.41
57:BX:135:LEU:N	57:BX:135:LEU:HD23	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BY:10:HIS:HB2	58:BY:57:ARG:CB	2.48	0.41
34:BA:543:A:N3	34:BA:544:U:C6	2.88	0.41
34:BA:542:A:N1	34:BA:566:G:C6	2.89	0.41
85:AA:135:C:N4	85:AA:138:C:H1'	2.36	0.41
85:AA:22:A:C6	85:AA:678:A:C2	3.08	0.41
85:AA:485:A:N1	85:AA:486:G:C5	2.89	0.41
85:AA:53:G:N3	85:AA:493:A:C2	2.89	0.41
85:AA:39:A:N6	85:AA:537:G:C4	2.89	0.41
85:AA:597:A:C6	85:AA:598:C:C6	3.08	0.41
32:AY:13:LYS:CB	85:AA:641:A:H4'	2.50	0.41
32:AY:57:MET:HE3	32:AY:57:MET:HA	2.02	0.41
34:BA:630:U:H2'	34:BA:631:G:N9	2.35	0.41
34:BA:649:A:C2	34:BA:650:C:H1'	2.56	0.41
35:BB:546:A:H2'	35:BB:555:G:O6	2.21	0.41
35:BB:562:A:H3'	35:BB:563:A:C8	2.55	0.41
56:BW:70:GLU:HG2	56:BW:71:LEU:HG	2.02	0.41
85:AA:709:A:C2	85:AA:710:A:C4	3.09	0.41
85:AA:1126:G:C4	85:AA:1201:A:C2	3.09	0.41
13:AE:170:LYS:HA	85:AA:938:A:H61	1.85	0.41
34:BA:194:G:N9	34:BA:195:G:C8	2.89	0.41
34:BA:1208:U:C5	34:BA:1210:A:C2	3.09	0.41
35:BB:1277:A:N6	35:BB:1278:A:C6	2.88	0.41
34:BA:1241:U:C6	44:BK:4:ARG:NH2	2.89	0.41
85:AA:591:A:H3'	85:AA:591:A:OP2	2.20	0.41
41:BH:13:C:H2'	41:BH:14:C:C5'	2.50	0.41
41:BH:15:A:C3'	41:BH:16:A:H8	2.34	0.41
41:BH:19:G:O2'	41:BH:20:A:H5'	2.21	0.41
85:AA:1286:C:C2	85:AA:1287:C:C6	3.09	0.41
85:AA:1451:U:C5	85:AA:1452:C:C5	3.08	0.41
85:AA:1668:G:P	85:AA:1668:G:H8	2.43	0.41
85:AA:1671:G:C6	85:AA:1699:A:N6	2.89	0.41
85:AA:1665:G:C6	85:AA:1705:G:C5	3.08	0.41
85:AA:9:U:N3	85:AA:11:A:C5'	2.84	0.41
51:BR:56:ARG:HH11	51:BR:57:CYS:CB	2.33	0.41
85:AA:111:A:N6	85:AA:311:U:C2	2.89	0.41
85:AA:271:A:C2	85:AA:978:U:O2	2.74	0.41
34:BA:2:A:N1	36:BC:169:G:C5	2.89	0.41
85:AA:609:U:O4	85:AA:610:C:C2	2.74	0.41
85:AA:617:C:H4'	85:AA:618:A:OP1	2.21	0.41
85:AA:2067:A:C2	85:AA:2069:A:H1'	2.55	0.41
52:BS:120:TYR:HB3	52:BS:121:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1719:C:N4	85:AA:1822:G:H21	2.18	0.41
85:AA:390:U:H2'	85:AA:391:G:O4'	2.21	0.41
85:AA:383:C:C5	85:AA:384:C:C5	3.09	0.41
85:AA:1264:U:O5'	85:AA:1264:U:C6	2.73	0.41
4:A3:178:LYS:CE	85:AA:65:A:H5'	2.51	0.41
85:AA:72:C:H1'	85:AA:76:G:N1	2.36	0.41
35:BB:1432:U:C2	35:BB:1433:U:C4	3.09	0.41
34:BA:1378:A:C5	34:BA:1379:G:C6	3.08	0.41
85:AA:747:U:C2	85:AA:748:C:C6	3.08	0.41
34:BA:525:A:H2	34:BA:587:U:H3	1.69	0.41
85:AA:1993:C:C4	85:AA:1994:G:C5	3.09	0.41
19:AK:67:SER:O	85:AA:1792:C:C5	2.72	0.41
34:BA:229:C:O5'	34:BA:229:C:C6	2.74	0.41
35:BB:480:C:C2	35:BB:501:G:N1	2.89	0.41
35:BB:459:U:O2'	35:BB:460:C:H5'	2.21	0.41
85:AA:1092:G:C6	85:AA:1093:C:N3	2.89	0.41
35:BB:14:C:C4	35:BB:15:C:N3	2.88	0.41
34:BA:1595:G:C4	34:BA:1596:C:C5	3.09	0.41
35:BB:1380:G:H5"	35:BB:1381:U:OP2	2.20	0.41
27:AT:94:PRO:HD2	27:AT:97:ARG:HD2	2.03	0.41
40:BG:116:G:C2	40:BG:117:C:C2	3.09	0.41
44:BK:134:ILE:CG2	44:BK:136:LEU:O	2.68	0.41
8:A7:154:TRP:CZ3	8:A7:174:TRP:CD2	3.09	0.41
8:A7:108:HIS:HE1	8:A7:126:SER:CB	2.33	0.41
58:BY:37:ARG:HG2	58:BY:39:LYS:CB	2.50	0.41
18:AJ:7:LEU:HD13	18:AJ:34:VAL:HA	2.01	0.41
18:AJ:28:ARG:HH12	85:AA:1113:G:H3'	1.85	0.41
44:BK:184:LEU:HD12	44:BK:184:LEU:HA	1.98	0.41
34:BA:1768:G:H2'	34:BA:1769:U:O4'	2.21	0.41
15:AG:71:ILE:O	15:AG:75:LEU:HD13	2.21	0.41
1:A0:69:ASN:HA	1:A0:85:LYS:HA	2.02	0.41
28:AU:67:THR:H	28:AU:70:ILE:HG12	1.85	0.41
20:AL:25:ASN:HB3	20:AL:27:ASP:H	1.86	0.41
51:BR:39:MET:HB3	51:BR:40:LYS:HB2	2.02	0.41
35:BB:272:C:H2'	35:BB:273:G:C8	2.56	0.41
52:BS:9:TYR:HA	52:BS:65:VAL:HA	2.03	0.41
34:BA:1044:A:C2	34:BA:1045:C:C4	3.09	0.41
34:BA:1049:G:H8	34:BA:1049:G:O5'	2.04	0.41
34:BA:1195:G:C2	34:BA:1196:C:C2	3.08	0.41
34:BA:1228:G:H3'	34:BA:1229:G:C5'	2.50	0.41
34:BA:1473:A:C6	34:BA:1474:G:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1482:A:C2	34:BA:1483:U:C6	3.08	0.41
34:BA:1521:C:C2	34:BA:1522:G:C8	3.08	0.41
34:BA:1527:G:H2'	34:BA:1528:U:C6	2.56	0.41
34:BA:162:G:C2	34:BA:320:G:N7	2.88	0.41
34:BA:173:U:H2'	34:BA:174:A:O4'	2.20	0.41
34:BA:1750:A:H2'	34:BA:1751:C:C6	2.56	0.41
34:BA:1728:G:O6	34:BA:1799:G:C4	2.74	0.41
34:BA:1807:G:N3	34:BA:1808:A:C8	2.89	0.41
34:BA:1841:A:C5	34:BA:1842:U:O4	2.74	0.41
34:BA:210:G:C2	34:BA:211:C:C5	3.08	0.41
34:BA:212:A:C6	34:BA:221:G:N1	2.89	0.41
34:BA:209:A:N6	34:BA:223:U:H3	2.11	0.41
34:BA:23:A:N1	34:BA:395:G:C6	2.88	0.41
34:BA:322:U:O5'	34:BA:322:U:C6	2.74	0.41
34:BA:354:G:C5	34:BA:355:U:C6	3.08	0.41
34:BA:378:C:C2	34:BA:379:C:C6	3.09	0.41
34:BA:38:G:H2'	34:BA:39:C:H5'	2.03	0.41
34:BA:471:U:C4	34:BA:472:G:C5	3.08	0.41
34:BA:484:A:C5	36:BC:6:G:N2	2.88	0.41
34:BA:492:G:C2	34:BA:710:A:N3	2.88	0.41
34:BA:504:A:N1	34:BA:699:G:C2	2.89	0.41
34:BA:63:A:C2	47:BN:105:ARG:NH2	2.88	0.41
34:BA:733:G:N1	34:BA:734:G:C4	2.89	0.41
34:BA:804:G:H3'	34:BA:805:A:H8	1.77	0.41
34:BA:819:G:N2	34:BA:852:C:C2	2.88	0.41
34:BA:884:G:H3'	42:BI:66:ARG:NH2	2.36	0.41
34:BA:911:G:C2	34:BA:912:G:H1'	2.56	0.41
35:BB:701:U:C6	35:BB:1040:C:OP2	2.72	0.41
35:BB:111:C:C5'	35:BB:112:G:C8	3.03	0.41
35:BB:1170:U:H1'	54:BU:90:CYS:SG	2.61	0.41
35:BB:1442:C:H2'	35:BB:1443:C:C6	2.55	0.41
35:BB:1463:A:H4'	40:BG:23:C:C5	2.53	0.41
35:BB:385:C:C4	35:BB:386:G:H1'	2.55	0.41
34:BA:1654:G:C6	35:BB:39:C:N4	2.89	0.41
35:BB:594:U:HO2'	35:BB:595:U:H6	1.67	0.41
35:BB:702:G:C4	35:BB:1039:A:C6	3.09	0.41
36:BC:19:A:N6	36:BC:20:C:C4	2.89	0.41
36:BC:24:G:C2	36:BC:25:C:C2	3.09	0.41
36:BC:44:A:C6	36:BC:45:C:N4	2.89	0.41
37:BD:13:A:C8	37:BD:110:G:C1'	3.03	0.41
38:BE:101:C:N3	38:BE:117:A:N1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BE:130:G:C8	38:BE:131:C:O4'	2.73	0.41
38:BE:1:U:C4	38:BE:12:A:C1'	3.00	0.41
38:BE:58:U:C6	38:BE:58:U:C3'	3.04	0.41
40:BG:121:C:H3'	40:BG:121:C:P	2.61	0.41
40:BG:170:G:H2'	40:BG:172:C:H3'	2.01	0.41
40:BG:171:A:C8	40:BG:172:C:H5	2.39	0.41
40:BG:179:C:C2	40:BG:180:C:C5	3.09	0.41
40:BG:3:G:OP1	40:BG:3:G:H4'	2.20	0.41
40:BG:63:U:H3'	40:BG:64:C:C6	2.55	0.41
40:BG:6:A:C2	40:BG:19:C:C2	3.08	0.41
40:BG:8:U:O2	40:BG:9:G:C8	2.73	0.41
41:BH:26:C:O2	41:BH:28:U:C1'	2.69	0.41
41:BH:2:U:C4	41:BH:3:U:C2	3.09	0.41
41:BH:66:G:N1	41:BH:67:G:C5	2.89	0.41
34:BA:748:C:P	42:BI:21:SER:HG	2.44	0.41
45:BL:61:VAL:HG11	45:BL:64:PHE:CE2	2.56	0.41
45:BL:57:ALA:O	45:BL:69:ASN:HA	2.21	0.41
34:BA:178:C:OP1	47:BN:136:LYS:HG2	2.21	0.41
47:BN:184:LYS:HE3	47:BN:186:MET:SD	2.61	0.41
35:BB:1230:A:C2	47:BN:205:ARG:HB2	2.56	0.41
39:BF:25:G:C5'	48:BO:55:ARG:HH12	2.31	0.41
53:BT:78:THR:O	53:BT:81:ARG:HG2	2.20	0.41
4:A3:58:ASP:OD2	4:A3:62:PHE:HB2	2.20	0.41
7:A6:42:TRP:N	7:A6:42:TRP:CD1	2.87	0.41
85:AA:133:G:N2	85:AA:134:U:H1'	2.36	0.41
85:AA:147:G:C6	85:AA:177:A:C6	3.08	0.41
85:AA:1489:G:C6	85:AA:1490:A:C8	3.08	0.41
85:AA:2197:A:C2	85:AA:2198:G:C5	3.09	0.41
85:AA:2201:A:C2	85:AA:2202:G:C4	3.08	0.41
85:AA:23:G:C6	85:AA:24:U:O4	2.74	0.41
85:AA:484:G:N1	85:AA:485:A:C4	2.89	0.41
85:AA:44:C:N4	85:AA:501:A:C4	2.89	0.41
85:AA:504:U:H3	85:AA:534:A:N6	2.18	0.41
85:AA:536:C:C4	85:AA:537:G:C5	3.08	0.41
85:AA:619:A:C6	85:AA:667:A:C2	3.08	0.41
85:AA:680:U:C1'	85:AA:682:C:H3'	2.50	0.41
85:AA:694:A:C4	85:AA:695:A:C2	3.09	0.41
85:AA:84:C:C2'	85:AA:85:U:H5"	2.50	0.41
34:BA:657:C:H2'	34:BA:658:C:O4'	2.20	0.41
35:BB:545:C:C6	35:BB:572:G:C5	3.08	0.41
35:BB:824:C:C6	35:BB:824:C:C3'	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:826:G:C6	35:BB:827:U:C4	3.08	0.41
35:BB:828:G:H2'	35:BB:829:C:O4'	2.20	0.41
35:BB:837:A:H2'	35:BB:838:G:N2	2.36	0.41
85:AA:962:U:H2'	85:AA:963:U:H5'	2.03	0.41
85:AA:1125:G:O6	85:AA:1193:A:C6	2.74	0.41
85:AA:1203:G:C6	85:AA:1204:A:C6	3.09	0.41
15:AG:55:ARG:CZ	85:AA:1209:U:H5'	2.51	0.41
35:BB:1192:C:H2'	35:BB:1193:G:C8	2.56	0.41
35:BB:1196:A:N7	35:BB:1197:G:H1'	2.35	0.41
35:BB:465:C:C5	35:BB:509:A:C5	3.08	0.41
35:BB:517:G:N3	35:BB:517:G:H2'	2.36	0.41
85:AA:1136:A:H2'	85:AA:1137:C:C6	2.56	0.41
15:AG:78:LYS:NZ	85:AA:1104:G:OP2	2.50	0.41
85:AA:879:G:C6	85:AA:927:A:N6	2.88	0.41
85:AA:1581:C:C6	85:AA:1582:U:C4	3.09	0.41
85:AA:1652:A:C6	85:AA:1653:U:C6	3.09	0.41
85:AA:2003:C:C5	85:AA:2039:G:N1	2.86	0.41
17:AI:41:LYS:CE	17:AI:48:ALA:HB1	2.51	0.41
59:BZ:29:SER:HA	59:BZ:46:PRO:HA	2.02	0.41
34:BA:518:C:C6	34:BA:518:C:C3'	3.01	0.41
35:BB:1092:G:C4	35:BB:1093:C:C5	3.09	0.41
35:BB:640:A:H2	35:BB:1283:C:H5'	1.85	0.41
35:BB:1406:C:C4	35:BB:1407:U:O4	2.74	0.41
35:BB:1406:C:N3	35:BB:1407:U:C4	2.89	0.41
35:BB:22:A:C3'	35:BB:22:A:C8	3.01	0.41
35:BB:666:A:N6	35:BB:667:G:C2	2.89	0.41
34:BA:1498:A:C8	34:BA:1498:A:H3'	2.56	0.41
35:BB:1518:U:H2'	35:BB:1519:U:H5'	2.03	0.41
35:BB:1519:U:N3	35:BB:1520:C:C6	2.88	0.41
35:BB:1528:U:C2	35:BB:1529:G:N7	2.89	0.41
85:AA:1288:A:C4	85:AA:1289:U:C6	3.08	0.41
85:AA:1524:A:C5	85:AA:1525:C:C5	3.09	0.41
85:AA:1681:G:H8	85:AA:1682:U:H2'	1.86	0.41
85:AA:1618:G:C2	85:AA:1619:A:C4	3.09	0.41
85:AA:1221:G:O5'	85:AA:1221:G:H8	2.04	0.41
85:AA:266:U:H3	85:AA:971:U:H3	1.68	0.41
3:A2:44:LYS:HA	85:AA:2081:A:C6	2.56	0.41
85:AA:892:C:C6	85:AA:900:G:N1	2.88	0.41
85:AA:416:U:H1'	85:AA:418:G:C6	2.56	0.41
85:AA:1158:U:O2	85:AA:1159:C:C6	2.73	0.41
40:BG:135:C:N4	40:BG:136:G:C6	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1234:G:C6	85:AA:1235:G:N3	2.89	0.41
85:AA:1242:A:N6	85:AA:1243:G:C6	2.89	0.41
85:AA:1259:U:C6	85:AA:1260:G:C8	3.09	0.41
49:BP:132:ASP:O	49:BP:140:HIS:CE1	2.73	0.41
85:AA:741:G:O6	85:AA:764:U:C5	2.73	0.41
85:AA:340:G:C2	85:AA:341:C:C2	3.08	0.41
34:BA:526:C:C3'	34:BA:526:C:C6	3.04	0.41
34:BA:579:U:C6	34:BA:579:U:C3'	3.04	0.41
34:BA:527:C:C2	34:BA:585:G:N1	2.88	0.41
86:AB:37:A:H3'	86:AB:38:A:C8	2.56	0.41
34:BA:206:C:N3	34:BA:228:A:C5	2.89	0.41
85:AA:1249:U:O2	85:AA:1252:A:C8	2.74	0.41
85:AA:1297:G:N1	85:AA:1446:U:N3	2.68	0.41
34:BA:513:U:C4	34:BA:690:G:C6	3.08	0.41
39:BF:3:A:N6	39:BF:4:A:C6	2.89	0.41
34:BA:979:G:C8	34:BA:981:A:N7	2.89	0.41
8:A7:5:TYR:HB2	8:A7:312:TRP:HA	2.02	0.41
56:BW:36:LEU:HD23	56:BW:63:SER:C	2.41	0.41
85:AA:1880:C:H3'	85:AA:1881:C:H5	1.86	0.41
9:A8:24:ILE:HB	9:A8:25:CYS:SG	2.61	0.41
35:BB:735:A:N6	35:BB:755:A:C5	2.89	0.41
35:BB:736:G:C6	35:BB:744:U:C2	3.08	0.41
86:AB:53:G:C2	86:AB:62:C:C2	3.08	0.41
35:BB:709:G:H1'	35:BB:773:G:C2	2.56	0.41
35:BB:892:U:H2'	35:BB:893:U:C5'	2.50	0.41
34:BA:976:C:C2	34:BA:977:G:C8	3.08	0.41
4:A3:167:LYS:CB	4:A3:170:LYS:HB2	2.48	0.41
18:AJ:43:LYS:HB2	18:AJ:44:HIS:CD2	2.55	0.41
35:BB:953:G:C2	35:BB:954:G:C4	3.09	0.41
85:AA:2098:A:N6	85:AA:2243:G:C2	2.89	0.41
8:A7:15:TRP:HE1	8:A7:305:THR:HG22	1.85	0.41
25:AR:22:CYS:O	25:AR:26:ASN:N	2.53	0.41
31:AX:174:CYS:HB3	31:AX:176:LEU:HD21	2.03	0.41
50:BQ:135:SER:HB3	50:BQ:149:VAL:HG13	2.02	0.41
16:AH:30:PHE:CE2	16:AH:102:GLY:HA2	2.55	0.41
8:A7:41:LEU:HD22	8:A7:43:TRP:CE2	2.55	0.41
47:BN:166:LEU:O	47:BN:167:VAL:HG13	2.20	0.41
85:AA:2153:G:C6	85:AA:2166:G:C6	3.09	0.41
34:BA:102:G:H3'	34:BA:102:G:C8	2.55	0.41
34:BA:1160:U:C6	34:BA:1160:U:O5'	2.72	0.41
34:BA:1170:A:C2	34:BA:1171:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1171:C:H4'	54:BU:110:LYS:HE3	2.02	0.41
34:BA:132:U:N3	34:BA:133:A:C6	2.89	0.41
34:BA:1474:G:N1	34:BA:1509:U:C4	2.89	0.41
34:BA:1575:U:C2	34:BA:1576:C:C5	3.09	0.41
34:BA:157:U:OP1	34:BA:157:U:C6	2.74	0.41
34:BA:1590:G:C2	34:BA:1591:G:C4	3.09	0.41
34:BA:1603:A:C2'	34:BA:1604:A:H5'	2.51	0.41
34:BA:1658:G:C5	34:BA:1659:G:C8	3.09	0.41
34:BA:1730:A:C2	34:BA:1731:A:H1'	2.56	0.41
34:BA:175:G:C6	34:BA:176:G:N7	2.89	0.41
34:BA:1724:G:N7	34:BA:1799:G:N1	2.69	0.41
34:BA:1844:U:H2'	34:BA:1845:G:O4'	2.20	0.41
34:BA:212:A:N1	34:BA:213:A:C5	2.89	0.41
34:BA:315:U:P	34:BA:315:U:H6	2.43	0.41
34:BA:169:C:O2	34:BA:320:G:C6	2.73	0.41
34:BA:351:A:N1	34:BA:352:G:C5	2.89	0.41
34:BA:436:U:H2'	34:BA:439:A:OP2	2.21	0.41
34:BA:477:C:H2'	34:BA:478:G:H8	1.86	0.41
34:BA:493:G:C4	34:BA:494:A:C8	3.09	0.41
34:BA:73:G:H1'	47:BN:105:ARG:HB3	2.03	0.41
34:BA:743:A:C5	47:BN:8:ILE:N	2.82	0.41
34:BA:745:A:H2'	34:BA:746:C:O4'	2.20	0.41
34:BA:812:A:C6	34:BA:813:C:C4	3.09	0.41
34:BA:876:C:C2	34:BA:877:U:C6	3.09	0.41
34:BA:897:U:C6	34:BA:897:U:O5'	2.74	0.41
34:BA:918:U:H2'	34:BA:919:A:C8	2.56	0.41
34:BA:940:C:H4'	53:BT:126:LYS:HG2	2.02	0.41
35:BB:102:G:N3	35:BB:121:A:C2	2.89	0.41
35:BB:700:C:C2	35:BB:1044:U:C4	3.09	0.41
35:BB:1051:U:H2'	35:BB:1052:G:C8	2.56	0.41
35:BB:1094:A:C6	35:BB:1095:G:N7	2.89	0.41
35:BB:1115:G:C6	35:BB:1134:G:N3	2.89	0.41
35:BB:1117:G:N2	35:BB:1118:G:C4	2.89	0.41
35:BB:133:G:C2	35:BB:134:G:N9	2.89	0.41
35:BB:1355:C:H2'	35:BB:1357:C:H5"	2.03	0.41
35:BB:1370:G:C6	35:BB:1371:G:N7	2.89	0.41
35:BB:1448:U:C2	35:BB:1449:G:C8	3.09	0.41
35:BB:34:G:C2	35:BB:35:G:C4	3.09	0.41
35:BB:416:U:H2'	35:BB:417:A:C4	2.53	0.41
35:BB:489:A:H2'	35:BB:490:G:O4'	2.21	0.41
35:BB:695:U:C2	35:BB:1049:G:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:778:A:C4	35:BB:779:C:C5	3.08	0.41
35:BB:780:U:O4	35:BB:1038:G:C5	2.74	0.41
35:BB:876:G:N2	35:BB:959:C:C2	2.89	0.41
36:BC:119:G:C2	36:BC:145:G:C6	3.08	0.41
36:BC:126:G:C2	36:BC:127:C:C2	3.09	0.41
36:BC:144:C:H2'	36:BC:145:G:H8	1.85	0.41
34:BA:396:U:H3	36:BC:31:A:N6	2.19	0.41
36:BC:71:A:C6	36:BC:87:C:O4'	2.74	0.41
36:BC:76:C:C6	36:BC:76:C:H3'	2.56	0.41
36:BC:91:G:N7	36:BC:92:C:C5	2.89	0.41
37:BD:113:G:H2'	37:BD:114:U:C6	2.56	0.41
37:BD:17:G:H3'	37:BD:17:G:C8	2.55	0.41
37:BD:65:G:C5	37:BD:66:G:C8	3.09	0.41
37:BD:79:G:C2	37:BD:80:G:C8	3.09	0.41
37:BD:7:G:C2	37:BD:8:A:C4	3.08	0.41
37:BD:80:G:C6	37:BD:81:C:C5	3.09	0.41
37:BD:80:G:O2'	37:BD:81:C:H5'	2.20	0.41
38:BE:102:U:H3	38:BE:117:A:N6	2.18	0.41
38:BE:108:U:H3'	38:BE:108:U:C6	2.55	0.41
38:BE:136:G:H2'	38:BE:137:A:H8	1.85	0.41
38:BE:151:C:H2'	38:BE:152:U:O4'	2.20	0.41
38:BE:40:C:H2'	38:BE:41:C:C6	2.56	0.41
38:BE:41:C:N3	38:BE:42:C:C5	2.89	0.41
38:BE:60:C:N3	38:BE:61:A:C5	2.88	0.41
38:BE:87:U:N3	38:BE:88:G:N7	2.69	0.41
39:BF:26:U:P	39:BF:26:U:C6	3.14	0.41
39:BF:63:U:O3'	49:BP:115:VAL:HG13	2.21	0.41
40:BG:15:G:N1	40:BG:16:G:C5	2.88	0.41
40:BG:179:C:N3	40:BG:180:C:C5	2.89	0.41
40:BG:30:C:N3	40:BG:176:G:C6	2.89	0.41
40:BG:92:U:C4	40:BG:93:U:C4	3.08	0.41
41:BH:100:A:H3'	41:BH:100:A:C8	2.56	0.41
41:BH:106:G:C5	41:BH:107:A:C6	3.08	0.41
41:BH:48:G:H5"	41:BH:49:C:P	2.61	0.41
41:BH:52:G:N2	41:BH:53:C:H1'	2.36	0.41
41:BH:67:G:C4	41:BH:68:G:C8	3.09	0.41
41:BH:81:U:OP1	41:BH:82:U:C6	2.74	0.41
44:BK:85:PHE:HD2	44:BK:138:MET:SD	2.44	0.41
57:BX:60:TYR:O	57:BX:60:TYR:CD2	2.74	0.41
41:BH:109:G:OP2	58:BY:65:LYS:NZ	2.54	0.41
34:BA:1011:G:C2	34:BA:1016:A:N6	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1099:U:C6	35:BB:1084:A:O4'	2.73	0.41
34:BA:1108:U:C6	34:BA:1108:U:C3'	3.04	0.41
34:BA:1175:G:O2'	34:BA:1176:C:C6	2.70	0.41
34:BA:1052:G:C6	34:BA:1230:G:C5	3.09	0.41
34:BA:126:G:C4	34:BA:127:U:C5	3.08	0.41
34:BA:1282:G:C5	34:BA:1458:A:N7	2.89	0.41
34:BA:12:G:O3'	57:BX:64:ALA:HA	2.20	0.41
34:BA:1322:A:H3'	34:BA:1323:G:H8	1.85	0.41
34:BA:1322:A:C5	34:BA:1323:G:N9	2.89	0.41
34:BA:1320:A:C4	34:BA:1419:A:C6	3.08	0.41
34:BA:1468:U:C2	34:BA:1514:A:C2	3.09	0.41
34:BA:1535:G:C8	34:BA:1536:A:H5'	2.56	0.41
34:BA:1543:A:C6	34:BA:1544:G:C5	3.09	0.41
34:BA:1572:G:C5	34:BA:1573:C:C4	3.09	0.41
34:BA:1613:G:N1	34:BA:1614:G:C6	2.89	0.41
34:BA:1614:G:N1	34:BA:1616:A:C6	2.88	0.41
34:BA:167:U:N3	34:BA:168:U:C4	2.89	0.41
34:BA:1804:A:N7	34:BA:1807:G:C6	2.89	0.41
34:BA:209:A:C2	34:BA:210:G:H1'	2.56	0.41
34:BA:174:A:C6	34:BA:313:C:N3	2.89	0.41
34:BA:341:U:C2	34:BA:349:G:C6	3.08	0.41
34:BA:387:A:C6	34:BA:388:A:N6	2.89	0.41
34:BA:454:G:C2	34:BA:455:A:C4	3.09	0.41
34:BA:484:A:N1	36:BC:5:U:C4	2.89	0.41
34:BA:487:A:O2'	34:BA:488:C:H3'	2.20	0.41
34:BA:764:G:O6	34:BA:765:U:C2	2.73	0.41
34:BA:907:A:N6	34:BA:1033:G:C4	2.89	0.41
34:BA:943:G:C5	34:BA:944:G:N7	2.89	0.41
35:BB:1113:C:C4	35:BB:1134:G:C2	3.09	0.41
35:BB:1221:G:C2	35:BB:1222:A:C2	3.09	0.41
35:BB:1291:G:C2	35:BB:1292:G:C4	3.09	0.41
35:BB:1467:A:C5	35:BB:1468:A:H5'	2.56	0.41
35:BB:58:G:C5	35:BB:59:U:C6	3.09	0.41
35:BB:58:G:C6	35:BB:59:U:C6	3.08	0.41
35:BB:623:A:H61	35:BB:1441:C:N4	2.18	0.41
35:BB:624:A:C6	35:BB:625:A:C5	3.09	0.41
35:BB:65:A:H2'	35:BB:66:G:H8	1.85	0.41
35:BB:700:C:N3	35:BB:701:U:C5	2.88	0.41
35:BB:701:U:O5'	35:BB:701:U:H2'	2.21	0.41
35:BB:705:C:O5'	35:BB:705:C:H6	2.04	0.41
35:BB:85:A:N3	35:BB:87:G:C6	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:880:G:H2'	35:BB:881:G:C8	2.56	0.41
36:BC:140:U:OP2	36:BC:141:C:C5	2.74	0.41
36:BC:37:U:C6	36:BC:39:G:N1	2.89	0.41
36:BC:91:G:H2'	36:BC:92:C:C6	2.55	0.41
37:BD:101:A:N3	37:BD:102:C:C6	2.89	0.41
37:BD:17:G:C6	37:BD:62:A:C6	3.09	0.41
37:BD:3:G:C2	37:BD:4:U:N1	2.89	0.41
37:BD:86:A:C4	37:BD:87:G:C8	3.08	0.41
38:BE:105:A:H2'	38:BE:106:C:O4'	2.20	0.41
38:BE:185:G:C5	38:BE:186:C:C4	3.09	0.41
38:BE:25:U:O2	38:BE:25:U:C2'	2.66	0.41
38:BE:31:A:C5	38:BE:32:U:O4	2.74	0.41
38:BE:49:A:C2	38:BE:60:C:C2	3.09	0.41
38:BE:48:G:C2	38:BE:49:A:C4	3.09	0.41
38:BE:64:A:H2	38:BE:140:G:C5	2.39	0.41
41:BH:99:G:OP1	55:BV:57:LEU:CA	2.67	0.41
42:BI:13:ARG:HG3	42:BI:16:ARG:HA	2.03	0.41
34:BA:823:G:N2	42:BI:77:TRP:CZ2	2.89	0.41
44:BK:139:ARG:HG2	44:BK:173:PHE:CE2	2.56	0.41
50:BQ:175:HIS:HB2	50:BQ:179:ARG:HH21	1.85	0.41
34:BA:1632:G:N2	51:BR:92:LEU:HD22	2.36	0.41
52:BS:26:VAL:HG12	54:BU:143:VAL:HG23	2.03	0.41
53:BT:41:VAL:HA	53:BT:44:LEU:HD12	2.02	0.41
38:BE:42:C:O3'	53:BT:63:TRP:CZ3	2.74	0.41
53:BT:63:TRP:HB2	53:BT:67:LYS:HE2	2.02	0.41
34:BA:546:U:O5'	34:BA:546:U:H6	2.03	0.41
34:BA:562:C:C5	34:BA:563:A:C8	3.09	0.41
4:A3:58:ASP:OD2	4:A3:101:ARG:NE	2.53	0.41
85:AA:137:C:O2	85:AA:138:C:C6	2.74	0.41
85:AA:160:A:N6	85:AA:161:A:C5	2.88	0.41
85:AA:2133:A:C6	85:AA:2134:U:C4	3.09	0.41
85:AA:251:A:C8	85:AA:253:C:C4	3.09	0.41
85:AA:3:U:H2'	85:AA:4:C:H4'	2.03	0.41
85:AA:456:A:N3	85:AA:456:A:H2'	2.36	0.41
85:AA:474:C:H5'	85:AA:2183:U:O2'	2.21	0.41
85:AA:48:G:C6	85:AA:497:G:N3	2.88	0.41
85:AA:596:A:C5	85:AA:597:A:C5	3.08	0.41
85:AA:597:A:N7	85:AA:598:C:C5	2.88	0.41
85:AA:636:G:H2'	85:AA:637:U:O4'	2.21	0.41
85:AA:691:U:C2	85:AA:692:U:C5	3.08	0.41
34:BA:662:U:H2'	34:BA:663:U:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1224:C:O2	85:AA:1224:C:H2'	2.21	0.41
85:AA:1229:G:N3	85:AA:1230:U:C6	2.89	0.41
85:AA:1497:U:C2	85:AA:1505:G:N1	2.89	0.41
85:AA:2118:U:N3	85:AA:2201:A:C2	2.89	0.41
85:AA:2133:A:H2'	85:AA:2134:U:C6	2.56	0.41
85:AA:329:G:H1'	85:AA:330:C:OP2	2.21	0.41
13:AE:119:ARG:NH1	85:AA:374:C:OP2	2.51	0.41
85:AA:446:C:H2'	85:AA:447:C:C6	2.55	0.41
85:AA:478:U:C2	85:AA:479:C:C5	3.09	0.41
85:AA:57:G:C4	85:AA:58:C:C6	3.09	0.41
85:AA:640:C:H2'	85:AA:641:A:O4'	2.21	0.41
26:AS:20:ASN:OD1	85:AA:1485:G:C5	2.74	0.41
34:BA:649:A:C5	34:BA:650:C:C5	3.09	0.41
35:BB:567:G:N1	35:BB:568:A:C4	2.88	0.41
35:BB:979:G:N2	35:BB:1026:G:H1	2.18	0.41
35:BB:797:C:C5	35:BB:978:C:C4	3.09	0.41
35:BB:869:G:C2'	35:BB:870:C:C6	3.04	0.41
35:BB:797:C:N4	35:BB:798:A:N6	2.67	0.41
35:BB:812:G:H2'	35:BB:813:C:O4'	2.21	0.41
35:BB:964:G:H5"	35:BB:965:G:OP1	2.21	0.41
35:BB:977:G:H2'	35:BB:978:C:H5'	2.02	0.41
13:AE:115:ARG:HH12	26:AS:6:GLY:HA2	1.86	0.41
85:AA:2109:G:C6	85:AA:2110:U:C5	3.09	0.41
35:BB:464:C:H4'	35:BB:538:A:O4'	2.21	0.41
5:A4:104:ILE:CG2	5:A4:105:THR:N	2.77	0.41
5:A4:2:SER:HB3	5:A4:3:ALA:H	1.66	0.41
85:AA:879:G:N3	85:AA:927:A:C2	2.88	0.41
85:AA:806:G:H2'	85:AA:807:A:O5'	2.20	0.41
85:AA:1570:A:C8	85:AA:1659:C:H4'	2.56	0.41
85:AA:1863:A:C6	85:AA:1864:G:C4	3.08	0.41
21:AM:29:PHE:CE2	85:AA:2005:U:C5	3.09	0.41
85:AA:2009:A:O5'	85:AA:2009:A:C8	2.74	0.41
17:AI:46:ALA:HB3	85:AA:2015:U:C5	2.56	0.41
85:AA:1558:U:N3	85:AA:1562:U:C5	2.89	0.41
34:BA:257:G:C2	34:BA:258:C:C5	3.08	0.41
59:BZ:76:VAL:HG13	59:BZ:95:GLY:CA	2.50	0.41
34:BA:194:G:N7	34:BA:196:A:C8	2.89	0.41
34:BA:254:U:H3'	34:BA:254:U:C6	2.56	0.41
34:BA:594:G:C2	34:BA:684:G:C4	3.08	0.41
34:BA:605:G:C5	34:BA:606:G:N7	2.89	0.41
34:BA:603:U:H2'	34:BA:680:C:C1'	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:682:A:O5'	34:BA:682:A:C8	2.74	0.41
85:AA:1961:U:C2	85:AA:1962:U:C5	3.09	0.41
34:BA:971:G:C4	34:BA:972:C:C5	3.09	0.41
35:BB:1277:A:N1	35:BB:1278:A:C5	2.89	0.41
35:BB:1283:C:H2'	35:BB:1284:U:O4'	2.21	0.41
35:BB:1288:G:C5	35:BB:1289:G:N7	2.89	0.41
35:BB:668:A:N1	35:BB:1330:A:C5	2.88	0.41
51:BR:74:LYS:C	51:BR:76:TRP:H	2.23	0.41
35:BB:1284:U:N3	35:BB:1285:U:C2	2.89	0.41
34:BA:1696:G:P	34:BA:1697:U:C4	3.14	0.41
85:AA:258:G:C4	85:AA:259:A:C8	3.08	0.41
41:BH:13:C:H2'	41:BH:14:C:H5'	2.01	0.41
41:BH:16:A:H3'	41:BH:17:A:C2	2.55	0.41
85:AA:1669:G:N1	85:AA:1701:G:C2	2.89	0.41
85:AA:1679:U:O5'	85:AA:1679:U:H6	2.04	0.41
85:AA:2215:C:C6	85:AA:2218:G:C5	3.08	0.41
7:A6:84:PHE:CE1	7:A6:102:ASP:HB3	2.56	0.41
85:AA:1451:U:H3'	85:AA:1452:C:C6	2.55	0.41
85:AA:1525:C:C4'	85:AA:2103:C:OP2	2.69	0.41
85:AA:309:G:N1	85:AA:310:U:N3	2.68	0.41
85:AA:309:G:C4	85:AA:310:U:C5	3.08	0.41
85:AA:2174:G:H2'	85:AA:2175:U:H6	1.84	0.41
85:AA:2143:U:C2	85:AA:2176:U:O2	2.74	0.41
10:A9:137:HIS:HE1	85:AA:1613:A:C2	2.38	0.41
85:AA:268:A:H8	85:AA:269:G:C5'	2.32	0.41
85:AA:988:C:C2	85:AA:989:U:N3	2.89	0.41
13:AE:41:HIS:CD2	85:AA:971:U:C5'	3.00	0.41
85:AA:289:G:C6	85:AA:290:G:C8	3.09	0.41
85:AA:285:C:H3'	85:AA:285:C:C6	2.56	0.41
85:AA:289:G:C8	85:AA:289:G:H3'	2.56	0.41
85:AA:582:A:C6	85:AA:583:U:C2	3.09	0.41
85:AA:584:G:C6	85:AA:585:G:C5	3.08	0.41
85:AA:2050:C:C5	85:AA:2052:U:O2	2.74	0.41
85:AA:2083:G:C2	85:AA:2084:U:C2	3.09	0.41
3:A2:47:PHE:CE1	3:A2:48:ARG:HG2	2.56	0.41
85:AA:2092:A:C2	85:AA:2093:U:C2	3.08	0.41
85:AA:792:A:N1	85:AA:800:A:H2'	2.35	0.41
85:AA:716:G:C6	85:AA:717:G:C5	3.09	0.41
85:AA:725:G:C5	85:AA:777:U:C2	3.08	0.41
85:AA:890:U:O2	85:AA:917:A:N1	2.53	0.41
85:AA:912:C:H3'	85:AA:913:U:C5	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:902:A:OP2	85:AA:914:U:C2	2.74	0.41
85:AA:911:A:C5	85:AA:912:C:N4	2.89	0.41
85:AA:368:C:C2'	85:AA:368:C:O2	2.68	0.41
85:AA:407:G:H2'	85:AA:408:C:H6	1.86	0.41
13:AE:112:LYS:HE2	85:AA:439:U:OP1	2.21	0.41
85:AA:520:A:C5'	85:AA:521:A:C2'	2.99	0.41
35:BB:996:G:O6	35:BB:997:G:C6	2.74	0.41
85:AA:1155:A:C6	85:AA:1156:A:C5	3.09	0.41
85:AA:70:U:C4	85:AA:71:G:N7	2.89	0.41
85:AA:1242:A:C5	85:AA:1243:G:C8	3.09	0.41
85:AA:65:A:N9	85:AA:66:U:C2	2.88	0.41
85:AA:70:U:O2'	85:AA:71:G:H5'	2.21	0.41
34:BA:1347:G:N3	34:BA:1399:A:C2	2.88	0.41
34:BA:1379:G:N3	34:BA:1379:G:H3'	2.35	0.41
85:AA:865:G:C2	85:AA:866:U:C1'	3.04	0.41
85:AA:169:G:C5	85:AA:170:C:C5	3.09	0.41
85:AA:1434:U:C2	85:AA:1436:A:C8	3.08	0.41
85:AA:740:A:C6	85:AA:741:G:H5'	2.56	0.41
39:BF:32:G:N3	39:BF:32:G:C2'	2.83	0.41
85:AA:749:C:H3'	85:AA:750:A:O4'	2.21	0.41
34:BA:528:C:H6	34:BA:528:C:O5'	2.04	0.41
34:BA:579:U:C6	34:BA:579:U:H3'	2.56	0.41
34:BA:586:G:C2'	34:BA:587:U:H5"	2.51	0.41
34:BA:1119:A:N6	34:BA:1122:G:OP1	2.54	0.41
86:AB:29:G:C2	86:AB:42:C:O2	2.74	0.41
86:AB:27:G:H2'	86:AB:28:G:C8	2.56	0.41
34:BA:230:A:N1	34:BA:246:G:C6	2.89	0.41
23:AP:74:HIS:HD2	23:AP:75:GLN:HA	1.86	0.41
85:AA:1002:G:C4	85:AA:1003:G:C8	3.09	0.41
35:BB:1203:C:C6	35:BB:1204:C:C5	3.09	0.41
35:BB:475:A:H3'	35:BB:476:A:N3	2.36	0.41
35:BB:478:G:N1	35:BB:479:U:C2	2.89	0.41
85:AA:1297:G:C6	85:AA:1298:G:C6	3.07	0.41
85:AA:1299:A:C2	85:AA:1444:U:O2	2.73	0.41
85:AA:1831:U:H6	85:AA:1831:U:O5'	2.04	0.41
85:AA:1713:A:C6	85:AA:1855:U:N3	2.89	0.41
85:AA:1711:C:H2'	85:AA:1712:A:C8	2.56	0.41
34:BA:513:U:C2	34:BA:691:A:C5	3.09	0.41
39:BF:3:A:C5	39:BF:4:A:N7	2.88	0.41
35:BB:1070:G:C6	35:BB:1071:G:C6	3.09	0.41
34:BA:835:U:C5	34:BA:836:U:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:14:C:H2'	35:BB:15:C:C6	2.56	0.41
85:AA:1729:C:O5'	85:AA:1729:C:C6	2.73	0.41
34:BA:1356:C:O2	34:BA:1356:C:H2'	2.20	0.41
16:AH:45:THR:H	85:AA:1144:G:HO2'	1.65	0.41
85:AA:1887:G:N2	85:AA:1888:U:H1'	2.35	0.41
86:AB:64:A:N3	86:AB:65:G:C6	2.89	0.41
4:A3:47:ARG:C	4:A3:49:TYR:H	2.25	0.41
21:AM:83:TRP:CE2	85:AA:1968:A:C4	3.09	0.41
85:AA:1754:G:H2'	85:AA:1755:U:C5	2.56	0.41
8:A7:150:ALA:HB1	8:A7:179:LYS:HE3	2.02	0.41
34:BA:1266:A:C6	34:BA:1267:A:C6	3.09	0.41
85:AA:386:G:C5	85:AA:387:U:H5'	2.56	0.41
35:BB:543:G:N1	35:BB:544:C:C2	2.89	0.41
35:BB:882:U:C2	35:BB:896:C:C4	3.09	0.41
34:BA:1692:U:C5	35:BB:12:G:C6	3.08	0.41
12:AD:54:ARG:HD2	85:AA:1596:A:H4'	2.03	0.41
35:BB:732:G:N2	35:BB:758:A:C5	2.88	0.41
85:AA:1901:G:N2	85:AA:1902:C:H1'	2.36	0.41
34:BA:1358:A:C6	34:BA:1367:G:C6	3.09	0.41
44:BK:99:ILE:HG12	44:BK:123:ASN:CG	2.41	0.41
34:BA:107:C:C2	47:BN:54:ARG:CZ	3.03	0.41
34:BA:1252:G:C6	34:BA:1253:G:C4	3.09	0.41
85:AA:1175:A:C2	85:AA:1176:C:C2	3.09	0.41
2:A1:96:PHE:CB	2:A1:108:LEU:HG	2.51	0.41
35:BB:328:G:C4	35:BB:355:A:C2	3.09	0.41
85:AA:360:C:C4	85:AA:361:U:C5	3.09	0.41
1:A0:21:GLN:NE2	1:A0:26:ARG:HA	2.35	0.41
25:AR:38:GLN:HB2	25:AR:58:CYS:SG	2.60	0.41
35:BB:725:U:OP1	35:BB:726:A:C8	2.73	0.41
8:A7:252:MET:HB2	8:A7:265:LEU:HD21	2.03	0.41
28:AU:85:GLY:HA2	28:AU:88:HIS:NE2	2.36	0.41
86:AB:55:U:O4	86:AB:58:A:H2'	2.21	0.41
85:AA:306:C:H3'	85:AA:306:C:C6	2.55	0.41
26:AS:39:ASN:HA	26:AS:40:PRO:HD3	1.81	0.41
49:BP:109:GLU:H	49:BP:109:GLU:HG3	1.53	0.41
7:A6:35:LEU:O	32:AY:36:LYS:HB2	2.21	0.41
86:AB:46:G:C8	86:AB:46:G:OP2	2.74	0.41
16:AH:32:ASP:OD2	16:AH:52:GLY:HA3	2.20	0.41
31:AX:76:PHE:O	31:AX:77:ASN:HB3	2.21	0.41
11:AC:237:LEU:HD12	11:AC:237:LEU:H	1.84	0.41
11:AC:237:LEU:HD23	20:AL:82:MET:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BN:92:PRO:O	47:BN:95:ALA:HB3	2.20	0.41
54:BU:77:ASN:HA	54:BU:85:VAL:O	2.20	0.41
23:AP:109:LYS:HA	23:AP:127:VAL:HA	2.03	0.41
59:BZ:6:CYS:HA	59:BZ:7:ARG:HB3	2.03	0.41
34:BA:1099:U:O2	34:BA:1100:A:C8	2.74	0.41
34:BA:1114:G:N1	34:BA:1115:A:C5	2.89	0.41
34:BA:114:U:H5'	50:BQ:21:PHE:HB2	2.03	0.41
34:BA:114:U:O5'	34:BA:114:U:H6	2.03	0.41
34:BA:1174:A:O2'	34:BA:1175:G:H5'	2.22	0.41
34:BA:1262:A:C2	34:BA:1265:G:O6	2.75	0.41
34:BA:1307:U:H2'	34:BA:1309:U:H2'	2.03	0.41
34:BA:125:G:C2	34:BA:139:U:C2	3.09	0.41
34:BA:1454:G:C3'	34:BA:1454:G:C8	3.04	0.41
34:BA:1472:G:N3	34:BA:1472:G:C2'	2.80	0.41
34:BA:1472:G:C2	34:BA:1511:C:N3	2.89	0.41
34:BA:1519:G:C4	34:BA:1520:A:C8	3.09	0.41
34:BA:1539:A:N1	34:BA:1568:A:C2	2.89	0.41
34:BA:1550:G:C2	34:BA:1551:G:C4	3.09	0.41
34:BA:1633:C:H5"	34:BA:1635:A:OP2	2.21	0.41
34:BA:168:U:C4	34:BA:169:C:C5	3.09	0.41
34:BA:1784:G:C2	34:BA:1785:G:C4	3.09	0.41
34:BA:179:U:C2'	34:BA:180:G:H5'	2.51	0.41
34:BA:1812:C:O2	34:BA:1813:C:C5	2.73	0.41
34:BA:236:A:O2'	34:BA:238:C:C5	2.74	0.41
34:BA:248:G:H2'	34:BA:248:G:N3	2.36	0.41
34:BA:375:C:C6	34:BA:375:C:O5'	2.74	0.41
34:BA:382:G:O2'	50:BQ:68:VAL:HG22	2.20	0.41
34:BA:108:A:C4	34:BA:386:A:C5	3.10	0.41
34:BA:386:A:C5	34:BA:387:A:C5	3.09	0.41
34:BA:417:A:C4	34:BA:419:U:C5	3.09	0.41
34:BA:425:G:C6	34:BA:426:A:N6	2.89	0.41
34:BA:440:A:N7	34:BA:442:G:C5	2.89	0.41
34:BA:27:G:N3	34:BA:52:G:C2	2.89	0.41
34:BA:772:G:H5"	47:BN:34:PRO:HA	2.03	0.41
34:BA:755:G:O6	34:BA:782:C:N4	2.54	0.41
34:BA:825:G:N3	34:BA:826:C:C6	2.89	0.41
34:BA:8:G:N3	34:BA:9:A:C8	2.89	0.41
34:BA:942:G:N2	34:BA:950:C:C2	2.89	0.41
34:BA:97:A:H2'	34:BA:98:A:H8	1.86	0.41
35:BB:1079:G:C5	35:BB:1080:U:C4	3.09	0.41
34:BA:1162:U:H4'	35:BB:1085:C:C2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1151:A:H5'	35:BB:1151:A:C8	2.55	0.41
35:BB:1223:A:H5'	35:BB:1227:G:N9	2.36	0.41
34:BA:368:U:C4	35:BB:1234:G:H1'	2.55	0.41
35:BB:1242:C:H2'	35:BB:1243:A:C8	2.56	0.41
35:BB:124:G:N1	35:BB:125:G:C4	2.89	0.41
35:BB:1313:C:OP2	44:BK:3:ARG:NH2	2.54	0.41
35:BB:28:G:H3'	35:BB:32:C:N4	2.36	0.41
35:BB:391:G:N2	35:BB:598:C:C2	2.88	0.41
35:BB:69:A:C8	35:BB:69:A:O5'	2.73	0.41
36:BC:139:A:C3'	36:BC:140:U:C5	3.04	0.41
36:BC:145:G:N2	36:BC:146:U:C2	2.89	0.41
36:BC:45:C:C2	36:BC:46:G:C8	3.09	0.41
36:BC:73:U:OP1	59:BZ:72:ARG:HB2	2.21	0.41
36:BC:77:A:N6	36:BC:78:G:C6	2.89	0.41
37:BD:68:C:C2	37:BD:108:G:N2	2.89	0.41
37:BD:9:C:C6	37:BD:10:C:C5	3.09	0.41
38:BE:144:A:C2	38:BE:145:A:C1'	3.04	0.41
34:BA:1808:A:H1'	38:BE:193:A:N1	2.36	0.41
34:BA:1783:C:C4'	38:BE:207:G:H22	2.34	0.41
40:BG:132:U:H3'	40:BG:132:U:C6	2.56	0.41
40:BG:44:G:C5	40:BG:45:G:C8	3.09	0.41
40:BG:5:G:C6	40:BG:6:A:C5	3.09	0.41
41:BH:119:U:C6	41:BH:120:C:C5	3.08	0.41
41:BH:39:G:C6	41:BH:40:C:N3	2.89	0.41
41:BH:63:G:C6	41:BH:64:U:C2	3.09	0.41
45:BL:60:THR:HG23	45:BL:67:ARG:HA	2.02	0.41
47:BN:17:TRP:HA	47:BN:24:LYS:HG3	2.03	0.41
34:BA:74:A:P	47:BN:78:ARG:HE	2.44	0.41
47:BN:60:ARG:HA	47:BN:79:GLY:O	2.21	0.41
36:BC:154:A:H5"	50:BQ:74:GLN:NE2	2.36	0.41
53:BT:99:LEU:O	53:BT:103:ARG:N	2.54	0.41
4:A3:15:GLN:HG2	85:AA:157:G:C5'	2.49	0.41
4:A3:61:GLY:HA3	85:AA:164:G:N2	2.36	0.41
85:AA:1228:A:C6	85:AA:1229:G:C5	3.08	0.41
85:AA:1229:G:C2	85:AA:1230:U:C2	3.09	0.41
85:AA:125:A:H3'	85:AA:251:A:C6	2.56	0.41
85:AA:165:C:O2'	85:AA:166:C:H5'	2.22	0.41
85:AA:2129:U:C2	85:AA:2130:G:N9	2.89	0.41
85:AA:2132:A:N1	85:AA:2133:A:C4	2.89	0.41
85:AA:2127:G:C6	85:AA:2191:C:N3	2.89	0.41
85:AA:456:A:C2	85:AA:472:A:N1	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:45:U:O4	85:AA:499:G:N2	2.54	0.41
85:AA:507:C:H2'	85:AA:508:C:O4'	2.21	0.41
85:AA:59:C:H2'	85:AA:60:U:C5	2.56	0.41
85:AA:620:U:C4	85:AA:621:U:C4	3.09	0.41
85:AA:635:G:C6	85:AA:636:G:N7	2.89	0.41
85:AA:642:G:C4	85:AA:643:C:C6	3.09	0.41
85:AA:648:G:C2	85:AA:649:C:C6	3.09	0.41
85:AA:664:C:H2'	85:AA:665:A:C8	2.56	0.41
23:AP:189:VAL:HB	23:AP:208:THR:HB	2.03	0.41
34:BA:615:A:H3'	34:BA:615:A:C8	2.55	0.41
34:BA:617:G:H2'	34:BA:618:G:N9	2.36	0.41
35:BB:812:G:C2	35:BB:813:C:H1'	2.56	0.41
35:BB:844:G:C2	35:BB:845:C:N1	2.89	0.41
35:BB:848:A:C8	35:BB:849:A:N3	2.89	0.41
85:AA:1117:G:N2	85:AA:1210:U:C2	2.89	0.41
85:AA:1184:A:C2	85:AA:1185:G:N7	2.88	0.41
85:AA:711:C:H2'	85:AA:712:U:C5	2.55	0.41
85:AA:2209:U:C6	85:AA:2209:U:O5'	2.73	0.41
35:BB:507:G:C2	35:BB:508:U:H1'	2.55	0.41
53:BT:167:GLU:OE2	85:AA:945:A:O3'	2.29	0.41
85:AA:1549:G:H2'	85:AA:1550:C:C6	2.56	0.41
85:AA:1659:C:H2'	85:AA:1660:U:C6	2.56	0.41
85:AA:1893:G:C6	85:AA:1894:G:C6	3.08	0.41
85:AA:1975:G:O5'	85:AA:1975:G:C8	2.74	0.41
34:BA:974:G:C6	34:BA:975:A:N7	2.89	0.41
85:AA:2001:C:H2'	85:AA:2001:C:O2	2.21	0.41
85:AA:239:G:N3	85:AA:239:G:H5"	2.36	0.41
85:AA:254:G:H1'	85:AA:327:G:O6	2.20	0.41
35:BB:136:A:C2	35:BB:137:A:C4	3.09	0.41
35:BB:1528:U:H2'	35:BB:1529:G:C8	2.56	0.41
85:AA:1450:U:C3'	85:AA:1451:U:C6	3.01	0.41
85:AA:1463:A:C8	85:AA:1464:G:H1'	2.55	0.41
85:AA:1665:G:H5"	85:AA:1665:G:H8	1.84	0.41
13:AE:55:GLY:C	13:AE:56:LEU:HD12	2.41	0.41
85:AA:2145:G:H3'	85:AA:2146:G:C8	2.56	0.41
85:AA:1618:G:C4	85:AA:1619:A:C5	3.09	0.41
10:A9:93:HIS:CD2	85:AA:1622:G:N2	2.89	0.41
85:AA:965:G:C8	85:AA:965:G:H5'	2.55	0.41
85:AA:273:C:C2	85:AA:976:G:N2	2.89	0.41
85:AA:1821:C:H2'	85:AA:1822:G:O4'	2.21	0.41
34:BA:1335:A:C2	34:BA:1336:U:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BS:8:HIS:CG	52:BS:32:PHE:CE2	3.09	0.41
85:AA:365:G:C6	85:AA:366:A:C6	3.09	0.41
85:AA:433:U:H2'	85:AA:434:U:C6	2.56	0.41
85:AA:434:U:N3	85:AA:438:G:C6	2.89	0.41
85:AA:438:G:C6	85:AA:439:U:C6	3.09	0.41
85:AA:430:G:C6	85:AA:442:G:C2	3.09	0.41
85:AA:75:U:C6	85:AA:75:U:O5'	2.72	0.41
49:BP:128:PHE:HA	49:BP:132:ASP:OD1	2.20	0.41
11:AC:227:ARG:C	11:AC:229:VAL:H	2.23	0.41
11:AC:227:ARG:CZ	11:AC:228:SER:H	2.33	0.41
85:AA:817:G:OP2	85:AA:817:G:C6	2.74	0.41
1:A0:165:TRP:CH2	1:A0:168:MET:CE	3.03	0.41
85:AA:736:U:H5"	85:AA:737:G:C8	2.56	0.41
34:BA:526:C:H3'	34:BA:526:C:C6	2.57	0.41
34:BA:526:C:O2	34:BA:587:U:C6	2.74	0.41
34:BA:579:U:H3'	34:BA:579:U:OP1	2.21	0.41
34:BA:1122:G:C8	34:BA:1122:G:C3'	3.03	0.41
24:AQ:48:ARG:CZ	85:AA:1723:U:H5'	2.50	0.41
3:A2:93:ASN:O	3:A2:96:GLN:HB3	2.21	0.41
23:AP:137:ALA:O	23:AP:140:ILE:HG13	2.21	0.41
85:AA:1713:A:C2	85:AA:1855:U:C2	3.09	0.41
85:AA:116:G:N7	85:AA:117:C:C6	2.89	0.41
35:BB:610:U:H6	35:BB:610:U:O5'	2.04	0.41
35:BB:1482:A:N1	35:BB:1483:A:C5	2.89	0.41
23:AP:182:ALA:CB	23:AP:207:TYR:CZ	3.04	0.41
35:BB:454:U:O2'	35:BB:580:A:C2	2.68	0.41
35:BB:430:A:C3'	35:BB:430:A:C8	3.04	0.41
35:BB:634:A:H2'	35:BB:635:A:O4'	2.20	0.41
11:AC:205:HIS:O	11:AC:209:MET:HB2	2.21	0.41
48:BO:201:ARG:HG3	48:BO:205:LEU:HD22	2.02	0.41
44:BK:61:SER:O	44:BK:65:LEU:HG	2.21	0.41
85:AA:1144:G:C2	85:AA:1145:U:C2	3.09	0.41
5:A4:159:LEU:O	5:A4:190:PHE:HA	2.21	0.41
85:AA:771:A:O2'	85:AA:772:C:C2	2.66	0.41
86:AB:64:A:C2	86:AB:65:G:C6	3.09	0.41
21:AM:41:PHE:CD2	21:AM:43:TYR:HA	2.56	0.41
47:BN:130:LEU:HG	47:BN:143:ALA:CB	2.51	0.41
15:AG:25:TRP:CZ3	15:AG:26:LEU:CB	3.04	0.41
35:BB:326:G:C2	35:BB:358:U:N3	2.89	0.41
18:AJ:33:VAL:HB	18:AJ:34:VAL:HG13	2.03	0.41
85:AA:795:C:C6	85:AA:795:C:OP2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AT:55:LYS:HE2	85:AA:909:C:C4	2.56	0.41
11:AC:76:GLY:HA3	11:AC:84:ILE:HG23	2.03	0.41
34:BA:1767:G:C6	34:BA:1768:G:C5	3.09	0.41
34:BA:1712:U:C4	34:BA:1714:A:H3'	2.56	0.41
12:AD:65:GLN:HE22	31:AX:26:ARG:HB2	1.86	0.41
30:AW:41:CYS:C	30:AW:43:ASN:H	2.23	0.41
11:AC:176:VAL:O	11:AC:176:VAL:HG13	2.20	0.41
2:A1:90:PRO:HA	2:A1:93:GLY:HA2	2.02	0.41
22:AO:57:SER:CB	22:AO:113:SER:H	2.34	0.41
33:AZ:45:LYS:HB3	33:AZ:60:ARG:HB3	2.03	0.41
3:A2:138:TYR:O	3:A2:141:CYS:SG	2.79	0.41
19:AK:21:ALA:HB1	19:AK:83:GLN:HB2	2.03	0.41
35:BB:342:U:C4	35:BB:343:U:C4	3.09	0.41
25:AR:8:ASN:H	25:AR:11:GLY:C	2.24	0.41
45:BL:157:PHE:C	45:BL:159:HIS:H	2.24	0.41
56:BW:48:LEU:C	56:BW:50:ARG:H	2.23	0.41
30:AW:26:VAL:HG12	30:AW:27:GLN:O	2.20	0.41
34:BA:1044:A:N6	34:BA:1525:G:C5	2.89	0.40
34:BA:1051:A:H1'	34:BA:1227:U:O2'	2.22	0.40
34:BA:1103:G:C6	34:BA:1104:C:N4	2.89	0.40
34:BA:1082:U:O2'	34:BA:1206:C:C2	2.74	0.40
34:BA:1277:G:C2	34:BA:1464:C:O2	2.74	0.40
34:BA:127:U:C4	34:BA:128:C:C4	3.09	0.40
34:BA:1418:G:OP2	34:BA:1418:G:C8	2.73	0.40
34:BA:1542:A:H2'	34:BA:1543:A:O4'	2.21	0.40
34:BA:1545:C:H2'	34:BA:1546:C:C5	2.56	0.40
34:BA:1591:G:O2'	34:BA:1592:U:H5'	2.22	0.40
34:BA:15:G:H2'	34:BA:16:C:C6	2.55	0.40
34:BA:1708:A:C5	34:BA:1709:A:N9	2.89	0.40
34:BA:1711:G:OP1	50:BQ:82:ARG:NH2	2.54	0.40
34:BA:1736:A:N6	34:BA:1789:A:C2	2.90	0.40
34:BA:212:A:C5	34:BA:213:A:C5	3.09	0.40
34:BA:213:A:N1	34:BA:217:C:C2	2.89	0.40
34:BA:334:G:H2'	34:BA:335:C:C6	2.56	0.40
34:BA:482:C:N3	36:BC:7:U:N3	2.69	0.40
34:BA:733:G:C6	34:BA:1588:U:O4	2.74	0.40
34:BA:772:G:H8	47:BN:34:PRO:N	2.19	0.40
34:BA:791:A:N1	35:BB:1232:A:H1'	2.35	0.40
34:BA:791:A:N7	34:BA:792:A:C8	2.89	0.40
34:BA:87:G:C6	34:BA:96:G:N3	2.89	0.40
34:BA:898:G:H3'	34:BA:898:G:H8	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:907:A:C6	34:BA:1033:G:C6	3.09	0.40
35:BB:1039:A:O5'	35:BB:1040:C:C6	2.74	0.40
35:BB:114:A:H8	35:BB:114:A:O5'	2.04	0.40
35:BB:1227:G:C5'	35:BB:1229:A:O2'	2.69	0.40
35:BB:1236:A:H2'	35:BB:1237:C:H5'	2.03	0.40
35:BB:1297:G:C6	35:BB:1308:G:C2	3.08	0.40
35:BB:1310:C:C4	35:BB:1311:G:C8	3.09	0.40
35:BB:1348:C:C4	35:BB:1372:G:N1	2.89	0.40
35:BB:374:A:OP1	53:BT:85:ARG:NH2	2.55	0.40
35:BB:402:G:C6	35:BB:403:U:O4	2.74	0.40
34:BA:17:A:N1	36:BC:151:G:C6	2.89	0.40
34:BA:471:U:C2	36:BC:17:U:N3	2.89	0.40
36:BC:24:G:C4	36:BC:25:C:C5	3.09	0.40
36:BC:35:C:H2'	36:BC:36:G:H8	1.83	0.40
36:BC:53:A:C5	36:BC:54:G:C8	3.09	0.40
36:BC:66:G:N1	36:BC:93:C:C2	2.89	0.40
37:BD:37:G:C6	37:BD:41:G:C6	3.09	0.40
37:BD:75:G:H5"	52:BS:49:GLU:HA	2.03	0.40
37:BD:8:A:C4	37:BD:9:C:C6	3.09	0.40
39:BF:64:U:C6	48:BO:204:ALA:O	2.74	0.40
35:BB:652:G:C6	40:BG:172:C:C2	3.09	0.40
40:BG:36:G:C5	40:BG:37:G:C8	3.09	0.40
40:BG:93:U:C5	40:BG:94:G:N7	2.89	0.40
41:BH:47:G:C8	41:BH:47:G:H3'	2.56	0.40
44:BK:35:ASP:OD2	44:BK:86:HIS:CE1	2.75	0.40
45:BL:92:LYS:HA	45:BL:96:PHE:CZ	2.56	0.40
48:BO:91:HIS:CD2	48:BO:96:ASP:HB3	2.56	0.40
47:BN:30:PHE:CD2	50:BQ:217:PHE:O	2.74	0.40
50:BQ:39:ILE:HG22	50:BQ:43:ARG:NE	2.36	0.40
50:BQ:52:THR:HG22	50:BQ:82:ARG:CZ	2.51	0.40
34:BA:538:G:H2'	34:BA:539:C:O4'	2.21	0.40
85:AA:692:U:C5'	85:AA:1279:A:H8	2.34	0.40
85:AA:1280:U:C4	85:AA:1470:A:C8	3.09	0.40
85:AA:160:A:N6	85:AA:161:A:C6	2.89	0.40
85:AA:2122:A:C2	85:AA:2123:U:C2	3.09	0.40
85:AA:2128:G:N2	85:AA:2191:C:H1'	2.35	0.40
85:AA:2127:G:C5	85:AA:2192:A:N1	2.89	0.40
32:AY:2:GLY:C	85:AA:2205:A:H4'	2.41	0.40
85:AA:105:A:N1	85:AA:373:G:C2	2.89	0.40
85:AA:461:G:H8	85:AA:461:G:O5'	2.04	0.40
85:AA:474:C:C2	85:AA:475:A:N9	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:480:U:C2'	85:AA:482:C:C6	3.03	0.40
85:AA:666:A:C6	85:AA:667:A:C5	3.09	0.40
85:AA:921:C:C5	85:AA:922:A:H1'	2.55	0.40
34:BA:668:G:C4	34:BA:669:U:C6	3.09	0.40
35:BB:546:A:C5	35:BB:550:G:N1	2.89	0.40
35:BB:562:A:OP2	56:BW:73:ARG:NH1	2.54	0.40
56:BW:87:TRP:CE3	56:BW:87:TRP:N	2.89	0.40
35:BB:804:U:O4	35:BB:805:G:C5	2.74	0.40
35:BB:814:A:C2	35:BB:826:G:C2	3.09	0.40
35:BB:866:A:C6	35:BB:867:C:C5	3.09	0.40
35:BB:868:C:C4	35:BB:869:G:N7	2.89	0.40
29:AV:17:ARG:NE	85:AA:1184:A:C5	2.89	0.40
35:BB:520:G:C5	35:BB:521:U:C5	3.08	0.40
35:BB:517:G:N1	35:BB:534:C:C2	2.89	0.40
5:A4:3:ALA:HB1	5:A4:10:LEU:HA	2.03	0.40
85:AA:1654:G:N1	85:AA:1655:G:H1'	2.36	0.40
85:AA:1908:A:C2	85:AA:1909:C:C2	3.08	0.40
85:AA:2028:G:C4	85:AA:2029:G:C8	3.10	0.40
34:BA:197:A:H61	34:BA:280:A:P	2.43	0.40
34:BA:289:A:N6	34:BA:290:G:N7	2.68	0.40
34:BA:520:G:O6	34:BA:684:G:N1	2.55	0.40
34:BA:602:G:C3'	34:BA:603:U:H5'	2.50	0.40
35:BB:1089:A:C2	35:BB:1090:A:C4	3.09	0.40
35:BB:670:G:C2	35:BB:672:C:C4	3.08	0.40
35:BB:1510:G:N2	35:BB:1511:U:C2	2.89	0.40
35:BB:1506:C:C2	49:BP:171:ARG:NH1	2.89	0.40
41:BH:11:C:C2	41:BH:13:C:C4	3.09	0.40
41:BH:16:A:C5	41:BH:17:A:C4	3.09	0.40
41:BH:10:U:O2	41:BH:20:A:C2	2.74	0.40
85:AA:1678:U:O5'	85:AA:1678:U:H6	2.03	0.40
85:AA:1665:G:C6	85:AA:1705:G:C2	3.09	0.40
85:AA:317:A:C6	85:AA:318:A:C5	3.10	0.40
85:AA:2139:G:H1	85:AA:2179:C:H42	1.69	0.40
34:BA:2:A:H2'	36:BC:169:G:H22	1.86	0.40
32:AY:34:ALA:CB	85:AA:546:U:C5	3.04	0.40
85:AA:564:A:C6	85:AA:565:G:H1'	2.57	0.40
85:AA:584:G:H3'	85:AA:584:G:C8	2.56	0.40
85:AA:609:U:C4	85:AA:610:C:C6	3.09	0.40
85:AA:2060:G:N1	85:AA:2061:C:C4	2.89	0.40
19:AK:135:TRP:HB3	85:AA:2072:G:P	2.61	0.40
85:AA:1720:C:O2	85:AA:1820:G:C2	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:194:GLN:HE22	85:AA:397:G:H3'	1.85	0.40
85:AA:438:G:C5'	85:AA:438:G:C8	3.01	0.40
85:AA:1264:U:H2'	85:AA:1265:C:C6	2.56	0.40
85:AA:82:A:H3'	85:AA:82:A:C8	2.56	0.40
35:BB:1430:G:H2'	35:BB:1431:G:C8	2.56	0.40
85:AA:1835:U:H3'	85:AA:1836:U:H6	1.86	0.40
34:BA:1400:A:C6	34:BA:1401:C:C5	3.09	0.40
85:AA:811:A:H1'	85:AA:867:G:N2	2.35	0.40
85:AA:867:G:N3	85:AA:868:A:C6	2.89	0.40
85:AA:743:C:H2'	85:AA:744:C:H6	1.83	0.40
34:BA:526:C:H2'	34:BA:527:C:O5'	2.20	0.40
34:BA:1119:A:C5	34:BA:1140:A:N1	2.88	0.40
34:BA:1119:A:H4'	34:BA:1120:U:OP1	2.20	0.40
34:BA:1428:G:N1	34:BA:1429:A:C5	2.88	0.40
85:AA:1257:A:C2	85:AA:1258:U:C6	3.09	0.40
85:AA:1101:C:C2	85:AA:1102:C:C6	3.09	0.40
35:BB:1203:C:H2'	35:BB:1204:C:C6	2.56	0.40
86:AB:1:G:C6	86:AB:73:A:C5	3.09	0.40
85:AA:1849:A:H2'	85:AA:1850:G:H5'	2.02	0.40
85:AA:1712:A:N3	85:AA:1856:G:C2	2.89	0.40
35:BB:874:G:N2	35:BB:961:G:C4	2.89	0.40
23:AP:69:MET:HA	23:AP:70:PRO:HD3	1.91	0.40
35:BB:609:G:C6	35:BB:610:U:O4	2.75	0.40
34:BA:831:U:C2	34:BA:832:C:C6	3.08	0.40
35:BB:1177:U:C2	35:BB:1178:A:O4'	2.74	0.40
35:BB:645:C:C2	35:BB:646:U:C5	3.08	0.40
11:AC:184:CYS:O	11:AC:199:CYS:N	2.54	0.40
85:AA:1795:C:O2'	85:AA:1796:C:H5'	2.21	0.40
85:AA:1731:G:C8	85:AA:1809:G:N3	2.89	0.40
52:BS:15:GLU:CD	52:BS:25:THR:H	2.24	0.40
35:BB:412:A:C2	35:BB:548:A:C5	3.09	0.40
35:BB:1422:G:N3	35:BB:1426:G:C6	2.89	0.40
35:BB:744:U:H2'	35:BB:745:C:O4'	2.21	0.40
57:BX:130:VAL:HG11	57:BX:147:ARG:NH1	2.36	0.40
6:A5:117:TYR:HB3	6:A5:165:ARG:CD	2.51	0.40
85:AA:1368:G:N2	85:AA:1441:G:H1'	2.36	0.40
34:BA:927:A:C6	34:BA:997:U:O4	2.73	0.40
85:AA:412:G:C6	85:AA:413:G:C5	3.09	0.40
18:AJ:34:VAL:O	18:AJ:37:PHE:HB3	2.21	0.40
54:BU:74:VAL:O	54:BU:89:ILE:HG12	2.21	0.40
85:AA:804:A:C8	85:AA:804:A:H3'	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A9:101:LEU:HD22	10:A9:101:LEU:HA	1.91	0.40
1:A0:155:ASN:HB2	1:A0:157:TYR:OH	2.21	0.40
6:A5:114:ALA:HA	6:A5:119:ILE:N	2.36	0.40
4:A3:150:LEU:HD22	4:A3:154:ASP:HB2	2.03	0.40
25:AR:68:GLU:HB3	25:AR:72:ALA:HB2	2.02	0.40
31:AX:158:LYS:HB3	85:AA:1861:A:H5"	2.03	0.40
20:AL:42:ARG:HG3	20:AL:43:SER:N	2.36	0.40
4:A3:33:LEU:C	4:A3:35:ASN:H	2.23	0.40
34:BA:1026:C:C2	34:BA:1027:C:C5	3.10	0.40
34:BA:1049:G:N7	34:BA:1516:G:C6	2.89	0.40
34:BA:1073:G:N3	34:BA:1221:A:C2	2.88	0.40
34:BA:1101:A:H4'	37:BD:78:C:H5'	2.03	0.40
34:BA:1109:G:C6	34:BA:1110:A:C8	3.08	0.40
34:BA:1192:A:H2'	34:BA:1193:A:O4'	2.21	0.40
34:BA:1260:G:C2	34:BA:1270:G:N3	2.89	0.40
34:BA:1310:C:C5	34:BA:1311:G:C6	3.08	0.40
34:BA:149:G:H2'	34:BA:150:C:O4'	2.22	0.40
34:BA:1539:A:C6	34:BA:1568:A:N1	2.89	0.40
34:BA:1658:G:H2'	34:BA:1659:G:O4'	2.20	0.40
34:BA:1688:G:P	57:BX:91:THR:HG21	2.61	0.40
34:BA:1742:G:H2'	34:BA:1743:U:O4'	2.20	0.40
34:BA:1746:G:C5	34:BA:1747:C:C5	3.09	0.40
34:BA:27:G:C5	34:BA:52:G:C6	3.08	0.40
34:BA:33:C:H3'	34:BA:33:C:C6	2.56	0.40
34:BA:329:G:C2	34:BA:382:G:C6	3.09	0.40
34:BA:108:A:N6	34:BA:386:A:H1'	2.36	0.40
34:BA:430:A:C5	34:BA:431:A:C5	3.09	0.40
34:BA:449:G:N2	34:BA:452:A:OP2	2.53	0.40
34:BA:474:A:C2	34:BA:475:A:N3	2.89	0.40
34:BA:495:A:N1	34:BA:496:G:C5	2.89	0.40
34:BA:799:A:P	34:BA:800:G:H4'	2.61	0.40
34:BA:804:G:O6	34:BA:810:A:N6	2.55	0.40
34:BA:858:C:H2'	34:BA:859:G:C8	2.56	0.40
34:BA:8:G:C2	34:BA:9:A:C8	3.10	0.40
34:BA:993:C:C6	34:BA:994:G:N7	2.89	0.40
34:BA:994:G:C4	34:BA:996:U:C5	3.09	0.40
35:BB:1106:G:C5	35:BB:1107:C:C5	3.09	0.40
35:BB:1110:G:H2'	35:BB:1111:C:H6	1.85	0.40
35:BB:1119:G:C2	35:BB:1120:A:C4	3.09	0.40
35:BB:1220:A:N6	35:BB:1221:G:O6	2.55	0.40
34:BA:369:A:N6	35:BB:1242:C:C2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1346:A:C5	35:BB:1369:A:C5	3.09	0.40
35:BB:1464:G:N7	40:BG:24:A:OP1	2.54	0.40
35:BB:483:C:C6	35:BB:483:C:C3'	3.04	0.40
35:BB:612:A:C4	35:BB:613:C:C5	3.10	0.40
34:BA:487:A:N6	35:BB:651:G:C5	2.90	0.40
35:BB:662:G:N1	35:BB:663:G:C5	2.89	0.40
35:BB:6:A:OP2	35:BB:6:A:C8	2.75	0.40
35:BB:87:G:C5	35:BB:88:U:C4	3.09	0.40
34:BA:9:A:H61	36:BC:162:C:N4	2.19	0.40
36:BC:73:U:H3'	36:BC:74:U:C5	2.55	0.40
37:BD:15:U:C4	37:BD:16:U:C6	3.09	0.40
37:BD:66:G:H2'	37:BD:67:C:H6	1.85	0.40
38:BE:121:G:C6	38:BE:122:G:C6	3.08	0.40
38:BE:64:A:C6	38:BE:141:A:C8	3.10	0.40
38:BE:145:A:C2	38:BE:146:U:N1	2.90	0.40
38:BE:199:A:O2'	38:BE:200:A:H5'	2.20	0.40
39:BF:60:C:OP1	39:BF:62:U:N3	2.54	0.40
40:BG:127:G:N1	40:BG:163:G:C2	2.88	0.40
40:BG:33:G:C2	40:BG:168:A:C2	3.10	0.40
40:BG:59:G:C8	40:BG:59:G:H3'	2.57	0.40
41:BH:32:U:O4	41:BH:33:G:C2	2.73	0.40
41:BH:42:U:C6	41:BH:42:U:P	3.14	0.40
41:BH:3:U:C2'	41:BH:4:U:C5	3.04	0.40
41:BH:63:G:C6	41:BH:64:U:C6	3.09	0.40
38:BE:24:G:C2	43:BJ:41:GLN:HG3	105.66	0.40
45:BL:39:ARG:HA	45:BL:42:LYS:HD2	2.02	0.40
50:BQ:178:GLN:NE2	50:BQ:179:ARG:HG2	2.37	0.40
34:BA:982:A:O4'	51:BR:133:HIS:HA	2.21	0.40
51:BR:25:HIS:CD2	51:BR:141:ARG:NH1	2.89	0.40
53:BT:4:LEU:HD23	53:BT:8:ALA:HB2	2.03	0.40
36:BC:144:C:H4'	57:BX:78:LYS:HB2	2.03	0.40
34:BA:540:G:C6	34:BA:541:C:C4	3.09	0.40
34:BA:566:G:N1	34:BA:567:U:C4	2.90	0.40
85:AA:104:C:OP2	85:AA:104:C:C6	2.74	0.40
85:AA:1229:G:C4	85:AA:1230:U:C6	3.10	0.40
85:AA:129:U:H2'	85:AA:130:G:O4'	2.21	0.40
85:AA:147:G:C6	85:AA:177:A:C4	3.09	0.40
85:AA:178:U:H2'	85:AA:179:G:C4'	2.50	0.40
85:AA:2196:G:O5'	85:AA:2196:G:C8	2.74	0.40
85:AA:25:C:OP1	85:AA:26:A:C5'	2.69	0.40
85:AA:635:G:N1	85:AA:636:G:C8	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:609:G:C2	34:BA:610:A:N9	2.89	0.40
35:BB:1376:G:C4	35:BB:1377:A:C8	3.09	0.40
35:BB:525:U:C3'	35:BB:525:U:C6	3.04	0.40
35:BB:794:G:H1	35:BB:1028:C:N4	2.18	0.40
35:BB:826:G:O5'	35:BB:826:G:H8	2.03	0.40
35:BB:810:G:N2	35:BB:830:G:H1'	2.36	0.40
35:BB:869:G:OP2	35:BB:869:G:H8	2.04	0.40
35:BB:799:A:C2	35:BB:971:A:O3'	2.75	0.40
85:AA:1198:U:H2'	85:AA:1199:C:H6	1.84	0.40
85:AA:878:U:N3	85:AA:879:G:C8	2.90	0.40
85:AA:1564:U:H2'	85:AA:1565:G:H8	1.84	0.40
85:AA:1584:U:H4'	85:AA:1585:A:O5'	2.21	0.40
85:AA:1650:G:C8	85:AA:1870:C:C5	3.09	0.40
85:AA:2026:U:C4	85:AA:2027:U:C5	3.09	0.40
85:AA:2036:A:C5	85:AA:2037:A:N7	2.89	0.40
34:BA:196:A:H3'	34:BA:196:A:C8	2.55	0.40
34:BA:264:A:H2'	34:BA:265:A:C8	2.56	0.40
85:AA:1974:C:C4	85:AA:1975:G:N7	2.89	0.40
34:BA:716:C:N4	34:BA:720:A:H8	2.19	0.40
35:BB:665:A:C2	35:BB:1404:A:N1	2.89	0.40
35:BB:1405:G:C2	35:BB:1406:C:C6	3.09	0.40
35:BB:1407:U:C6	35:BB:1408:G:C5	3.09	0.40
35:BB:628:A:H2'	35:BB:629:C:H6	1.86	0.40
35:BB:665:A:C5	35:BB:666:A:C5	3.10	0.40
85:AA:591:A:N1	85:AA:602:U:C6	2.89	0.40
27:AT:42:PRO:HA	85:AA:591:A:H5'	2.02	0.40
35:BB:1498:G:C2	35:BB:1508:G:C2	3.09	0.40
6:A5:73:ALA:O	85:AA:323:U:C4'	2.69	0.40
85:AA:245:A:N1	85:AA:246:C:N3	2.70	0.40
35:BB:361:A:C6	35:BB:362:A:C5	3.10	0.40
35:BB:1521:G:C5	35:BB:1522:G:N7	2.89	0.40
35:BB:1527:A:N6	35:BB:1541:G:C5	2.89	0.40
52:BS:136:VAL:HG11	52:BS:145:HIS:CE1	2.57	0.40
85:AA:1291:A:C5	85:AA:1292:A:C4	3.10	0.40
85:AA:1292:A:N6	85:AA:1293:U:C4	2.89	0.40
85:AA:12:U:H1'	85:AA:1677:A:H1'	2.04	0.40
85:AA:1469:G:C5'	85:AA:1469:G:N3	2.84	0.40
85:AA:1524:A:H2'	85:AA:1525:C:O4'	2.20	0.40
85:AA:15:U:O5'	85:AA:15:U:C6	2.74	0.40
85:AA:1671:G:C2	85:AA:1699:A:C6	3.10	0.40
85:AA:1665:G:N7	85:AA:1691:U:C2	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:1524:A:H5'	85:AA:2102:A:C6	2.57	0.40
85:AA:2105:G:C2	85:AA:2106:C:C2	3.09	0.40
85:AA:2230:U:C6	85:AA:2230:U:O5'	2.74	0.40
85:AA:2221:A:C5	85:AA:2244:G:C2	3.09	0.40
40:BG:152:G:N1	40:BG:153:C:C2	2.89	0.40
85:AA:2149:C:H2'	85:AA:2150:G:C8	2.56	0.40
85:AA:1625:C:C2	85:AA:1626:U:C5	3.09	0.40
85:AA:703:U:C2	85:AA:704:A:C8	3.09	0.40
85:AA:269:G:C5	85:AA:980:U:O2	2.74	0.40
85:AA:575:G:C8	85:AA:575:G:O5'	2.74	0.40
85:AA:2075:C:C5	85:AA:2076:C:C5	3.09	0.40
5:A4:150:ASP:CG	85:AA:778:C:H5'	2.41	0.40
85:AA:801:U:H6	85:AA:802:A:C5	2.39	0.40
34:BA:1331:G:N2	34:BA:1332:U:C2	2.90	0.40
34:BA:1406:U:C2	34:BA:1407:C:C5	3.09	0.40
85:AA:392:G:N2	85:AA:409:C:H1'	2.36	0.40
4:A3:175:LYS:CD	85:AA:67:C:C6	3.05	0.40
34:BA:1163:G:O6	34:BA:1164:C:C4	2.75	0.40
85:AA:338:G:C6	85:AA:339:A:C4	3.09	0.40
35:BB:1431:G:H2'	35:BB:1432:U:C6	2.56	0.40
35:BB:575:C:C4	35:BB:576:A:C4	3.08	0.40
85:AA:1109:G:C6	85:AA:1110:A:C4	3.09	0.40
34:BA:1136:A:N7	34:BA:1137:U:C5	2.90	0.40
85:AA:809:A:N6	85:AA:869:A:C2	2.90	0.40
34:BA:1040:G:C5	34:BA:1041:U:C6	3.08	0.40
85:AA:342:C:C5	85:AA:348:G:C6	3.09	0.40
85:AA:1007:G:H1'	85:AA:1096:G:N2	2.36	0.40
85:AA:1096:G:C2	85:AA:1097:G:C4	3.09	0.40
86:AB:1:G:N1	86:AB:73:A:C5	2.89	0.40
85:AA:1300:A:C2	85:AA:1443:U:C2	3.09	0.40
85:AA:1825:A:H1'	85:AA:1851:A:C2	2.55	0.40
85:AA:1825:A:C5	85:AA:1850:G:C4	3.09	0.40
35:BB:1385:C:H2'	35:BB:1386:C:C5	2.56	0.40
35:BB:1071:G:C5	35:BB:1072:C:C5	3.09	0.40
35:BB:431:U:O5'	35:BB:431:U:H6	2.04	0.40
85:AA:1799:C:C4	85:AA:1800:U:C2	3.09	0.40
5:A4:191:MET:HB3	85:AA:1356:U:OP1	2.21	0.40
85:AA:838:G:O6	85:AA:852:C:N4	2.55	0.40
85:AA:732:G:C8	85:AA:733:C:C5	3.10	0.40
48:BO:112:ARG:HA	48:BO:115:ARG:HG2	2.02	0.40
35:BB:590:G:C6	35:BB:592:G:C6	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1364:G:OP2	46:BM:7:PRO:HD3	2.21	0.40
42:BI:156:VAL:HA	42:BI:159:PHE:CG	2.55	0.40
21:AM:42:ALA:C	21:AM:44:MET:H	2.22	0.40
49:BP:164:VAL:O	49:BP:168:ARG:HG3	2.21	0.40
49:BP:6:TYR:HB2	49:BP:8:ARG:NE	2.36	0.40
2:A1:91:LYS:HE2	27:AT:22:LEU:HA	2.02	0.40
85:AA:1047:G:C6	85:AA:1048:C:C4	3.10	0.40
85:AA:307:G:C3'	85:AA:307:G:C8	3.03	0.40
86:AB:21:A:C6	86:AB:48:C:C5	3.09	0.40
85:AA:1785:U:H3'	85:AA:1786:G:C8	2.56	0.40
20:AL:109:LEU:CD2	20:AL:118:ARG:HH12	2.34	0.40
18:AJ:73:GLY:O	18:AJ:127:GLY:HA3	2.21	0.40
30:AW:36:VAL:O	30:AW:44:ILE:HB	2.21	0.40
24:AQ:19:VAL:O	24:AQ:85:LEU:HD22	2.21	0.40
48:BO:140:PRO:HG2	52:BS:168:PHE:HA	2.03	0.40
22:AO:45:MET:CG	22:AO:127:LEU:HD11	2.51	0.40
50:BQ:183:SER:O	50:BQ:187:LYS:N	2.54	0.40
35:BB:336:U:H2'	35:BB:337:U:C6	2.56	0.40
17:AI:69:GLU:O	17:AI:72:LYS:HB3	2.22	0.40
31:AX:47:ILE:O	31:AX:85:LEU:HA	2.22	0.40
35:BB:739:C:H2'	35:BB:740:A:O4'	2.20	0.40
20:AL:2:GLY:C	20:AL:4:ILE:H	2.23	0.40
85:AA:2162:G:N1	85:AA:2163:G:C4	2.90	0.40
34:BA:1033:G:O5'	34:BA:1033:G:C8	2.74	0.40
34:BA:1054:U:H3'	34:BA:1055:U:H5	1.84	0.40
34:BA:10:G:C2'	34:BA:10:G:N3	2.80	0.40
34:BA:1112:U:H2'	34:BA:1113:A:H8	1.83	0.40
34:BA:1144:A:C2	34:BA:1145:U:H1'	2.56	0.40
34:BA:1110:A:C6	34:BA:1149:C:C4	3.10	0.40
34:BA:1193:A:N1	34:BA:1194:G:C6	2.89	0.40
34:BA:1327:G:C2	34:BA:1328:U:C2	3.09	0.40
34:BA:128:C:O2	34:BA:136:A:C2	2.75	0.40
34:BA:1327:G:C5	34:BA:1415:C:C2	3.09	0.40
34:BA:1418:G:H3'	34:BA:1419:A:H8	1.85	0.40
34:BA:1471:U:C4	42:BI:11:LYS:HB3	2.56	0.40
34:BA:1517:U:C4	34:BA:1518:A:C4	3.09	0.40
34:BA:1641:G:N2	34:BA:1642:A:C4	2.89	0.40
34:BA:1667:G:C6	34:BA:1668:C:C4	3.09	0.40
34:BA:1821:A:OP2	53:BT:38:ARG:NH1	2.54	0.40
34:BA:1837:U:C2	34:BA:1838:U:C5	3.09	0.40
34:BA:236:A:O2'	34:BA:238:C:H5	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:325:A:H2'	34:BA:326:A:C5'	2.51	0.40
34:BA:334:G:H2'	34:BA:335:C:H6	1.86	0.40
34:BA:333:A:C6	34:BA:357:A:C8	3.08	0.40
34:BA:384:U:C2	34:BA:385:U:C6	3.09	0.40
34:BA:401:A:N1	36:BC:26:U:O2	2.54	0.40
34:BA:419:U:O4	34:BA:430:A:H8	2.04	0.40
34:BA:749:G:C2	34:BA:750:C:C2	3.09	0.40
34:BA:756:A:N7	34:BA:757:G:H1'	2.37	0.40
34:BA:83:G:C2	34:BA:96:G:C6	3.10	0.40
34:BA:840:U:H2'	34:BA:840:U:O2	2.20	0.40
34:BA:937:G:N2	34:BA:938:C:C2	2.90	0.40
35:BB:1030:U:C2	35:BB:1031:G:C6	3.09	0.40
35:BB:1147:G:H3'	35:BB:1148:U:C5	2.56	0.40
35:BB:1110:G:C2	35:BB:1155:U:N3	2.89	0.40
35:BB:1231:U:H2'	35:BB:1232:A:C8	2.56	0.40
35:BB:1233:U:H2'	35:BB:1234:G:H8	1.86	0.40
35:BB:679:G:C2	35:BB:1269:A:C4	3.09	0.40
35:BB:1335:G:N1	35:BB:1336:G:C4	2.89	0.40
35:BB:1343:C:C2	35:BB:1396:G:C2	3.08	0.40
35:BB:1343:C:N3	35:BB:1396:G:N1	2.69	0.40
35:BB:1344:U:C2	35:BB:1369:A:N1	2.90	0.40
35:BB:1359:G:C8	35:BB:1359:G:O5'	2.74	0.40
35:BB:1467:A:C3'	35:BB:1467:A:C8	3.02	0.40
35:BB:372:U:H2'	35:BB:373:C:O4'	2.22	0.40
35:BB:593:A:N6	35:BB:594:U:C4	2.89	0.40
35:BB:75:A:H5"	35:BB:76:C:P	2.61	0.40
35:BB:79:U:C4	35:BB:80:C:C5	3.09	0.40
36:BC:164:G:N2	36:BC:166:G:C5	2.89	0.40
36:BC:68:A:N3	36:BC:91:G:C2	2.89	0.40
36:BC:91:G:N2	36:BC:92:C:H1'	2.37	0.40
37:BD:3:G:C2	37:BD:117:U:O2	2.75	0.40
38:BE:102:U:C4	38:BE:104:G:C2	3.09	0.40
38:BE:152:U:H5'	38:BE:153:C:OP2	2.21	0.40
38:BE:179:A:OP1	38:BE:182:U:N3	2.55	0.40
38:BE:30:C:N4	38:BE:181:U:P	2.94	0.40
38:BE:72:C:H2'	38:BE:73:A:C8	2.57	0.40
39:BF:22:U:H2'	39:BF:22:U:OP1	2.22	0.40
39:BF:19:A:C2	39:BF:58:U:O4'	2.74	0.40
39:BF:69:A:C6	39:BF:70:A:N1	2.89	0.40
39:BF:9:C:H2'	39:BF:10:A:C4	2.56	0.40
40:BG:101:G:C5	40:BG:102:G:N7	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BG:164:U:C6	40:BG:164:U:O5'	2.64	0.40
40:BG:3:G:C4'	40:BG:3:G:OP1	2.68	0.40
40:BG:65:C:C2	40:BG:66:C:C5	3.09	0.40
40:BG:64:C:H2'	40:BG:65:C:O4'	2.22	0.40
40:BG:6:A:N1	40:BG:7:U:C2	2.89	0.40
41:BH:28:U:C6	41:BH:28:U:C3'	3.04	0.40
41:BH:38:G:N2	41:BH:114:G:H1'	2.37	0.40
41:BH:40:C:C5	41:BH:41:A:C5	3.09	0.40
41:BH:9:C:O5'	41:BH:9:C:C2	2.74	0.40
47:BN:76:LEU:HD21	47:BN:164:GLY:CA	2.51	0.40
49:BP:77:ALA:O	49:BP:81:LYS:HE3	2.22	0.40
51:BR:118:GLN:O	51:BR:147:GLN:NE2	2.53	0.40
52:BS:45:ARG:O	52:BS:48:ARG:HG3	2.21	0.40
53:BT:60:ARG:HB2	53:BT:64:ARG:HE	1.87	0.40
38:BE:48:G:N7	55:BV:87:LYS:HE3	2.36	0.40
34:BA:566:G:N1	34:BA:567:U:C5	2.90	0.40
7:A6:42:TRP:CH2	85:AA:667:A:OP1	2.74	0.40
7:A6:11:TRP:CZ2	7:A6:42:TRP:HE3	2.38	0.40
85:AA:104:C:H3'	85:AA:104:C:C6	2.56	0.40
85:AA:691:U:O4'	85:AA:1280:U:C2	2.74	0.40
85:AA:1483:A:O2'	85:AA:1484:G:H5'	2.21	0.40
85:AA:154:U:C2	85:AA:155:U:C6	3.10	0.40
85:AA:2186:U:H3'	85:AA:2186:U:C6	2.56	0.40
85:AA:30:G:N1	85:AA:671:G:C5	2.89	0.40
85:AA:62:A:H1'	85:AA:336:C:H1'	2.04	0.40
85:AA:372:U:C4	85:AA:373:G:N7	2.90	0.40
85:AA:474:C:N3	85:AA:475:A:C4	2.90	0.40
85:AA:662:U:C4	85:AA:663:C:C4	3.09	0.40
85:AA:63:G:C5	85:AA:85:U:O2	2.75	0.40
26:AS:65:ALA:HB3	85:AA:642:G:N7	2.36	0.40
27:AT:111:ARG:HH21	85:AA:506:G:H3'	1.87	0.40
34:BA:652:C:H2'	34:BA:653:U:C6	2.55	0.40
35:BB:546:A:C6	35:BB:555:G:C2	3.10	0.40
35:BB:567:G:C6	35:BB:568:A:N7	2.89	0.40
35:BB:801:G:C5	35:BB:802:G:C8	3.08	0.40
35:BB:799:A:C4	35:BB:972:C:OP1	2.74	0.40
35:BB:799:A:N7	35:BB:976:U:OP2	2.55	0.40
85:AA:992:G:H2'	85:AA:993:G:O4'	2.21	0.40
85:AA:997:U:C2'	85:AA:998:U:H5'	2.51	0.40
15:AG:90:CYS:SG	85:AA:1118:U:H5'	2.61	0.40
85:AA:1118:U:N3	85:AA:1209:U:O4	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:709:A:C6	85:AA:710:A:C4	3.09	0.40
15:AG:4:MET:SD	85:AA:1116:G:OP1	2.79	0.40
85:AA:1126:G:N1	85:AA:1127:G:C5	2.88	0.40
85:AA:1549:G:H4'	85:AA:2036:A:H2	1.85	0.40
17:AI:107:ARG:N	85:AA:1560:A:C2	2.89	0.40
31:AX:173:HIS:HE1	85:AA:1655:G:H5'	1.85	0.40
85:AA:2032:G:C5	85:AA:2033:C:C6	3.08	0.40
34:BA:193:C:C3'	34:BA:194:G:H4'	2.51	0.40
34:BA:256:A:H3'	34:BA:257:G:C5'	2.51	0.40
34:BA:250:G:C6	34:BA:268:U:C4	3.09	0.40
34:BA:286:C:H2'	34:BA:287:U:OP1	2.21	0.40
34:BA:281:C:N4	34:BA:288:U:C5	2.89	0.40
85:AA:1917:G:C2	85:AA:1996:A:C2	3.09	0.40
85:AA:2001:C:C6	85:AA:2001:C:OP1	2.74	0.40
85:AA:124:A:C8	85:AA:124:A:O5'	2.75	0.40
85:AA:185:A:C8	85:AA:186:U:C4	3.09	0.40
35:BB:363:A:N3	35:BB:363:A:H2'	2.35	0.40
85:AA:1455:C:O2'	85:AA:1456:A:H5'	2.22	0.40
85:AA:2222:G:C5	85:AA:2223:C:C6	3.09	0.40
85:AA:2239:A:C2	85:AA:2240:G:H1'	2.56	0.40
85:AA:2147:A:C5	85:AA:2172:A:N7	2.89	0.40
85:AA:2147:A:N7	85:AA:2148:C:C4	2.89	0.40
34:BA:2:A:C8	34:BA:2:A:C3'	3.02	0.40
85:AA:569:A:C2	85:AA:570:U:C2	3.09	0.40
85:AA:716:G:H3'	85:AA:716:G:C8	2.57	0.40
85:AA:725:G:O6	85:AA:776:C:C5	2.73	0.40
85:AA:780:U:O5'	85:AA:780:U:H6	2.03	0.40
85:AA:1823:G:C5	85:AA:1824:G:C5	3.09	0.40
35:BB:1066:G:O6	35:BB:1067:G:C6	2.74	0.40
85:AA:118:C:O2	85:AA:362:G:N2	2.54	0.40
85:AA:397:G:C6	85:AA:398:U:O4	2.74	0.40
85:AA:438:G:C2	85:AA:439:U:N1	2.89	0.40
85:AA:16:G:H2'	85:AA:17:C:C5	2.56	0.40
85:AA:1147:A:C4	85:AA:1148:G:H1'	2.56	0.40
35:BB:999:G:N1	35:BB:1000:U:C6	2.89	0.40
35:BB:999:G:C3'	35:BB:999:G:C8	3.04	0.40
34:BA:1163:G:H5'	54:BU:60:ARG:NH1	2.36	0.40
85:AA:264:A:OP1	85:AA:308:U:C5	2.74	0.40
85:AA:818:C:C4	85:AA:863:C:H1'	2.57	0.40
1:A0:165:TRP:O	1:A0:169:ARG:HG2	2.21	0.40
85:AA:750:A:H2'	85:AA:751:C:C1'	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:764:U:N3	85:AA:766:G:O6	2.54	0.40
85:AA:1019:U:C5	85:AA:1051:A:C8	3.09	0.40
34:BA:535:G:H1	34:BA:574:U:H3	1.70	0.40
34:BA:576:C:H5"	34:BA:579:U:OP2	2.21	0.40
34:BA:587:U:C2	34:BA:588:C:N4	2.90	0.40
7:A6:157:PHE:CD1	7:A6:163:PHE:O	2.74	0.40
34:BA:1122:G:N2	34:BA:1123:G:H1'	2.37	0.40
85:AA:1101:C:H2'	85:AA:1102:C:C6	2.56	0.40
23:AP:126:ARG:HB3	23:AP:137:ALA:HB3	2.02	0.40
35:BB:1203:C:H3'	35:BB:1203:C:C6	2.56	0.40
85:AA:1830:U:C6	85:AA:1831:U:C5	3.09	0.40
34:BA:1646:U:C4	34:BA:1647:G:C4	3.09	0.40
27:AT:101:LEU:C	27:AT:101:LEU:HD23	2.41	0.40
16:AH:83:ILE:HG22	16:AH:83:ILE:O	2.20	0.40
35:BB:1070:G:C6	35:BB:1071:G:C4	3.10	0.40
23:AP:153:TYR:CD1	23:AP:153:TYR:N	2.88	0.40
25:AR:71:HIS:CE1	25:AR:71:HIS:O	2.74	0.40
35:BB:646:U:C4	35:BB:647:U:O4	2.74	0.40
27:AT:132:MET:HE2	27:AT:132:MET:H	1.85	0.40
11:AC:191:GLU:HB3	11:AC:192:PHE:CD2	2.57	0.40
85:AA:1731:G:H2'	85:AA:1732:G:O4'	2.21	0.40
22:AO:19:LYS:HD3	85:AA:1734:A:C2	2.56	0.40
85:AA:732:G:H2'	85:AA:732:G:N3	2.36	0.40
35:BB:736:G:C5	35:BB:744:U:N3	2.89	0.40
7:A6:158:ALA:O	7:A6:161:SER:HB3	2.21	0.40
4:A3:49:TYR:CD1	4:A3:119:VAL:HA	2.56	0.40
85:AA:1760:C:C2	85:AA:1761:C:C5	3.08	0.40
34:BA:1219:G:N1	34:BA:1220:C:C2	2.90	0.40
34:BA:1317:U:C3'	34:BA:1317:U:C6	3.04	0.40
56:BW:116:ILE:CG2	56:BW:117:ALA:H	2.30	0.40
85:AA:1599:G:N1	85:AA:1600:G:C5	2.90	0.40
85:AA:510:A:H3'	85:AA:511:A:C8	2.56	0.40
40:BG:142:A:C2	40:BG:143:C:C4	3.08	0.40
48:BO:177:ALA:HA	48:BO:180:ILE:HG12	2.03	0.40
34:BA:1003:A:C2	34:BA:1004:U:C4	3.09	0.40
49:BP:147:LEU:O	49:BP:151:ALA:N	2.54	0.40
17:AI:61:PRO:O	17:AI:65:LYS:HG3	2.21	0.40
85:AA:1175:A:C4	85:AA:1176:C:C6	3.10	0.40
85:AA:1175:A:C6	85:AA:1176:C:C4	3.09	0.40
38:BE:53:U:C6	38:BE:53:U:O5'	2.75	0.40
2:A1:196:GLU:O	2:A1:203:ASP:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1365:U:OP2	34:BA:1365:U:C5	2.75	0.40
30:AW:75:VAL:O	30:AW:78:CYS:SG	2.78	0.40
5:A4:67:LEU:HB3	5:A4:101:GLN:HB3	2.02	0.40
85:AA:1906:C:C4	85:AA:1907:U:C5	3.10	0.40
52:BS:27:TYR:CE2	52:BS:47:MET:HE1	2.56	0.40
18:AJ:41:MET:SD	18:AJ:129:PHE:CD1	3.14	0.40
11:AC:76:GLY:O	11:AC:83:ASN:HA	2.21	0.40
4:A3:36:GLU:CD	4:A3:50:THR:HB	2.41	0.40
23:AP:121:ILE:HG13	23:AP:122:GLY:H	1.85	0.40
7:A6:113:PHE:CG	7:A6:120:SER:C	2.94	0.40
49:BP:106:THR:N	49:BP:109:GLU:CD	2.74	0.40
48:BO:161:CYS:HA	48:BO:164:VAL:HG22	2.03	0.40
7:A6:52:ARG:HE	7:A6:52:ARG:HB3	1.57	0.40
30:AW:20:HIS:O	30:AW:20:HIS:CG	2.74	0.40
6:A5:66:ALA:O	6:A5:201:ALA:HA	2.22	0.40
6:A5:111:LEU:O	6:A5:115:LYS:N	2.54	0.40
35:BB:257:G:H2'	35:BB:258:C:C6	2.56	0.40
1:A0:181:LEU:HD12	1:A0:182:ASP:H	1.86	0.40
26:AS:59:ALA:HB3	26:AS:63:ASN:C	2.41	0.40
34:BA:914:G:C6	34:BA:1005:C:C6	3.10	0.40
34:BA:1102:A:H4'	37:BD:100:A:N1	2.37	0.40
34:BA:1153:C:C4	34:BA:1154:U:O4	2.75	0.40
34:BA:1174:A:C2	34:BA:1201:G:C2	3.09	0.40
34:BA:1435:A:N6	34:BA:1437:G:C4	2.89	0.40
34:BA:15:G:O6	34:BA:16:C:C4	2.74	0.40
34:BA:1653:G:C6	34:BA:1654:G:C8	3.09	0.40
34:BA:172:A:N6	34:BA:316:G:C5	2.89	0.40
34:BA:1785:G:C6	34:BA:1786:C:C4	3.10	0.40
34:BA:1818:A:H2	34:BA:1823:A:H62	1.67	0.40
34:BA:131:A:C2	34:BA:183:G:O3'	2.75	0.40
34:BA:234:A:C2	34:BA:242:U:O2	2.74	0.40
34:BA:240:C:H2'	34:BA:241:U:H5'	2.04	0.40
34:BA:42:A:C6	34:BA:43:U:C4	3.10	0.40
34:BA:440:A:C2	34:BA:441:A:C5	3.09	0.40
34:BA:435:U:C6	34:BA:469:C:N4	2.89	0.40
34:BA:745:A:N7	34:BA:746:C:C5	2.90	0.40
34:BA:764:G:N1	34:BA:765:U:C2	2.90	0.40
34:BA:794:G:H2'	34:BA:795:G:C8	2.56	0.40
34:BA:799:A:H8	34:BA:857:C:OP1	2.05	0.40
34:BA:82:A:C1'	34:BA:84:U:C5	3.05	0.40
34:BA:82:A:H1'	34:BA:84:U:C5	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:846:U:H3'	34:BA:846:U:H6	1.87	0.40
34:BA:898:G:H2'	34:BA:900:A:C8	2.56	0.40
34:BA:917:C:C2	34:BA:918:U:C6	3.10	0.40
35:BB:1034:U:C4	35:BB:1035:C:C5	3.10	0.40
35:BB:1128:U:P	35:BB:1128:U:H6	2.45	0.40
35:BB:119:G:C4	35:BB:120:C:C6	3.09	0.40
35:BB:1224:C:C4	35:BB:1225:A:H2'	2.56	0.40
35:BB:1224:C:O2	35:BB:1225:A:C6	2.74	0.40
35:BB:1226:G:C8	47:BN:192:LYS:HE2	2.56	0.40
35:BB:1239:A:C6	35:BB:1240:A:N7	2.89	0.40
35:BB:125:G:C2'	35:BB:126:C:H6	2.33	0.40
35:BB:1294:C:H2'	35:BB:1295:A:O4'	2.22	0.40
35:BB:1313:C:N3	35:BB:1314:G:C8	2.90	0.40
35:BB:131:A:C4	35:BB:132:G:C8	3.10	0.40
35:BB:1334:C:C2	35:BB:1410:G:C4	3.09	0.40
35:BB:134:G:C8	35:BB:134:G:H3'	2.56	0.40
35:BB:1346:A:H61	35:BB:1369:A:C5'	2.34	0.40
35:BB:386:G:C5	35:BB:387:G:C8	3.10	0.40
35:BB:390:G:N1	35:BB:391:G:C4	2.89	0.40
35:BB:587:A:C8	35:BB:587:A:C3'	3.02	0.40
35:BB:62:C:C6	35:BB:63:A:C4	3.10	0.40
35:BB:692:G:N3	35:BB:692:G:H2'	2.35	0.40
35:BB:785:G:N1	35:BB:1036:G:C4	2.89	0.40
36:BC:136:G:N2	36:BC:137:C:C2	2.90	0.40
36:BC:157:U:O2'	36:BC:158:U:H3'	2.22	0.40
36:BC:39:G:N2	36:BC:104:A:C4	2.90	0.40
36:BC:66:G:C6	36:BC:67:U:N3	2.89	0.40
36:BC:66:G:H2'	36:BC:67:U:O4'	2.22	0.40
34:BA:955:G:H4'	38:BE:111:C:O2'	2.20	0.40
38:BE:115:U:C4	38:BE:116:U:O4	2.75	0.40
38:BE:186:C:C4	38:BE:189:A:C5	3.10	0.40
38:BE:23:G:C6	38:BE:25:U:C5	3.10	0.40
39:BF:18:U:OP2	39:BF:18:U:C6	2.74	0.40
39:BF:7:G:OP1	39:BF:8:C:C5	2.75	0.40
40:BG:40:G:C5	40:BG:41:U:C6	3.10	0.40
40:BG:50:G:N2	40:BG:59:G:C4	2.90	0.40
41:BH:49:C:H5"	41:BH:50:A:N9	2.36	0.40
42:BI:26:ILE:O	42:BI:29:LEU:HB2	2.22	0.40
44:BK:86:HIS:CD2	44:BK:139:ARG:NE	2.86	0.40
45:BL:53:VAL:HG13	45:BL:75:HIS:CG	2.56	0.40
47:BN:33:GLN:HA	47:BN:36:GLN:CB	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:126:U:C5	85:AA:182:C:H5”	2.55	0.40
85:AA:146:U:C5	85:AA:333:A:C2’	3.04	0.40
85:AA:1501:A:N6	85:AA:1502:A:C6	2.89	0.40
85:AA:1491:G:H2’	85:AA:1507:G:H1	1.86	0.40
85:AA:156:G:C6	85:AA:167:A:N1	2.90	0.40
85:AA:178:U:C2’	85:AA:179:G:H4’	2.51	0.40
85:AA:43:A:C2	85:AA:443:A:C4	3.10	0.40
85:AA:480:U:C2	85:AA:482:C:N1	2.90	0.40
85:AA:596:A:C2	85:AA:597:A:C4	3.10	0.40
85:AA:678:A:N1	85:AA:679:A:C4	2.90	0.40
26:AS:20:ASN:O	26:AS:23:ALA:HB3	2.21	0.40
34:BA:608:G:P	34:BA:608:G:O4’	2.80	0.40
34:BA:625:U:N3	34:BA:626:G:C5	2.90	0.40
34:BA:656:U:H2’	34:BA:658:C:H41	1.86	0.40
35:BB:1027:U:O4	35:BB:1028:C:C4	2.75	0.40
35:BB:847:U:C2’	35:BB:848:A:H5”	2.52	0.40
85:AA:959:C:C2	85:AA:960:G:C1’	3.04	0.40
85:AA:1125:G:N2	85:AA:1192:C:C4	2.89	0.40
85:AA:1115:G:C4	85:AA:1214:C:N4	2.90	0.40
5:A4:46:PHE:O	5:A4:47:HIS:CG	2.75	0.40
85:AA:1126:G:C5	85:AA:1201:A:C2	3.09	0.40
85:AA:1174:G:C4’	85:AA:1236:G:H5”	2.51	0.40
85:AA:1560:A:N7	85:AA:1561:A:C2	2.89	0.40
17:AI:147:ARG:NH1	85:AA:1564:U:OP2	2.53	0.40
31:AX:180:THR:HB	85:AA:1654:G:H1’	2.03	0.40
85:AA:2019:G:N2	85:AA:2022:A:C8	2.89	0.40
85:AA:2039:G:H5”	85:AA:2041:G:N2	2.36	0.40
34:BA:593:G:N3	34:BA:594:G:C4	2.90	0.40
85:AA:1964:A:C6	85:AA:1965:U:C4	3.10	0.40
35:BB:1405:G:H2’	35:BB:1406:C:H6	1.86	0.40
23:AP:158:ILE:CG2	23:AP:159:GLY:H	2.21	0.40
85:AA:590:U:O2’	85:AA:592:C:C4	2.72	0.40
85:AA:605:A:H8	85:AA:607:U:OP1	2.05	0.40
27:AT:10:VAL:HG13	27:AT:34:HIS:CB	2.51	0.40
27:AT:67:PHE:CZ	85:AA:592:C:O2	2.75	0.40
35:BB:1497:C:C2	35:BB:1498:G:C8	3.09	0.40
35:BB:1508:G:N1	35:BB:1509:G:C5	2.89	0.40
35:BB:1511:U:C4	35:BB:1512:C:C4	3.10	0.40
35:BB:1494:G:N2	35:BB:1513:U:C2	2.90	0.40
85:AA:210:G:C4	85:AA:243:A:N6	2.90	0.40
85:AA:258:G:C2	85:AA:259:A:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1542:C:N3	35:BB:1543:C:C4	2.89	0.40
41:BH:10:U:C2	41:BH:20:A:N1	2.89	0.40
85:AA:1455:C:O2	85:AA:1456:A:C8	2.74	0.40
85:AA:1458:G:H2'	85:AA:1459:C:O4'	2.21	0.40
85:AA:1459:C:N4	85:AA:1460:G:C5	2.89	0.40
85:AA:1462:A:O5'	85:AA:1462:A:H8	2.04	0.40
85:AA:11:A:C2	85:AA:1521:U:O2	2.75	0.40
85:AA:2213:A:N6	85:AA:2214:A:C5	2.90	0.40
85:AA:2215:C:H5	85:AA:2218:G:HO2'	1.63	0.40
85:AA:2223:C:H2'	85:AA:2224:U:C5	2.56	0.40
85:AA:111:A:N1	85:AA:313:A:H2'	2.36	0.40
85:AA:2147:A:N6	85:AA:2148:C:C2	2.88	0.40
85:AA:2172:A:C6	85:AA:2173:A:C8	3.09	0.40
85:AA:267:U:C5	85:AA:268:A:OP2	2.74	0.40
85:AA:270:A:N1	85:AA:271:A:C5	2.88	0.40
85:AA:883:A:C5	85:AA:884:A:N6	2.89	0.40
7:A6:119:LYS:NZ	85:AA:549:A:H5"	2.36	0.40
85:AA:555:C:C2'	85:AA:556:C:C6	3.02	0.40
85:AA:1529:A:H3'	85:AA:1530:U:H6	1.86	0.40
85:AA:1531:G:H2'	85:AA:1532:G:O4'	2.22	0.40
85:AA:1540:A:C6	85:AA:1541:G:C4	3.10	0.40
85:AA:715:G:C4	85:AA:716:G:C8	3.10	0.40
85:AA:717:G:C2	85:AA:718:C:C2	3.09	0.40
85:AA:887:A:N6	85:AA:919:U:H5	2.19	0.40
34:BA:1335:A:C6	34:BA:1336:U:O4	2.74	0.40
34:BA:1341:A:C5	34:BA:1404:A:C5	3.09	0.40
85:AA:382:G:C6	85:AA:415:G:N1	2.90	0.40
1:A0:88:PHE:CD2	1:A0:101:GLN:C	2.95	0.40
35:BB:1351:G:C2	35:BB:1352:C:C6	3.10	0.40
85:AA:263:A:C2'	85:AA:264:A:O5'	2.69	0.40
85:AA:858:G:C2	85:AA:859:G:C1'	3.04	0.40
85:AA:346:U:C5	85:AA:347:U:C6	3.09	0.40
85:AA:1250:A:C4	85:AA:1251:G:C8	3.10	0.40
85:AA:1007:G:C4	85:AA:1008:C:C5	3.10	0.40
85:AA:1300:A:C5	85:AA:1443:U:N3	2.89	0.40
85:AA:1845:G:C6	85:AA:1846:G:N7	2.89	0.40
85:AA:1955:U:C6	85:AA:1955:U:H3'	2.56	0.40
34:BA:516:U:O2	34:BA:517:A:C8	2.74	0.40
35:BB:1485:G:H2'	35:BB:1486:C:C6	2.56	0.40
35:BB:1486:C:H2'	35:BB:1487:G:H8	1.85	0.40
35:BB:1478:G:N3	35:BB:1487:G:C2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:834:C:C4	34:BA:835:U:C6	3.09	0.40
34:BA:835:U:H2'	34:BA:836:U:H5'	2.02	0.40
35:BB:15:C:C3'	35:BB:15:C:C6	3.05	0.40
35:BB:1267:C:C4	35:BB:1268:C:H1'	2.56	0.40
35:BB:636:G:N1	35:BB:637:G:C5	2.89	0.40
5:A4:21:GLU:N	5:A4:21:GLU:CD	2.71	0.40
11:AC:192:PHE:HA	25:AR:64:ARG:HB3	2.03	0.40
35:BB:691:A:C4	35:BB:1054:G:N2	2.89	0.40
1:A0:115:LEU:CD1	1:A0:213:ARG:HH22	2.34	0.40
17:AI:35:LEU:HD13	17:AI:40:PHE:HA	2.02	0.40
22:AO:115:GLY:HA3	85:AA:1969:A:OP1	2.22	0.40
35:BB:709:G:H2'	35:BB:710:A:H5'	2.04	0.40
35:BB:773:G:N1	35:BB:774:C:N3	2.68	0.40
35:BB:889:U:C2	35:BB:894:A:C6	3.09	0.40
1:A0:133:ASP:OD1	1:A0:183:ILE:HG23	2.21	0.40
85:AA:1556:G:C2	85:AA:1557:U:C2	3.10	0.40
7:A6:80:HIS:HE1	7:A6:87:GLU:HG3	1.84	0.40
34:BA:1076:U:C4	34:BA:1077:G:C5	3.08	0.40
59:BZ:51:ASP:HB3	59:BZ:105:LYS:O	2.20	0.40
14:AF:119:LEU:HD21	85:AA:1603:G:C5	2.56	0.40
20:AL:53:TYR:O	20:AL:56:HIS:HB3	2.21	0.40
12:AD:67:ALA:HB2	31:AX:23:PHE:HA	2.03	0.40
54:BU:93:PHE:CD2	54:BU:94:GLU:OE2	2.74	0.40
31:AX:145:ARG:HG3	31:AX:146:ALA:H	1.87	0.40
57:BX:53:GLN:HA	57:BX:53:GLN:OE1	2.20	0.40
31:AX:41:THR:HG1	31:AX:44:ARG:HB3	1.87	0.40
26:AS:69:CYS:SG	26:AS:118:VAL:HG11	2.61	0.40
1:A0:67:GLU:HA	1:A0:86:VAL:O	2.22	0.40
34:BA:1113:A:H2'	34:BA:1114:G:C8	2.57	0.40
34:BA:1114:G:N2	44:BK:196:HIS:NE2	2.68	0.40
34:BA:1200:U:C6	34:BA:1202:G:N7	2.90	0.40
34:BA:136:A:C6	34:BA:137:C:C4	3.10	0.40
34:BA:1454:G:O2'	34:BA:1455:C:H5'	2.22	0.40
34:BA:1525:G:C6	34:BA:1526:C:C5	3.09	0.40
34:BA:1724:G:C4	34:BA:1799:G:O6	2.75	0.40
34:BA:1828:A:OP1	57:BX:101:ASN:ND2	2.54	0.40
34:BA:182:U:H3	34:BA:306:G:H1	1.69	0.40
34:BA:1840:C:H2'	34:BA:1841:A:H8	1.84	0.40
34:BA:397:A:N1	36:BC:30:U:C2	2.89	0.40
34:BA:415:C:N3	34:BA:432:A:C5	2.89	0.40
34:BA:451:A:H2'	34:BA:452:A:O4'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:455:A:N1	34:BA:456:G:C4	2.89	0.40
34:BA:459:U:H2'	34:BA:460:G:O4'	2.21	0.40
34:BA:53:G:N2	34:BA:54:A:C8	2.90	0.40
34:BA:60:A:C4	34:BA:61:G:C5	3.09	0.40
34:BA:500:C:C2	34:BA:702:G:N1	2.89	0.40
34:BA:758:G:C3'	34:BA:758:G:C8	3.03	0.40
34:BA:802:G:N1	34:BA:803:U:C2	2.89	0.40
34:BA:816:G:C5	34:BA:817:U:C5	3.09	0.40
34:BA:83:G:N2	34:BA:96:G:H3'	2.37	0.40
34:BA:99:G:C6	34:BA:100:A:N6	2.90	0.40
35:BB:700:C:C2	35:BB:1044:U:N3	2.89	0.40
35:BB:1144:A:C6	35:BB:1145:G:O6	2.74	0.40
35:BB:1220:A:O3'	35:BB:1221:G:C8	2.75	0.40
35:BB:1236:A:C2	35:BB:1237:C:N1	2.89	0.40
34:BA:373:G:C2	35:BB:1238:A:C5	3.09	0.40
35:BB:1239:A:C5	35:BB:1240:A:N7	2.89	0.40
35:BB:133:G:N3	35:BB:369:A:C2	2.89	0.40
35:BB:1363:A:N1	35:BB:1364:C:C4	2.90	0.40
35:BB:1458:U:O2	39:BF:14:C:C5	2.74	0.40
35:BB:491:A:C2'	35:BB:492:U:H5'	2.51	0.40
35:BB:70:A:H2'	35:BB:71:A:H8	1.87	0.40
35:BB:880:G:H8	35:BB:880:G:O5'	2.05	0.40
35:BB:92:C:H2'	35:BB:93:A:O4'	2.22	0.40
36:BC:102:G:C2	36:BC:104:A:N6	2.89	0.40
36:BC:133:C:C5	36:BC:134:G:C1'	3.03	0.40
36:BC:23:G:C4	36:BC:24:G:C8	3.09	0.40
36:BC:68:A:C5	36:BC:91:G:N1	2.89	0.40
36:BC:92:C:C4	36:BC:93:C:C5	3.09	0.40
37:BD:108:G:H8	37:BD:108:G:O5'	2.05	0.40
37:BD:68:C:N3	37:BD:69:U:C5	2.89	0.40
38:BE:95:G:C2	38:BE:126:G:C5	3.09	0.40
38:BE:149:A:P	38:BE:149:A:H8	2.44	0.40
38:BE:158:U:N3	38:BE:159:A:C5	2.89	0.40
39:BF:11:C:OP1	39:BF:13:U:H5'	2.20	0.40
39:BF:60:C:H3'	39:BF:62:U:O4	2.22	0.40
39:BF:66:C:N4	39:BF:67:A:C4	2.90	0.40
40:BG:167:C:C5'	40:BG:167:C:C6	3.05	0.40
40:BG:53:C:C2	40:BG:54:G:C8	3.09	0.40
41:BH:101:A:C5	41:BH:102:C:C5	3.10	0.40
41:BH:39:G:N2	41:BH:40:C:H1'	2.37	0.40
41:BH:98:U:OP2	55:BV:59:GLY:HA3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:747:G:H4'	42:BI:21:SER:HA	2.04	0.40
42:BI:69:VAL:HG22	42:BI:70:CYS:N	2.35	0.40
48:BO:54:VAL:HA	48:BO:56:CYS:SG	2.62	0.40
48:BO:80:LYS:H	48:BO:84:PRO:HA	1.84	0.40
50:BQ:70:TYR:CZ	50:BQ:72:THR:N	2.89	0.40
51:BR:26:TYR:CD2	51:BR:121:GLN:CG	3.04	0.40
34:BA:1439:C:H5"	52:BS:119:ARG:HH22	1.87	0.40
35:BB:126:C:OP1	53:BT:74:ARG:NH1	2.55	0.40
38:BE:49:A:OP1	55:BV:110:LEU:HA	2.21	0.40
4:A3:112:LEU:HD23	4:A3:112:LEU:HA	1.95	0.40
85:AA:2127:G:C2	85:AA:2192:A:N3	2.90	0.40
85:AA:25:C:OP1	85:AA:26:A:H5"	2.20	0.40
85:AA:33:U:N3	85:AA:538:A:N6	2.70	0.40
85:AA:46:U:H4'	85:AA:47:A:H5'	2.03	0.40
85:AA:47:A:C2	85:AA:97:A:N3	2.90	0.40
85:AA:494:G:H2'	85:AA:495:G:H5"	2.04	0.40
85:AA:497:G:C2	85:AA:498:C:C2	3.09	0.40
85:AA:497:G:C5	85:AA:498:C:C4	3.09	0.40
85:AA:42:G:C5	85:AA:502:A:C2	3.09	0.40
85:AA:512:U:C2	85:AA:513:G:C8	3.10	0.40
85:AA:532:G:C6	85:AA:533:C:C5	3.10	0.40
85:AA:661:C:H2'	85:AA:662:U:O4'	2.21	0.40
85:AA:666:A:H2'	85:AA:667:A:C8	2.57	0.40
85:AA:681:G:C4	85:AA:687:G:C5	3.09	0.40
34:BA:610:A:C2	34:BA:611:A:N9	2.89	0.40
34:BA:622:G:C2	34:BA:661:C:C2	3.09	0.40
35:BB:574:G:C4	35:BB:577:U:C4	3.09	0.40
56:BW:89:ARG:NH2	56:BW:93:THR:HG21	2.37	0.40
35:BB:867:C:C4	35:BB:868:C:C5	3.09	0.40
35:BB:846:A:N3	35:BB:967:G:C2	2.90	0.40
57:BX:58:HIS:CD2	57:BX:59:THR:N	2.89	0.40
85:AA:710:A:C8	85:AA:711:C:C2	3.09	0.40
35:BB:1195:A:C8	35:BB:1195:A:O5'	2.75	0.40
85:AA:2211:G:N3	85:AA:2211:G:H2'	2.36	0.40
35:BB:521:U:H2'	35:BB:528:G:C2	2.56	0.40
85:AA:806:G:C8	85:AA:806:G:H3'	2.57	0.40
3:A2:66:GLY:HA2	85:AA:1544:G:H5'	2.04	0.40
85:AA:1548:A:N1	85:AA:1549:G:C6	2.90	0.40
21:AM:142:ARG:NE	85:AA:1550:C:C5	2.89	0.40
34:BA:253:U:O4	34:BA:254:U:C4	2.74	0.40
34:BA:266:G:N1	34:BA:267:G:C4	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:265:A:N1	34:BA:278:U:C2	2.89	0.40
85:AA:1960:C:C6	85:AA:1960:C:H5'	2.51	0.40
34:BA:971:G:C5	34:BA:972:C:C5	3.09	0.40
35:BB:1286:G:H3'	35:BB:1287:U:C5	2.56	0.40
35:BB:27:C:C6	35:BB:27:C:C3'	3.04	0.40
35:BB:666:A:C2'	35:BB:667:G:C8	3.04	0.40
34:BA:598:G:O2'	34:BA:599:U:C6	2.68	0.40
85:AA:185:A:H2'	85:AA:186:U:C2	2.56	0.40
35:BB:1546:C:C2'	35:BB:1547:U:H5'	2.52	0.40
41:BH:21:G:H2'	41:BH:22:A:O4'	2.22	0.40
85:AA:1290:G:H1	85:AA:1451:U:H3	1.67	0.40
85:AA:1290:G:N2	85:AA:1453:U:C2	2.89	0.40
85:AA:1453:U:N3	85:AA:1454:U:H1'	2.37	0.40
85:AA:1457:C:C5	85:AA:1458:G:N9	2.90	0.40
85:AA:2227:A:O2'	85:AA:2228:G:H5'	2.22	0.40
18:AJ:12:ARG:NH2	85:AA:1472:G:C8	2.90	0.40
35:BB:995:C:N4	35:BB:1024:G:H1	2.19	0.40
85:AA:1618:G:O5'	85:AA:1618:G:C8	2.75	0.40
85:AA:968:U:H2'	85:AA:969:U:C5	2.57	0.40
85:AA:987:C:H5"	85:AA:987:C:H6	1.85	0.40
85:AA:2057:G:C2	85:AA:2058:C:C5	3.09	0.40
34:BA:1407:C:H2'	34:BA:1408:C:H6	1.85	0.40
85:AA:113:U:H1'	85:AA:399:A:H2	1.86	0.40
85:AA:119:G:C5	85:AA:120:C:C4	3.10	0.40
85:AA:390:U:H2'	85:AA:391:G:C8	2.56	0.40
85:AA:1147:A:C8	85:AA:1161:U:O4	2.75	0.40
35:BB:1430:G:C2	35:BB:1431:G:C4	3.10	0.40
34:BA:1134:A:C5	34:BA:1135:U:C4	3.09	0.40
85:AA:265:A:H62	85:AA:869:A:H4'	1.87	0.40
85:AA:741:G:H1'	85:AA:742:U:C5	2.56	0.40
34:BA:1213:A:C2	34:BA:1214:U:C2	3.10	0.40
35:BB:474:G:C5	35:BB:475:A:C4	3.10	0.40
44:BK:75:TYR:C	44:BK:75:TYR:CD2	2.95	0.40
34:BA:690:G:OP2	39:BF:1:C:C5	2.75	0.40
85:AA:205:A:H5"	85:AA:301:U:C4	2.56	0.40
35:BB:1483:A:C5	35:BB:1484:A:C4	3.09	0.40
85:AA:1142:G:H2'	85:AA:1143:C:O4'	2.20	0.40
42:BI:157:LYS:HB3	42:BI:158:HIS:CE1	2.57	0.40
85:AA:1595:G:C4	85:AA:1883:C:N4	2.90	0.40
85:AA:1644:G:C2	85:AA:1885:A:H2	2.39	0.40
85:AA:733:C:H2'	85:AA:734:C:C6	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:AA:771:A:N3	85:AA:772:C:C4	2.90	0.40
35:BB:412:A:OP1	35:BB:590:G:N2	2.55	0.40
1:A0:199:LEU:HD22	1:A0:212:LEU:HD11	2.04	0.40
35:BB:710:A:C5	35:BB:711:C:C5	3.10	0.40
35:BB:889:U:C2'	35:BB:891:U:C5	3.03	0.40
34:BA:409:A:H2'	34:BA:410:G:C8	2.57	0.40
34:BA:1357:C:H5"	46:BM:77:VAL:HG21	2.03	0.40
34:BA:1357:C:O2	34:BA:1358:A:C8	2.75	0.40
5:A4:108:PRO:HG3	5:A4:116:GLN:HA	2.02	0.40
29:AV:100:TYR:CG	85:AA:2249:U:C5'	3.04	0.40
2:A1:195:ILE:HB	2:A1:203:ASP:HB3	2.02	0.40
85:AA:260:A:C2	85:AA:261:U:H1'	2.57	0.40
12:AD:38:GLY:O	12:AD:45:PRO:HA	2.21	0.40
23:AP:92:LEU:HB3	23:AP:111:PHE:CD1	2.57	0.40
35:BB:349:U:H2'	35:BB:350:U:C6	2.57	0.40
2:A1:100:TYR:CE1	2:A1:106:PHE:CD2	3.09	0.40
59:BZ:108:LEU:HA	59:BZ:112:ARG:CB	2.52	0.40
2:A1:9:LEU:HD21	2:A1:11:ALA:HB3	2.03	0.40
56:BW:111:MET:H	56:BW:130:LYS:HD2	1.87	0.40
49:BP:14:ARG:O	49:BP:56:VAL:HA	2.21	0.40
4:A3:188:ARG:HH12	4:A3:191:ARG:HH11	1.70	0.40
19:AK:88:ARG:NE	19:AK:120:LYS:HB2	2.37	0.40
29:AV:94:GLU:CD	29:AV:94:GLU:H	2.24	0.40
47:BN:120:ARG:HG2	47:BN:120:ARG:HH11	1.86	0.40
86:AB:47:U:H5"	86:AB:47:U:C6	2.57	0.40
45:BL:25:CYS:SG	45:BL:137:VAL:HG12	2.62	0.40
2:A1:44:ILE:HA	2:A1:48:ARG:HG2	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A0	217/256 (85%)	180 (83%)	22 (10%)	15 (7%)	1 22
2	A1	246/273 (90%)	189 (77%)	38 (15%)	19 (8%)	1 20
3	A2	185/190 (97%)	159 (86%)	17 (9%)	9 (5%)	3 31
4	A3	248/250 (99%)	204 (82%)	24 (10%)	20 (8%)	1 19
5	A4	190/202 (94%)	148 (78%)	24 (13%)	18 (10%)	1 15
6	A5	191/220 (87%)	158 (83%)	18 (9%)	15 (8%)	1 19
7	A6	185/190 (97%)	135 (73%)	30 (16%)	20 (11%)	0 11
8	A7	313/318 (98%)	256 (82%)	39 (12%)	18 (6%)	2 27
9	A8	40/57 (70%)	34 (85%)	3 (8%)	3 (8%)	1 20
10	A9	64/153 (42%)	50 (78%)	9 (14%)	5 (8%)	1 20
11	AC	202/277 (73%)	162 (80%)	25 (12%)	15 (7%)	1 21
12	AD	102/172 (59%)	79 (78%)	9 (9%)	14 (14%)	0 6
13	AE	158/174 (91%)	126 (80%)	12 (8%)	20 (13%)	0 8
14	AF	119/144 (83%)	105 (88%)	11 (9%)	3 (2%)	7 46
15	AG	139/151 (92%)	120 (86%)	12 (9%)	7 (5%)	3 31
16	AH	124/144 (86%)	99 (80%)	14 (11%)	11 (9%)	1 17
17	AI	132/152 (87%)	100 (76%)	21 (16%)	11 (8%)	1 18
18	AJ	127/130 (98%)	114 (90%)	7 (6%)	6 (5%)	3 32
19	AK	146/149 (98%)	118 (81%)	18 (12%)	10 (7%)	1 23
20	AL	125/142 (88%)	94 (75%)	19 (15%)	12 (10%)	1 14
21	AM	151/153 (99%)	114 (76%)	16 (11%)	21 (14%)	0 6
22	AO	147/167 (88%)	128 (87%)	10 (7%)	9 (6%)	2 26
23	AP	222/266 (84%)	171 (77%)	29 (13%)	22 (10%)	1 14
24	AQ	103/117 (88%)	86 (84%)	10 (10%)	7 (7%)	1 23
25	AR	79/194 (41%)	59 (75%)	12 (15%)	8 (10%)	1 13
26	AS	140/143 (98%)	111 (79%)	18 (13%)	11 (8%)	1 19
27	AT	129/137 (94%)	100 (78%)	15 (12%)	14 (11%)	0 11
28	AU	84/113 (74%)	66 (79%)	12 (14%)	6 (7%)	1 22
29	AV	99/111 (89%)	64 (65%)	20 (20%)	15 (15%)	0 5
30	AW	81/86 (94%)	61 (75%)	11 (14%)	9 (11%)	0 11
31	AX	204/214 (95%)	176 (86%)	17 (8%)	11 (5%)	2 29
32	AY	63/66 (96%)	46 (73%)	8 (13%)	9 (14%)	0 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
33	AZ	66/103 (64%)	56 (85%)	7 (11%)	3 (4%)	3 33
42	BI	190/193 (98%)	126 (66%)	37 (20%)	27 (14%)	0 6
43	BJ	212/214 (99%)	186 (88%)	20 (9%)	6 (3%)	6 44
44	BK	210/213 (99%)	161 (77%)	26 (12%)	23 (11%)	0 11
45	BL	168/194 (87%)	134 (80%)	21 (12%)	13 (8%)	1 20
46	BM	137/164 (84%)	103 (75%)	25 (18%)	9 (7%)	1 24
47	BN	214/218 (98%)	158 (74%)	20 (9%)	36 (17%)	0 5
48	BO	199/222 (90%)	164 (82%)	21 (11%)	14 (7%)	1 22
49	BP	182/189 (96%)	149 (82%)	19 (10%)	14 (8%)	1 20
50	BQ	201/221 (91%)	160 (80%)	21 (10%)	20 (10%)	1 14
51	BR	153/166 (92%)	121 (79%)	21 (14%)	11 (7%)	1 22
52	BS	177/179 (99%)	133 (75%)	15 (8%)	29 (16%)	0 5
53	BT	198/260 (76%)	168 (85%)	20 (10%)	10 (5%)	2 30
54	BU	156/159 (98%)	118 (76%)	19 (12%)	19 (12%)	0 8
55	BV	102/130 (78%)	84 (82%)	13 (13%)	5 (5%)	3 31
56	BW	136/139 (98%)	103 (76%)	18 (13%)	15 (11%)	0 11
57	BX	119/164 (73%)	97 (82%)	9 (8%)	13 (11%)	0 11
58	BY	98/125 (78%)	81 (83%)	9 (9%)	8 (8%)	1 18
59	BZ	123/143 (86%)	104 (85%)	12 (10%)	7 (6%)	2 27
60	Ba	130/133 (98%)	93 (72%)	21 (16%)	16 (12%)	0 8
61	Bb	142/145 (98%)	108 (76%)	19 (13%)	15 (11%)	0 11
62	Bc	139/146 (95%)	103 (74%)	18 (13%)	18 (13%)	0 7
63	Bd	68/71 (96%)	50 (74%)	8 (12%)	10 (15%)	0 6
64	Be	184/260 (71%)	135 (73%)	32 (17%)	17 (9%)	1 16
65	Bf	412/429 (96%)	296 (72%)	66 (16%)	50 (12%)	0 8
66	Bg	94/105 (90%)	88 (94%)	5 (5%)	1 (1%)	17 63
67	Bh	186/188 (99%)	155 (83%)	13 (7%)	18 (10%)	1 14
68	Bi	127/132 (96%)	98 (77%)	18 (14%)	11 (9%)	1 17
69	Bj	160/170 (94%)	123 (77%)	22 (14%)	15 (9%)	1 16
70	Bk	82/127 (65%)	56 (68%)	14 (17%)	12 (15%)	0 6
71	Bl	114/149 (76%)	84 (74%)	10 (9%)	20 (18%)	0 4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
72	Bm	105/109 (96%)	79 (75%)	8 (8%)	18 (17%)	0	4
73	Bn	81/84 (96%)	56 (69%)	15 (18%)	10 (12%)	0	8
74	Bo	90/93 (97%)	71 (79%)	6 (7%)	13 (14%)	0	6
75	Bp	79/82 (96%)	59 (75%)	10 (13%)	10 (13%)	0	8
76	Bq	48/51 (94%)	34 (71%)	6 (12%)	8 (17%)	0	5
77	Br	366/374 (98%)	274 (75%)	56 (15%)	36 (10%)	1	14
78	Bs	50/128 (39%)	44 (88%)	4 (8%)	2 (4%)	4	35
79	Bt	103/106 (97%)	75 (73%)	16 (16%)	12 (12%)	0	9
80	Bu	297/308 (96%)	216 (73%)	46 (16%)	35 (12%)	0	9
81	Bv	154/192 (80%)	114 (74%)	25 (16%)	15 (10%)	1	14
82	Bw	255/257 (99%)	200 (78%)	33 (13%)	22 (9%)	1	17
83	Bx	238/276 (86%)	188 (79%)	26 (11%)	24 (10%)	1	13
84	By	187/189 (99%)	155 (83%)	15 (8%)	17 (9%)	1	17
All	All	11687/13211 (88%)	9172 (78%)	1415 (12%)	1100 (9%)	2	16

All (1100) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A0	37	ASN
1	A0	119	TRP
1	A0	145	THR
1	A0	212	LEU
1	A0	225	PHE
2	A1	65	GLY
2	A1	66	LEU
2	A1	171	LYS
2	A1	172	ILE
2	A1	174	ASN
3	A2	39	ALA
3	A2	43	GLN
3	A2	149	PHE
4	A3	44	GLU
4	A3	71	PRO
4	A3	72	SER
4	A3	108	ASP
4	A3	161	ILE
4	A3	171	LYS

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Mol	Chain	Res	Type
4	A3	177	PRO
4	A3	178	LYS
5	A4	3	ALA
5	A4	36	HIS
5	A4	80	GLN
5	A4	114	LEU
5	A4	191	MET
6	A5	23	LYS
6	A5	25	MET
6	A5	36	THR
6	A5	41	ARG
6	A5	173	LYS
7	A6	14	PRO
7	A6	35	LEU
7	A6	64	ASN
7	A6	131	ARG
7	A6	139	ILE
7	A6	148	ARG
7	A6	149	VAL
7	A6	155	ILE
7	A6	157	PHE
7	A6	168	PRO
7	A6	176	ARG
8	A7	6	GLU
8	A7	30	LYS
8	A7	47	PRO
8	A7	51	SER
8	A7	89	HIS
8	A7	131	ASN
8	A7	215	ASP
9	A8	34	LYS
10	A9	100	ALA
10	A9	125	ASN
11	AC	132	THR
11	AC	232	GLU
11	AC	239	PHE
11	AC	241	ARG
12	AD	6	PRO
13	AE	18	VAL
13	AE	21	GLU
13	AE	29	ALA
13	AE	58	PHE

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Mol	Chain	Res	Type
13	AE	60	THR
13	AE	166	LYS
13	AE	172	SER
15	AG	5	HIS
15	AG	23	PRO
15	AG	25	TRP
15	AG	62	GLN
16	AH	13	SER
16	AH	60	ASP
16	AH	61	GLU
17	AI	56	ALA
17	AI	148	PHE
18	AJ	29	PRO
18	AJ	30	SER
19	AK	10	LYS
19	AK	31	PRO
19	AK	131	GLU
20	AL	23	LYS
20	AL	41	ALA
20	AL	83	ASP
21	AM	27	VAL
21	AM	34	VAL
21	AM	35	LYS
21	AM	39	ILE
21	AM	43	TYR
21	AM	90	ASP
21	AM	91	PRO
21	AM	119	ARG
21	AM	143	ARG
21	AM	146	THR
22	AO	52	GLU
23	AP	87	ARG
23	AP	102	ALA
23	AP	118	ASN
23	AP	162	HIS
23	AP	184	ARG
24	AQ	64	LYS
24	AQ	67	CYS
24	AQ	68	GLY
25	AR	23	HIS
25	AR	30	THR
26	AS	61	GLN

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Mol	Chain	Res	Type
26	AS	65	ALA
26	AS	87	ASN
26	AS	107	ARG
26	AS	136	GLN
27	AT	35	PRO
27	AT	42	PRO
27	AT	73	GLY
27	AT	75	LYS
27	AT	127	LYS
28	AU	47	MET
28	AU	103	LYS
29	AV	17	ARG
29	AV	26	PHE
29	AV	47	LEU
29	AV	91	ARG
29	AV	93	VAL
30	AW	6	SER
30	AW	7	ASP
30	AW	21	LYS
30	AW	60	CYS
30	AW	61	ALA
31	AX	64	ARG
31	AX	80	GLU
31	AX	192	SER
31	AX	205	THR
32	AY	4	VAL
32	AY	62	PRO
32	AY	64	LYS
33	AZ	84	CYS
42	BI	4	ASP
42	BI	12	LYS
42	BI	19	THR
42	BI	20	TYR
42	BI	21	SER
42	BI	41	ASN
42	BI	85	PRO
42	BI	97	VAL
42	BI	104	ALA
42	BI	150	LYS
42	BI	178	LYS
42	BI	179	GLU
42	BI	192	HIS

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Mol	Chain	Res	Type
43	BJ	58	PRO
44	BK	31	ILE
44	BK	81	ASN
44	BK	93	PRO
44	BK	102	MET
44	BK	119	TYR
44	BK	132	GLY
44	BK	172	GLY
44	BK	176	ILE
45	BL	16	MET
45	BL	18	GLU
45	BL	32	GLU
45	BL	59	LEU
45	BL	71	LYS
45	BL	95	GLU
46	BM	11	ILE
47	BN	6	ASN
47	BN	9	PRO
47	BN	11	VAL
47	BN	14	ARG
47	BN	19	PRO
47	BN	20	CYS
47	BN	23	GLN
47	BN	66	PRO
47	BN	67	THR
47	BN	81	SER
47	BN	90	VAL
47	BN	155	ARG
47	BN	174	PRO
47	BN	176	LYS
47	BN	201	ARG
48	BO	88	PRO
48	BO	136	ARG
48	BO	140	PRO
48	BO	151	GLU
48	BO	203	GLU
49	BP	6	TYR
49	BP	32	ASP
49	BP	47	TRP
50	BQ	58	ARG
50	BQ	104	ALA
50	BQ	111	LEU

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Mol	Chain	Res	Type
50	BQ	175	HIS
50	BQ	199	SER
51	BR	40	LYS
51	BR	54	LYS
52	BS	2	VAL
52	BS	3	ARG
52	BS	5	HIS
52	BS	6	LEU
52	BS	15	GLU
52	BS	71	LEU
52	BS	118	ALA
52	BS	155	GLN
52	BS	157	ARG
52	BS	158	VAL
52	BS	161	PRO
52	BS	166	VAL
52	BS	167	ILE
52	BS	169	VAL
52	BS	173	SER
53	BT	5	LYS
53	BT	75	HIS
53	BT	130	ASN
53	BT	134	ASN
53	BT	179	LYS
53	BT	191	ASP
54	BU	19	PHE
54	BU	46	ALA
54	BU	47	ALA
54	BU	56	TYR
54	BU	99	SER
54	BU	126	PRO
54	BU	149	ARG
54	BU	150	THR
56	BW	7	ASN
56	BW	11	CYS
56	BW	91	ASP
56	BW	114	SER
56	BW	120	VAL
57	BX	60	TYR
57	BX	69	SER
57	BX	72	VAL
57	BX	75	ILE

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Mol	Chain	Res	Type
58	BY	68	THR
58	BY	99	ALA
59	BZ	47	VAL
59	BZ	48	ARG
59	BZ	51	ASP
60	Ba	14	SER
60	Ba	53	VAL
60	Ba	56	MET
60	Ba	67	VAL
60	Ba	96	ILE
60	Ba	101	ALA
60	Ba	121	ALA
60	Ba	126	TRP
61	Bb	35	ALA
61	Bb	50	PRO
61	Bb	71	PRO
61	Bb	107	SER
61	Bb	111	GLY
62	Bc	16	SER
62	Bc	17	LYS
62	Bc	41	ARG
62	Bc	66	SER
62	Bc	84	PRO
62	Bc	95	VAL
62	Bc	134	MET
63	Bd	5	LYS
63	Bd	21	ILE
63	Bd	26	PRO
63	Bd	33	LYS
63	Bd	50	ASN
64	Be	70	ARG
64	Be	84	THR
64	Be	96	LEU
64	Be	217	GLN
65	Bf	61	ARG
65	Bf	76	ILE
65	Bf	81	ARG
65	Bf	86	ASP
65	Bf	133	PRO
65	Bf	134	PRO
65	Bf	225	ASN
65	Bf	232	ALA

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Mol	Chain	Res	Type
65	Bf	243	THR
65	Bf	323	ALA
65	Bf	348	GLU
65	Bf	349	PRO
65	Bf	360	ALA
65	Bf	387	ALA
65	Bf	405	SER
65	Bf	427	ARG
66	Bg	108	ASP
67	Bh	7	LYS
67	Bh	97	LYS
67	Bh	100	THR
67	Bh	122	THR
67	Bh	140	VAL
67	Bh	159	GLU
67	Bh	174	PRO
67	Bh	175	VAL
68	Bi	12	LYS
68	Bi	50	GLN
68	Bi	87	LEU
69	Bj	4	PRO
69	Bj	5	ARG
69	Bj	14	TYR
69	Bj	16	THR
69	Bj	43	PRO
69	Bj	47	TRP
69	Bj	85	HIS
70	Bk	75	SER
70	Bk	80	ARG
70	Bk	89	ALA
70	Bk	92	THR
70	Bk	97	LEU
70	Bk	104	LYS
70	Bk	122	ILE
71	Bl	36	PRO
71	Bl	89	ILE
71	Bl	91	ARG
71	Bl	93	VAL
71	Bl	94	ARG
71	Bl	96	SER
71	Bl	99	PRO
71	Bl	102	ARG

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Mol	Chain	Res	Type
71	Bl	130	SER
71	Bl	132	PRO
71	Bl	146	PRO
72	Bm	16	ILE
72	Bm	17	ALA
72	Bm	27	ARG
72	Bm	29	ALA
72	Bm	33	SER
72	Bm	39	ALA
72	Bm	43	LYS
72	Bm	87	SER
73	Bn	15	THR
73	Bn	36	ALA
73	Bn	40	PRO
73	Bn	77	HIS
74	Bo	19	GLY
74	Bo	68	ALA
75	Bp	20	ALA
75	Bp	63	SER
75	Bp	71	SER
75	Bp	76	ASN
76	Bq	6	PRO
76	Bq	35	ILE
76	Bq	38	ASN
76	Bq	39	GLU
76	Bq	40	LYS
77	Br	13	SER
77	Br	59	MET
77	Br	93	ASN
77	Br	94	MET
77	Br	143	ILE
77	Br	206	PRO
77	Br	216	THR
77	Br	228	ALA
77	Br	230	VAL
77	Br	278	PRO
77	Br	293	SER
77	Br	300	LEU
77	Br	304	LYS
77	Br	308	LYS
77	Br	344	GLN
77	Br	366	ASN

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Mol	Chain	Res	Type
78	Bs	3	GLU
79	Bt	5	PRO
79	Bt	14	ASP
79	Bt	17	CYS
79	Bt	33	ALA
79	Bt	48	SER
79	Bt	62	ALA
79	Bt	92	GLU
80	Bu	57	ASN
80	Bu	58	ARG
80	Bu	121	GLY
80	Bu	142	ASP
80	Bu	146	PHE
80	Bu	227	GLU
80	Bu	229	THR
80	Bu	239	LYS
80	Bu	264	ARG
80	Bu	269	ARG
80	Bu	299	VAL
81	Bv	10	GLU
81	Bv	18	ARG
81	Bv	59	PRO
81	Bv	170	GLU
81	Bv	177	SER
81	Bv	179	PHE
81	Bv	185	ASP
82	Bw	4	THR
82	Bw	15	VAL
82	Bw	19	LYS
82	Bw	22	PRO
82	Bw	29	LYS
82	Bw	225	PRO
82	Bw	235	HIS
82	Bw	242	TYR
83	Bx	44	PRO
83	Bx	47	PHE
83	Bx	49	ILE
83	Bx	52	ASP
83	Bx	56	ALA
83	Bx	90	GLN
83	Bx	195	ASP
83	Bx	216	VAL

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Mol	Chain	Res	Type
83	Bx	271	ALA
83	Bx	272	ALA
84	By	7	ASP
84	By	8	GLN
84	By	12	PRO
84	By	19	VAL
84	By	43	ASP
84	By	57	ARG
84	By	59	PHE
1	A0	53	GLY
1	A0	108	THR
2	A1	32	PRO
2	A1	33	HIS
2	A1	134	PRO
2	A1	151	THR
2	A1	245	ASN
3	A2	38	SER
3	A2	54	ILE
3	A2	150	ARG
4	A3	29	GLY
4	A3	45	ALA
4	A3	123	PRO
4	A3	136	LEU
4	A3	151	GLY
4	A3	155	ASP
5	A4	47	HIS
5	A4	61	LYS
5	A4	105	THR
6	A5	9	HIS
6	A5	13	ILE
6	A5	16	GLY
6	A5	22	ARG
6	A5	168	HIS
7	A6	17	PRO
7	A6	97	SER
7	A6	135	VAL
7	A6	145	PHE
7	A6	186	GLY
8	A7	50	HIS
8	A7	55	SER
8	A7	154	TRP
9	A8	22	CYS

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Mol	Chain	Res	Type
10	A9	129	GLY
11	AC	43	VAL
11	AC	79	SER
11	AC	176	VAL
11	AC	203	GLY
12	AD	88	TYR
12	AD	92	ASP
12	AD	95	PRO
12	AD	103	LYS
13	AE	24	TYR
13	AE	55	GLY
13	AE	75	PRO
13	AE	173	LYS
16	AH	41	SER
17	AI	55	HIS
17	AI	74	VAL
17	AI	81	LYS
18	AJ	82	THR
18	AJ	98	GLN
19	AK	30	ALA
19	AK	49	THR
20	AL	99	ILE
20	AL	122	PRO
21	AM	85	LEU
21	AM	120	ALA
21	AM	133	ARG
21	AM	145	LYS
21	AM	149	VAL
22	AO	57	SER
22	AO	64	PRO
22	AO	159	LYS
22	AO	164	THR
23	AP	68	SER
23	AP	82	ARG
23	AP	117	GLY
23	AP	188	ILE
23	AP	215	ARG
24	AQ	65	THR
25	AR	12	VAL
25	AR	81	GLY
26	AS	37	LYS
26	AS	105	PHE

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Mol	Chain	Res	Type
26	AS	126	SER
27	AT	10	VAL
27	AT	115	LYS
28	AU	33	TRP
28	AU	75	LEU
28	AU	101	SER
29	AV	6	ARG
29	AV	28	CYS
29	AV	49	GLN
29	AV	64	SER
29	AV	88	VAL
30	AW	52	THR
31	AX	93	ARG
31	AX	194	ILE
33	AZ	82	GLY
42	BI	10	LYS
42	BI	99	MET
42	BI	168	HIS
44	BK	10	ARG
44	BK	14	ASN
44	BK	57	LEU
44	BK	108	ALA
44	BK	115	MET
44	BK	160	PRO
45	BL	154	ARG
45	BL	159	HIS
46	BM	40	LYS
47	BN	78	ARG
47	BN	130	LEU
47	BN	139	GLN
47	BN	156	SER
47	BN	172	GLU
47	BN	202	ALA
48	BO	85	LYS
48	BO	91	HIS
48	BO	142	ALA
48	BO	210	GLN
49	BP	33	ALA
49	BP	92	VAL
49	BP	159	ALA
49	BP	184	VAL
50	BQ	51	HIS

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Mol	Chain	Res	Type
50	BQ	72	THR
50	BQ	99	GLY
50	BQ	108	GLY
50	BQ	130	LEU
50	BQ	154	PRO
50	BQ	174	LYS
50	BQ	214	ARG
51	BR	8	PRO
51	BR	41	LEU
51	BR	65	GLY
52	BS	26	VAL
52	BS	138	ARG
52	BS	178	VAL
53	BT	55	VAL
53	BT	74	ARG
53	BT	77	GLY
54	BU	18	LYS
54	BU	131	SER
54	BU	141	LYS
54	BU	145	VAL
54	BU	157	ILE
55	BV	44	LEU
55	BV	61	LYS
56	BW	4	ASP
56	BW	8	VAL
56	BW	18	ALA
56	BW	72	ARG
56	BW	118	GLY
56	BW	136	PRO
57	BX	47	LYS
59	BZ	7	ARG
59	BZ	50	ASP
60	Ba	3	PHE
60	Ba	18	ALA
60	Ba	34	GLU
60	Ba	54	ARG
60	Ba	60	SER
61	Bb	15	THR
61	Bb	32	ARG
61	Bb	51	GLY
61	Bb	65	LYS
61	Bb	113	GLY

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Mol	Chain	Res	Type
62	Bc	39	THR
62	Bc	59	ARG
62	Bc	97	ASP
63	Bd	23	PRO
63	Bd	24	PRO
63	Bd	29	MET
64	Be	117	GLU
64	Be	118	ALA
64	Be	162	CYS
64	Be	173	GLY
64	Be	180	LEU
64	Be	216	HIS
65	Bf	242	GLY
65	Bf	268	SER
65	Bf	295	PRO
65	Bf	304	LYS
65	Bf	315	ARG
65	Bf	420	SER
65	Bf	444	ASP
67	Bh	3	ARG
67	Bh	44	LYS
67	Bh	56	VAL
67	Bh	99	ARG
67	Bh	124	ASP
67	Bh	160	GLY
67	Bh	162	LYS
69	Bj	48	VAL
69	Bj	56	GLY
69	Bj	115	GLN
70	Bk	103	GLU
70	Bk	126	LYS
71	Bl	103	SER
72	Bm	8	ALA
72	Bm	22	GLY
72	Bm	25	THR
72	Bm	34	SER
72	Bm	40	LEU
72	Bm	78	LEU
73	Bn	41	ARG
73	Bn	81	ASP
74	Bo	5	THR
74	Bo	8	MET

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Mol	Chain	Res	Type
74	Bo	40	SER
74	Bo	72	SER
74	Bo	92	SER
75	Bp	18	LYS
75	Bp	60	ILE
75	Bp	72	ARG
76	Bq	22	PRO
76	Bq	47	THR
77	Br	14	GLU
77	Br	63	ALA
77	Br	217	ARG
77	Br	232	SER
77	Br	269	SER
77	Br	314	ARG
78	Bs	34	CYS
79	Bt	75	SER
79	Bt	103	ASP
79	Bt	104	PRO
80	Bu	8	LYS
80	Bu	115	LEU
80	Bu	132	VAL
80	Bu	139	GLN
80	Bu	154	VAL
80	Bu	160	THR
80	Bu	194	ASP
80	Bu	298	ALA
81	Bv	41	GLY
82	Bw	6	LEU
82	Bw	94	ALA
82	Bw	97	LYS
82	Bw	174	GLN
82	Bw	234	ARG
82	Bw	240	GLY
82	Bw	241	ASP
83	Bx	42	ALA
83	Bx	95	LEU
83	Bx	136	THR
83	Bx	139	THR
83	Bx	246	TRP
83	Bx	263	ARG
83	Bx	267	ALA
84	By	5	SER

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Mol	Chain	Res	Type
84	By	21	ASP
84	By	45	ARG
84	By	105	ASN
84	By	168	LYS
1	A0	34	ALA
1	A0	36	LYS
1	A0	78	ASN
1	A0	206	ILE
1	A0	226	ASP
2	A1	19	LYS
3	A2	36	PRO
3	A2	173	SER
5	A4	100	ALA
5	A4	120	SER
6	A5	33	PRO
6	A5	38	LEU
6	A5	156	SER
7	A6	117	LEU
8	A7	11	GLY
8	A7	28	ALA
8	A7	65	GLY
8	A7	239	PRO
8	A7	276	PRO
9	A8	35	TYR
10	A9	92	ARG
10	A9	124	PRO
11	AC	58	HIS
11	AC	102	ALA
11	AC	140	ILE
11	AC	164	ARG
12	AD	29	PRO
12	AD	31	GLY
12	AD	35	GLY
12	AD	45	PRO
12	AD	67	ALA
13	AE	38	SER
13	AE	69	TYR
13	AE	164	ALA
14	AF	76	TYR
16	AH	29	SER
16	AH	40	MET
16	AH	59	ARG

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Mol	Chain	Res	Type
16	AH	92	ALA
16	AH	131	ASP
17	AI	78	GLU
18	AJ	59	GLY
19	AK	5	LYS
20	AL	6	THR
20	AL	65	PRO
20	AL	92	ASP
21	AM	28	PRO
22	AO	163	GLU
23	AP	70	PRO
23	AP	185	GLY
23	AP	240	TRP
23	AP	248	ASP
25	AR	15	ASP
26	AS	135	ARG
27	AT	65	PHE
27	AT	103	MET
27	AT	107	LYS
29	AV	5	ARG
29	AV	100	TYR
30	AW	53	SER
30	AW	83	LYS
31	AX	61	LYS
32	AY	10	ARG
42	BI	5	LEU
42	BI	8	VAL
42	BI	61	PRO
42	BI	149	ARG
42	BI	152	GLY
43	BJ	11	GLU
43	BJ	27	GLU
43	BJ	45	ARG
43	BJ	146	LEU
44	BK	100	ASN
44	BK	169	LYS
45	BL	17	ARG
45	BL	115	GLU
45	BL	147	HIS
46	BM	60	CYS
47	BN	104	ARG
47	BN	175	ARG

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Mol	Chain	Res	Type
47	BN	180	GLU
48	BO	132	ARG
48	BO	166	TRP
48	BO	199	ASN
48	BO	205	LEU
48	BO	209	PRO
49	BP	17	ARG
50	BQ	74	GLN
50	BQ	129	ASN
50	BQ	203	PRO
51	BR	5	SER
52	BS	68	ASP
52	BS	84	SER
53	BT	133	ARG
54	BU	22	HIS
54	BU	32	THR
54	BU	124	PRO
56	BW	138	ILE
57	BX	57	PRO
57	BX	63	PRO
57	BX	66	VAL
57	BX	102	ASN
58	BY	10	HIS
58	BY	64	ARG
58	BY	71	VAL
61	Bb	116	GLN
62	Bc	65	LYS
62	Bc	67	GLY
62	Bc	87	LYS
62	Bc	103	ALA
63	Bd	25	LEU
63	Bd	35	GLY
64	Be	77	VAL
64	Be	212	GLY
65	Bf	65	LEU
65	Bf	82	SER
65	Bf	314	SER
65	Bf	353	THR
65	Bf	443	LYS
67	Bh	27	ALA
68	Bi	14	ARG
68	Bi	20	ARG

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Mol	Chain	Res	Type
68	Bi	25	LEU
68	Bi	49	GLY
68	Bi	59	GLY
68	Bi	126	LYS
69	Bj	7	GLN
70	Bk	77	LYS
71	Bl	97	LYS
72	Bm	7	GLU
72	Bm	23	TYR
72	Bm	77	ALA
73	Bn	32	GLU
74	Bo	51	ALA
77	Br	91	PHE
77	Br	110	TRP
77	Br	146	VAL
77	Br	220	ARG
77	Br	233	LEU
77	Br	309	ARG
79	Bt	6	LYS
79	Bt	58	PHE
80	Bu	92	LEU
80	Bu	120	VAL
80	Bu	131	ALA
80	Bu	144	SER
80	Bu	163	ALA
80	Bu	222	SER
80	Bu	262	LYS
80	Bu	283	LEU
81	Bv	28	LYS
82	Bw	111	PRO
82	Bw	233	ARG
83	Bx	114	THR
84	By	13	GLU
84	By	175	ASP
1	A0	79	GLU
1	A0	208	PRO
2	A1	51	TYR
2	A1	139	HIS
2	A1	147	PRO
4	A3	20	ASP
4	A3	90	GLY
4	A3	153	THR

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Mol	Chain	Res	Type
5	A4	113	LYS
7	A6	16	ARG
7	A6	133	ILE
8	A7	194	GLY
12	AD	2	THR
12	AD	44	LEU
12	AD	102	HIS
13	AE	19	GLN
13	AE	70	ILE
13	AE	80	VAL
15	AG	26	LEU
15	AG	107	LYS
17	AI	132	PRO
17	AI	133	VAL
18	AJ	3	MET
19	AK	32	GLN
19	AK	133	LYS
19	AK	148	TYR
20	AL	24	LEU
21	AM	129	GLY
21	AM	134	GLY
21	AM	142	ARG
22	AO	98	SER
23	AP	183	PRO
23	AP	234	PHE
24	AQ	49	GLY
24	AQ	66	PRO
25	AR	47	ASN
25	AR	85	ILE
26	AS	110	HIS
27	AT	37	TRP
27	AT	110	ALA
27	AT	131	LYS
28	AU	80	ALA
30	AW	3	PHE
31	AX	58	LEU
32	AY	22	SER
32	AY	46	ALA
42	BI	134	ALA
44	BK	13	LYS
44	BK	206	ILE
45	BL	70	GLU

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Mol	Chain	Res	Type
46	BM	90	ARG
46	BM	93	LYS
46	BM	141	CYS
47	BN	8	ILE
47	BN	13	GLN
47	BN	16	HIS
47	BN	28	LYS
47	BN	188	LYS
49	BP	136	PRO
50	BQ	31	LYS
50	BQ	143	THR
50	BQ	176	ARG
52	BS	146	PRO
52	BS	162	ARG
52	BS	176	ALA
54	BU	81	ARG
55	BV	45	SER
55	BV	60	ARG
55	BV	115	ASP
56	BW	44	TYR
56	BW	93	THR
58	BY	17	HIS
58	BY	87	VAL
59	BZ	56	LYS
60	Ba	57	SER
60	Ba	91	GLU
62	Bc	40	LYS
62	Bc	42	GLN
62	Bc	74	LYS
64	Be	83	PHE
64	Be	120	VAL
64	Be	229	ALA
65	Bf	60	PRO
65	Bf	66	GLY
65	Bf	148	VAL
65	Bf	174	LYS
65	Bf	322	ARG
65	Bf	347	MET
65	Bf	350	ASN
65	Bf	351	GLN
65	Bf	354	THR
65	Bf	390	ARG

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Mol	Chain	Res	Type
67	Bh	161	GLY
68	Bi	10	ILE
68	Bi	100	THR
70	Bk	107	LYS
71	Bl	51	LEU
71	Bl	87	TYR
71	Bl	88	LYS
71	Bl	119	SER
73	Bn	20	ARG
74	Bo	46	ALA
75	Bp	30	LYS
77	Br	147	ALA
77	Br	174	GLY
77	Br	176	ILE
80	Bu	5	LYS
80	Bu	260	PRO
81	Bv	7	LYS
82	Bw	43	LYS
83	Bx	249	LEU
84	By	22	ARG
2	A1	74	ARG
2	A1	92	THR
2	A1	238	LYS
5	A4	37	LYS
5	A4	48	ILE
5	A4	104	ILE
5	A4	108	PRO
6	A5	35	ASN
8	A7	45	PRO
11	AC	109	ASP
11	AC	141	PRO
11	AC	195	ILE
14	AF	121	CYS
16	AH	121	ARG
17	AI	25	ARG
19	AK	142	THR
20	AL	66	VAL
20	AL	67	ARG
20	AL	85	VAL
22	AO	54	VAL
22	AO	63	ALA
23	AP	190	ALA

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Mol	Chain	Res	Type
23	AP	257	LEU
24	AQ	42	ASN
25	AR	17	TYR
27	AT	9	GLU
29	AV	90	ALA
31	AX	77	ASN
42	BI	15	VAL
42	BI	105	LEU
42	BI	139	THR
43	BJ	40	PRO
44	BK	15	LYS
44	BK	110	ARG
44	BK	131	ILE
47	BN	80	PHE
47	BN	103	ASP
47	BN	167	VAL
49	BP	152	LYS
49	BP	157	THR
49	BP	158	PRO
50	BQ	218	LEU
51	BR	10	VAL
51	BR	61	LYS
51	BR	78	GLN
52	BS	136	VAL
52	BS	137	ARG
52	BS	165	ARG
52	BS	168	PHE
54	BU	54	HIS
54	BU	142	LYS
56	BW	116	ILE
58	BY	37	ARG
59	BZ	57	ARG
61	Bb	70	LYS
61	Bb	91	LYS
61	Bb	115	LEU
64	Be	87	SER
64	Be	109	GLU
65	Bf	59	HIS
65	Bf	224	ASN
65	Bf	266	GLN
65	Bf	377	ASN
65	Bf	423	ILE

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Mol	Chain	Res	Type
65	Bf	430	THR
69	Bj	6	VAL
69	Bj	79	TYR
70	Bk	102	ASN
71	Bl	76	VAL
71	Bl	131	VAL
73	Bn	63	ARG
74	Bo	60	CYS
74	Bo	70	THR
75	Bp	48	ALA
75	Bp	80	PRO
77	Br	270	THR
80	Bu	38	LEU
80	Bu	245	MET
80	Bu	270	PRO
81	Bv	58	GLY
81	Bv	186	ALA
82	Bw	230	ARG
83	Bx	48	GLY
83	Bx	128	GLU
83	Bx	148	GLY
84	By	116	GLU
1	A0	223	PRO
2	A1	34	LYS
3	A2	172	ASN
4	A3	91	TYR
4	A3	135	ARG
6	A5	59	ARG
12	AD	30	LEU
16	AH	12	SER
17	AI	60	ALA
23	AP	230	LYS
32	AY	27	LYS
32	AY	61	PRO
42	BI	100	THR
47	BN	164	GLY
47	BN	165	GLY
49	BP	4	ALA
51	BR	68	GLY
57	BX	45	LYS
57	BX	54	PHE
57	BX	67	LYS

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Mol	Chain	Res	Type
61	Bb	118	PRO
62	Bc	37	ASN
65	Bf	298	THR
65	Bf	344	ALA
65	Bf	369	PHE
65	Bf	425	HIS
77	Br	98	GLY
77	Br	271	VAL
77	Br	310	PRO
81	Bv	187	PRO
82	Bw	227	GLY
83	Bx	273	ALA
84	By	112	ASN
2	A1	131	GLY
5	A4	18	PRO
5	A4	44	PRO
8	A7	138	VAL
13	AE	30	VAL
21	AM	13	ILE
23	AP	237	PRO
31	AX	59	GLY
31	AX	201	PRO
32	AY	21	VAL
42	BI	137	ALA
44	BK	204	GLY
46	BM	14	VAL
47	BN	29	VAL
69	Bj	37	GLY
69	Bj	162	ALA
71	Bl	66	VAL
73	Bn	62	GLY
74	Bo	52	VAL
76	Bq	24	PRO
77	Br	75	ILE
13	AE	34	ILE
26	AS	40	PRO
29	AV	79	ILE
44	BK	29	PRO
45	BL	15	PRO
46	BM	88	PRO
47	BN	53	PRO
52	BS	4	PRO

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Mol	Chain	Res	Type
52	BS	152	PRO
57	BX	62	ARG
60	Ba	61	ILE
65	Bf	229	VAL
65	Bf	305	VAL
72	Bm	41	PRO
74	Bo	67	GLY
80	Bu	207	GLY
81	Bv	16	VAL
82	Bw	45	ILE
83	Bx	94	VAL
7	A6	174	VAL
23	AP	45	PRO
33	AZ	83	PRO
51	BR	38	GLY
80	Bu	70	VAL
80	Bu	162	GLY
5	A4	99	VAL
13	AE	46	GLY
14	AF	105	GLY
15	AG	17	PRO
17	AI	61	PRO
21	AM	132	VAL
29	AV	92	PRO
49	BP	154	VAL
67	Bh	176	PRO
82	Bw	104	ILE
4	A3	179	ILE
23	AP	71	ILE
46	BM	104	ILE
81	Bv	54	LEU

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A0	189/218 (87%)	159 (84%)	30 (16%)	3 21
2	A1	209/231 (90%)	172 (82%)	37 (18%)	2 16
3	A2	158/160 (99%)	132 (84%)	26 (16%)	3 19
4	A3	207/207 (100%)	174 (84%)	33 (16%)	3 21
5	A4	176/187 (94%)	144 (82%)	32 (18%)	2 15
6	A5	158/180 (88%)	140 (89%)	18 (11%)	7 33
7	A6	162/166 (98%)	137 (85%)	25 (15%)	3 22
8	A7	264/267 (99%)	232 (88%)	32 (12%)	6 31
9	A8	36/49 (74%)	32 (89%)	4 (11%)	8 34
10	A9	57/126 (45%)	52 (91%)	5 (9%)	12 45
11	AC	179/243 (74%)	143 (80%)	36 (20%)	1 11
12	AD	92/131 (70%)	81 (88%)	11 (12%)	6 31
13	AE	143/156 (92%)	126 (88%)	17 (12%)	6 32
14	AF	102/120 (85%)	99 (97%)	3 (3%)	50 78
15	AG	124/131 (95%)	110 (89%)	14 (11%)	7 33
16	AH	95/112 (85%)	83 (87%)	12 (13%)	5 30
17	AI	110/128 (86%)	102 (93%)	8 (7%)	17 55
18	AJ	108/109 (99%)	90 (83%)	18 (17%)	3 19
19	AK	123/124 (99%)	105 (85%)	18 (15%)	4 24
20	AL	111/122 (91%)	101 (91%)	10 (9%)	12 44
21	AM	133/133 (100%)	121 (91%)	12 (9%)	12 44
22	AO	123/137 (90%)	107 (87%)	16 (13%)	5 29
23	AP	185/204 (91%)	154 (83%)	31 (17%)	2 19
24	AQ	94/104 (90%)	84 (89%)	10 (11%)	8 36
25	AR	66/150 (44%)	55 (83%)	11 (17%)	3 19
26	AS	117/118 (99%)	105 (90%)	12 (10%)	9 37
27	AT	110/116 (95%)	82 (74%)	28 (26%)	1 6
28	AU	73/94 (78%)	67 (92%)	6 (8%)	14 49
29	AV	87/97 (90%)	74 (85%)	13 (15%)	4 24
30	AW	71/75 (95%)	58 (82%)	13 (18%)	2 15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
31	AX	173/180 (96%)	155 (90%)	18 (10%)	9 37
32	AY	52/53 (98%)	41 (79%)	11 (21%)	1 10
33	AZ	57/84 (68%)	52 (91%)	5 (9%)	12 45
42	BI	164/165 (99%)	140 (85%)	24 (15%)	4 24
43	BJ	201/201 (100%)	189 (94%)	12 (6%)	24 61
44	BK	184/185 (100%)	154 (84%)	30 (16%)	3 20
45	BL	146/167 (87%)	120 (82%)	26 (18%)	2 16
46	BM	114/137 (83%)	106 (93%)	8 (7%)	19 56
47	BN	185/188 (98%)	142 (77%)	43 (23%)	1 7
48	BO	175/195 (90%)	150 (86%)	25 (14%)	4 25
49	BP	156/160 (98%)	139 (89%)	17 (11%)	8 35
50	BQ	176/193 (91%)	147 (84%)	29 (16%)	3 19
51	BR	132/144 (92%)	106 (80%)	26 (20%)	1 12
52	BS	160/160 (100%)	130 (81%)	30 (19%)	2 14
53	BT	170/198 (86%)	144 (85%)	26 (15%)	3 22
54	BU	133/134 (99%)	115 (86%)	18 (14%)	5 27
55	BV	95/116 (82%)	85 (90%)	10 (10%)	8 36
56	BW	107/108 (99%)	86 (80%)	21 (20%)	1 13
57	BX	108/136 (79%)	97 (90%)	11 (10%)	9 37
58	BY	85/102 (83%)	78 (92%)	7 (8%)	14 49
59	BZ	110/125 (88%)	98 (89%)	12 (11%)	8 35
60	Ba	116/117 (99%)	100 (86%)	16 (14%)	4 27
61	Bb	115/116 (99%)	95 (83%)	20 (17%)	2 17
62	Bc	124/130 (95%)	95 (77%)	29 (23%)	1 7
63	Bd	58/59 (98%)	54 (93%)	4 (7%)	19 57
64	Be	145/204 (71%)	122 (84%)	23 (16%)	3 21
65	Bf	349/360 (97%)	305 (87%)	44 (13%)	5 30
66	Bg	84/92 (91%)	72 (86%)	12 (14%)	4 25
67	Bh	162/162 (100%)	136 (84%)	26 (16%)	3 21
68	Bi	113/117 (97%)	96 (85%)	17 (15%)	3 23
69	Bj	130/137 (95%)	105 (81%)	25 (19%)	2 13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
70	Bk	75/114 (66%)	60 (80%)	15 (20%)	1 12
71	Bl	97/126 (77%)	81 (84%)	16 (16%)	3 19
72	Bm	87/90 (97%)	72 (83%)	15 (17%)	2 17
73	Bn	70/71 (99%)	55 (79%)	15 (21%)	1 10
74	Bo	74/76 (97%)	59 (80%)	15 (20%)	1 11
75	Bp	76/77 (99%)	68 (90%)	8 (10%)	8 36
76	Bq	46/47 (98%)	35 (76%)	11 (24%)	1 7
77	Br	304/310 (98%)	251 (83%)	53 (17%)	2 17
78	Bs	46/111 (41%)	38 (83%)	8 (17%)	2 17
79	Bt	94/95 (99%)	83 (88%)	11 (12%)	7 32
80	Bu	238/247 (96%)	199 (84%)	39 (16%)	3 20
81	Bv	132/160 (82%)	112 (85%)	20 (15%)	3 23
82	Bw	213/213 (100%)	176 (83%)	37 (17%)	2 17
83	Bx	203/229 (89%)	173 (85%)	30 (15%)	4 24
84	By	172/172 (100%)	138 (80%)	34 (20%)	1 12
All	All	10068/11158 (90%)	8575 (85%)	1493 (15%)	8 24

All (1493) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A0	33	VAL
1	A0	65	VAL
1	A0	79	GLU
1	A0	83	TYR
1	A0	96	ARG
1	A0	98	LEU
1	A0	106	ASP
1	A0	110	ASP
1	A0	113	TYR
1	A0	114	TYR
1	A0	116	LEU
1	A0	119	TRP
1	A0	121	THR
1	A0	127	VAL
1	A0	133	ASP
1	A0	142	ILE
1	A0	145	THR

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Mol	Chain	Res	Type
1	A0	150	ASN
1	A0	153	SER
1	A0	159	LYS
1	A0	165	TRP
1	A0	168	MET
1	A0	201	LYS
1	A0	204	ASN
1	A0	207	ILE
1	A0	211	ASP
1	A0	215	ARG
1	A0	221	ARG
1	A0	224	LYS
1	A0	231	ILE
2	A1	17	LEU
2	A1	21	THR
2	A1	23	VAL
2	A1	27	ARG
2	A1	35	LEU
2	A1	39	LEU
2	A1	45	ILE
2	A1	51	TYR
2	A1	56	LEU
2	A1	63	ARG
2	A1	68	CYS
2	A1	83	PHE
2	A1	89	ILE
2	A1	96	PHE
2	A1	101	ASP
2	A1	103	LYS
2	A1	111	VAL
2	A1	112	SER
2	A1	121	MET
2	A1	127	TYR
2	A1	128	THR
2	A1	139	HIS
2	A1	153	ARG
2	A1	157	LEU
2	A1	162	LYS
2	A1	168	ASP
2	A1	211	SER
2	A1	215	PHE
2	A1	221	ASN

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Mol	Chain	Res	Type
2	A1	227	LYS
2	A1	229	MET
2	A1	239	GLN
2	A1	242	LEU
2	A1	245	ASN
2	A1	246	VAL
2	A1	252	GLU
2	A1	253	LYS
3	A2	9	PHE
3	A2	20	THR
3	A2	27	TYR
3	A2	28	ILE
3	A2	30	ARG
3	A2	35	VAL
3	A2	37	HIS
3	A2	47	PHE
3	A2	52	ILE
3	A2	56	GLU
3	A2	60	ASN
3	A2	69	ASN
3	A2	72	LYS
3	A2	84	GLU
3	A2	94	PRO
3	A2	113	ARG
3	A2	120	VAL
3	A2	126	ASP
3	A2	128	SER
3	A2	130	MET
3	A2	139	LEU
3	A2	153	LYS
3	A2	174	TYR
3	A2	184	ARG
3	A2	187	LYS
3	A2	190	ARG
4	A3	7	TYR
4	A3	15	GLN
4	A3	19	THR
4	A3	21	GLU
4	A3	26	VAL
4	A3	32	ARG
4	A3	33	LEU
4	A3	54	ARG

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Mol	Chain	Res	Type
4	A3	57	SER
4	A3	59	LYS
4	A3	66	GLN
4	A3	80	ARG
4	A3	85	PHE
4	A3	88	PHE
4	A3	91	TYR
4	A3	95	ARG
4	A3	115	THR
4	A3	116	VAL
4	A3	122	GLN
4	A3	127	VAL
4	A3	134	ARG
4	A3	140	ARG
4	A3	152	ARG
4	A3	161	ILE
4	A3	173	ARG
4	A3	175	LYS
4	A3	177	PRO
4	A3	180	GLN
4	A3	194	LYS
4	A3	210	ARG
4	A3	215	LEU
4	A3	237	ASN
4	A3	239	GLN
5	A4	2	SER
5	A4	6	HIS
5	A4	10	LEU
5	A4	14	LYS
5	A4	27	ARG
5	A4	29	LEU
5	A4	30	PHE
5	A4	32	LEU
5	A4	49	ASN
5	A4	50	THR
5	A4	62	THR
5	A4	71	ARG
5	A4	79	ILE
5	A4	90	ARG
5	A4	97	VAL
5	A4	102	ARG
5	A4	105	THR

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Mol	Chain	Res	Type
5	A4	110	ASP
5	A4	112	TYR
5	A4	114	LEU
5	A4	116	GLN
5	A4	121	ARG
5	A4	130	ILE
5	A4	135	ILE
5	A4	138	CYS
5	A4	143	ARG
5	A4	162	ARG
5	A4	165	LYS
5	A4	178	TYR
5	A4	183	HIS
5	A4	191	MET
5	A4	192	TRP
6	A5	19	LYS
6	A5	31	ARG
6	A5	33	PRO
6	A5	35	ASN
6	A5	38	LEU
6	A5	42	ARG
6	A5	49	ARG
6	A5	56	ARG
6	A5	61	ASP
6	A5	69	THR
6	A5	70	GLU
6	A5	75	ARG
6	A5	77	ARG
6	A5	88	ASN
6	A5	127	LYS
6	A5	172	GLU
6	A5	202	LEU
6	A5	207	GLU
7	A6	2	ARG
7	A6	4	TYR
7	A6	14	PRO
7	A6	19	GLU
7	A6	22	ARG
7	A6	27	MET
7	A6	30	CYS
7	A6	36	ARG
7	A6	48	LEU

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Mol	Chain	Res	Type
7	A6	52	ARG
7	A6	60	THR
7	A6	86	ASP
7	A6	99	THR
7	A6	101	PRO
7	A6	104	LEU
7	A6	105	GLU
7	A6	122	HIS
7	A6	125	ARG
7	A6	139	ILE
7	A6	144	SER
7	A6	147	VAL
7	A6	148	ARG
7	A6	149	VAL
7	A6	173	ARG
7	A6	175	LYS
8	A7	10	THR
8	A7	13	ARG
8	A7	19	LEU
8	A7	34	THR
8	A7	56	TYR
8	A7	69	PHE
8	A7	70	VAL
8	A7	75	LEU
8	A7	80	ASN
8	A7	88	ASP
8	A7	91	LEU
8	A7	100	GLN
8	A7	104	LYS
8	A7	122	ARG
8	A7	130	ASP
8	A7	135	VAL
8	A7	158	VAL
8	A7	159	ARG
8	A7	160	PHE
8	A7	174	TRP
8	A7	198	TYR
8	A7	207	ASP
8	A7	211	CYS
8	A7	239	PRO
8	A7	252	MET
8	A7	253	CYS

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Mol	Chain	Res	Type
8	A7	276	PRO
8	A7	277	GLU
8	A7	278	HIS
8	A7	279	GLN
8	A7	300	LEU
8	A7	307	ASN
9	A8	23	VAL
9	A8	27	ASN
9	A8	28	GLN
9	A8	33	ARG
10	A9	91	HIS
10	A9	97	LYS
10	A9	120	ARG
10	A9	132	VAL
10	A9	152	MET
11	AC	46	MET
11	AC	49	SER
11	AC	57	MET
11	AC	63	THR
11	AC	65	ASN
11	AC	67	SER
11	AC	74	ILE
11	AC	77	ARG
11	AC	84	ILE
11	AC	91	TRP
11	AC	95	ILE
11	AC	96	LEU
11	AC	108	GLN
11	AC	116	ARG
11	AC	124	PHE
11	AC	126	PHE
11	AC	129	LEU
11	AC	144	PHE
11	AC	145	THR
11	AC	147	GLN
11	AC	160	VAL
11	AC	171	ARG
11	AC	177	ASN
11	AC	178	ILE
11	AC	194	ASP
11	AC	205	HIS
11	AC	207	ILE

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Mol	Chain	Res	Type
11	AC	211	TYR
11	AC	217	GLU
11	AC	221	LEU
11	AC	227	ARG
11	AC	237	LEU
11	AC	238	PHE
11	AC	239	PHE
11	AC	241	ARG
11	AC	242	ASP
12	AD	11	ASP
12	AD	17	PHE
12	AD	33	TRP
12	AD	36	THR
12	AD	41	THR
12	AD	47	LEU
12	AD	65	GLN
12	AD	80	ILE
12	AD	89	LEU
12	AD	95	PRO
12	AD	102	HIS
13	AE	18	VAL
13	AE	27	GLN
13	AE	39	LYS
13	AE	58	PHE
13	AE	65	ILE
13	AE	70	ILE
13	AE	80	VAL
13	AE	83	ARG
13	AE	85	ARG
13	AE	96	MET
13	AE	117	GLN
13	AE	135	PRO
13	AE	143	GLN
13	AE	153	TYR
13	AE	154	ASN
13	AE	172	SER
13	AE	173	LYS
14	AF	39	LYS
14	AF	72	GLU
14	AF	123	CYS
15	AG	4	MET
15	AG	23	PRO

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Mol	Chain	Res	Type
15	AG	46	SER
15	AG	52	MET
15	AG	53	GLN
15	AG	55	ARG
15	AG	64	LYS
15	AG	65	ASN
15	AG	71	ILE
15	AG	75	LEU
15	AG	97	GLN
15	AG	115	LEU
15	AG	131	ARG
15	AG	141	TYR
16	AH	23	VAL
16	AH	32	ASP
16	AH	43	ARG
16	AH	56	LYS
16	AH	59	ARG
16	AH	69	MET
16	AH	73	ASP
16	AH	75	VAL
16	AH	81	CYS
16	AH	123	GLU
16	AH	126	THR
16	AH	130	THR
17	AI	55	HIS
17	AI	97	VAL
17	AI	104	TYR
17	AI	107	ARG
17	AI	119	ILE
17	AI	130	TYR
17	AI	131	LYS
17	AI	137	ARG
18	AJ	20	ARG
18	AJ	23	ARG
18	AJ	39	GLN
18	AJ	41	MET
18	AJ	49	GLU
18	AJ	51	GLU
18	AJ	52	ILE
18	AJ	54	ASP
18	AJ	57	ARG
18	AJ	60	LYS

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Mol	Chain	Res	Type
18	AJ	81	CYS
18	AJ	85	ASP
18	AJ	98	GLN
18	AJ	104	LEU
18	AJ	106	THR
18	AJ	108	LEU
18	AJ	111	MET
18	AJ	112	ASP
19	AK	5	LYS
19	AK	11	GLN
19	AK	12	VAL
19	AK	28	THR
19	AK	40	VAL
19	AK	49	THR
19	AK	61	VAL
19	AK	72	ASP
19	AK	74	ARG
19	AK	78	SER
19	AK	80	GLN
19	AK	81	VAL
19	AK	89	GLN
19	AK	115	TYR
19	AK	121	PHE
19	AK	124	ILE
19	AK	129	ARG
19	AK	141	ARG
20	AL	5	ARG
20	AL	17	VAL
20	AL	21	PHE
20	AL	29	TYR
20	AL	55	THR
20	AL	71	LEU
20	AL	73	LEU
20	AL	75	GLU
20	AL	92	ASP
20	AL	100	ARG
21	AM	28	PRO
21	AM	40	ARG
21	AM	60	LEU
21	AM	87	ARG
21	AM	107	ARG
21	AM	121	HIS

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Mol	Chain	Res	Type
21	AM	122	ARG
21	AM	126	HIS
21	AM	132	VAL
21	AM	133	ARG
21	AM	139	THR
21	AM	140	SER
22	AO	45	MET
22	AO	46	MET
22	AO	52	GLU
22	AO	62	ARG
22	AO	73	ARG
22	AO	74	CYS
22	AO	87	VAL
22	AO	95	ARG
22	AO	96	PHE
22	AO	106	PRO
22	AO	108	ILE
22	AO	140	VAL
22	AO	143	LEU
22	AO	160	MET
22	AO	163	GLU
22	AO	167	LYS
23	AP	43	TRP
23	AP	44	VAL
23	AP	51	ARG
23	AP	62	GLU
23	AP	69	MET
23	AP	74	HIS
23	AP	75	GLN
23	AP	77	VAL
23	AP	78	ASP
23	AP	90	MET
23	AP	97	GLN
23	AP	105	ARG
23	AP	112	ASN
23	AP	133	LEU
23	AP	139	MET
23	AP	160	GLU
23	AP	168	VAL
23	AP	178	ARG
23	AP	183	PRO
23	AP	193	VAL

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Mol	Chain	Res	Type
23	AP	206	VAL
23	AP	210	SER
23	AP	217	ARG
23	AP	232	TYR
23	AP	236	THR
23	AP	238	ASP
23	AP	239	LEU
23	AP	245	VAL
23	AP	247	ARG
23	AP	256	PHE
23	AP	259	MET
24	AQ	16	ARG
24	AQ	21	MET
24	AQ	24	ARG
24	AQ	37	LEU
24	AQ	38	LEU
24	AQ	47	LEU
24	AQ	48	ARG
24	AQ	52	ARG
24	AQ	76	THR
24	AQ	114	PRO
25	AR	15	ASP
25	AR	29	ILE
25	AR	32	PHE
25	AR	39	ILE
25	AR	46	PRO
25	AR	49	VAL
25	AR	51	ASP
25	AR	59	ILE
25	AR	73	ILE
25	AR	78	ILE
25	AR	85	ILE
26	AS	4	THR
26	AS	7	GLN
26	AS	20	ASN
26	AS	30	SER
26	AS	39	ASN
26	AS	55	ILE
26	AS	66	ILE
26	AS	88	ASP
26	AS	101	LEU
26	AS	120	PHE

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Mol	Chain	Res	Type
26	AS	123	VAL
26	AS	134	TYR
27	AT	7	LYS
27	AT	9	GLU
27	AT	11	THR
27	AT	13	ARG
27	AT	15	SER
27	AT	25	ARG
27	AT	26	LYS
27	AT	31	GLU
27	AT	34	HIS
27	AT	35	PRO
27	AT	37	TRP
27	AT	38	CYS
27	AT	40	THR
27	AT	42	PRO
27	AT	48	ASN
27	AT	50	LEU
27	AT	59	GLU
27	AT	65	PHE
27	AT	67	PHE
27	AT	76	THR
27	AT	89	MET
27	AT	103	MET
27	AT	111	ARG
27	AT	118	ARG
27	AT	129	LYS
27	AT	132	MET
27	AT	133	GLN
27	AT	134	THR
28	AU	34	SER
28	AU	72	SER
28	AU	95	ILE
28	AU	105	ARG
28	AU	106	VAL
28	AU	108	THR
29	AV	5	ARG
29	AV	12	LYS
29	AV	17	ARG
29	AV	19	ARG
29	AV	28	CYS
29	AV	44	ARG

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Mol	Chain	Res	Type
29	AV	57	GLU
29	AV	61	ILE
29	AV	66	PHE
29	AV	68	MET
29	AV	74	LYS
29	AV	78	CYS
29	AV	94	GLU
30	AW	3	PHE
30	AW	4	PHE
30	AW	11	PRO
30	AW	14	ARG
30	AW	20	HIS
30	AW	23	ARG
30	AW	25	LEU
30	AW	30	ASN
30	AW	35	ASP
30	AW	48	TYR
30	AW	57	CYS
30	AW	66	ARG
30	AW	83	LYS
31	AX	10	MET
31	AX	22	GLU
31	AX	36	VAL
31	AX	37	GLU
31	AX	39	ARG
31	AX	43	THR
31	AX	51	SER
31	AX	54	THR
31	AX	66	ARG
31	AX	72	LEU
31	AX	75	ARG
31	AX	108	LEU
31	AX	136	THR
31	AX	144	GLN
31	AX	147	LYS
31	AX	152	ARG
31	AX	156	MET
31	AX	201	PRO
32	AY	4	VAL
32	AY	18	THR
32	AY	25	GLU
32	AY	26	LYS

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Mol	Chain	Res	Type
32	AY	31	ARG
32	AY	36	LYS
32	AY	38	LEU
32	AY	41	THR
32	AY	49	LEU
32	AY	59	LYS
32	AY	60	GLN
33	AZ	55	ASN
33	AZ	57	THR
33	AZ	64	MET
33	AZ	86	GLU
33	AZ	97	ARG
42	BI	13	ARG
42	BI	32	LEU
42	BI	48	ILE
42	BI	57	ASN
42	BI	69	VAL
42	BI	70	CYS
42	BI	72	ARG
42	BI	75	THR
42	BI	77	TRP
42	BI	80	LYS
42	BI	95	ASP
42	BI	96	ASP
42	BI	101	ARG
42	BI	108	CYS
42	BI	112	PHE
42	BI	115	SER
42	BI	119	ARG
42	BI	143	THR
42	BI	144	MET
42	BI	147	ARG
42	BI	151	SER
42	BI	171	PRO
42	BI	179	GLU
42	BI	193	LYS
43	BJ	30	ASP
43	BJ	38	TYR
43	BJ	41	GLN
43	BJ	60	MET
43	BJ	63	CYS
43	BJ	78	ASP

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Mol	Chain	Res	Type
43	BJ	93	ASN
43	BJ	94	LYS
43	BJ	95	LYS
43	BJ	159	VAL
43	BJ	177	ARG
43	BJ	188	VAL
44	BK	8	CYS
44	BK	14	ASN
44	BK	17	TYR
44	BK	24	ARG
44	BK	30	ARG
44	BK	49	CYS
44	BK	53	VAL
44	BK	54	SER
44	BK	59	GLN
44	BK	69	ARG
44	BK	86	HIS
44	BK	87	MET
44	BK	90	ARG
44	BK	99	ILE
44	BK	101	LYS
44	BK	102	MET
44	BK	103	LEU
44	BK	115	MET
44	BK	121	LYS
44	BK	128	ARG
44	BK	142	ASP
44	BK	143	THR
44	BK	151	SER
44	BK	153	ARG
44	BK	169	LYS
44	BK	177	LEU
44	BK	185	ARG
44	BK	191	GLN
44	BK	196	HIS
44	BK	200	ILE
45	BL	17	ARG
45	BL	21	VAL
45	BL	24	LEU
45	BL	25	CYS
45	BL	51	THR
45	BL	53	VAL

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Mol	Chain	Res	Type
45	BL	58	ARG
45	BL	67	ARG
45	BL	74	VAL
45	BL	77	THR
45	BL	88	GLU
45	BL	113	ILE
45	BL	117	ILE
45	BL	132	MET
45	BL	133	ASP
45	BL	140	ARG
45	BL	141	ARG
45	BL	148	ARG
45	BL	151	ARG
45	BL	153	SER
45	BL	157	PHE
45	BL	159	HIS
45	BL	162	ARG
45	BL	167	MET
45	BL	175	ASP
45	BL	180	GLN
46	BM	9	GLN
46	BM	12	THR
46	BM	45	ASP
46	BM	67	ARG
46	BM	80	ARG
46	BM	87	GLU
46	BM	99	LYS
46	BM	100	HIS
47	BN	6	ASN
47	BN	10	HIS
47	BN	11	VAL
47	BN	14	ARG
47	BN	16	HIS
47	BN	23	GLN
47	BN	28	LYS
47	BN	32	ASN
47	BN	52	PHE
47	BN	62	GLN
47	BN	64	ASN
47	BN	65	CYS
47	BN	66	PRO
47	BN	71	ASN

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Mol	Chain	Res	Type
47	BN	72	MET
47	BN	74	ARG
47	BN	78	ARG
47	BN	80	PHE
47	BN	84	GLU
47	BN	91	LYS
47	BN	93	ARG
47	BN	96	ARG
47	BN	103	ASP
47	BN	104	ARG
47	BN	105	ARG
47	BN	111	GLU
47	BN	112	GLU
47	BN	114	MET
47	BN	119	GLN
47	BN	126	SER
47	BN	135	ARG
47	BN	149	LYS
47	BN	158	TYR
47	BN	167	VAL
47	BN	171	ARG
47	BN	177	VAL
47	BN	189	PHE
47	BN	192	LYS
47	BN	193	ASN
47	BN	194	HIS
47	BN	204	ASN
47	BN	210	LYS
47	BN	214	GLU
48	BO	23	ASP
48	BO	25	ILE
48	BO	34	LEU
48	BO	56	CYS
48	BO	67	ARG
48	BO	75	PHE
48	BO	99	ILE
48	BO	103	ARG
48	BO	112	ARG
48	BO	132	ARG
48	BO	137	VAL
48	BO	140	PRO
48	BO	144	ARG

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Mol	Chain	Res	Type
48	BO	155	THR
48	BO	162	LYS
48	BO	176	GLU
48	BO	179	ARG
48	BO	189	LYS
48	BO	193	VAL
48	BO	197	TRP
48	BO	201	ARG
48	BO	202	LYS
48	BO	206	LYS
48	BO	207	LYS
48	BO	208	MET
49	BP	8	ARG
49	BP	13	VAL
49	BP	17	ARG
49	BP	19	PRO
49	BP	20	ARG
49	BP	38	VAL
49	BP	59	LEU
49	BP	62	CYS
49	BP	66	SER
49	BP	69	CYS
49	BP	74	LEU
49	BP	112	GLN
49	BP	120	ARG
49	BP	128	PHE
49	BP	133	LYS
49	BP	140	HIS
49	BP	183	LYS
50	BQ	20	SER
50	BQ	24	LEU
50	BQ	35	VAL
50	BQ	40	GLN
50	BQ	48	ARG
50	BQ	63	GLU
50	BQ	64	LYS
50	BQ	66	ARG
50	BQ	67	MET
50	BQ	68	VAL
50	BQ	72	THR
50	BQ	88	ARG
50	BQ	92	VAL

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Mol	Chain	Res	Type
50	BQ	94	LYS
50	BQ	102	ASN
50	BQ	106	VAL
50	BQ	112	ASN
50	BQ	137	TRP
50	BQ	145	LEU
50	BQ	153	ASP
50	BQ	172	VAL
50	BQ	178	GLN
50	BQ	188	HIS
50	BQ	189	ARG
50	BQ	192	ARG
50	BQ	211	ARG
50	BQ	219	ARG
50	BQ	220	LYS
50	BQ	221	ARG
51	BR	8	PRO
51	BR	9	GLN
51	BR	12	SER
51	BR	14	THR
51	BR	28	ASN
51	BR	41	LEU
51	BR	49	ARG
51	BR	55	THR
51	BR	56	ARG
51	BR	59	PRO
51	BR	61	LYS
51	BR	62	ARG
51	BR	66	LYS
51	BR	69	ASN
51	BR	75	GLU
51	BR	78	GLN
51	BR	79	THR
51	BR	103	ILE
51	BR	112	MET
51	BR	125	VAL
51	BR	127	ARG
51	BR	139	TYR
51	BR	141	ARG
51	BR	144	CYS
51	BR	147	GLN
51	BR	149	PHE

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Mol	Chain	Res	Type
52	BS	2	VAL
52	BS	3	ARG
52	BS	6	LEU
52	BS	11	VAL
52	BS	14	ARG
52	BS	16	THR
52	BS	42	ARG
52	BS	46	MET
52	BS	48	ARG
52	BS	53	VAL
52	BS	57	HIS
52	BS	64	LYS
52	BS	66	VAL
52	BS	68	ASP
52	BS	70	LYS
52	BS	71	LEU
52	BS	82	TYR
52	BS	86	ARG
52	BS	89	TYR
52	BS	90	THR
52	BS	92	MET
52	BS	110	ASN
52	BS	117	ARG
52	BS	121	HIS
52	BS	137	ARG
52	BS	145	HIS
52	BS	151	PHE
52	BS	158	VAL
52	BS	162	ARG
52	BS	175	ARG
53	BT	4	LEU
53	BT	6	LEU
53	BT	7	GLN
53	BT	16	ARG
53	BT	21	ARG
53	BT	26	PRO
53	BT	37	SER
53	BT	39	LYS
53	BT	42	ARG
53	BT	43	LYS
53	BT	63	TRP
53	BT	74	ARG

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Mol	Chain	Res	Type
53	BT	78	THR
53	BT	81	ARG
53	BT	89	MET
53	BT	90	PRO
53	BT	95	TRP
53	BT	99	LEU
53	BT	110	ARG
53	BT	113	LYS
53	BT	116	ASP
53	BT	137	ASN
53	BT	144	LYS
53	BT	154	GLN
53	BT	175	LYS
53	BT	185	ARG
54	BU	7	TYR
54	BU	12	ARG
54	BU	13	HIS
54	BU	19	PHE
54	BU	30	ILE
54	BU	61	THR
54	BU	65	TRP
54	BU	69	PRO
54	BU	75	ILE
54	BU	86	ARG
54	BU	87	LYS
54	BU	88	ARG
54	BU	97	ARG
54	BU	113	GLU
54	BU	115	PHE
54	BU	127	PRO
54	BU	149	ARG
54	BU	153	TYR
55	BV	23	LYS
55	BV	27	LYS
55	BV	31	SER
55	BV	48	GLN
55	BV	54	ASN
55	BV	55	VAL
55	BV	86	ARG
55	BV	87	LYS
55	BV	93	LEU
55	BV	110	LEU

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Mol	Chain	Res	Type
56	BW	4	ASP
56	BW	13	PHE
56	BW	14	ARG
56	BW	16	SER
56	BW	37	TYR
56	BW	47	ARG
56	BW	50	ARG
56	BW	56	LEU
56	BW	59	MET
56	BW	73	ARG
56	BW	75	VAL
56	BW	77	ASN
56	BW	81	ILE
56	BW	84	ARG
56	BW	89	ARG
56	BW	97	PHE
56	BW	105	VAL
56	BW	106	ASN
56	BW	129	PRO
56	BW	131	ILE
56	BW	136	PRO
57	BX	62	ARG
57	BX	63	PRO
57	BX	71	ASN
57	BX	82	PHE
57	BX	95	MET
57	BX	109	ASP
57	BX	134	THR
57	BX	135	LEU
57	BX	143	LYS
57	BX	156	ASP
57	BX	160	LYS
58	BY	17	HIS
58	BY	22	VAL
58	BY	45	MET
58	BY	47	LYS
58	BY	60	ARG
58	BY	64	ARG
58	BY	67	THR
59	BZ	13	ARG
59	BZ	22	HIS
59	BZ	33	SER

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Mol	Chain	Res	Type
59	BZ	39	LYS
59	BZ	53	VAL
59	BZ	57	ARG
59	BZ	63	ARG
59	BZ	84	CYS
59	BZ	92	VAL
59	BZ	97	HIS
59	BZ	99	SER
59	BZ	105	LYS
60	Ba	3	PHE
60	Ba	8	LYS
60	Ba	30	THR
60	Ba	31	ARG
60	Ba	52	VAL
60	Ba	53	VAL
60	Ba	62	THR
60	Ba	63	ARG
60	Ba	80	LEU
60	Ba	82	THR
60	Ba	85	ASN
60	Ba	88	LEU
60	Ba	89	SER
60	Ba	96	ILE
60	Ba	100	ASP
60	Ba	132	ARG
61	Bb	4	ARG
61	Bb	7	LYS
61	Bb	11	GLN
61	Bb	16	PHE
61	Bb	22	VAL
61	Bb	25	HIS
61	Bb	40	HIS
61	Bb	48	TYR
61	Bb	49	HIS
61	Bb	58	MET
61	Bb	76	ASP
61	Bb	77	ASN
61	Bb	100	ASP
61	Bb	102	LEU
61	Bb	112	ASN
61	Bb	114	HIS
61	Bb	116	GLN

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Mol	Chain	Res	Type
61	Bb	124	ARG
61	Bb	128	LYS
61	Bb	135	ARG
62	Bc	10	LEU
62	Bc	12	VAL
62	Bc	13	ARG
62	Bc	21	LYS
62	Bc	28	SER
62	Bc	30	ASP
62	Bc	33	ASN
62	Bc	40	LYS
62	Bc	45	PHE
62	Bc	52	VAL
62	Bc	55	THR
62	Bc	58	ASP
62	Bc	69	THR
62	Bc	76	MET
62	Bc	77	TYR
62	Bc	79	LYS
62	Bc	83	GLU
62	Bc	84	PRO
62	Bc	89	SER
62	Bc	93	ARG
62	Bc	99	ARG
62	Bc	101	ASP
62	Bc	104	LYS
62	Bc	109	ARG
62	Bc	122	LYS
62	Bc	124	CYS
62	Bc	132	SER
62	Bc	135	HIS
62	Bc	138	ARG
63	Bd	10	HIS
63	Bd	24	PRO
63	Bd	26	PRO
63	Bd	28	TYR
64	Be	69	TYR
64	Be	71	ARG
64	Be	80	GLU
64	Be	83	PHE
64	Be	84	THR
64	Be	96	LEU

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Mol	Chain	Res	Type
64	Be	98	ILE
64	Be	100	ASN
64	Be	123	ARG
64	Be	132	ASP
64	Be	135	ILE
64	Be	140	ASN
64	Be	145	ARG
64	Be	146	THR
64	Be	148	LEU
64	Be	186	PHE
64	Be	192	LYS
64	Be	205	ASN
64	Be	208	GLU
64	Be	216	HIS
64	Be	234	LYS
64	Be	241	ARG
64	Be	242	ARG
65	Bf	56	LYS
65	Bf	58	GLU
65	Bf	73	SER
65	Bf	90	GLN
65	Bf	91	LYS
65	Bf	106	HIS
65	Bf	107	ILE
65	Bf	112	ASP
65	Bf	123	VAL
65	Bf	125	GLU
65	Bf	144	ARG
65	Bf	146	THR
65	Bf	147	PRO
65	Bf	152	THR
65	Bf	153	ILE
65	Bf	159	HIS
65	Bf	162	SER
65	Bf	164	GLU
65	Bf	165	PHE
65	Bf	168	ARG
65	Bf	169	PHE
65	Bf	184	ARG
65	Bf	223	ARG
65	Bf	238	GLN
65	Bf	240	ASN

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Mol	Chain	Res	Type
65	Bf	250	LEU
65	Bf	257	LYS
65	Bf	258	GLU
65	Bf	267	GLN
65	Bf	277	THR
65	Bf	288	ARG
65	Bf	296	ARG
65	Bf	298	THR
65	Bf	302	LEU
65	Bf	315	ARG
65	Bf	351	GLN
65	Bf	354	THR
65	Bf	363	ILE
65	Bf	364	THR
65	Bf	383	LYS
65	Bf	386	VAL
65	Bf	392	ARG
65	Bf	403	GLN
65	Bf	432	LYS
66	Bg	22	ASN
66	Bg	29	MET
66	Bg	36	LEU
66	Bg	45	LEU
66	Bg	52	LEU
66	Bg	58	ASN
66	Bg	62	ILE
66	Bg	77	PRO
66	Bg	81	TYR
66	Bg	96	PHE
66	Bg	97	ARG
66	Bg	102	SER
67	Bh	1	MET
67	Bh	15	LYS
67	Bh	25	LYS
67	Bh	35	ASP
67	Bh	41	VAL
67	Bh	53	TYR
67	Bh	59	THR
67	Bh	64	ARG
67	Bh	79	ARG
67	Bh	81	PRO
67	Bh	86	MET

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Mol	Chain	Res	Type
67	Bh	90	ILE
67	Bh	95	LEU
67	Bh	109	ILE
67	Bh	122	THR
67	Bh	126	ARG
67	Bh	131	LEU
67	Bh	133	THR
67	Bh	148	ARG
67	Bh	159	GLU
67	Bh	163	ARG
67	Bh	171	SER
67	Bh	174	PRO
67	Bh	176	PRO
67	Bh	180	ASN
67	Bh	184	LYS
68	Bi	4	PRO
68	Bi	5	PHE
68	Bi	9	ASN
68	Bi	13	LYS
68	Bi	15	THR
68	Bi	24	GLU
68	Bi	34	ARG
68	Bi	61	ASP
68	Bi	63	ARG
68	Bi	69	PRO
68	Bi	77	VAL
68	Bi	85	MET
68	Bi	88	MET
68	Bi	100	THR
68	Bi	101	VAL
68	Bi	106	ARG
68	Bi	122	ASN
69	Bj	2	SER
69	Bj	3	CYS
69	Bj	10	ARG
69	Bj	17	ARG
69	Bj	20	ARG
69	Bj	27	PRO
69	Bj	30	ARG
69	Bj	36	ARG
69	Bj	40	SER
69	Bj	43	PRO

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Mol	Chain	Res	Type
69	Bj	44	HIS
69	Bj	53	ARG
69	Bj	54	LEU
69	Bj	58	LYS
69	Bj	63	THR
69	Bj	66	ARG
69	Bj	69	PRO
69	Bj	71	HIS
69	Bj	74	THR
69	Bj	77	ARG
69	Bj	85	HIS
69	Bj	87	GLN
69	Bj	90	ASP
69	Bj	114	VAL
69	Bj	125	ARG
70	Bk	47	ARG
70	Bk	49	ARG
70	Bk	59	MET
70	Bk	60	THR
70	Bk	62	LEU
70	Bk	68	GLU
70	Bk	73	PHE
70	Bk	74	TYR
70	Bk	77	LYS
70	Bk	83	LYS
70	Bk	92	THR
70	Bk	93	HIS
70	Bk	103	GLU
70	Bk	111	GLN
70	Bk	116	HIS
71	Bl	37	ARG
71	Bl	69	THR
71	Bl	89	ILE
71	Bl	96	SER
71	Bl	99	PRO
71	Bl	103	SER
71	Bl	112	ILE
71	Bl	114	ARG
71	Bl	115	PRO
71	Bl	118	THR
71	Bl	119	SER
71	Bl	121	THR

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Mol	Chain	Res	Type
71	Bl	124	VAL
71	Bl	132	PRO
71	Bl	134	SER
71	Bl	147	SER
72	Bm	12	ARG
72	Bm	20	ASN
72	Bm	26	THR
72	Bm	36	ASP
72	Bm	37	ARG
72	Bm	51	ILE
72	Bm	61	MET
72	Bm	78	LEU
72	Bm	85	LEU
72	Bm	87	SER
72	Bm	99	GLU
72	Bm	100	GLU
72	Bm	105	GLN
72	Bm	106	THR
72	Bm	107	LYS
73	Bn	2	THR
73	Bn	12	HIS
73	Bn	17	ILE
73	Bn	19	CYS
73	Bn	33	ARG
73	Bn	43	GLN
73	Bn	45	ARG
73	Bn	46	ARG
73	Bn	47	TYR
73	Bn	49	TRP
73	Bn	58	ARG
73	Bn	66	TYR
73	Bn	77	HIS
73	Bn	80	THR
73	Bn	81	ASP
74	Bo	8	MET
74	Bo	11	MET
74	Bo	30	GLU
74	Bo	38	PHE
74	Bo	41	PHE
74	Bo	42	CYS
74	Bo	47	PHE
74	Bo	49	ARG

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Mol	Chain	Res	Type
74	Bo	56	ARG
74	Bo	72	SER
74	Bo	73	THR
74	Bo	74	PRO
74	Bo	87	ARG
74	Bo	90	LYS
74	Bo	91	GLN
75	Bp	8	LEU
75	Bp	9	LYS
75	Bp	10	GLU
75	Bp	38	CYS
75	Bp	47	MET
75	Bp	51	LYS
75	Bp	58	ARG
75	Bp	73	SER
76	Bq	3	ARG
76	Bq	5	LYS
76	Bq	6	PRO
76	Bq	11	LYS
76	Bq	16	LYS
76	Bq	18	LYS
76	Bq	22	PRO
76	Bq	25	TYR
76	Bq	33	ASN
76	Bq	42	ARG
76	Bq	46	ARG
77	Br	8	SER
77	Br	16	LYS
77	Br	22	SER
77	Br	23	LEU
77	Br	26	VAL
77	Br	31	ILE
77	Br	32	ARG
77	Br	34	ASP
77	Br	35	VAL
77	Br	38	PHE
77	Br	40	HIS
77	Br	51	TYR
77	Br	55	ARG
77	Br	60	LYS
77	Br	76	PRO
77	Br	93	ASN

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Mol	Chain	Res	Type
77	Br	94	MET
77	Br	96	ARG
77	Br	100	MET
77	Br	103	PRO
77	Br	107	PHE
77	Br	110	TRP
77	Br	116	LEU
77	Br	124	VAL
77	Br	135	LEU
77	Br	137	MET
77	Br	144	GLU
77	Br	151	LEU
77	Br	155	ASP
77	Br	158	ARG
77	Br	161	GLU
77	Br	165	GLU
77	Br	169	PHE
77	Br	173	VAL
77	Br	178	ASP
77	Br	179	VAL
77	Br	188	ILE
77	Br	194	LYS
77	Br	195	MET
77	Br	203	ARG
77	Br	214	LYS
77	Br	222	ILE
77	Br	227	LEU
77	Br	246	ARG
77	Br	271	VAL
77	Br	273	SER
77	Br	289	ARG
77	Br	320	ILE
77	Br	323	ARG
77	Br	334	LYS
77	Br	339	MET
77	Br	343	MET
77	Br	365	LYS
78	Bs	2	MET
78	Bs	11	LYS
78	Bs	12	LYS
78	Bs	24	TYR
78	Bs	29	VAL

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Mol	Chain	Res	Type
78	Bs	46	ARG
78	Bs	47	MET
78	Bs	51	LEU
79	Bt	4	TYR
79	Bt	10	MET
79	Bt	15	GLU
79	Bt	20	HIS
79	Bt	32	LYS
79	Bt	34	ARG
79	Bt	56	PRO
79	Bt	63	LYS
79	Bt	73	GLN
79	Bt	83	ASN
79	Bt	84	VAL
80	Bu	6	VAL
80	Bu	7	VAL
80	Bu	10	LYS
80	Bu	13	TYR
80	Bu	15	ARG
80	Bu	30	TYR
80	Bu	40	ASP
80	Bu	46	THR
80	Bu	56	THR
80	Bu	64	ILE
80	Bu	65	VAL
80	Bu	66	HIS
80	Bu	68	LYS
80	Bu	79	TYR
80	Bu	84	PRO
80	Bu	90	HIS
80	Bu	99	TYR
80	Bu	117	GLU
80	Bu	142	ASP
80	Bu	143	GLU
80	Bu	145	ARG
80	Bu	164	ARG
80	Bu	169	LEU
80	Bu	170	LYS
80	Bu	187	PRO
80	Bu	192	GLU
80	Bu	220	GLU
80	Bu	231	GLN

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Mol	Chain	Res	Type
80	Bu	243	ASP
80	Bu	245	MET
80	Bu	248	MET
80	Bu	257	ARG
80	Bu	264	ARG
80	Bu	270	PRO
80	Bu	272	GLU
80	Bu	276	LYS
80	Bu	278	TYR
80	Bu	282	LYS
80	Bu	283	LEU
81	Bv	6	LYS
81	Bv	10	GLU
81	Bv	12	LYS
81	Bv	14	LYS
81	Bv	15	LYS
81	Bv	16	VAL
81	Bv	24	SER
81	Bv	27	ARG
81	Bv	30	CYS
81	Bv	31	LYS
81	Bv	53	GLN
81	Bv	66	MET
81	Bv	86	THR
81	Bv	101	GLU
81	Bv	167	LEU
81	Bv	169	LYS
81	Bv	174	TYR
81	Bv	185	ASP
81	Bv	188	HIS
81	Bv	190	LEU
82	Bw	1	MET
82	Bw	3	MET
82	Bw	6	LEU
82	Bw	7	ILE
82	Bw	11	LYS
82	Bw	28	ILE
82	Bw	34	LYS
82	Bw	41	PHE
82	Bw	60	TYR
82	Bw	73	THR
82	Bw	82	ARG

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Mol	Chain	Res	Type
82	Bw	103	ARG
82	Bw	105	ARG
82	Bw	107	ILE
82	Bw	114	GLN
82	Bw	132	VAL
82	Bw	133	ARG
82	Bw	135	ASN
82	Bw	141	MET
82	Bw	143	ARG
82	Bw	156	LEU
82	Bw	179	THR
82	Bw	183	MET
82	Bw	201	ASN
82	Bw	202	GLN
82	Bw	204	TYR
82	Bw	209	HIS
82	Bw	211	ARG
82	Bw	221	LYS
82	Bw	224	PRO
82	Bw	225	PRO
82	Bw	229	MET
82	Bw	230	ARG
82	Bw	235	HIS
82	Bw	238	GLU
82	Bw	241	ASP
82	Bw	251	ARG
83	Bx	37	PRO
83	Bx	46	ASP
83	Bx	54	PRO
83	Bx	84	VAL
83	Bx	85	PRO
83	Bx	97	ARG
83	Bx	107	VAL
83	Bx	116	LYS
83	Bx	119	ARG
83	Bx	120	ASP
83	Bx	150	GLN
83	Bx	160	THR
83	Bx	175	LEU
83	Bx	181	THR
83	Bx	184	ARG
83	Bx	193	VAL

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Mol	Chain	Res	Type
83	Bx	195	ASP
83	Bx	206	LYS
83	Bx	207	THR
83	Bx	209	THR
83	Bx	215	ASP
83	Bx	224	LEU
83	Bx	240	ASP
83	Bx	243	ARG
83	Bx	253	LEU
83	Bx	256	ARG
83	Bx	259	LEU
83	Bx	260	ARG
83	Bx	261	LYS
83	Bx	270	ASP
84	By	1	MET
84	By	2	LYS
84	By	7	ASP
84	By	8	GLN
84	By	13	GLU
84	By	16	THR
84	By	39	HIS
84	By	44	PHE
84	By	45	ARG
84	By	52	THR
84	By	54	THR
84	By	58	TRP
84	By	64	ASN
84	By	82	VAL
84	By	92	PHE
84	By	98	PRO
84	By	105	ASN
84	By	106	GLN
84	By	113	PHE
84	By	119	VAL
84	By	120	ARG
84	By	121	ARG
84	By	131	TYR
84	By	132	ARG
84	By	133	THR
84	By	134	ASP
84	By	145	GLU
84	By	150	GLU

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Mol	Chain	Res	Type
84	By	154	ARG
84	By	159	MET
84	By	170	ILE
84	By	172	LYS
84	By	175	ASP
84	By	181	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (164) such sidechains are listed below:

Mol	Chain	Res	Type
1	A0	150	ASN
2	A1	33	HIS
2	A1	59	GLN
3	A2	43	GLN
3	A2	81	HIS
4	A3	27	ASN
4	A3	66	GLN
4	A3	231	HIS
4	A3	232	HIS
5	A4	6	HIS
5	A4	20	GLN
5	A4	36	HIS
5	A4	59	HIS
5	A4	183	HIS
6	A5	74	GLN
6	A5	88	ASN
6	A5	169	HIS
7	A6	3	ASN
8	A7	23	GLN
8	A7	89	HIS
8	A7	108	HIS
8	A7	121	ASN
8	A7	197	ASN
8	A7	278	HIS
8	A7	307	ASN
9	A8	21	HIS
9	A8	28	GLN
10	A9	147	HIS
11	AC	83	ASN
13	AE	19	GLN
13	AE	41	HIS
13	AE	79	ASN

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Mol	Chain	Res	Type
13	AE	120	HIS
13	AE	122	ASN
14	AF	86	GLN
15	AG	77	HIS
16	AH	87	HIS
17	AI	86	HIS
18	AJ	9	ASN
18	AJ	44	HIS
18	AJ	56	HIS
19	AK	32	GLN
19	AK	34	ASN
20	AL	30	GLN
20	AL	74	GLN
20	AL	90	HIS
21	AM	98	HIS
22	AO	138	HIS
23	AP	97	GLN
23	AP	112	ASN
24	AQ	12	GLN
24	AQ	115	HIS
25	AR	75	HIS
27	AT	16	GLN
27	AT	48	ASN
31	AX	163	HIS
32	AY	5	HIS
32	AY	29	GLN
32	AY	60	GLN
33	AZ	55	ASN
33	AZ	73	ASN
42	BI	17	HIS
42	BI	18	HIS
42	BI	57	ASN
42	BI	142	ASN
42	BI	172	HIS
42	BI	188	HIS
43	BJ	54	HIS
43	BJ	168	HIS
44	BK	86	HIS
45	BL	75	HIS
45	BL	102	ASN
45	BL	147	HIS
47	BN	6	ASN

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Mol	Chain	Res	Type
47	BN	10	HIS
48	BO	74	GLN
48	BO	91	HIS
48	BO	119	GLN
49	BP	51	GLN
49	BP	96	HIS
49	BP	140	HIS
50	BQ	49	HIS
50	BQ	102	ASN
50	BQ	156	HIS
50	BQ	170	ASN
50	BQ	196	HIS
50	BQ	213	ASN
51	BR	3	HIS
51	BR	9	GLN
51	BR	46	GLN
51	BR	69	ASN
51	BR	121	GLN
52	BS	57	HIS
52	BS	121	HIS
52	BS	145	HIS
53	BT	58	HIS
53	BT	75	HIS
53	BT	143	HIS
54	BU	3	HIS
54	BU	22	HIS
54	BU	58	HIS
57	BX	101	ASN
57	BX	133	ASN
58	BY	10	HIS
58	BY	17	HIS
59	BZ	97	HIS
61	Bb	25	HIS
61	Bb	60	HIS
62	Bc	135	HIS
62	Bc	137	HIS
63	Bd	6	ASN
63	Bd	16	ASN
63	Bd	43	ASN
64	Be	115	ASN
64	Be	205	ASN
64	Be	216	HIS

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Mol	Chain	Res	Type
64	Be	233	GLN
65	Bf	90	GLN
65	Bf	159	HIS
65	Bf	160	HIS
65	Bf	267	GLN
65	Bf	326	HIS
65	Bf	335	ASN
66	Bg	39	GLN
66	Bg	79	HIS
66	Bg	95	HIS
67	Bh	54	HIS
67	Bh	132	ASN
68	Bi	99	HIS
69	Bj	44	HIS
69	Bj	62	HIS
69	Bj	101	GLN
70	Bk	69	ASN
71	Bl	54	GLN
71	Bl	67	ASN
71	Bl	85	HIS
72	Bm	42	HIS
74	Bo	34	HIS
74	Bo	91	GLN
75	Bp	74	HIS
76	Bq	43	HIS
77	Br	54	ASN
77	Br	111	HIS
77	Br	145	ASN
77	Br	187	GLN
77	Br	237	HIS
77	Br	333	GLN
77	Br	353	HIS
79	Bt	20	HIS
79	Bt	83	ASN
80	Bu	39	GLN
80	Bu	57	ASN
80	Bu	90	HIS
80	Bu	139	GLN
80	Bu	253	HIS
81	Bv	176	HIS
81	Bv	188	HIS
82	Bw	87	HIS

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Mol	Chain	Res	Type
82	Bw	189	HIS
82	Bw	190	ASN
82	Bw	209	HIS
83	Bx	72	GLN
84	By	8	GLN
84	By	39	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
34	BA	1846/1847 (99%)	616 (33%)	225 (12%)
35	BB	1464/1465 (99%)	460 (31%)	143 (9%)
36	BC	169/169 (100%)	46 (27%)	20 (11%)
37	BD	118/119 (99%)	31 (26%)	9 (7%)
38	BE	209/210 (99%)	78 (37%)	27 (12%)
39	BF	73/73 (100%)	48 (65%)	23 (31%)
40	BG	181/182 (99%)	40 (22%)	8 (4%)
41	BH	134/135 (99%)	49 (36%)	16 (11%)
85	AA	2226/2251 (98%)	767 (34%)	312 (14%)
86	AB	72/73 (98%)	30 (41%)	7 (9%)
All	All	6492/6524 (99%)	2165 (33%)	790 (12%)

All (2165) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
34	BA	11	U
34	BA	13	U
34	BA	22	C
34	BA	23	A
34	BA	37	A
34	BA	39	C
34	BA	46	C
34	BA	56	G
34	BA	57	A
34	BA	62	A
34	BA	63	A
34	BA	70	C
34	BA	71	G
34	BA	72	U
34	BA	73	G
34	BA	80	U

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Mol	Chain	Res	Type
34	BA	85	C
34	BA	90	G
34	BA	91	C
34	BA	97	A
34	BA	107	C
34	BA	108	A
34	BA	109	A
34	BA	112	C
34	BA	115	U
34	BA	116	G
34	BA	117	C
34	BA	119	G
34	BA	120	A
34	BA	121	A
34	BA	130	U
34	BA	131	A
34	BA	132	U
34	BA	134	U
34	BA	141	G
34	BA	144	C
34	BA	145	U
34	BA	147	U
34	BA	149	G
34	BA	151	A
34	BA	152	C
34	BA	153	C
34	BA	154	A
34	BA	156	U
34	BA	157	U
34	BA	159	U
34	BA	160	G
34	BA	161	U
34	BA	163	G
34	BA	165	C
34	BA	166	G
34	BA	175	G
34	BA	178	C
34	BA	179	U
34	BA	180	G
34	BA	185	A
34	BA	188	C
34	BA	189	G

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Mol	Chain	Res	Type
34	BA	194	G
34	BA	195	G
34	BA	197	A
34	BA	201	A
34	BA	202	A
34	BA	206	C
34	BA	207	A
34	BA	208	A
34	BA	209	A
34	BA	214	A
34	BA	215	C
34	BA	216	C
34	BA	217	C
34	BA	218	G
34	BA	219	U
34	BA	224	G
34	BA	225	A
34	BA	226	A
34	BA	227	C
34	BA	248	G
34	BA	249	A
34	BA	250	G
34	BA	256	A
34	BA	257	G
34	BA	261	A
34	BA	262	A
34	BA	265	A
34	BA	269	G
34	BA	270	U
34	BA	271	C
34	BA	280	A
34	BA	282	A
34	BA	285	C
34	BA	287	U
34	BA	288	U
34	BA	290	G
34	BA	295	G
34	BA	296	G
34	BA	297	A
34	BA	298	G
34	BA	299	C
34	BA	302	A

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Mol	Chain	Res	Type
34	BA	303	C
34	BA	304	G
34	BA	314	A
34	BA	315	U
34	BA	316	G
34	BA	317	U
34	BA	318	U
34	BA	324	C
34	BA	325	A
34	BA	326	A
34	BA	328	A
34	BA	331	G
34	BA	332	U
34	BA	344	G
34	BA	345	G
34	BA	347	A
34	BA	348	U
34	BA	357	A
34	BA	358	A
34	BA	359	G
34	BA	360	C
34	BA	361	C
34	BA	368	U
34	BA	370	U
34	BA	386	A
34	BA	392	A
34	BA	393	G
34	BA	394	A
34	BA	395	G
34	BA	396	U
34	BA	397	A
34	BA	403	A
34	BA	404	C
34	BA	405	C
34	BA	411	C
34	BA	412	G
34	BA	413	A
34	BA	415	C
34	BA	416	A
34	BA	417	A
34	BA	435	U
34	BA	437	G

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Mol	Chain	Res	Type
34	BA	438	A
34	BA	439	A
34	BA	442	G
34	BA	461	A
34	BA	463	A
34	BA	464	U
34	BA	465	A
34	BA	467	A
34	BA	469	C
34	BA	483	A
34	BA	484	A
34	BA	487	A
34	BA	488	C
34	BA	489	A
34	BA	490	A
34	BA	492	G
34	BA	501	U
34	BA	502	U
34	BA	509	U
34	BA	510	U
34	BA	511	U
34	BA	512	U
34	BA	519	G
34	BA	520	G
34	BA	521	C
34	BA	523	A
34	BA	524	G
34	BA	526	C
34	BA	527	C
34	BA	529	A
34	BA	531	C
34	BA	532	C
34	BA	533	U
34	BA	534	C
34	BA	536	C
34	BA	539	C
34	BA	547	C
34	BA	548	G
34	BA	551	U
34	BA	553	A
34	BA	555	C
34	BA	557	U

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Mol	Chain	Res	Type
34	BA	559	C
34	BA	560	U
34	BA	562	C
34	BA	569	C
34	BA	571	G
34	BA	573	U
34	BA	575	U
34	BA	576	C
34	BA	577	U
34	BA	578	C
34	BA	579	U
34	BA	581	U
34	BA	584	A
34	BA	586	G
34	BA	587	U
34	BA	588	C
34	BA	589	A
34	BA	591	G
34	BA	592	G
34	BA	593	G
34	BA	594	G
34	BA	595	U
34	BA	596	G
34	BA	597	C
34	BA	599	U
34	BA	600	G
34	BA	603	U
34	BA	604	G
34	BA	605	G
34	BA	607	C
34	BA	608	G
34	BA	612	U
34	BA	617	G
34	BA	623	U
34	BA	624	G
34	BA	626	G
34	BA	628	U
34	BA	629	G
34	BA	630	U
34	BA	634	U
34	BA	635	G
34	BA	638	U

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Mol	Chain	Res	Type
34	BA	639	U
34	BA	647	U
34	BA	651	U
34	BA	656	U
34	BA	657	C
34	BA	659	U
34	BA	660	C
34	BA	666	C
34	BA	668	G
34	BA	673	U
34	BA	674	G
34	BA	675	C
34	BA	678	C
34	BA	680	C
34	BA	681	G
34	BA	682	A
34	BA	683	C
34	BA	684	G
34	BA	685	C
34	BA	686	U
34	BA	688	G
34	BA	690	G
34	BA	691	A
34	BA	692	U
34	BA	693	G
34	BA	694	G
34	BA	695	A
34	BA	700	G
34	BA	711	C
34	BA	712	C
34	BA	713	C
34	BA	720	A
34	BA	721	A
34	BA	722	A
34	BA	724	A
34	BA	731	A
34	BA	735	A
34	BA	738	C
34	BA	739	A
34	BA	751	A
34	BA	752	A
34	BA	753	G

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Mol	Chain	Res	Type
34	BA	756	A
34	BA	757	G
34	BA	758	G
34	BA	764	G
34	BA	765	U
34	BA	766	A
34	BA	769	U
34	BA	770	G
34	BA	771	A
34	BA	772	G
34	BA	773	A
34	BA	774	A
34	BA	776	U
34	BA	781	U
34	BA	786	U
34	BA	787	A
34	BA	790	G
34	BA	794	G
34	BA	797	A
34	BA	798	G
34	BA	799	A
34	BA	800	G
34	BA	805	A
34	BA	806	U
34	BA	807	U
34	BA	808	U
34	BA	814	C
34	BA	815	C
34	BA	816	G
34	BA	821	G
34	BA	823	G
34	BA	828	A
34	BA	834	C
34	BA	836	U
34	BA	846	U
34	BA	847	U
34	BA	848	U
34	BA	849	G
34	BA	850	C
34	BA	863	G
34	BA	864	G
34	BA	865	C

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Mol	Chain	Res	Type
34	BA	874	G
34	BA	876	C
34	BA	879	C
34	BA	883	C
34	BA	884	G
34	BA	885	A
34	BA	895	U
34	BA	896	U
34	BA	898	G
34	BA	899	G
34	BA	900	A
34	BA	905	A
34	BA	906	A
34	BA	916	A
34	BA	929	A
34	BA	936	A
34	BA	945	A
34	BA	946	A
34	BA	948	C
34	BA	958	G
34	BA	960	C
34	BA	970	U
34	BA	973	U
34	BA	978	U
34	BA	982	A
34	BA	983	A
34	BA	993	C
34	BA	995	A
34	BA	996	U
34	BA	1006	G
34	BA	1007	G
34	BA	1012	A
34	BA	1013	A
34	BA	1015	G
34	BA	1019	C
34	BA	1020	A
34	BA	1022	C
34	BA	1023	G
34	BA	1024	A
34	BA	1035	A
34	BA	1036	G
34	BA	1037	C

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Mol	Chain	Res	Type
34	BA	1043	C
34	BA	1046	G
34	BA	1058	C
34	BA	1059	U
34	BA	1080	U
34	BA	1081	U
34	BA	1082	U
34	BA	1083	A
34	BA	1084	A
34	BA	1085	G
34	BA	1086	A
34	BA	1093	G
34	BA	1097	G
34	BA	1098	G
34	BA	1105	A
34	BA	1106	A
34	BA	1107	A
34	BA	1110	A
34	BA	1114	G
34	BA	1118	C
34	BA	1119	A
34	BA	1120	U
34	BA	1121	U
34	BA	1122	G
34	BA	1124	U
34	BA	1125	G
34	BA	1128	C
34	BA	1130	U
34	BA	1132	U
34	BA	1133	A
34	BA	1136	A
34	BA	1140	A
34	BA	1141	C
34	BA	1151	A
34	BA	1153	C
34	BA	1155	U
34	BA	1156	U
34	BA	1161	G
34	BA	1168	C
34	BA	1169	A
34	BA	1175	G
34	BA	1176	C

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Mol	Chain	Res	Type
34	BA	1180	A
34	BA	1181	G
34	BA	1183	U
34	BA	1184	A
34	BA	1186	U
34	BA	1187	U
34	BA	1188	U
34	BA	1189	A
34	BA	1196	C
34	BA	1198	U
34	BA	1199	U
34	BA	1200	U
34	BA	1201	G
34	BA	1205	A
34	BA	1206	C
34	BA	1207	A
34	BA	1208	U
34	BA	1209	A
34	BA	1210	A
34	BA	1211	G
34	BA	1216	G
34	BA	1217	A
34	BA	1229	G
34	BA	1230	G
34	BA	1244	G
34	BA	1257	U
34	BA	1263	A
34	BA	1264	U
34	BA	1266	A
34	BA	1272	U
34	BA	1273	U
34	BA	1293	A
34	BA	1294	C
34	BA	1295	U
34	BA	1296	U
34	BA	1297	G
34	BA	1298	U
34	BA	1306	U
34	BA	1307	U
34	BA	1308	C
34	BA	1309	U
34	BA	1310	C

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Mol	Chain	Res	Type
34	BA	1313	U
34	BA	1318	G
34	BA	1320	A
34	BA	1327	G
34	BA	1331	G
34	BA	1334	G
34	BA	1336	U
34	BA	1338	G
34	BA	1339	G
34	BA	1340	G
34	BA	1341	A
34	BA	1342	C
34	BA	1343	A
34	BA	1345	U
34	BA	1350	C
34	BA	1351	G
34	BA	1352	G
34	BA	1353	U
34	BA	1354	G
34	BA	1355	G
34	BA	1356	C
34	BA	1357	C
34	BA	1359	U
34	BA	1360	G
34	BA	1361	G
34	BA	1362	A
34	BA	1363	A
34	BA	1364	G
34	BA	1365	U
34	BA	1366	C
34	BA	1367	G
34	BA	1369	C
34	BA	1376	U
34	BA	1380	G
34	BA	1381	A
34	BA	1382	G
34	BA	1383	U
34	BA	1384	G
34	BA	1385	U
34	BA	1389	A
34	BA	1391	A
34	BA	1395	C

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Mol	Chain	Res	Type
34	BA	1396	A
34	BA	1397	C
34	BA	1398	C
34	BA	1399	A
34	BA	1403	G
34	BA	1405	A
34	BA	1410	C
34	BA	1423	U
34	BA	1425	G
34	BA	1426	A
34	BA	1427	U
34	BA	1430	C
34	BA	1431	G
34	BA	1434	U
34	BA	1444	G
34	BA	1445	U
34	BA	1446	G
34	BA	1447	C
34	BA	1448	G
34	BA	1449	U
34	BA	1450	G
34	BA	1452	U
34	BA	1453	U
34	BA	1454	G
34	BA	1455	C
34	BA	1457	C
34	BA	1458	A
34	BA	1459	U
34	BA	1460	U
34	BA	1471	U
34	BA	1472	G
34	BA	1474	G
34	BA	1476	G
34	BA	1477	C
34	BA	1478	G
34	BA	1481	U
34	BA	1482	A
34	BA	1486	U
34	BA	1490	U
34	BA	1491	U
34	BA	1494	G
34	BA	1495	A

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Mol	Chain	Res	Type
34	BA	1496	G
34	BA	1497	A
34	BA	1498	A
34	BA	1504	A
34	BA	1506	C
34	BA	1510	C
34	BA	1515	U
34	BA	1524	G
34	BA	1525	G
34	BA	1536	A
34	BA	1541	G
34	BA	1548	A
34	BA	1549	U
34	BA	1550	G
34	BA	1563	G
34	BA	1564	A
34	BA	1565	U
34	BA	1568	A
34	BA	1569	C
34	BA	1578	A
34	BA	1584	G
34	BA	1587	C
34	BA	1593	U
34	BA	1596	C
34	BA	1598	U
34	BA	1599	A
34	BA	1600	G
34	BA	1605	G
34	BA	1615	A
34	BA	1616	A
34	BA	1617	U
34	BA	1623	U
34	BA	1624	U
34	BA	1625	C
34	BA	1629	A
34	BA	1632	G
34	BA	1634	A
34	BA	1645	C
34	BA	1648	G
34	BA	1649	A
34	BA	1652	G
34	BA	1655	G

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Mol	Chain	Res	Type
34	BA	1660	A
34	BA	1661	U
34	BA	1674	G
34	BA	1675	C
34	BA	1688	G
34	BA	1689	U
34	BA	1693	U
34	BA	1695	G
34	BA	1696	G
34	BA	1697	U
34	BA	1698	C
34	BA	1706	A
34	BA	1713	U
34	BA	1714	A
34	BA	1715	C
34	BA	1716	A
34	BA	1717	C
34	BA	1718	C
34	BA	1725	U
34	BA	1726	U
34	BA	1727	A
34	BA	1729	G
34	BA	1730	A
34	BA	1732	A
34	BA	1735	G
34	BA	1737	A
34	BA	1776	G
34	BA	1777	U
34	BA	1788	U
34	BA	1789	A
34	BA	1793	G
34	BA	1794	A
34	BA	1795	A
34	BA	1796	A
34	BA	1797	A
34	BA	1798	G
34	BA	1799	G
34	BA	1804	A
34	BA	1805	C
34	BA	1806	A
34	BA	1810	A
34	BA	1811	A

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Mol	Chain	Res	Type
34	BA	1817	G
34	BA	1818	A
34	BA	1819	U
34	BA	1820	G
34	BA	1825	U
34	BA	1826	C
34	BA	1828	A
34	BA	1830	A
34	BA	1831	A
34	BA	1832	A
34	BA	1842	U
34	BA	1847	G
35	BB	2	C
35	BB	3	C
35	BB	4	C
35	BB	13	A
35	BB	17	U
35	BB	18	A
35	BB	19	C
35	BB	22	A
35	BB	23	U
35	BB	24	C
35	BB	25	A
35	BB	28	G
35	BB	29	C
35	BB	30	A
35	BB	31	U
35	BB	32	C
35	BB	33	A
35	BB	38	C
35	BB	47	C
35	BB	48	G
35	BB	49	A
35	BB	59	U
35	BB	60	A
35	BB	61	A
35	BB	62	C
35	BB	63	A
35	BB	64	U
35	BB	69	A
35	BB	70	A
35	BB	76	C

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Mol	Chain	Res	Type
35	BB	77	A
35	BB	81	A
35	BB	90	G
35	BB	91	G
35	BB	97	U
35	BB	98	A
35	BB	111	C
35	BB	136	A
35	BB	137	A
35	BB	139	G
35	BB	144	G
35	BB	146	U
35	BB	147	C
35	BB	148	C
35	BB	149	A
35	BB	152	G
35	BB	157	G
35	BB	158	C
35	BB	159	C
35	BB	161	G
35	BB	162	U
35	BB	168	U
35	BB	169	U
35	BB	253	G
35	BB	254	A
35	BB	255	A
35	BB	262	C
35	BB	264	U
35	BB	265	C
35	BB	267	C
35	BB	268	G
35	BB	282	A
35	BB	283	A
35	BB	287	C
35	BB	289	U
35	BB	290	U
35	BB	291	C
35	BB	296	G
35	BB	312	U
35	BB	315	C
35	BB	319	C
35	BB	322	G

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Mol	Chain	Res	Type
35	BB	323	C
35	BB	324	A
35	BB	325	G
35	BB	329	U
35	BB	330	U
35	BB	331	U
35	BB	333	C
35	BB	337	U
35	BB	340	U
35	BB	344	U
35	BB	346	U
35	BB	354	C
35	BB	357	C
35	BB	358	U
35	BB	359	A
35	BB	360	C
35	BB	361	A
35	BB	362	A
35	BB	363	A
35	BB	364	U
35	BB	371	C
35	BB	372	U
35	BB	381	C
35	BB	382	U
35	BB	383	U
35	BB	384	A
35	BB	385	C
35	BB	388	C
35	BB	389	G
35	BB	390	G
35	BB	399	A
35	BB	407	A
35	BB	408	U
35	BB	416	U
35	BB	426	A
35	BB	431	U
35	BB	437	U
35	BB	438	G
35	BB	444	U
35	BB	447	C
35	BB	448	G
35	BB	455	G

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Mol	Chain	Res	Type
35	BB	456	A
35	BB	461	U
35	BB	469	G
35	BB	473	U
35	BB	474	G
35	BB	475	A
35	BB	476	A
35	BB	477	U
35	BB	478	G
35	BB	481	A
35	BB	484	G
35	BB	488	G
35	BB	489	A
35	BB	490	G
35	BB	492	U
35	BB	495	A
35	BB	511	A
35	BB	516	G
35	BB	517	G
35	BB	519	A
35	BB	520	G
35	BB	522	A
35	BB	523	A
35	BB	524	C
35	BB	526	A
35	BB	530	C
35	BB	539	G
35	BB	540	G
35	BB	547	A
35	BB	548	A
35	BB	549	U
35	BB	555	G
35	BB	561	C
35	BB	562	A
35	BB	563	A
35	BB	565	U
35	BB	566	A
35	BB	571	C
35	BB	573	C
35	BB	574	G
35	BB	575	C
35	BB	577	U

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Mol	Chain	Res	Type
35	BB	580	A
35	BB	581	U
35	BB	582	G
35	BB	586	U
35	BB	597	C
35	BB	602	G
35	BB	603	U
35	BB	627	G
35	BB	640	A
35	BB	641	C
35	BB	642	G
35	BB	650	A
35	BB	651	G
35	BB	652	G
35	BB	655	U
35	BB	660	G
35	BB	664	A
35	BB	665	A
35	BB	668	A
35	BB	669	A
35	BB	670	G
35	BB	671	A
35	BB	672	C
35	BB	673	C
35	BB	678	U
35	BB	685	G
35	BB	702	G
35	BB	704	G
35	BB	710	A
35	BB	712	U
35	BB	713	U
35	BB	714	U
35	BB	715	G
35	BB	716	G
35	BB	717	A
35	BB	718	G
35	BB	719	G
35	BB	720	U
35	BB	721	G
35	BB	722	U
35	BB	725	U
35	BB	726	A

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Mol	Chain	Res	Type
35	BB	727	U
35	BB	728	A
35	BB	730	G
35	BB	735	A
35	BB	736	G
35	BB	746	A
35	BB	747	A
35	BB	748	A
35	BB	751	A
35	BB	752	A
35	BB	753	A
35	BB	754	U
35	BB	755	A
35	BB	758	A
35	BB	759	C
35	BB	760	C
35	BB	766	G
35	BB	767	A
35	BB	768	A
35	BB	769	C
35	BB	770	G
35	BB	772	U
35	BB	774	C
35	BB	778	A
35	BB	780	U
35	BB	781	U
35	BB	782	A
35	BB	789	G
35	BB	790	A
35	BB	791	A
35	BB	792	G
35	BB	793	A
35	BB	796	C
35	BB	797	C
35	BB	800	U
35	BB	803	U
35	BB	804	U
35	BB	805	G
35	BB	806	U
35	BB	818	U
35	BB	819	U
35	BB	820	C

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Mol	Chain	Res	Type
35	BB	823	G
35	BB	834	U
35	BB	838	G
35	BB	839	G
35	BB	840	C
35	BB	841	U
35	BB	846	A
35	BB	847	U
35	BB	849	A
35	BB	850	U
35	BB	851	U
35	BB	852	G
35	BB	853	U
35	BB	854	G
35	BB	860	U
35	BB	861	C
35	BB	862	U
35	BB	863	U
35	BB	869	G
35	BB	870	C
35	BB	877	A
35	BB	878	G
35	BB	879	G
35	BB	882	U
35	BB	884	U
35	BB	885	U
35	BB	890	U
35	BB	892	U
35	BB	893	U
35	BB	894	A
35	BB	895	U
35	BB	897	C
35	BB	900	C
35	BB	901	U
35	BB	906	G
35	BB	913	C
35	BB	914	U
35	BB	926	C
35	BB	928	C
35	BB	929	C
35	BB	932	U
35	BB	933	U

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Mol	Chain	Res	Type
35	BB	934	U
35	BB	943	U
35	BB	955	U
35	BB	965	G
35	BB	966	C
35	BB	971	A
35	BB	972	C
35	BB	973	G
35	BB	974	C
35	BB	975	G
35	BB	977	G
35	BB	978	C
35	BB	979	G
35	BB	980	G
35	BB	982	A
35	BB	983	C
35	BB	984	U
35	BB	985	A
35	BB	986	C
35	BB	987	U
35	BB	988	G
35	BB	989	C
35	BB	990	G
35	BB	991	C
35	BB	992	C
35	BB	995	C
35	BB	996	G
35	BB	1023	G
35	BB	1025	A
35	BB	1026	G
35	BB	1027	U
35	BB	1030	U
35	BB	1031	G
35	BB	1032	U
35	BB	1033	U
35	BB	1040	C
35	BB	1043	C
35	BB	1044	U
35	BB	1045	G
35	BB	1053	G
35	BB	1054	G
35	BB	1061	G

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Mol	Chain	Res	Type
35	BB	1066	G
35	BB	1073	A
35	BB	1084	A
35	BB	1099	U
35	BB	1103	A
35	BB	1119	G
35	BB	1121	A
35	BB	1124	G
35	BB	1125	A
35	BB	1126	A
35	BB	1128	U
35	BB	1135	U
35	BB	1136	G
35	BB	1137	G
35	BB	1138	A
35	BB	1140	C
35	BB	1141	A
35	BB	1143	A
35	BB	1146	C
35	BB	1150	A
35	BB	1152	U
35	BB	1155	U
35	BB	1156	U
35	BB	1161	G
35	BB	1166	A
35	BB	1167	C
35	BB	1176	G
35	BB	1177	U
35	BB	1200	A
35	BB	1201	G
35	BB	1202	G
35	BB	1209	A
35	BB	1218	G
35	BB	1220	A
35	BB	1221	G
35	BB	1222	A
35	BB	1224	C
35	BB	1225	A
35	BB	1226	G
35	BB	1227	G
35	BB	1228	A
35	BB	1229	A

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Mol	Chain	Res	Type
35	BB	1230	A
35	BB	1231	U
35	BB	1235	A
35	BB	1236	A
35	BB	1237	C
35	BB	1254	G
35	BB	1257	A
35	BB	1258	G
35	BB	1259	A
35	BB	1260	A
35	BB	1268	C
35	BB	1274	G
35	BB	1275	A
35	BB	1276	U
35	BB	1277	A
35	BB	1287	U
35	BB	1300	U
35	BB	1301	U
35	BB	1302	C
35	BB	1303	A
35	BB	1307	C
35	BB	1318	U
35	BB	1325	C
35	BB	1329	G
35	BB	1331	U
35	BB	1333	U
35	BB	1336	G
35	BB	1337	C
35	BB	1340	U
35	BB	1345	A
35	BB	1346	A
35	BB	1347	C
35	BB	1354	C
35	BB	1355	C
35	BB	1356	G
35	BB	1357	C
35	BB	1358	A
35	BB	1372	G
35	BB	1381	U
35	BB	1385	C
35	BB	1393	C
35	BB	1394	A

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Mol	Chain	Res	Type
35	BB	1395	G
35	BB	1400	C
35	BB	1403	G
35	BB	1405	G
35	BB	1409	G
35	BB	1412	U
35	BB	1413	U
35	BB	1415	G
35	BB	1429	A
35	BB	1436	U
35	BB	1437	U
35	BB	1440	A
35	BB	1441	C
35	BB	1448	U
35	BB	1450	G
35	BB	1453	G
35	BB	1454	G
35	BB	1455	A
35	BB	1456	G
35	BB	1459	U
35	BB	1460	G
35	BB	1461	C
35	BB	1462	G
35	BB	1464	G
35	BB	1465	U
35	BB	1468	A
35	BB	1469	A
35	BB	1471	A
35	BB	1472	U
35	BB	1473	U
35	BB	1474	A
35	BB	1475	U
35	BB	1481	C
35	BB	1482	A
35	BB	1490	G
35	BB	1495	U
35	BB	1499	U
35	BB	1501	U
35	BB	1502	U
35	BB	1503	U
35	BB	1504	U
35	BB	1505	U

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Mol	Chain	Res	Type
35	BB	1506	C
35	BB	1507	U
35	BB	1512	C
35	BB	1517	G
35	BB	1518	U
35	BB	1521	G
35	BB	1533	U
35	BB	1535	G
35	BB	1536	G
35	BB	1541	G
36	BC	2	A
36	BC	3	C
36	BC	22	U
36	BC	23	G
36	BC	32	U
36	BC	33	U
36	BC	34	U
36	BC	35	C
36	BC	47	C
36	BC	48	A
36	BC	51	A
36	BC	59	A
36	BC	61	A
36	BC	62	A
36	BC	63	G
36	BC	74	U
36	BC	75	G
36	BC	80	A
36	BC	81	U
36	BC	82	C
36	BC	83	A
36	BC	84	U
36	BC	85	U
36	BC	86	U
36	BC	89	U
36	BC	91	G
36	BC	92	C
36	BC	94	C
36	BC	103	A
36	BC	104	A
36	BC	105	C
36	BC	110	A

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Mol	Chain	Res	Type
36	BC	111	C
36	BC	117	A
36	BC	124	A
36	BC	130	U
36	BC	131	C
36	BC	132	U
36	BC	147	G
36	BC	149	A
36	BC	157	U
36	BC	158	U
36	BC	159	U
36	BC	160	C
36	BC	165	U
36	BC	169	G
37	BD	7	G
37	BD	11	A
37	BD	12	U
37	BD	13	A
37	BD	14	C
37	BD	21	G
37	BD	22	A
37	BD	26	C
37	BD	39	C
37	BD	40	C
37	BD	41	G
37	BD	42	A
37	BD	48	G
37	BD	50	A
37	BD	52	U
37	BD	53	U
37	BD	63	C
37	BD	64	A
37	BD	72	U
37	BD	74	A
37	BD	83	A
37	BD	84	U
37	BD	88	U
37	BD	89	G
37	BD	90	A
37	BD	99	G
37	BD	100	A
37	BD	101	A

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Mol	Chain	Res	Type
37	BD	108	G
37	BD	110	G
37	BD	113	G
38	BE	2	G
38	BE	4	A
38	BE	11	A
38	BE	12	A
38	BE	13	A
38	BE	19	G
38	BE	20	C
38	BE	22	A
38	BE	23	G
38	BE	24	G
38	BE	25	U
38	BE	26	G
38	BE	28	C
38	BE	53	U
38	BE	55	C
38	BE	56	U
38	BE	57	U
38	BE	71	A
38	BE	72	C
38	BE	78	C
38	BE	80	G
38	BE	82	C
38	BE	83	U
38	BE	84	U
38	BE	86	C
38	BE	89	G
38	BE	92	C
38	BE	102	U
38	BE	103	C
38	BE	104	G
38	BE	108	U
38	BE	109	C
38	BE	112	G
38	BE	113	C
38	BE	114	G
38	BE	118	C
38	BE	119	U
38	BE	125	C
38	BE	129	G

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Mol	Chain	Res	Type
38	BE	130	G
38	BE	131	C
38	BE	134	A
38	BE	135	A
38	BE	136	G
38	BE	137	A
38	BE	141	A
38	BE	142	A
38	BE	143	A
38	BE	144	A
38	BE	152	U
38	BE	153	C
38	BE	155	C
38	BE	156	C
38	BE	157	C
38	BE	159	A
38	BE	160	C
38	BE	161	G
38	BE	162	U
38	BE	165	U
38	BE	172	U
38	BE	173	G
38	BE	174	U
38	BE	175	U
38	BE	176	G
38	BE	179	A
38	BE	180	G
38	BE	181	U
38	BE	182	U
38	BE	186	C
38	BE	187	G
38	BE	189	A
38	BE	191	U
38	BE	203	C
38	BE	204	U
38	BE	206	G
38	BE	207	G
38	BE	209	U
38	BE	210	G
39	BF	2	G
39	BF	3	A
39	BF	6	C

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Mol	Chain	Res	Type
39	BF	7	G
39	BF	8	C
39	BF	10	A
39	BF	11	C
39	BF	12	U
39	BF	13	U
39	BF	14	C
39	BF	15	U
39	BF	16	C
39	BF	17	U
39	BF	18	U
39	BF	19	A
39	BF	20	U
39	BF	21	C
39	BF	22	U
39	BF	23	G
39	BF	24	G
39	BF	25	G
39	BF	26	U
39	BF	29	U
39	BF	31	U
39	BF	33	C
39	BF	34	C
39	BF	40	U
39	BF	41	U
39	BF	42	G
39	BF	43	U
39	BF	44	C
39	BF	45	G
39	BF	52	A
39	BF	53	G
39	BF	54	U
39	BF	57	C
39	BF	59	U
39	BF	60	C
39	BF	61	A
39	BF	62	U
39	BF	63	U
39	BF	64	U
39	BF	66	C
39	BF	67	A
39	BF	68	C

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Mol	Chain	Res	Type
39	BF	69	A
39	BF	71	G
39	BF	73	U
40	BG	2	U
40	BG	3	G
40	BG	11	G
40	BG	12	A
40	BG	13	A
40	BG	14	G
40	BG	15	G
40	BG	21	C
40	BG	22	G
40	BG	23	C
40	BG	24	A
40	BG	25	G
40	BG	34	A
40	BG	40	G
40	BG	84	U
40	BG	85	C
40	BG	86	U
40	BG	87	G
40	BG	99	A
40	BG	106	G
40	BG	107	U
40	BG	108	G
40	BG	114	A
40	BG	120	U
40	BG	121	C
40	BG	141	A
40	BG	147	U
40	BG	150	A
40	BG	156	G
40	BG	158	A
40	BG	159	A
40	BG	166	C
40	BG	167	C
40	BG	169	A
40	BG	170	G
40	BG	171	A
40	BG	172	C
40	BG	173	C
40	BG	180	C

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Mol	Chain	Res	Type
40	BG	181	C
41	BH	2	U
41	BH	3	U
41	BH	11	C
41	BH	12	U
41	BH	15	A
41	BH	21	G
41	BH	24	U
41	BH	25	A
41	BH	26	C
41	BH	27	A
41	BH	28	U
41	BH	30	C
41	BH	34	G
41	BH	38	G
41	BH	39	G
41	BH	40	C
41	BH	41	A
41	BH	42	U
41	BH	43	G
41	BH	44	A
41	BH	49	C
41	BH	50	A
41	BH	51	C
41	BH	60	A
41	BH	61	C
41	BH	62	C
41	BH	72	G
41	BH	73	A
41	BH	74	G
41	BH	77	G
41	BH	79	A
41	BH	80	C
41	BH	81	U
41	BH	82	U
41	BH	84	A
41	BH	86	G
41	BH	88	C
41	BH	89	C
41	BH	90	C
41	BH	93	G
41	BH	101	A

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Mol	Chain	Res	Type
41	BH	102	C
41	BH	103	C
41	BH	115	A
41	BH	117	U
41	BH	122	U
41	BH	123	G
41	BH	129	G
41	BH	135	U
85	AA	2	A
85	AA	3	U
85	AA	4	C
85	AA	9	U
85	AA	25	C
85	AA	26	A
85	AA	28	A
85	AA	34	G
85	AA	39	A
85	AA	42	G
85	AA	43	A
85	AA	44	C
85	AA	45	U
85	AA	46	U
85	AA	47	A
85	AA	48	G
85	AA	51	A
85	AA	56	U
85	AA	57	G
85	AA	59	C
85	AA	60	U
85	AA	61	C
85	AA	66	U
85	AA	67	C
85	AA	68	A
85	AA	73	A
85	AA	74	U
85	AA	77	C
85	AA	82	A
85	AA	85	U
85	AA	86	G
85	AA	90	A
85	AA	91	U
85	AA	92	G

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Mol	Chain	Res	Type
85	AA	96	C
85	AA	97	A
85	AA	99	U
85	AA	101	C
85	AA	102	A
85	AA	103	U
85	AA	104	C
85	AA	107	A
85	AA	111	A
85	AA	112	A
85	AA	116	G
85	AA	121	C
85	AA	123	A
85	AA	124	A
85	AA	125	A
85	AA	126	U
85	AA	127	U
85	AA	128	U
85	AA	129	U
85	AA	136	U
85	AA	137	C
85	AA	142	U
85	AA	143	U
85	AA	144	A
85	AA	145	C
85	AA	162	A
85	AA	171	U
85	AA	174	U
85	AA	175	A
85	AA	179	G
85	AA	180	A
85	AA	181	A
85	AA	182	C
85	AA	183	C
85	AA	184	A
85	AA	185	A
85	AA	193	C
85	AA	197	C
85	AA	198	U
85	AA	200	U
85	AA	202	U
85	AA	205	A

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Mol	Chain	Res	Type
85	AA	207	G
85	AA	208	U
85	AA	209	C
85	AA	210	G
85	AA	211	C
85	AA	212	G
85	AA	222	U
85	AA	224	C
85	AA	225	G
85	AA	230	U
85	AA	236	G
85	AA	237	G
85	AA	239	G
85	AA	240	A
85	AA	241	U
85	AA	242	G
85	AA	243	A
85	AA	244	G
85	AA	246	C
85	AA	251	A
85	AA	253	C
85	AA	254	G
85	AA	263	A
85	AA	264	A
85	AA	265	A
85	AA	266	U
85	AA	267	U
85	AA	269	G
85	AA	280	U
85	AA	282	C
85	AA	284	C
85	AA	290	G
85	AA	294	G
85	AA	295	U
85	AA	296	A
85	AA	298	C
85	AA	299	A
85	AA	300	C
85	AA	301	U
85	AA	302	C
85	AA	303	A
85	AA	304	G

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Mol	Chain	Res	Type
85	AA	307	G
85	AA	308	U
85	AA	311	U
85	AA	312	G
85	AA	313	A
85	AA	315	U
85	AA	316	C
85	AA	318	A
85	AA	326	C
85	AA	327	G
85	AA	328	U
85	AA	329	G
85	AA	330	C
85	AA	331	G
85	AA	332	A
85	AA	333	A
85	AA	334	A
85	AA	338	G
85	AA	344	U
85	AA	345	U
85	AA	356	U
85	AA	357	C
85	AA	358	U
85	AA	363	A
85	AA	375	C
85	AA	378	A
85	AA	379	U
85	AA	380	C
85	AA	382	G
85	AA	385	A
85	AA	386	G
85	AA	387	U
85	AA	388	G
85	AA	389	A
85	AA	390	U
85	AA	394	C
85	AA	395	G
85	AA	404	A
85	AA	412	G
85	AA	417	U
85	AA	418	G
85	AA	419	A

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Mol	Chain	Res	Type
85	AA	425	G
85	AA	435	A
85	AA	442	G
85	AA	443	A
85	AA	444	U
85	AA	445	U
85	AA	446	C
85	AA	453	G
85	AA	455	G
85	AA	464	A
85	AA	465	A
85	AA	466	A
85	AA	467	U
85	AA	468	A
85	AA	469	G
85	AA	482	C
85	AA	483	G
85	AA	487	G
85	AA	489	C
85	AA	495	G
85	AA	504	U
85	AA	505	U
85	AA	510	A
85	AA	518	A
85	AA	519	A
85	AA	520	A
85	AA	521	A
85	AA	522	A
85	AA	524	A
85	AA	526	G
85	AA	529	G
85	AA	530	A
85	AA	533	C
85	AA	538	A
85	AA	557	G
85	AA	571	G
85	AA	576	U
85	AA	578	U
85	AA	580	C
85	AA	582	A
85	AA	589	A
85	AA	590	U

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Mol	Chain	Res	Type
85	AA	591	A
85	AA	603	C
85	AA	604	C
85	AA	605	A
85	AA	606	A
85	AA	607	U
85	AA	608	A
85	AA	612	A
85	AA	615	A
85	AA	616	A
85	AA	618	A
85	AA	619	A
85	AA	620	U
85	AA	625	G
85	AA	628	C
85	AA	629	A
85	AA	633	C
85	AA	634	U
85	AA	639	C
85	AA	640	C
85	AA	648	G
85	AA	652	U
85	AA	653	A
85	AA	654	A
85	AA	655	U
85	AA	657	C
85	AA	660	G
85	AA	668	A
85	AA	669	G
85	AA	681	G
85	AA	682	C
85	AA	683	U
85	AA	684	G
85	AA	685	U
85	AA	687	G
85	AA	688	C
85	AA	693	A
85	AA	694	A
85	AA	696	G
85	AA	697	G
85	AA	698	G
85	AA	709	A

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Mol	Chain	Res	Type
85	AA	711	C
85	AA	712	U
85	AA	713	G
85	AA	714	U
85	AA	715	G
85	AA	724	A
85	AA	725	G
85	AA	726	U
85	AA	727	U
85	AA	728	U
85	AA	736	U
85	AA	737	G
85	AA	738	C
85	AA	739	C
85	AA	740	A
85	AA	741	G
85	AA	742	U
85	AA	744	C
85	AA	749	C
85	AA	750	A
85	AA	752	C
85	AA	753	U
85	AA	754	C
85	AA	756	G
85	AA	760	U
85	AA	761	G
85	AA	762	U
85	AA	763	U
85	AA	764	U
85	AA	765	U
85	AA	766	G
85	AA	767	A
85	AA	770	C
85	AA	771	A
85	AA	772	C
85	AA	776	C
85	AA	777	U
85	AA	779	G
85	AA	786	G
85	AA	787	U
85	AA	789	A
85	AA	790	A

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Mol	Chain	Res	Type
85	AA	791	C
85	AA	792	A
85	AA	793	C
85	AA	795	C
85	AA	797	C
85	AA	798	A
85	AA	799	G
85	AA	801	U
85	AA	803	C
85	AA	804	A
85	AA	805	A
85	AA	806	G
85	AA	809	A
85	AA	810	C
85	AA	815	G
85	AA	816	A
85	AA	818	C
85	AA	825	U
85	AA	826	C
85	AA	828	U
85	AA	829	C
85	AA	830	A
85	AA	831	C
85	AA	832	U
85	AA	833	U
85	AA	834	U
85	AA	836	A
85	AA	837	C
85	AA	838	G
85	AA	845	A
85	AA	846	U
85	AA	847	G
85	AA	853	G
85	AA	854	A
85	AA	855	G
85	AA	856	G
85	AA	861	G
85	AA	862	U
85	AA	868	A
85	AA	869	A
85	AA	873	U
85	AA	874	A

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Mol	Chain	Res	Type
85	AA	875	C
85	AA	883	A
85	AA	884	A
85	AA	885	A
85	AA	886	A
85	AA	887	A
85	AA	888	A
85	AA	889	G
85	AA	890	U
85	AA	891	G
85	AA	892	C
85	AA	893	G
85	AA	895	C
85	AA	899	A
85	AA	901	C
85	AA	902	A
85	AA	903	G
85	AA	904	U
85	AA	906	U
85	AA	907	G
85	AA	908	C
85	AA	909	C
85	AA	910	G
85	AA	914	U
85	AA	919	U
85	AA	923	A
85	AA	924	A
85	AA	927	A
85	AA	931	G
85	AA	934	A
85	AA	935	A
85	AA	937	G
85	AA	938	A
85	AA	940	G
85	AA	941	C
85	AA	942	A
85	AA	943	U
85	AA	945	A
85	AA	957	A
85	AA	961	U
85	AA	964	C
85	AA	965	G

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Mol	Chain	Res	Type
85	AA	974	U
85	AA	988	C
85	AA	989	U
85	AA	990	U
85	AA	998	U
85	AA	999	A
85	AA	1000	U
85	AA	1005	C
85	AA	1010	U
85	AA	1012	C
85	AA	1013	C
85	AA	1014	U
85	AA	1017	G
85	AA	1020	C
85	AA	1022	G
85	AA	1023	U
85	AA	1026	U
85	AA	1030	U
85	AA	1034	U
85	AA	1037	U
85	AA	1040	U
85	AA	1043	U
85	AA	1051	A
85	AA	1052	C
85	AA	1054	U
85	AA	1055	U
85	AA	1058	G
85	AA	1060	U
85	AA	1061	C
85	AA	1062	U
85	AA	1063	U
85	AA	1068	A
85	AA	1073	U
85	AA	1075	U
85	AA	1076	U
85	AA	1077	U
85	AA	1078	A
85	AA	1079	C
85	AA	1080	A
85	AA	1086	U
85	AA	1091	C
85	AA	1098	C

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Mol	Chain	Res	Type
85	AA	1103	A
85	AA	1104	G
85	AA	1106	A
85	AA	1107	A
85	AA	1108	U
85	AA	1109	G
85	AA	1111	A
85	AA	1112	G
85	AA	1113	G
85	AA	1114	A
85	AA	1121	U
85	AA	1125	G
85	AA	1130	G
85	AA	1136	A
85	AA	1138	U
85	AA	1140	G
85	AA	1143	C
85	AA	1145	U
85	AA	1148	G
85	AA	1153	G
85	AA	1154	A
85	AA	1157	U
85	AA	1158	U
85	AA	1159	C
85	AA	1161	U
85	AA	1162	A
85	AA	1163	G
85	AA	1177	G
85	AA	1179	A
85	AA	1183	C
85	AA	1184	A
85	AA	1191	G
85	AA	1193	A
85	AA	1208	C
85	AA	1209	U
85	AA	1212	C
85	AA	1213	U
85	AA	1214	C
85	AA	1215	A
85	AA	1219	A
85	AA	1236	G
85	AA	1237	A

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Mol	Chain	Res	Type
85	AA	1241	A
85	AA	1242	A
85	AA	1246	G
85	AA	1249	U
85	AA	1250	A
85	AA	1253	G
85	AA	1272	G
85	AA	1275	A
85	AA	1276	A
85	AA	1278	C
85	AA	1279	A
85	AA	1281	G
85	AA	1287	C
85	AA	1288	A
85	AA	1290	G
85	AA	1291	A
85	AA	1292	A
85	AA	1293	U
85	AA	1294	U
85	AA	1299	A
85	AA	1300	A
85	AA	1302	A
85	AA	1303	U
85	AA	1311	U
85	AA	1315	C
85	AA	1319	U
85	AA	1321	G
85	AA	1330	U
85	AA	1331	G
85	AA	1352	U
85	AA	1353	U
85	AA	1354	A
85	AA	1357	U
85	AA	1358	A
85	AA	1359	U
85	AA	1360	C
85	AA	1368	G
85	AA	1372	C
85	AA	1373	U
85	AA	1379	A
85	AA	1381	C
85	AA	1383	C

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Mol	Chain	Res	Type
85	AA	1391	U
85	AA	1393	C
85	AA	1397	U
85	AA	1399	U
85	AA	1400	U
85	AA	1406	U
85	AA	1407	C
85	AA	1416	U
85	AA	1417	U
85	AA	1420	U
85	AA	1422	A
85	AA	1423	C
85	AA	1425	G
85	AA	1430	A
85	AA	1433	C
85	AA	1434	U
85	AA	1436	A
85	AA	1437	G
85	AA	1441	G
85	AA	1446	U
85	AA	1449	C
85	AA	1450	U
85	AA	1457	C
85	AA	1458	G
85	AA	1459	C
85	AA	1466	U
85	AA	1467	U
85	AA	1468	G
85	AA	1469	G
85	AA	1470	A
85	AA	1471	G
85	AA	1474	U
85	AA	1475	A
85	AA	1476	C
85	AA	1477	A
85	AA	1478	G
85	AA	1486	G
85	AA	1490	A
85	AA	1491	G
85	AA	1492	U
85	AA	1493	A
85	AA	1494	C

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Mol	Chain	Res	Type
85	AA	1495	G
85	AA	1515	A
85	AA	1527	G
85	AA	1528	A
85	AA	1532	G
85	AA	1535	C
85	AA	1536	C
85	AA	1537	A
85	AA	1547	G
85	AA	1560	A
85	AA	1561	A
85	AA	1563	U
85	AA	1567	C
85	AA	1570	A
85	AA	1571	A
85	AA	1572	C
85	AA	1573	A
85	AA	1574	C
85	AA	1576	G
85	AA	1577	G
85	AA	1578	G
85	AA	1579	A
85	AA	1580	A
85	AA	1584	U
85	AA	1585	A
85	AA	1594	G
85	AA	1595	G
85	AA	1596	A
85	AA	1597	C
85	AA	1605	G
85	AA	1606	G
85	AA	1614	G
85	AA	1616	U
85	AA	1618	G
85	AA	1620	G
85	AA	1621	U
85	AA	1622	G
85	AA	1623	U
85	AA	1633	A
85	AA	1634	U
85	AA	1635	C
85	AA	1638	C

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Mol	Chain	Res	Type
85	AA	1643	U
85	AA	1646	U
85	AA	1647	G
85	AA	1650	G
85	AA	1651	C
85	AA	1661	U
85	AA	1662	U
85	AA	1663	U
85	AA	1664	G
85	AA	1665	G
85	AA	1683	U
85	AA	1684	U
85	AA	1689	G
85	AA	1691	U
85	AA	1692	U
85	AA	1698	A
85	AA	1699	A
85	AA	1702	G
85	AA	1706	A
85	AA	1717	G
85	AA	1718	C
85	AA	1719	C
85	AA	1722	G
85	AA	1724	A
85	AA	1725	G
85	AA	1726	G
85	AA	1729	C
85	AA	1731	G
85	AA	1736	U
85	AA	1752	C
85	AA	1753	A
85	AA	1754	G
85	AA	1756	C
85	AA	1758	C
85	AA	1759	U
85	AA	1760	C
85	AA	1770	U
85	AA	1772	U
85	AA	1773	U
85	AA	1774	U
85	AA	1785	U
85	AA	1788	U

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Mol	Chain	Res	Type
85	AA	1789	C
85	AA	1791	U
85	AA	1792	C
85	AA	1793	A
85	AA	1798	U
85	AA	1800	U
85	AA	1803	U
85	AA	1804	U
85	AA	1808	G
85	AA	1809	G
85	AA	1810	C
85	AA	1812	C
85	AA	1813	C
85	AA	1814	U
85	AA	1815	U
85	AA	1817	U
85	AA	1820	G
85	AA	1826	U
85	AA	1827	U
85	AA	1833	C
85	AA	1834	U
85	AA	1836	U
85	AA	1837	U
85	AA	1839	G
85	AA	1841	G
85	AA	1849	A
85	AA	1851	A
85	AA	1852	U
85	AA	1853	U
85	AA	1854	U
85	AA	1860	A
85	AA	1861	A
85	AA	1866	A
85	AA	1869	U
85	AA	1870	C
85	AA	1872	G
85	AA	1874	G
85	AA	1875	A
85	AA	1884	A
85	AA	1885	A
85	AA	1887	G
85	AA	1897	A

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Mol	Chain	Res	Type
85	AA	1898	C
85	AA	1899	A
85	AA	1911	A
85	AA	1912	U
85	AA	1913	G
85	AA	1920	A
85	AA	1921	G
85	AA	1922	A
85	AA	1923	A
85	AA	1924	C
85	AA	1925	A
85	AA	1926	A
85	AA	1929	G
85	AA	1931	C
85	AA	1932	C
85	AA	1933	G
85	AA	1934	A
85	AA	1943	U
85	AA	1945	A
85	AA	1947	A
85	AA	1957	C
85	AA	1958	C
85	AA	1959	G
85	AA	1960	C
85	AA	1964	A
85	AA	1973	G
85	AA	1974	C
85	AA	1979	A
85	AA	1980	A
85	AA	1981	A
85	AA	1982	C
85	AA	1983	C
85	AA	1984	A
85	AA	1986	G
85	AA	1987	G
85	AA	1988	A
85	AA	1989	A
85	AA	1990	U
85	AA	1993	C
85	AA	2000	C
85	AA	2001	C
85	AA	2003	C

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Mol	Chain	Res	Type
85	AA	2004	U
85	AA	2005	U
85	AA	2006	G
85	AA	2008	G
85	AA	2009	A
85	AA	2010	C
85	AA	2020	C
85	AA	2023	U
85	AA	2024	U
85	AA	2025	A
85	AA	2026	U
85	AA	2034	G
85	AA	2035	C
85	AA	2040	A
85	AA	2041	G
85	AA	2050	C
85	AA	2051	G
85	AA	2057	G
85	AA	2062	U
85	AA	2068	A
85	AA	2081	A
85	AA	2086	C
85	AA	2098	A
85	AA	2099	C
85	AA	2101	C
85	AA	2102	A
85	AA	2103	C
85	AA	2104	C
85	AA	2105	G
85	AA	2125	A
85	AA	2133	A
85	AA	2144	C
85	AA	2146	G
85	AA	2147	A
85	AA	2159	C
85	AA	2160	U
85	AA	2161	C
85	AA	2172	A
85	AA	2197	A
85	AA	2208	G
85	AA	2211	G
85	AA	2212	U

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Mol	Chain	Res	Type
85	AA	2213	A
85	AA	2215	C
85	AA	2216	A
85	AA	2218	G
85	AA	2219	G
85	AA	2220	U
85	AA	2222	G
85	AA	2230	U
85	AA	2231	G
85	AA	2234	C
85	AA	2243	G
85	AA	2244	G
85	AA	2245	A
85	AA	2246	U
85	AA	2247	C
85	AA	2248	A
85	AA	2249	U
85	AA	2250	U
85	AA	2251	U
86	AB	2	C
86	AB	3	C
86	AB	4	C
86	AB	8	U
86	AB	9	A
86	AB	15	G
86	AB	17	C
86	AB	18	G
86	AB	19	G
86	AB	20	U
86	AB	23	A
86	AB	27	G
86	AB	35	A
86	AB	37	A
86	AB	43	C
86	AB	46	G
86	AB	47	U
86	AB	48	C
86	AB	50	U
86	AB	55	U
86	AB	57	G
86	AB	58	A
86	AB	59	U

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Mol	Chain	Res	Type
86	AB	60	U
86	AB	65	G
86	AB	66	U
86	AB	70	G
86	AB	71	G
86	AB	72	C
86	AB	73	A

All (790) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
34	BA	13	U
34	BA	21	C
34	BA	62	A
34	BA	70	C
34	BA	84	U
34	BA	91	C
34	BA	114	U
34	BA	116	G
34	BA	120	A
34	BA	131	A
34	BA	140	C
34	BA	148	G
34	BA	156	U
34	BA	160	G
34	BA	165	C
34	BA	174	A
34	BA	177	G
34	BA	179	U
34	BA	187	G
34	BA	188	C
34	BA	215	C
34	BA	217	C
34	BA	218	G
34	BA	224	G
34	BA	225	A
34	BA	226	A
34	BA	247	U
34	BA	261	A
34	BA	270	U
34	BA	279	U
34	BA	281	C

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Mol	Chain	Res	Type
34	BA	283	U
34	BA	289	A
34	BA	294	C
34	BA	298	G
34	BA	301	U
34	BA	302	A
34	BA	303	C
34	BA	316	G
34	BA	317	U
34	BA	323	C
34	BA	344	G
34	BA	347	A
34	BA	360	C
34	BA	367	G
34	BA	368	U
34	BA	392	A
34	BA	394	A
34	BA	404	C
34	BA	411	C
34	BA	415	C
34	BA	463	A
34	BA	464	U
34	BA	469	C
34	BA	482	C
34	BA	487	A
34	BA	488	C
34	BA	508	C
34	BA	510	U
34	BA	511	U
34	BA	518	C
34	BA	519	G
34	BA	521	C
34	BA	525	A
34	BA	526	C
34	BA	530	A
34	BA	531	C
34	BA	538	G
34	BA	547	C
34	BA	561	U
34	BA	570	G
34	BA	574	U
34	BA	575	U

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Mol	Chain	Res	Type
34	BA	577	U
34	BA	578	C
34	BA	579	U
34	BA	581	U
34	BA	588	C
34	BA	592	G
34	BA	595	U
34	BA	596	G
34	BA	599	U
34	BA	607	C
34	BA	611	A
34	BA	625	U
34	BA	628	U
34	BA	629	G
34	BA	647	U
34	BA	650	C
34	BA	667	U
34	BA	672	G
34	BA	674	G
34	BA	680	C
34	BA	683	C
34	BA	687	G
34	BA	690	G
34	BA	712	C
34	BA	720	A
34	BA	722	A
34	BA	738	C
34	BA	739	A
34	BA	751	A
34	BA	752	A
34	BA	764	G
34	BA	769	U
34	BA	770	G
34	BA	771	A
34	BA	772	G
34	BA	785	G
34	BA	786	U
34	BA	787	A
34	BA	797	A
34	BA	799	A
34	BA	805	A
34	BA	807	U

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Mol	Chain	Res	Type
34	BA	813	C
34	BA	827	A
34	BA	833	U
34	BA	845	U
34	BA	847	U
34	BA	848	U
34	BA	849	G
34	BA	863	G
34	BA	875	G
34	BA	885	A
34	BA	895	U
34	BA	897	U
34	BA	915	A
34	BA	953	G
34	BA	972	C
34	BA	982	A
34	BA	995	A
34	BA	1007	G
34	BA	1023	G
34	BA	1035	A
34	BA	1036	G
34	BA	1042	U
34	BA	1079	C
34	BA	1080	U
34	BA	1083	A
34	BA	1085	G
34	BA	1097	G
34	BA	1120	U
34	BA	1121	U
34	BA	1131	G
34	BA	1168	C
34	BA	1179	U
34	BA	1180	A
34	BA	1187	U
34	BA	1188	U
34	BA	1197	U
34	BA	1198	U
34	BA	1199	U
34	BA	1200	U
34	BA	1216	G
34	BA	1262	A
34	BA	1267	A

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Mol	Chain	Res	Type
34	BA	1293	A
34	BA	1295	U
34	BA	1296	U
34	BA	1297	G
34	BA	1305	A
34	BA	1306	U
34	BA	1307	U
34	BA	1309	U
34	BA	1313	U
34	BA	1319	A
34	BA	1326	U
34	BA	1331	G
34	BA	1340	G
34	BA	1341	A
34	BA	1355	G
34	BA	1359	U
34	BA	1363	A
34	BA	1381	A
34	BA	1421	A
34	BA	1422	A
34	BA	1425	G
34	BA	1443	U
34	BA	1447	C
34	BA	1452	U
34	BA	1453	U
34	BA	1454	G
34	BA	1457	C
34	BA	1459	U
34	BA	1470	G
34	BA	1471	U
34	BA	1475	G
34	BA	1477	C
34	BA	1490	U
34	BA	1494	G
34	BA	1495	A
34	BA	1496	G
34	BA	1497	A
34	BA	1505	G
34	BA	1509	U
34	BA	1515	U
34	BA	1563	G
34	BA	1615	A

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Mol	Chain	Res	Type
34	BA	1616	A
34	BA	1622	U
34	BA	1625	C
34	BA	1628	A
34	BA	1635	A
34	BA	1648	G
34	BA	1651	C
34	BA	1660	A
34	BA	1674	G
34	BA	1678	U
34	BA	1697	U
34	BA	1713	U
34	BA	1716	A
34	BA	1725	U
34	BA	1775	U
34	BA	1793	G
34	BA	1794	A
34	BA	1795	A
34	BA	1796	A
34	BA	1797	A
34	BA	1805	C
34	BA	1806	A
34	BA	1809	G
34	BA	1816	G
34	BA	1825	U
34	BA	1831	A
35	BB	3	C
35	BB	28	G
35	BB	29	C
35	BB	30	A
35	BB	31	U
35	BB	32	C
35	BB	48	G
35	BB	49	A
35	BB	60	A
35	BB	61	A
35	BB	62	C
35	BB	69	A
35	BB	97	U
35	BB	98	A
35	BB	116	G
35	BB	145	G

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Mol	Chain	Res	Type
35	BB	147	C
35	BB	148	C
35	BB	261	C
35	BB	267	C
35	BB	295	U
35	BB	353	G
35	BB	361	A
35	BB	371	C
35	BB	380	G
35	BB	381	C
35	BB	383	U
35	BB	388	C
35	BB	443	A
35	BB	447	C
35	BB	475	A
35	BB	477	U
35	BB	488	G
35	BB	494	C
35	BB	516	G
35	BB	523	A
35	BB	524	C
35	BB	548	A
35	BB	561	C
35	BB	602	G
35	BB	639	A
35	BB	641	C
35	BB	650	A
35	BB	659	C
35	BB	667	G
35	BB	671	A
35	BB	713	U
35	BB	715	G
35	BB	735	A
35	BB	747	A
35	BB	754	U
35	BB	780	U
35	BB	792	G
35	BB	795	A
35	BB	796	C
35	BB	797	C
35	BB	799	A
35	BB	803	U

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Mol	Chain	Res	Type
35	BB	833	G
35	BB	838	G
35	BB	845	C
35	BB	848	A
35	BB	850	U
35	BB	851	U
35	BB	853	U
35	BB	860	U
35	BB	861	C
35	BB	863	U
35	BB	877	A
35	BB	878	G
35	BB	883	G
35	BB	884	U
35	BB	885	U
35	BB	892	U
35	BB	894	A
35	BB	896	C
35	BB	912	C
35	BB	942	G
35	BB	970	C
35	BB	971	A
35	BB	972	C
35	BB	974	C
35	BB	976	U
35	BB	981	A
35	BB	985	A
35	BB	986	C
35	BB	990	G
35	BB	991	C
35	BB	992	C
35	BB	1024	G
35	BB	1026	G
35	BB	1029	U
35	BB	1030	U
35	BB	1031	G
35	BB	1032	U
35	BB	1039	A
35	BB	1044	U
35	BB	1063	C
35	BB	1098	G
35	BB	1124	G

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Mol	Chain	Res	Type
35	BB	1126	A
35	BB	1136	G
35	BB	1151	A
35	BB	1165	A
35	BB	1166	A
35	BB	1167	C
35	BB	1178	A
35	BB	1200	A
35	BB	1219	A
35	BB	1220	A
35	BB	1221	G
35	BB	1225	A
35	BB	1227	G
35	BB	1230	A
35	BB	1235	A
35	BB	1258	G
35	BB	1259	A
35	BB	1275	A
35	BB	1276	U
35	BB	1300	U
35	BB	1325	C
35	BB	1354	C
35	BB	1436	U
35	BB	1437	U
35	BB	1454	G
35	BB	1459	U
35	BB	1460	G
35	BB	1461	C
35	BB	1464	G
35	BB	1468	A
35	BB	1472	U
35	BB	1474	A
35	BB	1482	A
35	BB	1489	A
35	BB	1498	G
35	BB	1502	U
35	BB	1503	U
35	BB	1504	U
35	BB	1505	U
35	BB	1506	C
35	BB	1517	G
35	BB	1520	C

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Mol	Chain	Res	Type
35	BB	1535	G
36	BC	1	A
36	BC	2	A
36	BC	22	U
36	BC	31	A
36	BC	32	U
36	BC	33	U
36	BC	34	U
36	BC	60	U
36	BC	61	A
36	BC	74	U
36	BC	80	A
36	BC	81	U
36	BC	84	U
36	BC	98	C
36	BC	110	A
36	BC	123	G
36	BC	156	A
36	BC	157	U
36	BC	158	U
36	BC	159	U
37	BD	12	U
37	BD	13	A
37	BD	24	U
37	BD	47	U
37	BD	51	G
37	BD	71	G
37	BD	83	A
37	BD	88	U
37	BD	98	G
38	BE	18	U
38	BE	19	G
38	BE	21	C
38	BE	22	A
38	BE	26	G
38	BE	32	U
38	BE	52	U
38	BE	70	C
38	BE	80	G
38	BE	82	C
38	BE	88	G
38	BE	102	U

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Mol	Chain	Res	Type
38	BE	111	C
38	BE	117	A
38	BE	118	C
38	BE	129	G
38	BE	133	C
38	BE	134	A
38	BE	135	A
38	BE	136	G
38	BE	141	A
38	BE	142	A
38	BE	155	C
38	BE	175	U
38	BE	181	U
38	BE	186	C
38	BE	208	G
39	BF	1	C
39	BF	2	G
39	BF	5	U
39	BF	6	C
39	BF	7	G
39	BF	8	C
39	BF	9	C
39	BF	11	C
39	BF	18	U
39	BF	20	U
39	BF	23	G
39	BF	25	G
39	BF	32	G
39	BF	40	U
39	BF	41	U
39	BF	43	U
39	BF	51	C
39	BF	53	G
39	BF	60	C
39	BF	62	U
39	BF	63	U
39	BF	66	C
39	BF	71	G
40	BG	12	A
40	BG	14	G
40	BG	21	C
40	BG	84	U

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Mol	Chain	Res	Type
40	BG	106	G
40	BG	107	U
40	BG	149	U
40	BG	168	A
41	BH	24	U
41	BH	26	C
41	BH	27	A
41	BH	30	C
41	BH	33	G
41	BH	38	G
41	BH	41	A
41	BH	42	U
41	BH	62	C
41	BH	71	C
41	BH	72	G
41	BH	81	U
41	BH	85	C
41	BH	116	A
41	BH	117	U
41	BH	118	U
85	AA	1	G
85	AA	3	U
85	AA	8	U
85	AA	25	C
85	AA	28	A
85	AA	33	U
85	AA	39	A
85	AA	42	G
85	AA	44	C
85	AA	45	U
85	AA	46	U
85	AA	47	A
85	AA	56	U
85	AA	67	C
85	AA	82	A
85	AA	90	A
85	AA	96	C
85	AA	100	A
85	AA	101	C
85	AA	111	A
85	AA	123	A
85	AA	125	A

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Mol	Chain	Res	Type
85	AA	127	U
85	AA	143	U
85	AA	144	A
85	AA	145	C
85	AA	157	G
85	AA	174	U
85	AA	183	C
85	AA	192	G
85	AA	197	C
85	AA	206	U
85	AA	240	A
85	AA	243	A
85	AA	245	A
85	AA	262	G
85	AA	265	A
85	AA	266	U
85	AA	284	C
85	AA	293	A
85	AA	294	G
85	AA	295	U
85	AA	300	C
85	AA	303	A
85	AA	304	G
85	AA	312	G
85	AA	314	C
85	AA	315	U
85	AA	325	C
85	AA	326	C
85	AA	327	G
85	AA	329	G
85	AA	332	A
85	AA	333	A
85	AA	344	U
85	AA	357	C
85	AA	378	A
85	AA	385	A
85	AA	387	U
85	AA	388	G
85	AA	394	C
85	AA	403	G
85	AA	411	U
85	AA	416	U

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Mol	Chain	Res	Type
85	AA	418	G
85	AA	425	G
85	AA	435	A
85	AA	445	U
85	AA	452	A
85	AA	454	G
85	AA	463	G
85	AA	465	A
85	AA	467	U
85	AA	482	C
85	AA	486	G
85	AA	488	G
85	AA	503	A
85	AA	504	U
85	AA	505	U
85	AA	509	C
85	AA	519	A
85	AA	520	A
85	AA	521	A
85	AA	523	U
85	AA	529	G
85	AA	575	G
85	AA	589	A
85	AA	590	U
85	AA	591	A
85	AA	603	C
85	AA	604	C
85	AA	606	A
85	AA	617	C
85	AA	619	A
85	AA	628	C
85	AA	632	U
85	AA	639	C
85	AA	652	U
85	AA	653	A
85	AA	656	U
85	AA	668	A
85	AA	682	C
85	AA	687	G
85	AA	696	G
85	AA	708	G
85	AA	711	C

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Mol	Chain	Res	Type
85	AA	714	U
85	AA	725	G
85	AA	727	U
85	AA	735	G
85	AA	743	C
85	AA	752	C
85	AA	753	U
85	AA	759	G
85	AA	761	G
85	AA	764	U
85	AA	765	U
85	AA	775	C
85	AA	785	C
85	AA	789	A
85	AA	791	C
85	AA	808	A
85	AA	809	A
85	AA	824	C
85	AA	829	C
85	AA	830	A
85	AA	837	C
85	AA	845	A
85	AA	846	U
85	AA	852	C
85	AA	854	A
85	AA	860	C
85	AA	861	G
85	AA	867	G
85	AA	873	U
85	AA	882	C
85	AA	884	A
85	AA	886	A
85	AA	888	A
85	AA	891	G
85	AA	895	C
85	AA	900	G
85	AA	901	C
85	AA	906	U
85	AA	907	G
85	AA	909	C
85	AA	923	A
85	AA	926	C

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Mol	Chain	Res	Type
85	AA	930	G
85	AA	936	C
85	AA	940	G
85	AA	941	C
85	AA	942	A
85	AA	960	G
85	AA	964	C
85	AA	990	U
85	AA	998	U
85	AA	1009	G
85	AA	1012	C
85	AA	1016	G
85	AA	1022	G
85	AA	1032	U
85	AA	1035	C
85	AA	1051	A
85	AA	1053	A
85	AA	1057	G
85	AA	1061	C
85	AA	1062	U
85	AA	1067	G
85	AA	1074	U
85	AA	1076	U
85	AA	1090	A
85	AA	1103	A
85	AA	1105	G
85	AA	1106	A
85	AA	1110	A
85	AA	1111	A
85	AA	1112	G
85	AA	1147	A
85	AA	1153	G
85	AA	1158	U
85	AA	1180	C
85	AA	1182	A
85	AA	1183	C
85	AA	1208	C
85	AA	1212	C
85	AA	1213	U
85	AA	1237	A
85	AA	1252	A
85	AA	1264	U

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Mol	Chain	Res	Type
85	AA	1275	A
85	AA	1277	C
85	AA	1279	A
85	AA	1280	U
85	AA	1291	A
85	AA	1301	C
85	AA	1302	A
85	AA	1310	G
85	AA	1314	C
85	AA	1329	U
85	AA	1351	U
85	AA	1353	U
85	AA	1357	U
85	AA	1358	A
85	AA	1371	C
85	AA	1378	U
85	AA	1396	C
85	AA	1399	U
85	AA	1416	U
85	AA	1421	U
85	AA	1424	G
85	AA	1449	C
85	AA	1468	G
85	AA	1469	G
85	AA	1470	A
85	AA	1473	U
85	AA	1474	U
85	AA	1475	A
85	AA	1485	G
85	AA	1490	A
85	AA	1491	G
85	AA	1493	A
85	AA	1494	C
85	AA	1514	A
85	AA	1535	C
85	AA	1560	A
85	AA	1562	U
85	AA	1570	A
85	AA	1576	G
85	AA	1577	G
85	AA	1578	G
85	AA	1579	A

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Mol	Chain	Res	Type
85	AA	1584	U
85	AA	1593	C
85	AA	1604	A
85	AA	1605	G
85	AA	1622	G
85	AA	1632	G
85	AA	1633	A
85	AA	1646	U
85	AA	1650	G
85	AA	1661	U
85	AA	1662	U
85	AA	1664	G
85	AA	1682	U
85	AA	1683	U
85	AA	1690	A
85	AA	1691	U
85	AA	1698	A
85	AA	1716	U
85	AA	1718	C
85	AA	1725	G
85	AA	1728	G
85	AA	1730	C
85	AA	1735	U
85	AA	1751	G
85	AA	1752	C
85	AA	1753	A
85	AA	1784	G
85	AA	1787	G
85	AA	1791	U
85	AA	1803	U
85	AA	1807	A
85	AA	1810	C
85	AA	1825	A
85	AA	1835	U
85	AA	1852	U
85	AA	1853	U
85	AA	1860	A
85	AA	1874	G
85	AA	1884	A
85	AA	1886	U
85	AA	1896	G
85	AA	1898	C

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Mol	Chain	Res	Type
85	AA	1911	A
85	AA	1912	U
85	AA	1920	A
85	AA	1923	A
85	AA	1928	A
85	AA	1930	U
85	AA	1946	C
85	AA	1964	A
85	AA	1973	G
85	AA	1978	G
85	AA	1980	A
85	AA	1982	C
85	AA	1989	A
85	AA	2000	C
85	AA	2003	C
85	AA	2004	U
85	AA	2005	U
85	AA	2024	U
85	AA	2040	A
85	AA	2051	G
85	AA	2062	U
85	AA	2068	A
85	AA	2082	C
85	AA	2085	C
85	AA	2098	A
85	AA	2100	A
85	AA	2103	C
85	AA	2104	C
85	AA	2125	A
85	AA	2132	A
85	AA	2215	C
85	AA	2216	A
85	AA	2218	G
85	AA	2219	G
85	AA	2242	U
85	AA	2244	G
85	AA	2245	A
85	AA	2249	U
86	AB	3	C
86	AB	8	U
86	AB	20	U
86	AB	54	U

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Mol	Chain	Res	Type
86	AB	56	C
86	AB	65	G
86	AB	70	G

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
34	BA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BA	546:U	O3'	547:C	P	2.11