



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 03:28 PM BST

PDB ID : 5AA0
EMDB ID: : EMD-6397
Title : Complex of Thermophilus thermophilus ribosome (A-and P-site tRNA) bound to BipA-GDPCP
Authors : Kumar, V.; Chen, Y.; Ahmed, T.; Tan, J.; Ero, R.; Bhushan, S.; Gao, Y.-G.
Deposited on : 2015-07-23
Resolution : 5.00 Å(reported)
Based on PDB ID : 4V4Y

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

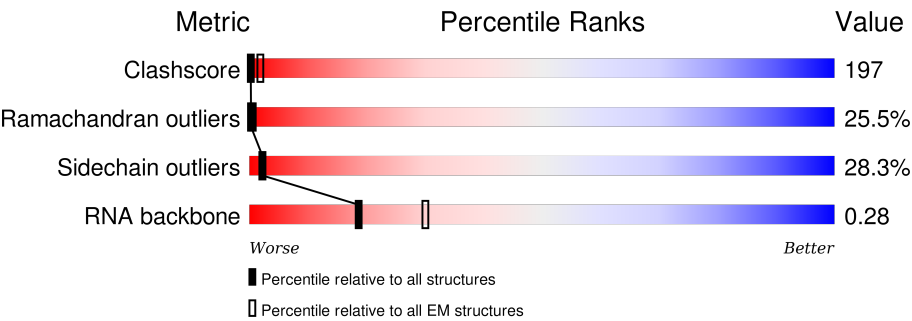
MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

1 Overall quality at a glance i

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

The reported resolution of this entry is 5.00 Å.

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







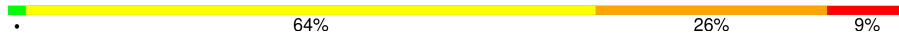
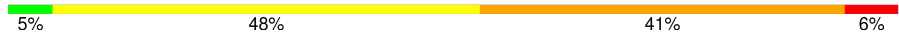

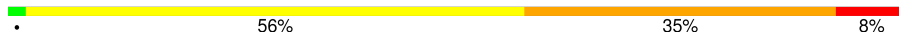

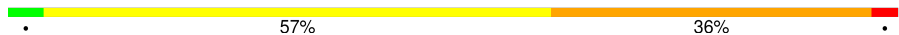
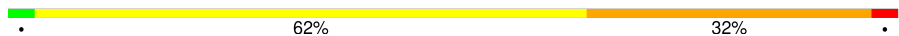
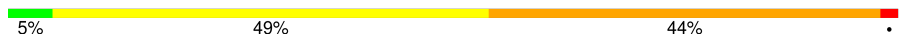
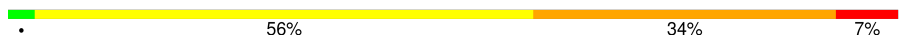
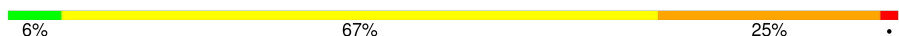




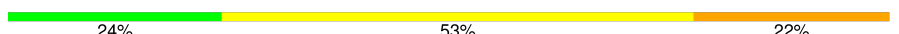





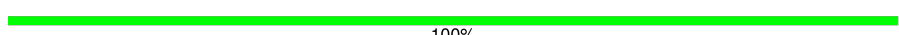
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686
RNA backbone	3027	244

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

Mol	Chain	Length	Quality of chain
1	AA	2889	<div><div>44%</div><div>43%</div><div>12%</div></div>
2	AB	123	<div><div>52%</div><div>39%</div><div>9%</div></div>
3	AC	228	<div><div>6%</div><div>74%</div><div>18%</div></div>
4	AD	272	<div><div>53%</div><div>34%</div><div>11%</div></div>
5	AE	206	<div><div>45%</div><div>39%</div><div>12%</div></div>
6	AF	208	<div><div>51%</div><div>36%</div><div>9%</div></div>
7	AG	182	<div><div>54%</div><div>36%</div><div>9%</div></div>
8	AH	174	<div><div>7%</div><div>53%</div><div>33%</div><div>7%</div></div>




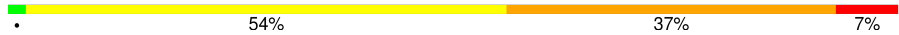
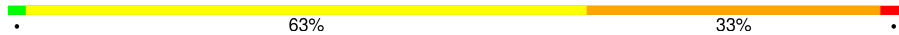
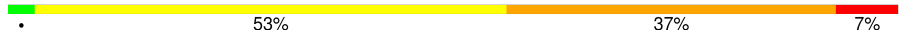
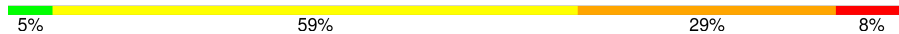
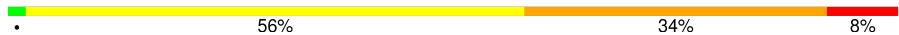
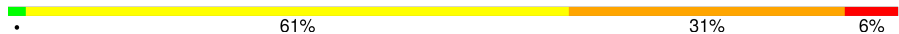
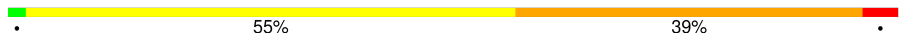
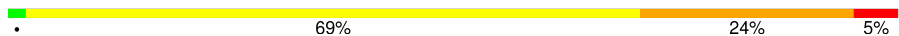
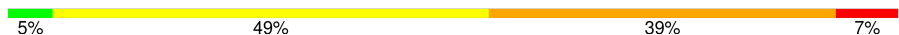
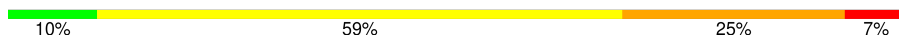
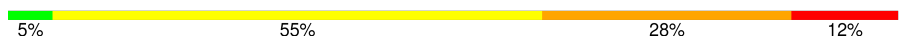











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Mol	Chain	Length	Quality of chain
9	AK	139	
10	AL	122	
11	AM	145	
12	AN	136	
13	AO	117	
14	AP	110	
15	AQ	117	
16	AR	117	
17	AS	101	
18	AT	110	
19	AU	94	
20	AV	110	
21	AW	180	
22	AX	85	
23	AY	67	
24	AZ	59	
25	Aa	71	
26	Ab	57	
27	Ac	49	
28	Ad	49	
29	Ae	64	
30	Af	37	
31	AI	153	
32	AJ	134	
33	Ag	128	

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Mol	Chain	Length	Quality of chain
34	BA	1515	
35	BF	234	
36	BG	206	
37	BH	208	
38	BI	150	
39	BJ	101	
40	BK	155	
41	BL	138	
42	BM	127	
43	BN	98	
44	BO	119	
45	BP	124	
46	BQ	114	
47	BR	60	
48	BS	88	
49	BT	83	
50	BU	104	
51	BV	73	
52	BW	80	
53	BX	99	
54	BY	24	
55	BC	76	
56	BD	75	
56	BE	75	
57	BZ	605	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	NMY	AA	3001	-	-	X	-
59	8AN	AA	3002	-	-	X	-
59	8AN	AA	3003	-	-	X	-
60	GCP	BZ	701	-	-	X	-

2 Entry composition

There are 60 unique types of molecules in this entry. The entry contains 155482 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	2889	Total	C	N	O	P	0	0
			62218	27691	11629	20009	2889		

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	A	deletion	GB 37223181
AA	?	-	A	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	A	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	G	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	?	-	C	deletion	GB 37223181
AA	1134	G	UNK	conflict	GB 37223181

- Molecule 2 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AB	123	Total	C	N	O	P	0	0
			2641	1175	488	855	123		

- Molecule 3 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AC	228	Total	C	N	O	S	0	0
			1742	1102	318	319	3		

- Molecule 4 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AD	272	Total	C	N	O	S	0	0
			2124	1339	424	358	3		

- Molecule 5 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AE	206	Total	C	N	O	S	0	0
			1578	997	302	273	6		

- Molecule 6 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AF	208	Total	C	N	O	S	0	0
			1625	1034	303	286	2		

- Molecule 7 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AG	182	Total	C	N	O	S	0	0
			1482	947	269	261	5		

- Molecule 8 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AH	174	Total	C	N	O	S	0	0
			1328	844	248	235	1		

- Molecule 9 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AK	139	Total	C	N	O	S	0	0
			1113	717	207	186	3		

- Molecule 10 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AL	122	Total	C	N	O	S	0	0
			932	587	171	170	4		

- Molecule 11 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AM	145	Total	C	N	O	S	0	0
			1106	688	226	190	2		

- Molecule 12 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AN	136	Total	C	N	O	S	0	0
			1080	688	204	183	5		

- Molecule 13 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				AltConf	Trace
13	AO	117	Total	C	N	O	0	0
			960	599	202	159		

- Molecule 14 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	AP	110	Total	C	N	O	0	0
			877	553	175	149		

- Molecule 15 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AQ	117	Total	C	N	O	S	0	0
			976	614	197	164	1		

- Molecule 16 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AR	117	Total	C	N	O	S	0	0
			964	610	202	151	1		

- Molecule 17 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AS	101	Total	C	N	O	S	0	0
			779	501	142	135	1		

- Molecule 18 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AT	110	Total	C	N	O	S	0	0
			876	552	171	151	2		

- Molecule 19 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				AltConf	Trace
19	AU	94	Total	C	N	O	0	0
			742	483	133	126		

- Molecule 20 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AV	110	Total	C	N	O	S	0	0
			844	539	158	141	6		

- Molecule 21 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AW	180	Total	C	N	O	S	0	0
			1435	916	256	260	3		

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	AX	85	Total	C	N	O	S	0	0
			670	415	141	112	2		

- Molecule 23 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AY	67	Total	C	N	O	S	0	0
			567	350	116	99	2		

- Molecule 24 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AZ	59	Total	C	N	O		0	0
			469	298	90	81			

- Molecule 25 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	Aa	71	Total	C	N	O	S	0	0
			581	364	108	104	5		

- Molecule 26 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	Ab	57	Total	C	N	O	S	0	0
			445	279	87	74	5		

- Molecule 27 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	Ac	49	Total	C	N	O	S	0	0
			426	265	87	70	4		

- Molecule 28 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	Ad	49	Total	C	N	O	S	0	0
			430	263	108	57	2		

- Molecule 29 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	Ae	64	Total	C	N	O	S	0	0
			515	331	102	79	3		

- Molecule 30 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	Af	37	Total	C	N	O	S	0	0
			307	188	68	47	4		

- Molecule 31 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AI	153	Total	C	N	O		0	0
			752	446	153	153			

- Molecule 32 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AJ	134	Total	C	N	O	S	0	0
			993	632	175	181	5		

- Molecule 33 is a protein called Unknown peptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	Ag	128	Total	C	N	O		0	5
			620	369	128	123			

- Molecule 34 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BA	1515	Total	C	N	O	P	0	0
			32554	14490	6022	10527	1515		

- Molecule 35 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BF	234	Total	C	N	O	S	0	0
			1900	1213	341	341	5		

- Molecule 36 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BG	206	Total	C	N	O	S	0	0
			1612	1016	314	281	1		

- Molecule 37 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BH	208	Total	C	N	O	S	0	0
			1703	1066	339	291	7		

- Molecule 38 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	BI	150	Total	C	N	O	S	0	0
			1146	724	217	201	4		

- Molecule 39 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BJ	101	Total	C	N	O	S	0	0
			843	531	155	154	3		

- Molecule 40 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	BK	155	Total	C	N	O	S	0	0
			1257	781	252	218	6		

- Molecule 41 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BL	138	Total	C	N	O	S	0	0
			1116	705	215	193	3		

- Molecule 42 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BM	127	Total	C	N	O		0	0
			1010	639	197	174			

- Molecule 43 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	BN	98	Total	C	N	O	S	0	0
			794	499	156	138	1		

- Molecule 44 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BO	119	Total	C	N	O	S	0	0
			885	549	168	165	3		

- Molecule 45 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BP	124	Total	C	N	O	S	0	0
			970	611	195	163	1		

- Molecule 46 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BQ	114	Total	C	N	O	S	0	0
			914	565	189	158	2		

- Molecule 47 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	BR	60	Total	C	N	O	S	0	0
			492	312	104	72	4		

- Molecule 48 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	BS	88	Total	C	N	O	S	0	0
			734	459	147	126	2		

- Molecule 49 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	BT	83	Total	C	N	O	S	0	0
			700	443	139	117	1		

- Molecule 50 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	BU	104	Total	C	N	O	S	0	0
			857	547	161	147	2		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BU	96	GLN	GLU	conflict	UNP Q5SHP7

- Molecule 51 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				AltConf	Trace
51	BV	73	Total	C	N	O	0	0
			597	380	118	99		

- Molecule 52 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	BW	80	Total	C	N	O	S	0	0
			647	414	119	112	2		

- Molecule 53 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	BX	99	Total	C	N	O	S	0	0
			763	470	162	129	2		

- Molecule 54 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				AltConf	Trace
54	BY	24	Total	C	N	O	0	0
			208	128	50	30		

- Molecule 55 is a RNA chain called tRNA chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	BC	76	Total	C	N	O	P	0	0
			1619	723	290	531	75		

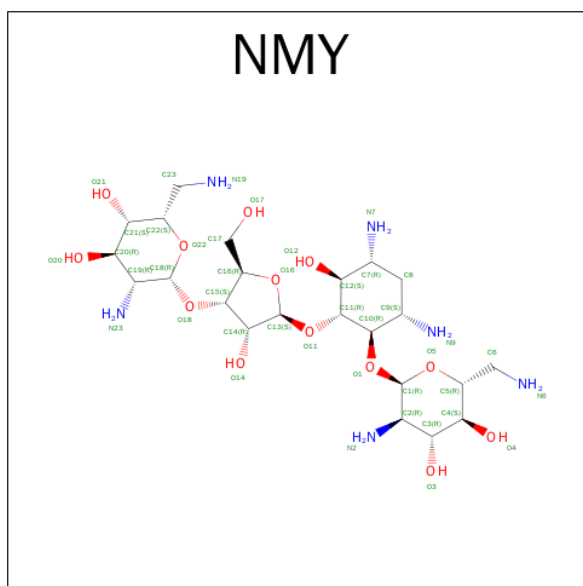
- Molecule 56 is a RNA chain called tRNA chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	BD	75	Total	C	N	O	P	0	0
			1597	713	285	525	74		
56	BE	75	Total	C	N	O	P	0	0
			1597	713	285	525	74		

- Molecule 57 is a protein called GTP-binding protein.

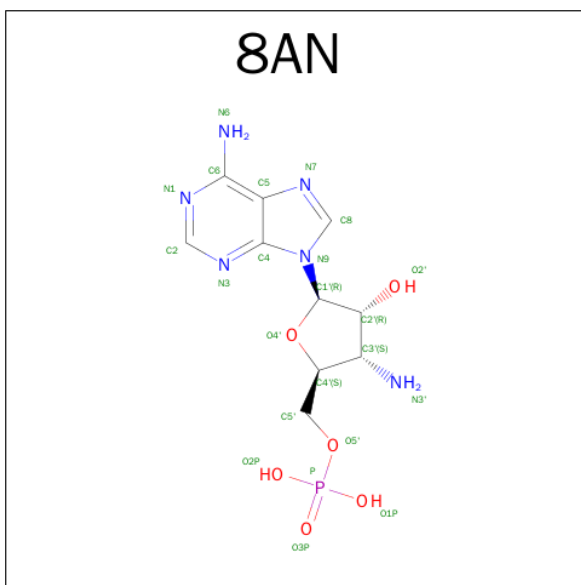
Mol	Chain	Residues	Atoms					AltConf	Trace
57	BZ	605	Total	C	N	O	S	0	0
			4610	2902	807	883	18		

- Molecule 58 is NEOMYCIN (three-letter code: NMY) (formula: $\text{C}_{23}\text{H}_{46}\text{N}_6\text{O}_{13}$).



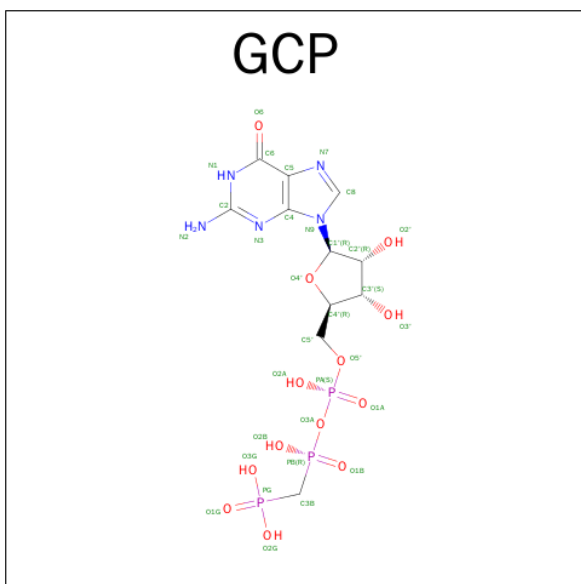
Mol	Chain	Residues	Atoms				AltConf
58	AA	1	Total 42	C 23	N 6	O 13	0
58	BA	1	Total 42	C 23	N 6	O 13	0

- Molecule 59 is 3'-amino-3'-deoxyadenosine 5'-(dihydrogen phosphate) (three-letter code: 8AN) (formula: $\text{C}_{10}\text{H}_{15}\text{N}_6\text{O}_6\text{P}$).



Mol	Chain	Residues	Atoms					AltConf
59	AA	1	Total	C	N	O	P	0
			44	20	12	10	2	
59	AA	1	Total	C	N	O	P	0
			44	20	12	10	2	

- Molecule 60 is PHOSPHOMETHYLPHOSPHONIC ACID GUANYLATE ESTER (three-letter code: GCP) (formula: $C_{11}H_{18}N_5O_{13}P_3$).

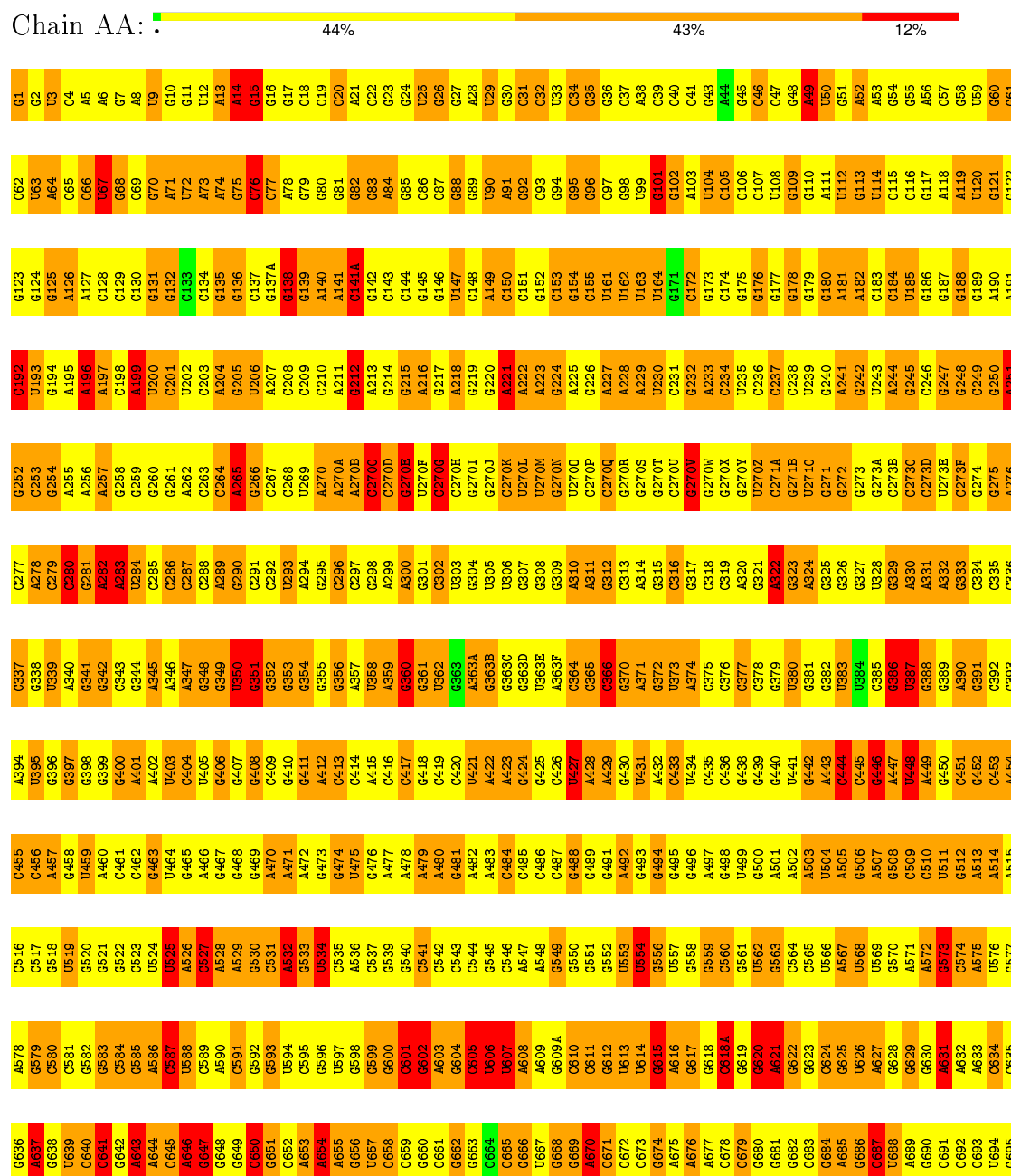


Mol	Chain	Residues	Atoms					AltConf
60	BZ	1	Total	C	N	O	P	0
			32	11	5	13	3	

3 Residue-property plots

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

• Molecule 1: 23S ribosomal RNA



C1598	C1538	A1477	G1448	G1368	C1298	G1238	A1177	G1117	A1057	G997	G938	C876	C816	C756	G696
C1599	G1539	G1478	A1419	A1369	G1299	G1239	C1178	C1118	G1058	C998	G939	U877	C817	U757	C697
C1600	G1540	G1479	A1420	G1360	U1300	U1240	C1179	C1119	G1059	U999	G940	A878	C818	U758	C698
C1601	U1541	G1480	G1421	G1361	A1301	A1241	G1120	G1120	U1060	A1000	A941	A879	A819	G759	A699
U1602	U1482	U1483	G1422	C1362	A1302	A1242	C1181	C1121	U1061	A1001	G942	G880	A820	G760	G701
C1603	A1543	G1483	G1423	C1363	G1303	G1243	C1182	G1122	G1062	G1002	U943	G881	A821	A761	G702
C1604	C1544	G1484	G1424	G1364	C1304	G1244	G1183	C1123	G1063	G1003	G944	G882	U822	U762	G703
C1605	A1545	G1485	G1425	A1365	C1305	G1245	G1184	C1124	U1065	C1004	A945	G883	A823	A764	G704
C1606	A1546	A1486	G1426	A1366	C1306	A1246	G1185	G1125	U1066	C1005	G946	G884	A824	A765	A705
C1607	C1547	G1487	A1427	G1367	A1307	A1247	G1186	A1126	A1067	C1006	G947	C885	C825	C766	A706
C1608	C1548	G1488	G1428	G1368	A1308	G1248	G1187	A1127	A1068	C1007	G948	C886	U826	C767	A707
A1609	C1549	U1489	G1429	C1369	U1249	U1249	U1188	A1128	G1069	U1008	C949	A887	U827	U767	G707
A1610	C1550	A1490	C1430	C1370	G1310	G1250	A1189	A1129	A1069	A1009	G950	C888	U828	C768	C708
C1611	C1551	G1491	U1431	G1371	G1311	G1251	G1190	U1130	A1070	A1010	C951	C889	A829	G769	U709
C1612	C1552	G1492	U1432	U1372	U1312	G1252	G1191	G1131	G1071	G1011	G952	A890	C830	G770	G710
C1613	C1553	C1493	U1433	A1373	G1313	G1253	G1192	A1132	C1072	U1012	A953	A891	C831	G771	G711
A1614	A1554	A1494	A1434	G1374	C1314	A1254	G1193	U1133	A1073	C1013	G954	C893	C832	U772	G712
C1615	A1555	A1495	G1435	C1375	C1315	U1255	A1194	G1134	G1074	U1014	C955	C894	U833	C773	G713
A1616	C1556	A1496	G1436	C1376	U1316	G1256	G1195	C1135	C1075	G1015	G956	U895	C834	A774	U714
C1617	C1557	U1497	C1437	G1377	A1317	C1257	C1196	G1136	C1076	G1016	A957	A896	A835	G775	G715
A1618	A1558	U1498	U1438	A1378	C1318	C1258	G1197	G1137	A1077	C1017	U958	C897	G836	G776	A716
G1619	G1559	G1499	A1439	A1379	G1319	G1259	U1198	G1138	U1078	C1018	A959	C898	C837	A777	G717
G1620	C1560	G1500	G1440	G1380	C1320	G1260	U1199	G1139	C1079	U1019	A960	A899	C838	A778	A718
U1621	G1501	C1501	G1441	G1381	A1321	C1261	C1200	G1140	C1080	A1020	C961	A900	U839	U779	C719
G1622	C1502	C1502	G1442	G1382	A1322	A1262	C1201	U1141	U1081	G962	C962	A901	C840	G780	C720
C1623	U1503	U1503	G1443	C1383	U1323	U1263	C1202	U1142	U1082	G1022	U963	C902	A841	A781	C721
G1624	C1504	C1504	G1444	A1384	G1324	G1264	G1203	A1143	U1083	U1023	C964	C903	G842	A782	C722
C1625	C1505	C1505	A1444	A1385	G1325	A1265	A1204	A1144	A1084	G965	C965	C904	G843	A783	G723
G1626	C1506	C1506	G1445	G1386	U1326	G1266	U1205	G1144	A1085	U1025	G966	U905	C844	A784	U724
G1627	A1507	A1507	G1446	C1387	G1327	U1267	G1206	C1145	A1086	G1026	C967	G906	G845	G785	G725
G1628	A1508	G1447	G1447	G1388	G1328	A1268	C1207	C1146	G1087	A1027	G968	U907	C846	G786	G726
U1629	C1509	G1448	G1448	G1389	U1329	A1269	C1208	C1147	A1088	A1028	U969	C908	U847	U787	A727
G1630	A1510	A1449	A1449	U1390	C1330	C1270	G1209	G1148	G1089	A1029	C970	A909	G848	A788	G728
C1630A	A1511	C1450	G1449A	U1391	A1331	G1271	A1210	G1149	U1090	G1030	C971	A910	A849	A789	G729
A1631	G1512	C1451	G1450	G1392	G1332	A1272	U1211	C1150	G1091	A1031	C972	A911	C850	C790	C730
A1632	C1513	C1451	C1451	C1393	C1333	U1273	G1212	G1151	G1092	A1032	A973	C912	U851	C791	C731
G1633	U1514	G1453	G1453	U1394	G1334	A1274	A1213	C1152	G1093	U1033	G974	U913	G852	G792	C732
A1634	C1515	U1454	U1454	A1395	U1335	A1275	A1214	C1153	U1094	G1034	C974A	C914	G853	A793	G733
C1635	U1516	C1455	G1455	C1396	A1336	A1276	G1215	G1154	A1095	U1035	G975	C915	G854	G794	A734
C1636	G1517	G1456	G1456	U1397	G1337	G1277	G1216	A1155	A1096	G1036	C976	A916	G855	C795	A735
A1637	C1518	C1457	C1457	G1398	G1338	A1278	C1217	A1156	U1097	G1037	G977	A917	C856	C796	C736
C1638	U1519	G1458	G1458	C1399	G1339	G1279	G1217	G1157	A1098	C1038	G978	A918	C857	C797	C737
A1639	U1520	G1459	G1459	G1400	U1340	G1280	A1220	C1158	G1099	G1039	G979	G919	U858	G798	G738
C1640	G1521	U1460	G1461	G1401	U1341	G1281	C1221	U1159	C1100	C1040	A980	G920	G859	G799	G739
A1641	G1522	G1462	G1462	C1402	A1342	U1282	C1222	G1160	U1101	C1041	A981	G921	U860	A800	U740
G1642	U1523	C1463	C1463	C1403	G1343	G1283	C1223	C1161	C1102	G1042	C982	U922	A861	G801	G741
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C1644	G1585	G1525	C1465	U1405	C1345	G1285	G1225	G1163	C1104	G1044	A984	C924	A863	U803	G743
G1645	G1526	G1465	G1465	U1406	G1346	A1286	G1226	G1164	U1105	A1045	C985	C925	G864	A804	G744
C1646	G1527	G1466	G1466	C1407	G1347	A1287	A1227	U1165	G1106	U1046	C986	A926	C865	G805	G745
G1647	A1528	C1467	C1467	C1408	G1348	U1288	G1228	C1166	G1107	G1047	C987	G928	A866	C806	A746
C1648	A1529	C1468	C1468	C1409	A1349	U1289	C1229	U1167	U1108	A1048	A988	G929	C867	U807	U747
G1649	U1590	A1469	G1470	C1410	C1350	C1290	C1230	G1168	C1109	C1049	G989	U930	U868	G808	G748
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A1652	C1533	A1472	G1473	G1413	A1353	C1293	G1233	G1171	G1112	C1052	C992	A933	U871	U811	A751
G1653	G1534	G1474	G1474	G1414	A1354	U1294	U1234	G1173	U1113	C1053	G993	G934	A872	C812	A752
A1654	U1535	G1475	G1475	U1415	G1355	C1295	U1235	G1174	G1114	A1054	C994	C935	G873	U813	C753
A1655	C1475	G1475	G1475	G1416	G1356	G1296	G1236	U1175	G1115	G1055	C995	G936	G874	C814	C754
C1656	C1537	C1476	C1476	C1417	U1357	C1297	A1237	G1176	C1116	G1056	A996	U937	G875	C815	C755

G2592	G2593	G2594	G2595	G2596	G2597	G2598	G2599	G2600	G2601	G2602	G2603	G2604	G2605	G2606	G2607	G2608	G2609	G2610	G2611	G2612	G2613	G2614	G2615	G2616	G2617	G2618	G2619	G2620	G2621	G2622	G2623	G2624	G2625	G2626	G2627	G2628	G2629	G2630	G2631	G2632	G2633	G2634	G2635	G2636	G2637	G2638	G2639	G2640	G2641	G2642	G2643	G2644	G2645	G2646	G2647	G2648	G2649	G2650	G2651										
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C2292	C2293	C2294	C2295	C2296	C2297	C2298	C2299	C2300	C2301	C2302	C2303	C2304	C2305	C2306	C2307	C2308	C2309	C2310	C2311	C2312	C2313	C2314	C2315	C2316	C2317	C2318	C2319	C2320	C2321	C2322	C2323	C2324	C2325	C2326	C2327	C2328	C2329	C2330	C2331	C2332	C2333	C2334	C2335	C2336	C2337	C2338	C2339	C2340	C2341	C2342	C2343	C2344	C2345	C2346	C2347	C2348	C2349	C2350	C2351										
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C1982	C1983	C1984	C1985	C1986	C1987	C1988	C1989	C1990	C1991	C1992	C1993	C1994	C1995	C1996	C1997	C1998	C1999	C2000	C2001	C2002	C2003	C2004	A2005	C2006	C2007	C2008	C2009	C2010	C2011	C2012	C2013	A2014	C2015	C2016	C2017	C2018	A2019	A2020	C2021	C2022	C2023	C2024	C2025	C2026	C2027	C2028	C2029	A2030	A2031	C2032	C2033	C2034	C2035	C2036	C2037	C2038	C2039	U2041											
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G1793	U1794	G1795	U1796	U1797	U1798	G1799	C1800	G1793	G1794	G1795	A1802	A1803	A1804	U1805	C1806	A1807	U1808	A1809	A1810	G1811	A1812	C1813	A1814	A1815	A1816	U1817	U1818	A1819	A1820	A1821	C1822	C1823	C1824	A1825	C1826	C1827	C1828	A1829	C1830	C1831	C1832	C1833	C1834	C1835	C1836	C1837	C1838	C1839	C1840	U1841	C1842	C1843	C1844	C1845	A1846	A1847	A1848	C1849	C1850	U1851	C1852								
G1726	U1727	G1728	U1729	U1730	U1731	U1732	G1733	G1734	G1735	C1741	C1742	G1743	U1746	U1751	U1752	G1753	U1754	C1755	C1756	U1757	C1758	C1759	C1760	C1761	C1762	C1763	C1764	C1765	C1766	C1767	C1768	C1769	C1770	C1771	C1772	C1773	C1774	C1775	C1776	U1777	U1778	U1779	C1780	C1781	C1782	C1783	A1784	A1785	A1786	C1787	C1788	A1789	C1790	C1791	C1792														
C1657	C1658	U1659	C1660	C1661	C1662	C1663	A1664	A1665	C1666	C1667	C1668	A1669	C1670	U1671	C1672	C1673	C1674	C1675	C1676	C1677	C1678	C1679	C1680	C1681	C1682	C1683	C1684	C1685	C1686	C1687	C1688	C1689	C1690	C1691	C1692	U1693	C1694	C1695	C1696	C1697	C1698	C1699	C1700	A1701	C1702	C1703	C1704	C1705	U1706	C1707	C1708	U1709	C1710	C1711	C1712	U1716	C1717	C1718	C1719	C1720	C1721								


C2652	U2712	C2771	G2834	U2895
U2653	A2712A	C2772	A2835	C2896
A2654	G2713	C2773	G2836	U2897
G2655	G2714	C2774	G2837	U2898
U2656	G2715	A2775	G2838	G2899
A2657	U2716	A2776	G2839	A2900
C2658	G2717	C2777	C2840	C2901
C2659	G2718	A2778	C2841	C2902
A2660	G2719	C2779	G2842	
C2661	U2720	C2780	G2843	
A2662	A2721	A2781	G2844	
G2663	G2722	G2782	G2845	
G2664	C2723	G2783	U2847	
A2665	C2724	C2784	G2848	
C2666	A2725	C2785	U2849	
C2667	U2726	U2786	A2850	
G2668	G2727	C2787	A2851	
C2669	U2728	C2788	G2852	
A2670	G2729	C2789	C2853	
A2671	C2730	A2790	G2854	
A2672	G2731	C2791	C2855	
G2673	G2732	G2792	C2856	
G2674	A2733	G2793	G2857	
A2675	G2734	C2794	C2858	
C2676	A2735	G2795	G2859	
C2677	G2736	U2797	A2860	
C2678	G2737	C2798	C2861	
A2679	A2738	A2799	G2862	
C2680	U2739	A2801	C2863	
C2681	A2740	C2802	C2864	
U2682	C2741	C2803	U2865	
C2683	C2742	C2804	U2866	
U2684	C2743	G2805	C2867	
G2685	G2744	U2807	A2868	
G2686	C2745	C2746	G2869	
U2687	U2746	A2809	C2870	
U2688	G2747	A2810	C2871	
U2689	A2748	G2811	G2872	
C2690	A2749	G2812	A2873	
C2691	A2750	A2813	C2874	
C2692	C2751	C2814	C2875	
A2693	C2752	C2815	G2876	
G2694	A2753	C2816	G2877	
C2695	U2754	G2817	U2878	
U2696	C2755	G2818	C2879	
G2697	U2756	A2820	C2880	
U2698	A2757	G2821	C2881	
C2699	A2758	G2822	A2882	
C2700	G2759	A2823	U2883	
C2701	C2760	C2824	U2884	
U2702	G2761	C2825	C2885	
C2703	G2762	A2826	G2886	
C2704	G2763	C2827	U2887	
A2705	A2764	A2765	C2888	
G2706	G2765	C2828	C2889	
G2707	G2766	C2829	G2891	
G2708	C2767	G2830	A2892	
G2709	C2768	U2831	G2893	
C2710	C2769	U2832	G2894	
C2711	G2770	G2833		

• Molecule 2: 5S ribosomal RNA

Chain AB:  52% 39% 9%

A-1	A59	G118
A0	C60	A119
U1	G61	U120
C2	C62	
C3	G63	
C4	C64	
C5	C65	
C6	A66	
G7	C68	
U8	G69	
C9	C70	
C10	G71	
C11	G72	
C12	A73	
A13	U74	
U14	G75	
G15	G76	
A16	U77	
C17	A78	
G18	C79	
C19	U80	
C20	C81	
G21	C82	
U22	G83	
C23	C84	
G24	A85	
A25	G86	
C26	C87	
C27	C88	
C28	G89	
A29	C90	
C30	C91	
C31	G92	
C32	C93	
G33	C94	
U34	U95	
U35	G96	
C36	G97	
C37	A98	
C38	C99	
A39	G100	
U40	A101	
U41	G102	
C42	U103	
C43	G104	
A44	A105	
A45	G106	
A46	U107	
C47	C108	
A48	G109	
C49	G110	
G50	U111	
G51	A112	
A52	C113	
A53	G114	
G54	G115	
U55	A116	
G56	C117	
A57		
A58		

• Molecule 3: 50S ribosomal protein L1

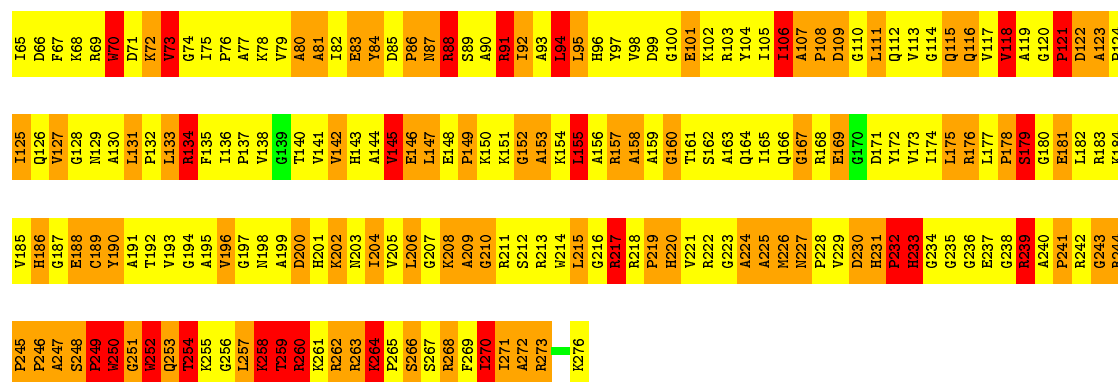
Chain AC:  6% 74% 18%

P1	T61	G121	P181
K2	V62	A122	F182
H3	S63	V123	E183
G4	L64	G124	K184
K5	P65	S125	L185
R6	H66	K126	A186
Y7	G67	L127	D187
R8	L68	G128	N188
A9	G69	R129	I189
L10	K70	L130	A190
L11	Q71	L131	F191
E12	V72	G132	F192
K13	R73	P133	I193
V14	V74	R134	A194
D15	L75	G135	A195
P16	A76	L136	L196
K17	I77	L137	E197
A18	A78	P138	A198
K19	K79	N139	H199
G80	G80	P140	K200
T21	E81	K141	T201
L22	K82	A142	E202
D23	I83	G143	G203
E24	K84	T144	A204
A25	G85	V145	T207
A26	A86	G146	F208
H27	E87	N147	L209
L28	G88	N148	K210
V29	A89	I149	R211
K30	G90	G150	S211
E31	A91	E151	V212
L32	D92	I152	Y213
A33	Y93	L153	V214
T34	V94	R154	T215
A35	G95	E155	T216
G96	G96	I156	T217
F37	E97	K157	M218
D38	G98	A158	G219
E39	I99	G159	F220
T40	I100	R160	S221
V41	Q101	I161	V222
E42	K102	F162	R223
V43	I103	F163	L224
H44	L104	R164	I225
A45	D105	N165	F226
K46	G106	D166	E227
G48	W107	K167	S228
L47	M108	T168	
G49	D109	G169	
D50	F110	A170	
P51	D111	I171	
R52	A112	H172	
R53	V113	A173	
S54	V114	P174	
D55	A115	V175	
O56	T116	G176	
N57	P117	K177	
V58	D118	A178	
R59	V119	S179	
G60	M120	F180	

• Molecule 4: 50S ribosomal protein L2

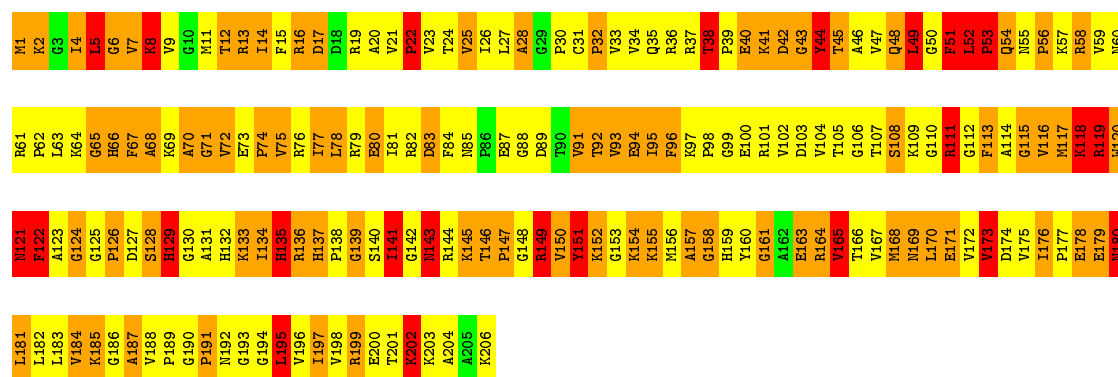
Chain AD:  53% 34% 11%

K5	F6	K7	T10	P11	S12	K13	R14	F15	M16	T17	V18	A19	D20	F21	S22	E23	T24	T25	K26	T27	E28	P29	E30	R31	S32	L33	V34	K35	P36	L37	K38	K39	T40	G41	G42	R43	I44	N45	Q46	G47	R48	I49	V50	V51	R52	F53	R54	G55	G56	G57	H58	X59	R60	L61	V62	R63	I64
----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



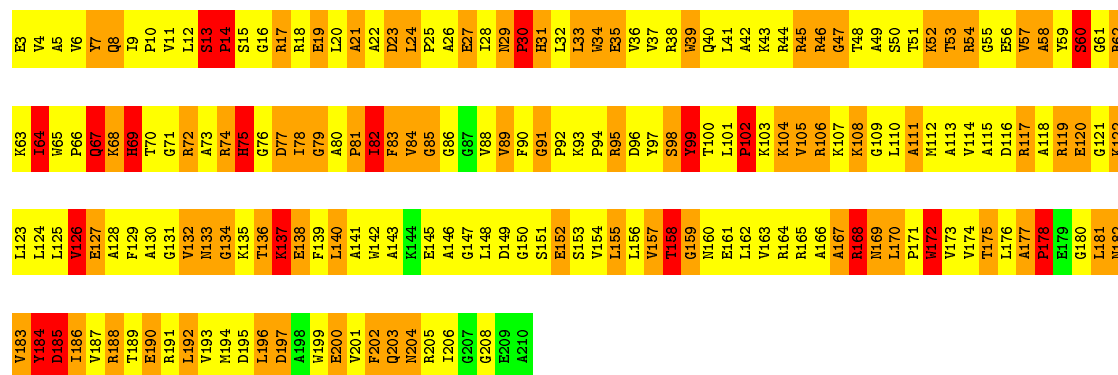
• Molecule 5: 50S ribosomal protein L3

Chain AE: 45% 39% 12%



• Molecule 6: 50S ribosomal protein L4

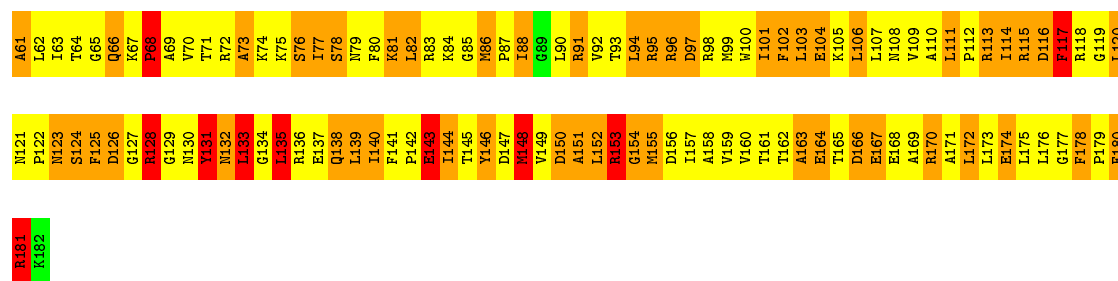
Chain AF: 51% 36% 9%



• Molecule 7: 50S ribosomal protein L5

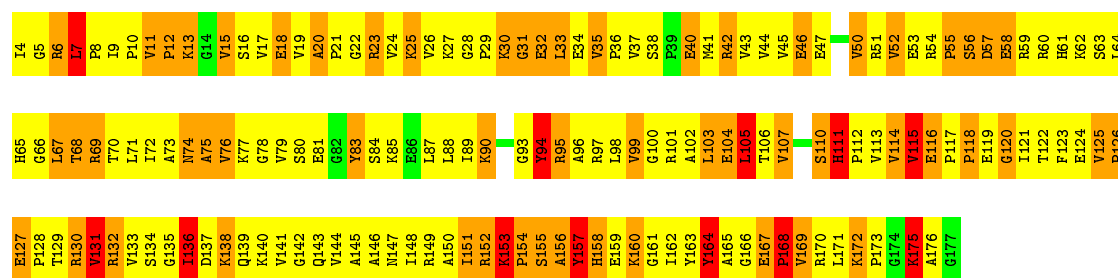
Chain AG: 54% 36% 9%





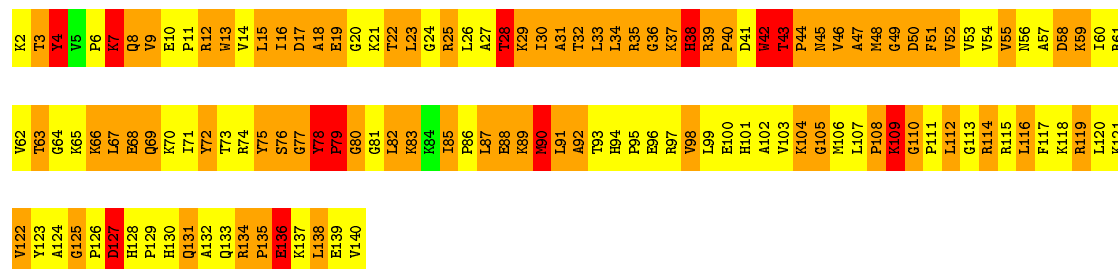
• Molecule 8: 50S ribosomal protein L6

Chain AH: 7% 53% 33% 7%



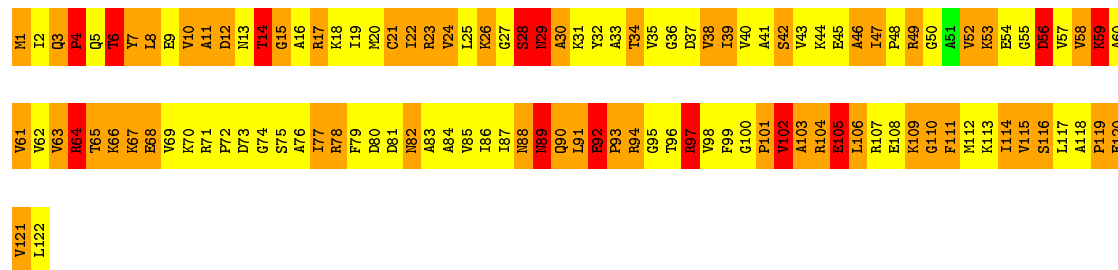
• Molecule 9: 50S ribosomal protein L13

Chain AK: 40% 50% 9%



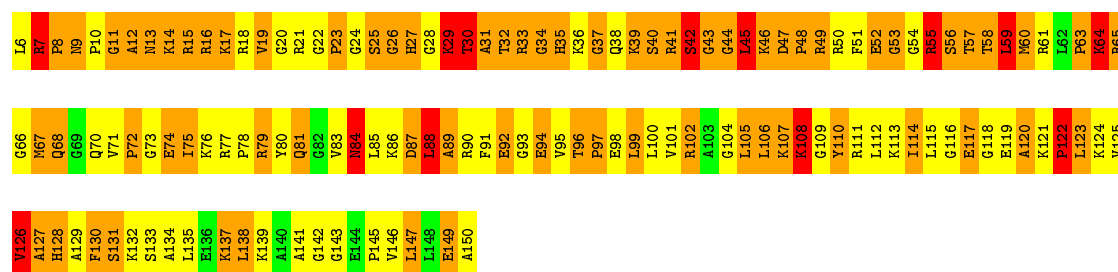
• Molecule 10: 50S ribosomal protein L14

Chain AL: 46% 43% 11%



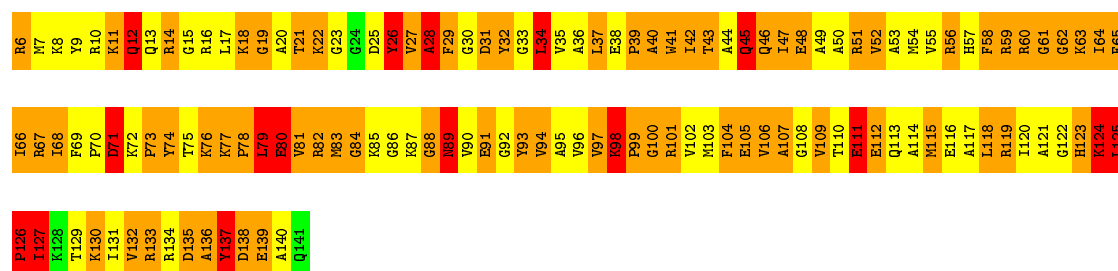
• Molecule 11: 50S ribosomal protein L15

Chain AM: 6% 39% 47% 9%



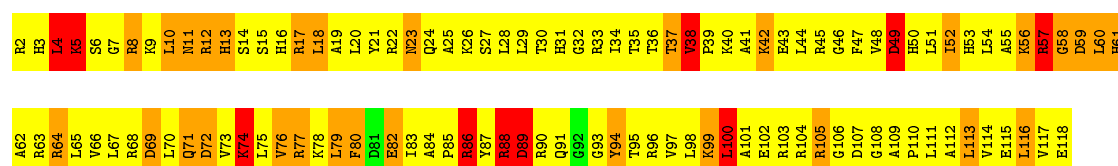
• Molecule 12: 50S ribosomal protein L16

Chain AN: . 36% 50% 12%



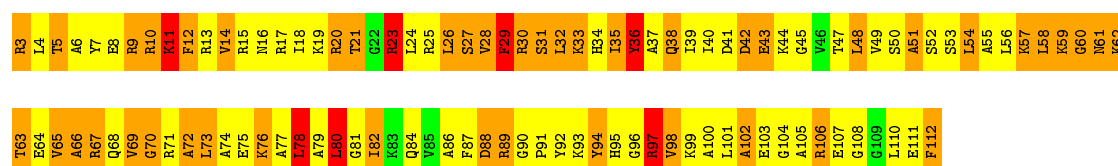
• Molecule 13: 50S ribosomal protein L17

Chain AO: . 64% 26% 9%



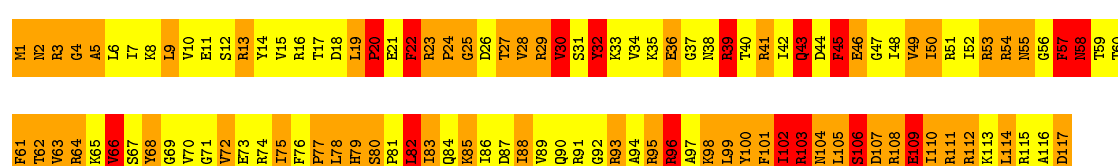
• Molecule 14: 50S ribosomal protein L18

Chain AP: 5% 48% 41% 6%



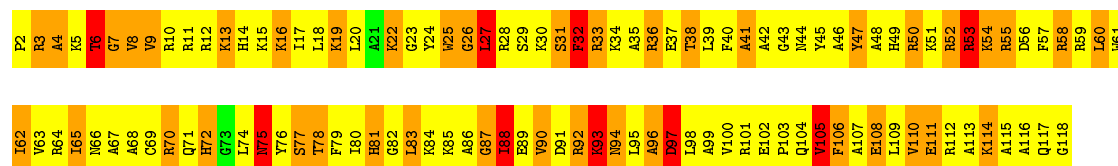
• Molecule 15: 50S ribosomal protein L19

Chain AQ: 43% 44% 14%



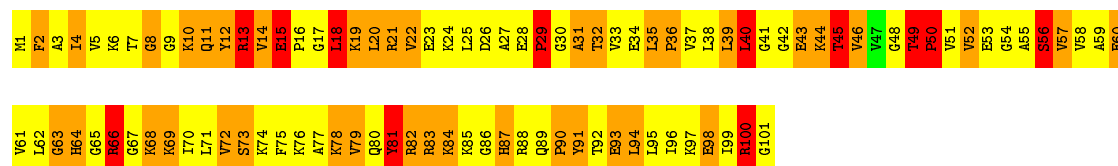
- Molecule 16: 50S ribosomal protein L20

Chain AR: 

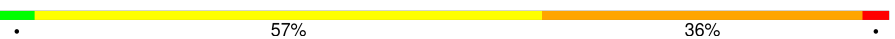


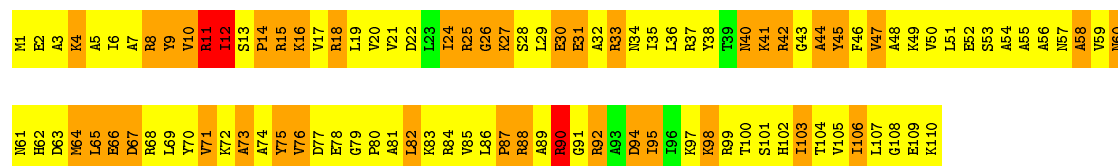
- Molecule 17: 50S ribosomal protein L21

Chain AS: 

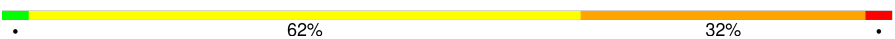


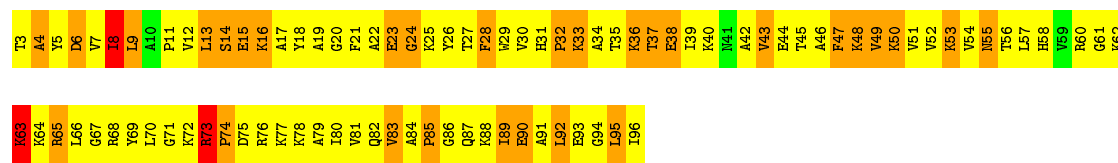
- Molecule 18: 50S ribosomal protein L22

Chain AT: 



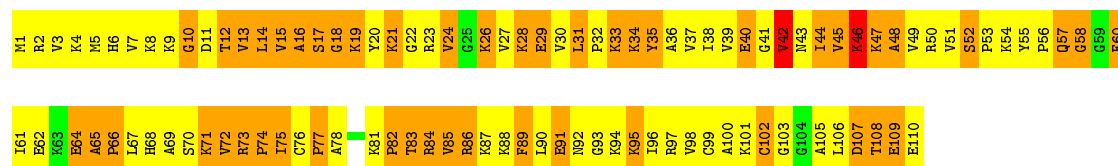
- Molecule 19: 50S ribosomal protein L23

Chain AU: 



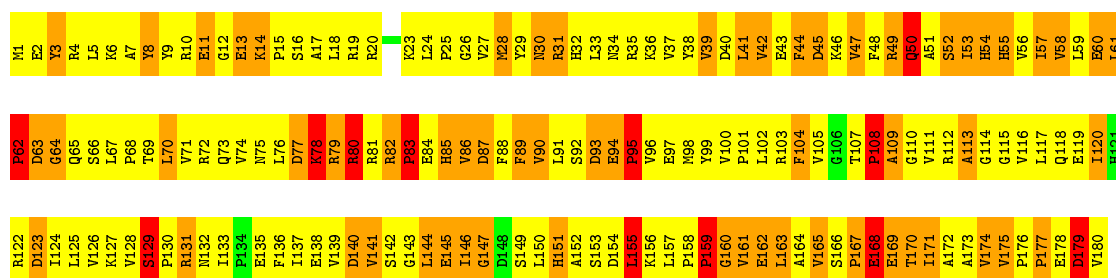
- Molecule 20: 50S ribosomal protein L24

Chain AV: 



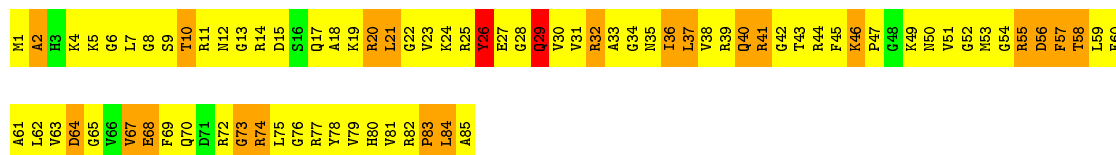
- Molecule 21: 50S ribosomal protein L25

Chain AW: 



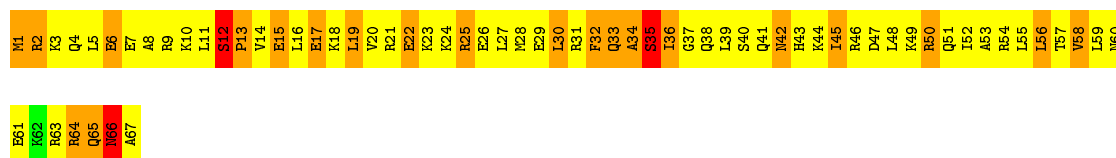
- Molecule 22: 50S ribosomal protein L27

Chain AX: 6% 67% 25%



- Molecule 23: 50S ribosomal protein L29

Chain AY: 63% 31%

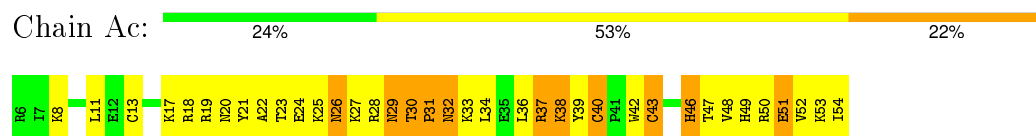


- Molecule 24: 50S ribosomal protein L30

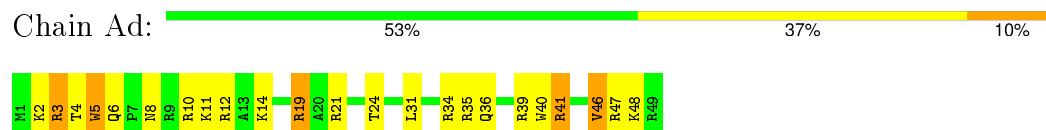
Chain AZ: 5% 46% 44% 5%



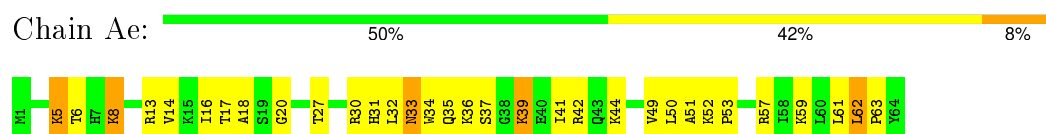
- Molecule 27: 50S ribosomal protein L33



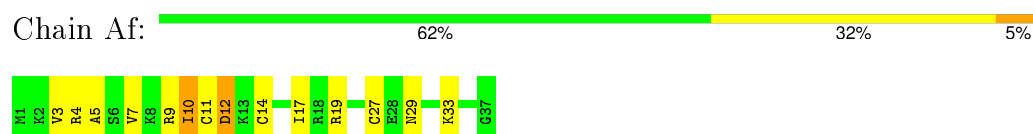
- Molecule 28: 50S ribosomal protein L34



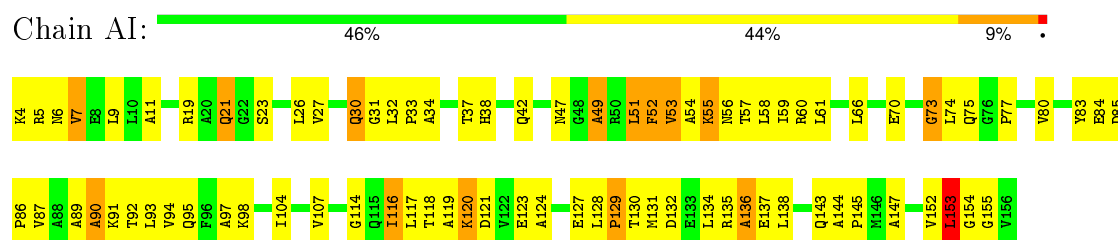
- Molecule 29: 50S ribosomal protein L35



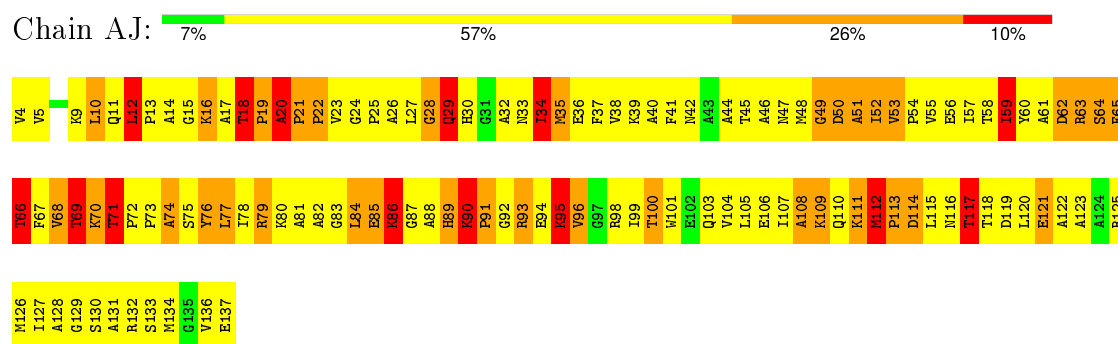
- Molecule 30: 50S ribosomal protein L36



- Molecule 31: 50S ribosomal protein L10



- Molecule 32: 50S ribosomal protein L11



- Molecule 33: Unknown peptide

Chain Ag:

100%

There are no outlier residues recorded for this chain.

● Molecule 34: 16S ribosomal RNA

Chain BA:

56%

36%

7%

6803	U743	6683	C623	A563	C503	A493	G371	C311	G251	C186E	C131	U65	U5
U804	C744	A684	C624	A564	C504	A494	C372	C312	U252	C186F	C132	G66	G6
C805	C745	G685	G625	U565	C505	A495	A373	A303	U253	C187	U133	C67	G7
A806	A746	U686	U626	G566	G506	U494	A374	C314	G254	U188	A134	G68	A8
C747	C747	A687	G627	G567	C507	A496	U375	A315	G255	U189	C135	G69	G9
C808	C748	G688	G628	G568	C508	A497	G376	G316	U256	G190	C136	G73	G10
C809	C749	C689	G629	C569	A509	U497	C377	G317	G257	G191A	C137	C74	G11
C810	C750	G690	C630	C570	A510	A498	C378	G318	G258	G191B	C138		
C811	U751	G691	G631	U571	C511	A499	C379	G319	G259	G191C	C139	U12	U12
C812	G752	U692	A632	U572	U512	A440	G380	C320	G260	U191D	A140	G77	U13
A813	A753	G693	G633	A573	C513	A441	C381	A321	U261	G191E	A141	G78	U14
A814	C754	A694	C634	A574	C514	A442	A382	C322	A262	U191F	A142	G79	G15
A815	C755	A695	G635	G575	G515	A443	A383	U323	A263	G191G	A143	G80	U16
A816	C756	A696	U636	G576	U516	A444	A384	G324	U264	G191H	A144	G81	C18
C817	U757	U697	G637	G577	A517	A445	C385	A325	G265	C193	G145	U82	C19
G818	G758	G698	G638	C578	C518	A446	C386	G326	G266	C194	G146	U84	U20
A819	A759	C699	G639	G579	C519	A447	U387	A327	G267	A195	G147	U85	G21
U820	G760	G700	A640	U580	A520	A448	G388	C328	C268	A196	G148	U86	G22
G821	G761	C701	U641	G581	G521	A449	A389	A329	C269	A197	A149	A87	C23
C822	C762	A642	C642	U582	C522	A451	C390	C330	A270	G198	C150	C88	U24
G823	G763	C703	G643	A583	A523	A452	C391	G331	C271	G199	A151	U89	C25
C824	C764	A704	G644	G584	G524	A453	G392	G332	C272	G200	A152	C90	A26
G825	G765	U705	C645	G585	C525	A454	A393	G333	C273	C201	C153	C91	G27
C826	A766	A706	U646	G586	C526	A455	G394	C334	A274	U208	C154	G92	G28
A767	A767	C707	C647	G587	G527	A456	C395	C335	G275	G209	C155	U93	G29
A828	A768	C708	G648	G588	C528	A457	C396	C336	G276	U210	G156	G95	G31
C829	G769	G709	A649	C589	G529	A458	A397	C337	C277	G216	G157	G96	C31
G830	G770	G710	G650	C590	G530	A459	C398	A338	G278	C217	G158	U97	A32
C771	C771	C651	U651	U591	U531	A460	C399	C339	A279	C218	G159	C99	A33
G772	U772	A712	U652	G592	A532	A461	C400	U340	C280	C219	A160	A101	C34
C833	C773	G713	A653	G593	C533	A462	C401	C341	G281	G220	A161	G102	G35
A834	C774	U654	U654	A594	U534	A463	A402	C342	A282	C221	A162	C103	C36
U835	C775	A715	A655	G595	A535	A464	C403	U343	C283	U222	C163	G104	U37
G776	G776	A716	C656	C596	C536	A465	U404	A344	G284	U223	U164	G105	G38
C837	A777	C717	G657	G597	G537	A466	U405	C345	G285	C224	C165	G106	G39
C838	C778	G718	G658	U598	G538	A467	A406	G346	G286	C225	G166	G107	C40
U841	C779	C719	C659	U599	A539	A468	G407	C347	U287	G226	G167	G108	C41
C842	A780	C720	G660	C600	G540	A469	A408	G348	A288	G227	G168	A109	G42
U843	C781	G721	G661	C601	G541	A470	A409	A349	G289	A228	C169	C110	C43
C848	A782	A722	G662	A602	G542	A481	A410	G350	C290	U229	U170	G111	G44
C849	C783	U723	A663	U603	C543	A482	A411	C351	C291	G230	A171	G112	U45
U850	C784	G724	G664	C604	G544	A483	A412	C352	G292	C231	A172	G113	G46
G851	G785	G725	A665	U605	C545	A484	G413	A353	G293	G232	U173	G114	G47
C852	C786	C726	G666	G606	G546	A485	A414	C354	U294	C233	C174	G115	C48
G853	A787	G727	G667	A607	G547	A486	A415	C355	C295	C234	C175	U49	C49
U854	C788	A728	G668	A608	G548	A487	A416	A356	U296	C235	C176	G117	A50
G855	U789	U669	U669	A609	C549	C488	C417	G357	G297	G236	C177	U118	A51
C856	A790	C730	G670	G610	G550	C489	C418	U358	A298	C237	C178	A119	G52
C857	G791	G731	G671	A611	U551	A490	C419	U359	G299	G238	A179	A120	A53
G858	A792	C732	U672	C612	U552	A491	U420	A360	C300	G239	C180	C54	C50
C859	C793	A733	G673	C613	A553	A492	U421	G361	G301	G240	G181	G122	A55
A860	A794	G734	G674	A614	C554	A493	C422	A362	G302	C242	U182	C123	U56
C795	C795	C735	A675	C615	C555	U494	A423	G363	A303	A243	G183	G124	G57
G861	G796	C736	A676	G616	C556	A495	G424	A364	U304	U244	G184	U125	C58
C862	C797	A737	G677	G617	G557	A496	G425	U365	G305	C245	A185	G126	A59
U863	A798	C738	U678	C618	G558	U497	G426	C366	G306	A246	C186	G127	C60
C864	C799	C739	C679	U619	A559	A498	U427	G367	C307	G247	C187	G128	C61
A865	G800	U740	C680	U560	C560	G500	G428	U368	C308	C248	C188	U129	G62
C866	C801	G741	C681	A621	U561	C501	U429	U369	G309	U249	C189	G129A	C63
G867	U801	C742	C682	A622	C562	C502	A430	C370	C210	G250	C190	A130	C64
C868	C802	A743	C683	C623	C503	A493	G371	C311	G251	C186E	C131	U65	U5

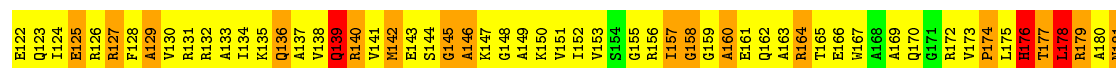
- Molecule 35: 30S ribosomal protein S2

Chain BF:



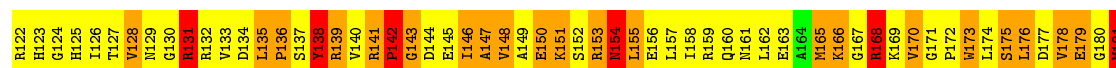
- Molecule 36: 30S ribosomal protein S3

Chain BG: 5% 56% 34%



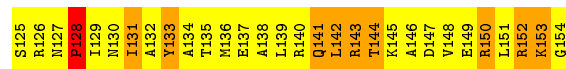
- Molecule 37: 30S ribosomal protein S4

Chain BH: 54% 37% 7%



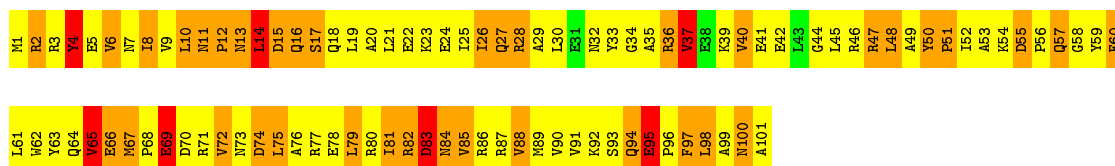
- Molecule 38: 30S ribosomal protein S5

Chain BI: 63% 33%

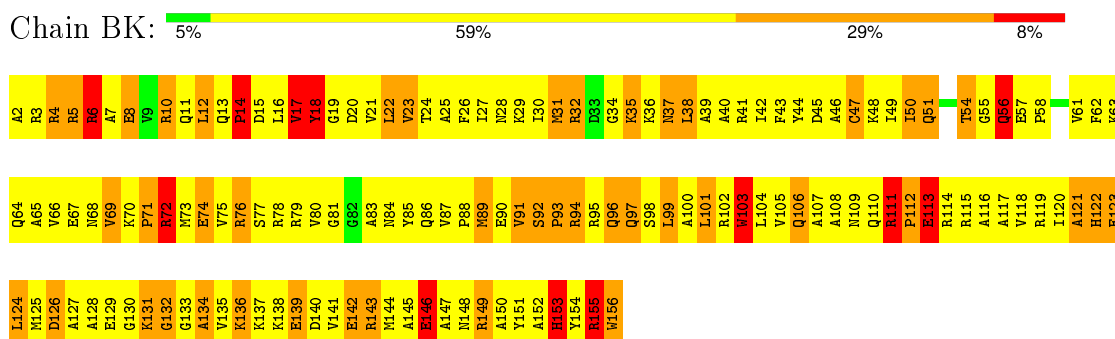


- Molecule 39: 30S ribosomal protein S6

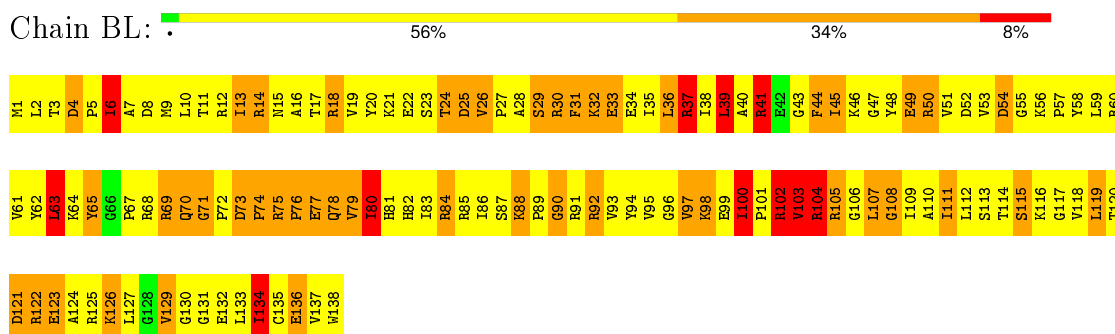
Chain BJ: 53% 37% 7%



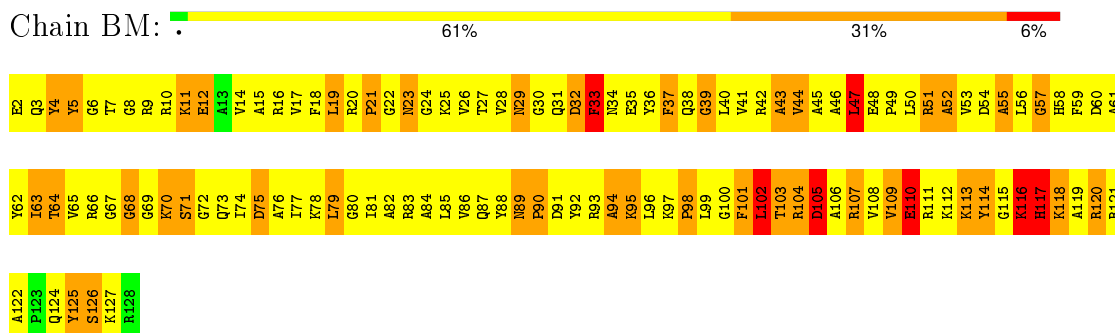
- Molecule 40: 30S ribosomal protein S7



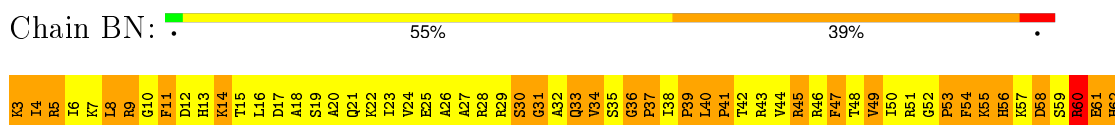
- Molecule 41: 30S ribosomal protein S8



- Molecule 42: 30S ribosomal protein S9



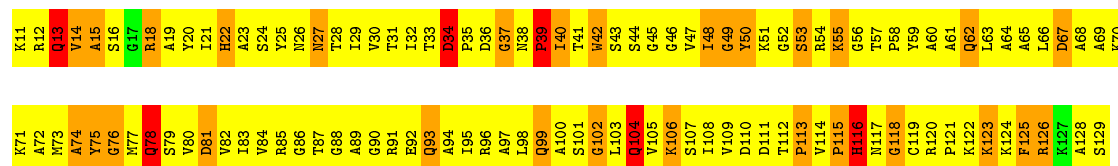
- Molecule 43: 30S ribosomal protein S10





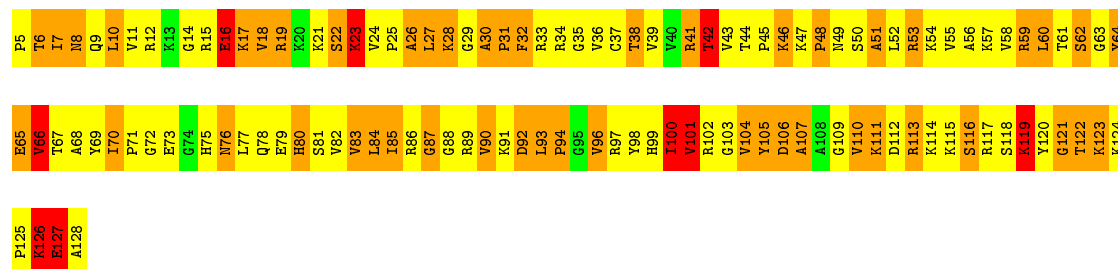
• Molecule 44: 30S ribosomal protein S11

Chain BO: . 69% 24% 5%



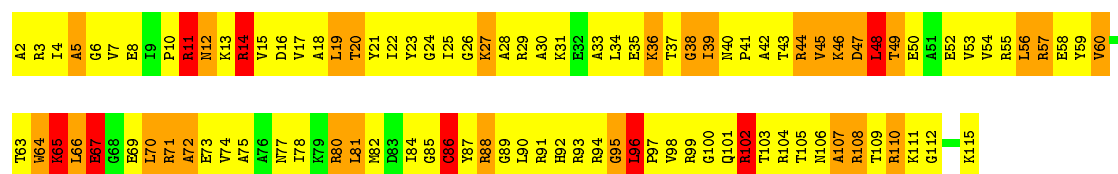
• Molecule 45: 30S ribosomal protein S12

Chain BP: 5% 49% 39% 7%



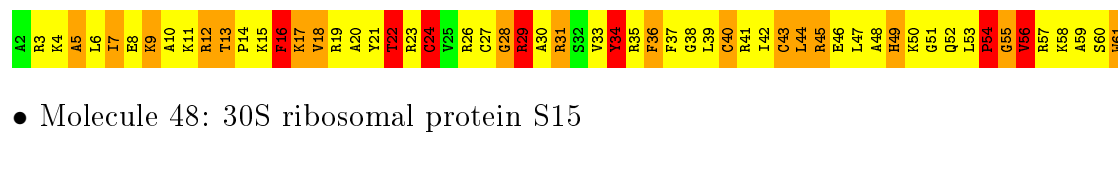
• Molecule 46: 30S ribosomal protein S13

Chain BQ: 10% 59% 25% 7%



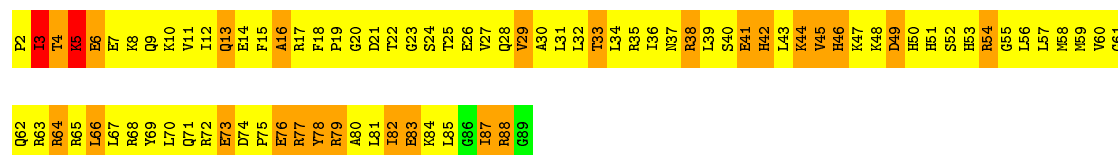
• Molecule 47: 30S ribosomal protein S14 type Z

Chain BR: 5% 55% 28% 12%

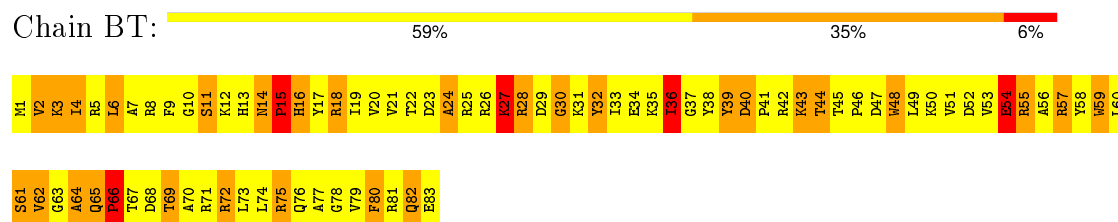


• Molecule 48: 30S ribosomal protein S15

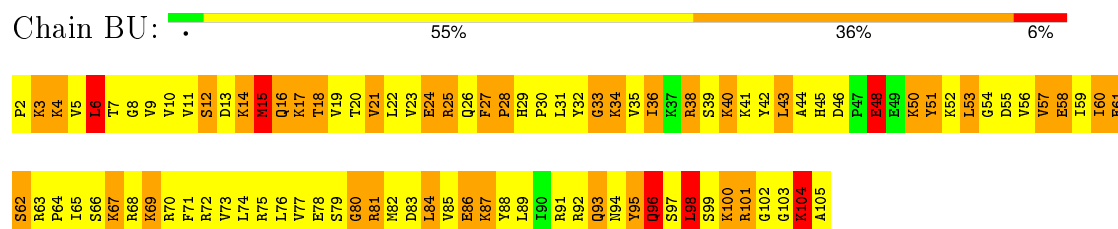
Chain BS: . 67% 28%



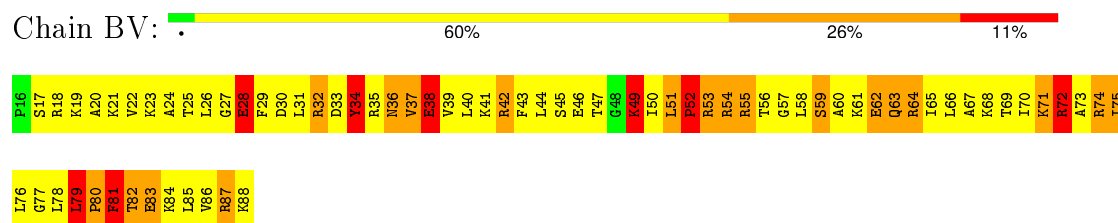
- Molecule 49: 30S ribosomal protein S16



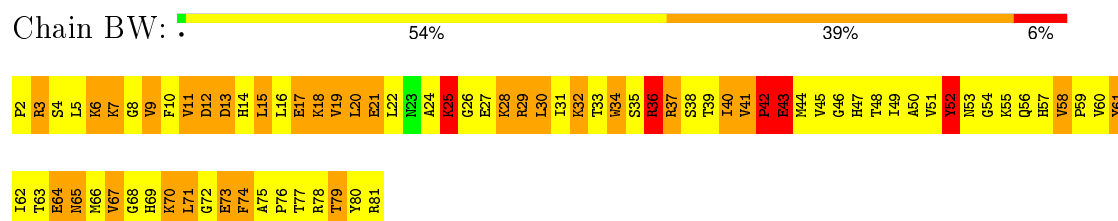
- Molecule 50: 30S ribosomal protein S17



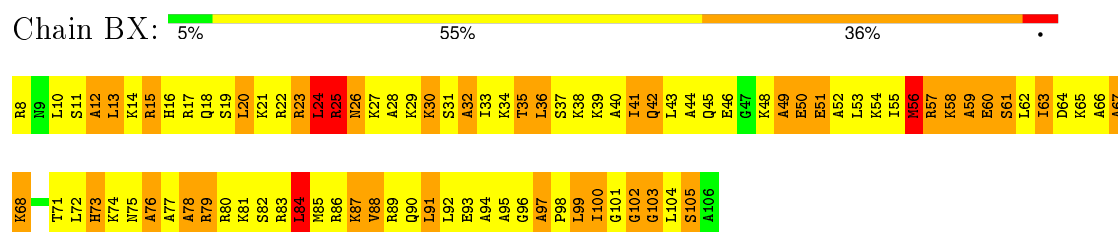
- Molecule 51: 30S ribosomal protein S18



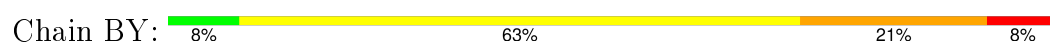
- Molecule 52: 30S ribosomal protein S19

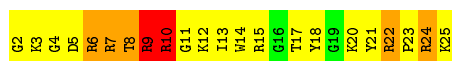


- Molecule 53: 30S ribosomal protein S20



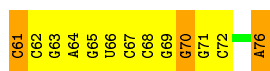
- Molecule 54: 30S ribosomal protein Thx





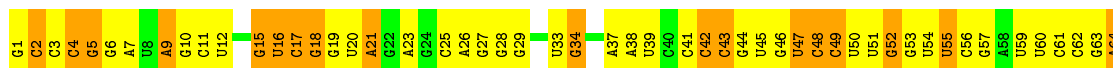
- Molecule 55: tRNA chain 1

Chain BC: 11% 57% 33%



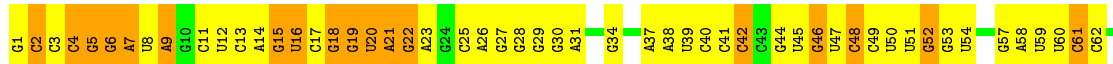
- Molecule 56: tRNA chain 2

Chain BD: 16% 48% 36%



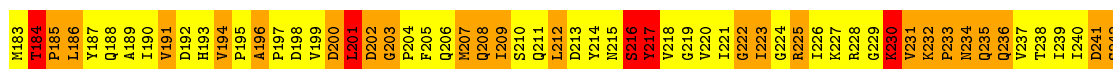
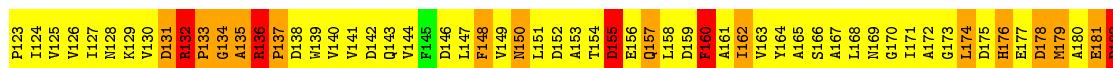
- Molecule 56: tRNA chain 2

Chain BE: 15% 55% 31%



- Molecule 57: GTP-binding protein

Chain BZ: 8% 54% 31% 6%



P305	E371	D432	Q493	B553
T306	N372	G433	G494	A554
S307	M373	K434	K495	V555
S308	R374	G435	A496	V556
V309	R375	R436	V497	L557
F310	E376	V437	A498	V558
F311	G377	R438	F499	P559
C312	F378	L439	A500	P560
V313	E379	D440	L501	L561
N314	L380	Y441	F502	N562
T315	A381	Y442	G503	N563
S316	V382	I443	L504	T564
P317	S383	P444	Q505	L565
F318	R384	S445	D506	B566
C319	P385	R446	R507	Q567
G320	K386	G447	G508	A568
K321	V387	L448	K509	B570
E322	I388	T449	L510	P571
G323	F389	G450	F511	L572
K324	R390	F451	L512	D573
F325	E391	R452	G513	D574
V326	I392	S453	H514	D575
T327	D393	E454	G515	D576
S328	G394	F455	A516	B577
R329	R395	M456	B517	L577
Q330	K396	T457	V518	V578
I331	Q397	M458	Y519	B579
L332	E398	T459	B520	V580
D333	P399	S460	G521	T581
E338	Y400	G461	Q522	P582
L339	E401	T462	I523	T583
V340	N402	G463	I524	S584
H341	V403	L464	G525	L585
S342	L405	Y465	I526	B586
V343	D406	Y466	H527	L587
A344	A407	S467	S528	B588
L345	E408	T468	R529	K589
E346	E409	F469	S530	B590
E351	Q410	S470	N531	B591
D352	H411	H471	D532	L592
Q412	Q412	Y472	L533	T593
G413	G413	T534	T534	D596
D354	S414	D474	V535	B597
A355	V415	V475	N536	R598
F356	M416	R476	C537	B599
R357	Q417	P477	L538	A600
V358	A418	T539	T539	N601
S359	L419	V480	G540	B602
G360	L419	G481	K541	A603
R361	E422	Q482	K542	P604
G362	K423	R483	L543	R605
E363	G424	Q484	T544	
L364	D425	N485	N545	
R365	L426	G486	M546	
L366	K427	V437	R547	
S367	N428	L488	A548	
V368	M429	I489	S549	
L369	N430	G550	G550	
I370	P431	N491	A551	
		D552	D552	

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	CTFFIND3	Depositor
Microscope	OTHER	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	4.0	Depositor
Magnification	Not provided	Depositor
Image detector	FALCON II DIRECT ELECTRON	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: GCP, 8AN, NMY

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	AA	1.00	107/69678 (0.2%)	1.08	348/108758 (0.3%)
10	AL	0.92	1/942 (0.1%)	1.31	10/1268 (0.8%)
11	AM	0.71	0/1123	1.12	5/1493 (0.3%)
12	AN	0.72	0/1100	1.19	8/1470 (0.5%)
13	AO	0.70	0/974	1.06	2/1302 (0.2%)
14	AP	0.72	0/887	1.06	4/1180 (0.3%)
15	AQ	0.85	0/990	1.31	9/1325 (0.7%)
16	AR	0.76	0/982	1.08	0/1306
17	AS	0.87	1/790 (0.1%)	1.28	9/1057 (0.9%)
18	AT	0.66	0/886	1.04	1/1189 (0.1%)
19	AU	0.57	0/756	0.93	0/1015
2	AB	0.83	4/2954 (0.1%)	0.99	7/4606 (0.2%)
20	AV	0.54	0/857	1.05	2/1142 (0.2%)
21	AW	0.66	0/1467	1.11	7/1992 (0.4%)
22	AX	0.65	0/679	1.04	1/902 (0.1%)
23	AY	0.59	0/569	0.88	0/751
24	AZ	0.59	0/474	1.10	2/635 (0.3%)
25	Aa	0.84	1/594 (0.2%)	1.31	8/795 (1.0%)
26	Ab	0.72	0/459	1.16	3/621 (0.5%)
27	Ac	0.85	1/433 (0.2%)	1.36	5/576 (0.9%)
28	Ad	0.73	0/438	1.01	0/575
29	Ae	0.59	0/523	1.14	5/690 (0.7%)
3	AC	0.54	0/1772	0.87	0/2383
30	Af	0.59	0/310	1.08	1/407 (0.2%)
31	AI	0.50	1/751 (0.1%)	0.82	4/1042 (0.4%)
32	AJ	0.52	0/1012	0.64	8/1373 (0.6%)
34	BA	0.92	26/36437 (0.1%)	1.10	139/56865 (0.2%)
35	BF	0.65	0/1935	1.00	4/2609 (0.2%)
36	BG	0.55	0/1636	0.92	4/2205 (0.2%)
37	BH	0.64	1/1733 (0.1%)	0.98	3/2318 (0.1%)
38	BI	0.63	0/1162	1.01	3/1564 (0.2%)
39	BJ	0.60	0/856	0.95	0/1154

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
4	AD	0.72	2/2174 (0.1%)	1.19	13/2927 (0.4%)
40	BK	0.57	0/1276	0.90	3/1709 (0.2%)
41	BL	0.62	0/1136	1.01	3/1527 (0.2%)
42	BM	0.54	0/1029	0.83	0/1379
43	BN	0.48	0/807	0.89	1/1085 (0.1%)
44	BO	0.62	0/900	0.98	0/1213
45	BP	0.60	0/986	1.00	3/1320 (0.2%)
46	BQ	0.33	0/924	0.45	2/1238 (0.2%)
47	BR	0.55	0/501	0.97	1/664 (0.2%)
48	BS	0.62	0/745	0.95	0/992
49	BT	0.62	0/716	0.95	1/963 (0.1%)
5	AE	0.75	0/1611	1.16	13/2171 (0.6%)
50	BU	0.68	1/870 (0.1%)	0.99	2/1159 (0.2%)
51	BV	0.59	0/603	1.01	1/799 (0.1%)
52	BW	0.53	1/661 (0.2%)	1.34	5/890 (0.6%)
53	BX	0.65	0/765	1.00	2/1007 (0.2%)
54	BY	0.45	0/212	0.80	0/277
55	BC	0.36	0/1809	0.67	0/2819
56	BD	0.37	0/1784	0.68	0/2780
56	BE	0.35	0/1784	0.70	0/2780
57	BZ	0.37	0/4678	0.50	16/6310 (0.3%)
6	AF	0.64	0/1660	1.03	4/2247 (0.2%)
7	AG	0.62	0/1507	1.06	4/2027 (0.2%)
8	AH	0.59	0/1354	0.98	4/1831 (0.2%)
9	AK	0.78	1/1140 (0.1%)	1.16	8/1537 (0.5%)
All	All	0.86	148/167791 (0.1%)	1.05	688/250219 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	432
12	AN	0	1
15	AQ	0	1
17	AS	0	1
2	AB	0	17
25	Aa	0	1
26	Ab	0	1
3	AC	0	1
31	AI	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
34	BA	0	170
37	BH	0	1
39	BJ	0	1
44	BO	0	1
47	BR	0	1
5	AE	0	1
6	AF	0	1
9	AK	0	1
All	All	0	634

All (148) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1060	U	O3'-P	-80.27	0.64	1.61
34	BA	1317	C	O3'-P	-70.10	0.77	1.61
1	AA	1203	G	O3'-P	-34.75	1.19	1.61
34	BA	1167	A	O3'-P	20.86	1.86	1.61
1	AA	2500	U	C4-O4	18.56	1.38	1.23
1	AA	2500	U	O3'-P	-15.05	1.43	1.61
1	AA	2448	A	O3'-P	-14.41	1.43	1.61
1	AA	607	U	N3-C4	-14.40	1.25	1.38
1	AA	621	A	C6-N6	14.15	1.45	1.33
1	AA	1240	U	O3'-P	-13.46	1.45	1.61
1	AA	2756	U	O3'-P	13.37	1.77	1.61
1	AA	607	U	C2-N3	-13.22	1.28	1.37
31	AI	153	LEU	C-N	-12.16	1.11	1.33
1	AA	1993	U	N1-C2	11.37	1.48	1.38
1	AA	2491	U	N1-C2	10.60	1.48	1.38
1	AA	607	U	C5-C6	-10.59	1.24	1.34
1	AA	1202	C	O3'-P	-9.79	1.49	1.61
34	BA	1064	G	C5-C6	-9.65	1.32	1.42
34	BA	530	G	N9-C4	-9.60	1.30	1.38
1	AA	2499	C	O3'-P	9.41	1.72	1.61
1	AA	2755	C	O3'-P	8.91	1.71	1.61
1	AA	607	U	C4-O4	-8.66	1.16	1.23
1	AA	2460	U	N1-C2	8.57	1.46	1.38
1	AA	1956	U	N1-C2	8.39	1.46	1.38
1	AA	2035	G	N9-C4	7.93	1.44	1.38
34	BA	1064	G	C2-N3	7.84	1.39	1.32
1	AA	2447	G	O3'-P	-7.82	1.51	1.61
9	AK	42	TRP	CB-CG	7.79	1.64	1.50
1	AA	1	G	OP3-P	-7.76	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	687	C	N1-C2	7.68	1.47	1.40
17	AS	81	TYR	CB-CG	7.59	1.63	1.51
1	AA	1204	A	O3'-P	7.51	1.70	1.61
1	AA	775	G	N9-C4	7.44	1.43	1.38
1	AA	607	U	N1-C6	7.42	1.44	1.38
2	AB	-1	A	OP3-P	-7.38	1.52	1.61
34	BA	974	A	C2-N3	7.34	1.40	1.33
34	BA	974	A	C6-N1	7.20	1.40	1.35
1	AA	1763	G	C6-O6	7.00	1.30	1.24
1	AA	607	U	C2-O2	-6.99	1.16	1.22
1	AA	2448	A	C5'-C4'	6.98	1.59	1.51
1	AA	1313	U	N1-C2	6.97	1.44	1.38
1	AA	621	A	N7-C5	-6.78	1.35	1.39
1	AA	1956	U	N3-C4	6.72	1.44	1.38
1	AA	2491	U	C2-N3	6.69	1.42	1.37
1	AA	688	U	N1-C2	6.64	1.44	1.38
1	AA	726	G	N9-C4	6.62	1.43	1.38
34	BA	37	U	C4-O4	-6.56	1.18	1.23
1	AA	640	C	N1-C2	-6.51	1.33	1.40
1	AA	2522	U	N1-C2	6.49	1.44	1.38
34	BA	132	C	N1-C2	-6.42	1.33	1.40
1	AA	1240	U	N3-C4	-6.38	1.32	1.38
1	AA	1785	A	C6-N1	-6.29	1.31	1.35
34	BA	1064	G	N1-C2	6.26	1.42	1.37
1	AA	2460	U	C4-O4	6.21	1.28	1.23
34	BA	397	A	C5-C6	-6.19	1.35	1.41
34	BA	1064	G	C5-C4	-6.18	1.34	1.38
1	AA	1674	G	N9-C4	-6.16	1.33	1.38
1	AA	2588	G	C6-N1	-6.13	1.35	1.39
1	AA	930	U	N1-C2	-6.13	1.33	1.38
1	AA	1775	U	C5-C6	-6.10	1.28	1.34
34	BA	974	A	N9-C4	6.09	1.41	1.37
1	AA	1994	C	C2-N3	-6.02	1.30	1.35
1	AA	1303	G	C5-C6	5.97	1.48	1.42
1	AA	1786	A	N9-C4	5.95	1.41	1.37
52	BW	2	PRO	CA-C	5.91	1.64	1.52
34	BA	579	G	C3'-O3'	5.88	1.50	1.42
1	AA	1993	U	C2-N3	5.88	1.41	1.37
2	AB	16	G	N9-C4	-5.84	1.33	1.38
34	BA	196	A	O3'-P	-5.84	1.54	1.61
1	AA	1626	G	C5'-C4'	5.81	1.58	1.51
1	AA	621	A	C5-C4	5.80	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	2195	C	C3'-O3'	5.79	1.50	1.42
1	AA	2073	C	C2-O2	-5.76	1.19	1.24
2	AB	72	G	N9-C4	5.75	1.42	1.38
1	AA	2460	U	N3-C4	5.73	1.43	1.38
50	BU	21	VAL	CA-CB	-5.70	1.42	1.54
1	AA	1786	A	C2-N3	5.69	1.38	1.33
1	AA	2548	G	C2-N2	-5.67	1.28	1.34
1	AA	2445	G	C6-O6	-5.66	1.19	1.24
34	BA	579	G	O3'-P	5.66	1.68	1.61
34	BA	309	G	N9-C4	-5.62	1.33	1.38
1	AA	1775	U	N1-C6	-5.61	1.32	1.38
34	BA	37	U	C5-C6	-5.61	1.29	1.34
34	BA	697	U	C2-N3	5.57	1.41	1.37
1	AA	717	G	N9-C4	-5.57	1.33	1.38
34	BA	173	U	O3'-P	5.57	1.67	1.61
1	AA	860	U	C5-C6	-5.56	1.29	1.34
1	AA	2491	U	N3-C4	5.55	1.43	1.38
1	AA	2255	G	N1-C2	5.53	1.42	1.37
34	BA	651	C	N1-C2	5.50	1.45	1.40
1	AA	270(V)	G	N9-C4	-5.49	1.33	1.38
1	AA	775	G	C2-N3	5.48	1.37	1.32
1	AA	2063	C	N1-C2	5.46	1.45	1.40
1	AA	1468	C	N1-C2	-5.45	1.34	1.40
1	AA	2489	G	C6-O6	-5.45	1.19	1.24
1	AA	916	G	N9-C4	5.44	1.42	1.38
34	BA	697	U	N3-C4	5.44	1.43	1.38
1	AA	2460	U	C2-N3	5.43	1.41	1.37
1	AA	2852	G	N1-C2	-5.42	1.33	1.37
1	AA	2358	G	N9-C4	-5.39	1.33	1.38
1	AA	1524	G	C2-N3	-5.38	1.28	1.32
1	AA	1426	G	N9-C4	-5.37	1.33	1.38
1	AA	1938	A	O3'-P	5.36	1.67	1.61
1	AA	1359	A	C5-C6	-5.35	1.36	1.41
1	AA	2604	U	N3-C4	-5.35	1.33	1.38
1	AA	1994	C	C5-C6	-5.35	1.30	1.34
1	AA	2620	C	C2-O2	-5.33	1.19	1.24
4	AD	54	ARG	CG-CD	5.33	1.65	1.51
1	AA	1778	U	N1-C2	5.32	1.43	1.38
10	AL	105	GLU	CB-CG	5.31	1.62	1.52
1	AA	2334	G	N9-C4	5.29	1.42	1.38
1	AA	860	U	N1-C6	-5.25	1.33	1.38
1	AA	1372	U	C5-C6	-5.25	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	592	G	N9-C4	5.23	1.42	1.38
1	AA	1524	G	N9-C4	-5.23	1.33	1.38
1	AA	950	G	N9-C4	-5.21	1.33	1.38
1	AA	1950	G	N1-C2	-5.21	1.33	1.37
1	AA	1778	U	C4-O4	-5.20	1.19	1.23
1	AA	2548	G	C6-N1	-5.18	1.35	1.39
1	AA	1956	U	C2-N3	5.18	1.41	1.37
2	AB	8	U	N1-C2	-5.17	1.33	1.38
1	AA	1785	A	C6-N6	-5.17	1.29	1.33
1	AA	978	G	C2-N3	-5.17	1.28	1.32
1	AA	1776	G	C6-O6	-5.17	1.19	1.24
1	AA	985	C	C2-O2	-5.16	1.19	1.24
27	Ac	43	CYS	CB-SG	-5.16	1.73	1.81
1	AA	2604	U	N1-C2	-5.16	1.33	1.38
1	AA	1951	U	N1-C2	5.14	1.43	1.38
34	BA	697	U	N1-C2	5.14	1.43	1.38
1	AA	2560	C	C2-O2	-5.13	1.19	1.24
1	AA	2462	U	C4-O4	-5.12	1.19	1.23
1	AA	2491	U	O4'-C1'	5.12	1.48	1.41
37	BH	12	CYS	CA-CB	5.12	1.65	1.53
34	BA	114	U	N3-C4	-5.11	1.33	1.38
1	AA	2459	A	N9-C4	5.11	1.41	1.37
1	AA	1742	C	N1-C2	-5.10	1.35	1.40
1	AA	1628	G	N9-C4	-5.07	1.33	1.38
1	AA	1778	U	C2-N3	5.07	1.41	1.37
1	AA	2593	U	N1-C2	-5.05	1.34	1.38
25	Aa	48	ARG	CG-CD	5.05	1.64	1.51
1	AA	1516	U	N1-C2	-5.03	1.34	1.38
1	AA	1524	G	C6-N1	-5.03	1.36	1.39
1	AA	764	A	C5-C6	-5.03	1.36	1.41
34	BA	540	G	C2-N3	-5.03	1.28	1.32
1	AA	2553	G	C2-N2	-5.02	1.29	1.34
4	AD	250	TRP	CB-CG	-5.01	1.41	1.50
1	AA	1994	C	C2-O2	-5.01	1.20	1.24
1	AA	2461	C	C2-N3	-5.01	1.31	1.35

All (688) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1064	G	N1-C2-N2	-71.66	51.71	116.20
34	BA	1064	G	N3-C2-N2	57.63	160.24	119.90
34	BA	1317	C	P-O3'-C3'	-48.78	61.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1317	C	O3'-P-O5'	30.58	162.11	104.00
1	AA	1060	U	O3'-P-O5'	28.68	158.49	104.00
1	AA	1203	G	P-O3'-C3'	27.68	152.91	119.70
1	AA	2448	A	C5'-C4'-O4'	-27.30	76.34	109.10
34	BA	1064	G	N1-C2-N3	-25.61	108.54	123.90
34	BA	1317	C	OP2-P-O3'	-23.50	53.51	105.20
1	AA	1060	U	OP1-P-O3'	-23.00	54.60	105.20
52	BW	2	PRO	CA-C-N	-19.27	74.82	117.20
52	BW	2	PRO	CA-C-O	-18.94	74.74	120.20
52	BW	2	PRO	O-C-N	16.79	149.56	122.70
31	AI	153	LEU	O-C-N	-15.12	97.50	123.20
34	BA	1064	G	C2-N3-C4	14.67	119.24	111.90
1	AA	1204	A	N9-C1'-C2'	14.59	132.97	114.00
1	AA	1060	U	OP2-P-O3'	-13.66	75.14	105.20
1	AA	607	U	C5-C6-N1	-12.60	116.40	122.70
34	BA	172	A	OP1-P-O3'	12.60	132.92	105.20
1	AA	2384	G	N9-C1'-C2'	12.16	129.81	114.00
31	AI	153	LEU	C-N-CA	12.00	147.50	122.30
34	BA	973	G	O3'-P-O5'	11.52	125.89	104.00
34	BA	1317	C	OP1-P-O3'	-11.50	79.90	105.20
34	BA	1064	G	C6-N1-C2	11.40	131.94	125.10
1	AA	2459	A	N9-C1'-C2'	11.31	128.71	114.00
1	AA	2500	U	N3-C4-O4	11.18	127.22	119.40
34	BA	173	U	P-O3'-C3'	11.03	132.93	119.70
31	AI	153	LEU	CA-C-N	10.79	137.78	116.20
1	AA	2500	U	C5-C4-O4	-10.74	119.45	125.90
1	AA	2446	G	P-O3'-C3'	10.71	132.55	119.70
1	AA	1800	C	N1-C1'-C2'	-10.69	100.11	114.00
1	AA	2490	G	N9-C1'-C2'	10.66	127.86	114.00
15	AQ	66	VAL	N-CA-C	-10.58	82.43	111.00
1	AA	1938	A	N9-C1'-C2'	10.41	127.54	114.00
1	AA	1203	G	O3'-P-O5'	10.04	123.08	104.00
1	AA	607	U	N3-C4-O4	-9.98	112.42	119.40
1	AA	1992	G	N9-C1'-C2'	9.86	126.82	114.00
1	AA	1240	U	P-O3'-C3'	9.86	131.53	119.70
1	AA	2501	C	P-O3'-C3'	-9.83	107.91	119.70
34	BA	88	C	O4'-C1'-N1	9.78	116.02	108.20
34	BA	974	A	N9-C1'-C2'	9.74	126.67	114.00
1	AA	1809	A	O4'-C1'-N9	9.74	115.99	108.20
1	AA	1205	U	O4'-C1'-N1	9.68	115.94	108.20
1	AA	2779	U	N1-C1'-C2'	-9.65	101.39	112.00
1	AA	2460	U	N1-C1'-C2'	9.63	126.53	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2522	U	N1-C1'-C2'	9.63	126.52	114.00
1	AA	2581	G	N9-C1'-C2'	9.61	126.50	114.00
1	AA	1625	C	N1-C1'-C2'	9.47	126.31	114.00
34	BA	727	G	N9-C1'-C2'	-9.45	101.61	112.00
1	AA	2032	G	N9-C1'-C2'	9.45	126.28	114.00
1	AA	801	G	N9-C1'-C2'	9.44	126.27	114.00
34	BA	37	U	C5-C4-O4	-9.42	120.25	125.90
1	AA	2755	C	OP1-P-O3'	-9.38	84.57	105.20
34	BA	793	U	N1-C1'-C2'	9.37	126.18	114.00
15	AQ	29	ARG	N-CA-C	-9.35	85.76	111.00
27	Ac	24	GLU	N-CA-C	9.32	136.18	111.00
1	AA	138	G	N9-C1'-C2'	-9.30	101.77	112.00
1	AA	974(A)	C	N1-C1'-C2'	9.29	126.07	114.00
1	AA	776	G	N9-C1'-C2'	9.27	126.06	114.00
34	BA	1528	U	N1-C1'-C2'	9.22	125.98	114.00
36	BG	48	TYR	N-CA-C	-9.21	86.12	111.00
2	AB	119	A	N9-C1'-C2'	-9.12	101.97	112.00
1	AA	1363	C	N1-C1'-C2'	-9.09	102.00	112.00
1	AA	2756	U	P-O3'-C3'	9.04	130.55	119.70
1	AA	2459	A	C4-N9-C1'	9.00	142.49	126.30
1	AA	978	G	O4'-C1'-N9	8.96	115.37	108.20
1	AA	199	A	N9-C1'-C2'	8.95	125.64	114.00
1	AA	607	U	N3-C2-O2	-8.88	115.98	122.20
1	AA	280	C	N1-C1'-C2'	8.87	125.53	114.00
34	BA	397	A	C4-N9-C1'	8.86	142.25	126.30
1	AA	1951	U	N1-C1'-C2'	8.84	125.49	114.00
34	BA	1133	G	N9-C1'-C2'	-8.76	102.37	112.00
1	AA	2756	U	N1-C1'-C2'	8.69	125.30	114.00
1	AA	1313	U	N1-C1'-C2'	8.65	125.25	114.00
1	AA	1786	A	C5-C6-N6	-8.65	116.78	123.70
34	BA	397	A	C8-N9-C1'	-8.65	112.12	127.70
1	AA	1939	U	O5'-P-OP1	-8.65	97.92	105.70
1	AA	2459	A	C8-N9-C1'	-8.56	112.30	127.70
1	AA	1240	U	O3'-P-O5'	8.47	120.09	104.00
27	Ac	39	TYR	N-CA-C	8.45	133.82	111.00
1	AA	621	A	N9-C1'-C2'	-8.45	102.71	112.00
1	AA	2755	C	OP2-P-O3'	8.45	123.78	105.20
1	AA	2501	C	O3'-P-O5'	8.43	120.01	104.00
10	AL	74	GLY	N-CA-C	-8.38	92.15	113.10
34	BA	974	A	O3'-P-O5'	8.36	119.89	104.00
34	BA	451	A	N9-C1'-C2'	8.36	124.86	114.00
1	AA	1970	A	O4'-C1'-N9	8.27	114.81	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1489	U	O4'-C1'-N1	8.21	114.77	108.20
4	AD	63	ARG	N-CA-C	8.18	133.09	111.00
1	AA	1455	G	N9-C1'-C2'	-8.18	103.01	112.00
34	BA	530	G	C4-N9-C1'	-8.09	115.98	126.50
1	AA	1498	C	N1-C1'-C2'	8.07	124.50	114.00
1	AA	775	G	N9-C1'-C2'	8.02	124.43	114.00
1	AA	730	C	N1-C1'-C2'	7.97	124.37	114.00
1	AA	2051	A	N9-C1'-C2'	7.96	124.35	114.00
1	AA	2491	U	C2'-C3'-O3'	7.89	126.86	109.50
1	AA	2491	U	C5-C4-O4	-7.83	121.20	125.90
1	AA	2491	U	O4'-C4'-C3'	-7.83	96.17	104.00
34	BA	792	A	N9-C1'-C2'	7.81	124.16	114.00
1	AA	1778	U	C5-C4-O4	-7.79	121.22	125.90
34	BA	974	A	C5-C6-N6	-7.74	117.51	123.70
34	BA	1167	A	P-O3'-C3'	7.74	128.99	119.70
11	AM	45	LEU	CA-CB-CG	-7.74	97.50	115.30
1	AA	2076	U	N1-C1'-C2'	7.70	124.01	114.00
1	AA	2491	U	O4'-C1'-C2'	-7.67	98.13	105.80
1	AA	196	A	N9-C1'-C2'	7.65	123.94	114.00
10	AL	15	GLY	N-CA-C	-7.64	93.99	113.10
6	AF	79	GLY	N-CA-C	-7.64	93.99	113.10
4	AD	251	GLY	N-CA-C	-7.61	94.07	113.10
1	AA	2035	G	N9-C1'-C2'	7.60	123.88	114.00
1	AA	1667	G	O4'-C1'-N9	7.60	114.28	108.20
34	BA	1054	C	N1-C1'-C2'	-7.53	103.72	112.00
1	AA	1786	A	C6-N1-C2	-7.52	114.09	118.60
7	AG	95	ARG	N-CA-C	7.50	131.25	111.00
1	AA	1189	A	N9-C1'-C2'	-7.49	103.77	112.00
26	Ab	36	CYS	CA-CB-SG	7.47	127.45	114.00
1	AA	2587	A	N9-C1'-C2'	7.42	123.65	114.00
1	AA	607	U	C5-C4-O4	-7.41	121.45	125.90
34	BA	974	A	C6-N1-C2	-7.38	114.17	118.60
34	BA	457	C	N1-C1'-C2'	-7.36	103.91	112.00
1	AA	1203	G	OP2-P-O3'	-7.35	89.03	105.20
4	AD	49	ILE	N-CA-C	-7.35	91.16	111.00
21	AW	77	ASP	N-CA-C	7.34	130.83	111.00
17	AS	50	PRO	N-CA-C	7.34	131.19	112.10
57	BZ	196	ALA	C-N-CD	-7.32	104.49	120.60
1	AA	2510	C	N1-C1'-C2'	-7.32	103.95	112.00
34	BA	563	A	N9-C1'-C2'	7.31	123.51	114.00
1	AA	1786	A	C4-N9-C1'	7.30	139.45	126.30
1	AA	2422	A	N9-C1'-C2'	7.30	123.50	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	184	C	N1-C1'-C2'	7.28	123.46	114.00
1	AA	1537	C	N1-C1'-C2'	-7.28	103.99	112.00
34	BA	397	A	C5-C6-N6	-7.26	117.89	123.70
4	AD	45	ASN	N-CA-C	-7.25	91.41	111.00
34	BA	790	A	N9-C1'-C2'	-7.23	104.05	112.00
1	AA	1778	U	C2-N3-C4	-7.18	122.69	127.00
53	BX	36	LEU	CA-CB-CG	-7.18	98.79	115.30
27	Ac	26	ASN	N-CA-C	7.16	130.34	111.00
1	AA	265	A	N1-C6-N6	7.16	122.89	118.60
1	AA	2259	G	N9-C1'-C2'	-7.15	104.14	112.00
1	AA	2582	G	O4'-C1'-N9	-7.14	102.49	108.20
1	AA	1604	C	N1-C1'-C2'	7.10	123.23	114.00
1	AA	2491	U	C3'-C2'-C1'	-7.06	95.85	101.50
1	AA	2448	A	O5'-C5'-C4'	-7.06	98.29	111.70
34	BA	367	U	N1-C1'-C2'	7.06	123.18	114.00
1	AA	1372	U	C5-C4-O4	-7.04	121.68	125.90
1	AA	654	A	N9-C1'-C2'	-7.00	104.29	112.00
1	AA	1786	A	C8-N9-C1'	-7.00	115.10	127.70
1	AA	1792	G	N9-C1'-C2'	-6.99	104.31	112.00
1	AA	2602	A	N9-C1'-C2'	6.99	123.09	114.00
34	BA	530	G	C5'-C4'-O4'	-6.99	100.72	109.10
1	AA	282	A	N9-C1'-C2'	-6.98	104.33	112.00
1	AA	1205	U	C5'-C4'-O4'	6.97	117.47	109.10
4	AD	16	MET	N-CA-C	-6.97	92.19	111.00
1	AA	1205	U	C1'-O4'-C4'	-6.95	104.34	109.90
1	AA	1699	G	N9-C1'-C2'	6.95	123.04	114.00
9	AK	36	GLY	N-CA-C	-6.94	95.74	113.10
1	AA	620	G	N9-C1'-C2'	6.93	123.01	114.00
1	AA	554	U	N1-C1'-C2'	6.92	123.00	114.00
1	AA	1971	A	N9-C1'-C2'	-6.92	104.39	112.00
1	AA	1359	A	N9-C1'-C2'	-6.91	104.40	112.00
1	AA	1694	C	N1-C1'-C2'	6.91	122.98	114.00
53	BX	24	LEU	CA-CB-CG	6.90	131.18	115.30
1	AA	1240	U	OP2-P-O3'	-6.89	90.04	105.20
1	AA	2346	A	O4'-C1'-N9	6.89	113.71	108.20
17	AS	63	GLY	N-CA-C	-6.89	95.88	113.10
1	AA	911	A	N9-C1'-C2'	6.88	122.95	114.00
17	AS	94	LEU	N-CA-C	-6.87	92.45	111.00
5	AE	6	GLY	N-CA-C	-6.87	95.92	113.10
1	AA	2596	U	N1-C1'-C2'	-6.87	104.45	112.00
1	AA	527	C	N1-C1'-C2'	6.85	122.91	114.00
26	Ab	13	LYS	N-CA-C	-6.85	92.51	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1402	C	N1-C1'-C2'	-6.84	104.48	112.00
1	AA	2459	A	C6-N1-C2	-6.83	114.50	118.60
1	AA	607	U	N1-C2-O2	6.83	127.58	122.80
34	BA	1393	U	N1-C1'-C2'	-6.82	104.50	112.00
1	AA	607	U	N3-C4-C5	6.80	118.68	114.60
1	AA	2501	C	OP2-P-O3'	-6.79	90.26	105.20
34	BA	197	A	P-O3'-C3'	-6.79	111.56	119.70
1	AA	865	C	N1-C1'-C2'	6.76	122.79	114.00
1	AA	387	U	N1-C1'-C2'	6.75	122.78	114.00
34	BA	530	G	C8-N9-C1'	6.74	135.76	127.00
34	BA	885	G	N9-C1'-C2'	-6.73	104.60	112.00
1	AA	534	U	O4'-C1'-N1	6.71	113.57	108.20
1	AA	2447	G	N9-C1'-C2'	6.71	122.72	114.00
1	AA	762	U	N1-C1'-C2'	6.70	122.71	114.00
1	AA	615	G	N9-C1'-C2'	6.68	122.69	114.00
34	BA	1123	A	N9-C1'-C2'	6.67	122.67	114.00
34	BA	397	A	O4'-C1'-N9	-6.66	102.87	108.20
34	BA	813	U	N1-C1'-C2'	6.66	122.66	114.00
1	AA	1775	U	C5-C4-O4	-6.66	121.90	125.90
1	AA	2073	C	O4'-C1'-N1	-6.66	102.87	108.20
1	AA	2498	C	C5'-C4'-C3'	-6.65	105.37	116.00
25	Aa	32	TYR	N-CA-C	6.64	128.93	111.00
1	AA	1635	G	C5'-C4'-C3'	-6.64	105.38	116.00
34	BA	1279	A	N9-C1'-C2'	6.63	122.62	114.00
14	AP	63	THR	N-CA-C	-6.63	93.09	111.00
34	BA	47	C	N1-C1'-C2'	6.63	122.62	114.00
34	BA	531	U	N1-C1'-C2'	6.63	122.62	114.00
34	BA	12	U	O4'-C1'-N1	6.62	113.50	108.20
1	AA	1938	A	C4-N9-C1'	6.62	138.21	126.30
1	AA	1626	G	C5'-C4'-O4'	6.60	117.02	109.10
1	AA	1444(A)	A	N9-C1'-C2'	6.60	122.58	114.00
21	AW	52	SER	N-CA-C	-6.60	93.18	111.00
29	Ae	6	THR	N-CA-C	-6.59	93.20	111.00
11	AM	30	THR	N-CA-C	6.59	128.78	111.00
34	BA	397	A	N9-C1'-C2'	6.58	122.56	114.00
1	AA	650	C	O4'-C1'-N1	6.58	113.46	108.20
1	AA	1822	G	N9-C1'-C2'	-6.56	104.79	112.00
1	AA	270(G)	C	O4'-C1'-N1	6.56	113.44	108.20
1	AA	1786	A	N1-C6-N6	6.55	122.53	118.60
1	AA	1247	A	N9-C1'-C2'	6.55	122.52	114.00
34	BA	644	G	N9-C1'-C2'	-6.55	104.79	112.00
1	AA	1667	G	C5'-C4'-C3'	6.55	126.48	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AD	250	TRP	N-CA-C	6.55	128.68	111.00
1	AA	1143	A	N9-C1'-C2'	6.54	122.50	114.00
2	AB	118	G	N9-C1'-C2'	-6.54	104.81	112.00
1	AA	431	U	N1-C1'-C2'	-6.54	104.81	112.00
1	AA	703	U	O4'-C1'-N1	6.52	113.42	108.20
1	AA	2447	G	OP2-P-O3'	6.52	119.55	105.20
1	AA	2336	A	N9-C1'-C2'	6.52	122.48	114.00
1	AA	1955	U	N1-C1'-C2'	6.52	122.47	114.00
34	BA	974	A	N1-C6-N6	6.51	122.51	118.60
4	AD	215	LEU	CA-CB-CG	-6.50	100.36	115.30
34	BA	172	A	O3'-P-O5'	-6.49	91.67	104.00
1	AA	2320	A	N9-C1'-C2'	6.48	122.43	114.00
1	AA	1815	A	N9-C1'-C2'	6.46	122.40	114.00
1	AA	2726	U	N1-C1'-C2'	6.45	122.38	114.00
12	AN	82	ARG	N-CA-C	-6.44	93.61	111.00
1	AA	1604	C	O4'-C1'-N1	6.44	113.35	108.20
1	AA	725	G	N9-C1'-C2'	6.43	122.36	114.00
34	BA	1341	U	N1-C1'-C2'	-6.41	104.95	112.00
34	BA	1193	G	N9-C1'-C2'	-6.40	104.96	112.00
1	AA	2196	C	N1-C1'-C2'	6.40	122.32	114.00
34	BA	37	U	N3-C4-O4	-6.40	114.92	119.40
15	AQ	60	THR	N-CA-C	-6.39	93.75	111.00
34	BA	397	A	N1-C6-N6	6.38	122.42	118.60
34	BA	818	G	N9-C1'-C2'	6.37	122.28	114.00
34	BA	172	A	OP2-P-O3'	-6.36	91.21	105.20
7	AG	42	GLY	N-CA-C	6.35	128.97	113.10
1	AA	1367	A	N9-C1'-C2'	-6.33	105.03	112.00
1	AA	265	A	C5-C6-N6	-6.33	118.64	123.70
1	AA	2522	U	C2-N1-C1'	6.33	125.29	117.70
1	AA	828	U	N1-C1'-C2'	6.32	122.21	114.00
34	BA	1100	C	N1-C1'-C2'	6.32	122.21	114.00
27	Ac	37	ARG	N-CA-C	6.31	128.04	111.00
34	BA	974	A	C4-N9-C1'	6.31	137.66	126.30
34	BA	1049	U	C2'-C3'-O3'	6.31	123.80	113.70
17	AS	98	GLU	N-CA-C	6.31	128.03	111.00
34	BA	82	U	N3-C4-O4	-6.31	114.98	119.40
9	AK	51	PHE	N-CA-C	-6.31	93.97	111.00
1	AA	1204	A	C4-N9-C1'	6.30	137.65	126.30
1	AA	607	U	C2-N1-C1'	-6.30	110.14	117.70
1	AA	2448	A	P-O3'-C3'	-6.29	112.16	119.70
8	AH	111	HIS	N-CA-C	6.28	127.96	111.00
1	AA	101	G	N9-C1'-C2'	6.28	122.17	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BH	19	LEU	N-CA-C	-6.28	94.04	111.00
1	AA	488	G	N9-C1'-C2'	-6.28	105.09	112.00
34	BA	760	G	N9-C1'-C2'	-6.27	105.10	112.00
1	AA	2460	U	C2-N1-C1'	6.27	125.22	117.70
1	AA	265	A	C4-N9-C1'	6.26	137.58	126.30
1	AA	1956	U	C2-N1-C1'	6.26	125.21	117.70
15	AQ	43	GLN	N-CA-C	-6.26	94.11	111.00
4	AD	94	LEU	N-CA-C	-6.25	94.14	111.00
34	BA	1298	C	N1-C1'-C2'	6.25	122.12	114.00
1	AA	1169	G	N9-C1'-C2'	-6.24	105.14	112.00
9	AK	125	GLY	N-CA-C	-6.24	97.50	113.10
11	AM	59	LEU	CA-CB-CG	6.24	129.64	115.30
1	AA	1060	U	P-O3'-C3'	-6.23	112.22	119.70
34	BA	372	C	N1-C1'-C2'	6.23	122.10	114.00
1	AA	745	G	N9-C1'-C2'	6.23	122.09	114.00
12	AN	125	LEU	CA-CB-CG	-6.23	100.98	115.30
1	AA	1559	G	O4'-C1'-N9	-6.22	103.23	108.20
1	AA	1941	C	O4'-C4'-C3'	-6.20	97.80	104.00
1	AA	1950	G	O4'-C1'-N9	6.20	113.16	108.20
1	AA	676	A	N9-C1'-C2'	6.17	122.02	114.00
52	BW	2	PRO	N-CA-C	6.17	128.15	112.10
12	AN	28	ALA	N-CA-C	-6.17	94.34	111.00
34	BA	1054	C	O4'-C4'-C3'	-6.17	97.83	104.00
1	AA	2835	A	N9-C1'-C2'	6.16	122.01	114.00
34	BA	88	C	C1'-O4'-C4'	-6.16	104.97	109.90
29	Ae	35	GLN	N-CA-C	-6.15	94.40	111.00
34	BA	1167	A	OP1-P-O3'	6.15	118.73	105.20
4	AD	272	ALA	N-CA-C	6.14	127.58	111.00
1	AA	2198	A	N9-C1'-C2'	6.14	121.98	114.00
34	BA	528	C	N1-C1'-C2'	-6.14	105.25	112.00
1	AA	739	G	O4'-C1'-N9	6.13	113.10	108.20
34	BA	530	G	N3-C4-N9	-6.12	122.33	126.00
1	AA	741	G	C5'-C4'-C3'	6.12	125.79	116.00
1	AA	562	U	N1-C1'-C2'	6.11	121.95	114.00
34	BA	961	U	C5-C4-O4	-6.11	122.23	125.90
1	AA	67	U	N1-C2-O2	6.11	127.08	122.80
1	AA	494	G	N9-C1'-C2'	-6.10	105.29	112.00
34	BA	974	A	C8-N9-C1'	-6.10	116.72	127.70
5	AE	141	ILE	N-CA-C	6.10	127.46	111.00
1	AA	2447	G	P-O3'-C3'	6.10	127.02	119.70
34	BA	173	U	O3'-P-O5'	-6.09	92.43	104.00
5	AE	5	LEU	N-CA-C	6.09	127.44	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	191(B)	G	N9-C1'-C2'	-6.08	105.31	112.00
1	AA	1418	G	N9-C1'-C2'	-6.08	105.31	112.00
1	AA	1626	G	O4'-C1'-N9	6.08	113.06	108.20
1	AA	1324	G	N9-C1'-C2'	6.08	121.90	114.00
1	AA	1022	G	N9-C1'-C2'	6.07	121.89	114.00
38	BI	83	GLU	N-CA-C	-6.07	94.62	111.00
34	BA	319	G	N9-C1'-C2'	-6.05	105.34	112.00
1	AA	1786	A	C4-C5-C6	6.05	120.02	117.00
1	AA	1941	C	O4'-C1'-N1	6.04	113.04	108.20
1	AA	1161	C	N1-C1'-C2'	-6.04	105.35	112.00
1	AA	621	A	C5-C6-N1	-6.04	114.68	117.70
34	BA	1481	U	O4'-C1'-N1	6.04	113.03	108.20
34	BA	853	G	O4'-C1'-N9	6.03	113.02	108.20
1	AA	2478	A	N9-C1'-C2'	-6.03	105.37	112.00
21	AW	147	GLY	N-CA-C	-6.02	98.06	113.10
1	AA	1938	A	C8-N9-C1'	-6.01	116.87	127.70
1	AA	787	U	C5'-C4'-O4'	6.01	116.31	109.10
1	AA	2092	U	N1-C1'-C2'	6.01	121.81	114.00
1	AA	1809	A	C1'-O4'-C4'	-6.00	105.10	109.90
34	BA	973	G	OP1-P-O3'	-6.00	92.00	105.20
1	AA	1626	G	N9-C1'-C2'	6.00	121.80	114.00
1	AA	1746	G	N9-C1'-C2'	-6.00	105.41	112.00
1	AA	1936	A	N9-C1'-C2'	6.00	121.79	114.00
1	AA	265	A	C8-N9-C1'	-5.98	116.93	127.70
5	AE	49	LEU	CA-CB-CG	5.98	129.06	115.30
34	BA	397	A	C5'-C4'-C3'	-5.98	106.43	116.00
1	AA	746	A	N9-C1'-C2'	-5.98	105.43	112.00
1	AA	1602	U	N1-C1'-C2'	-5.97	105.43	112.00
1	AA	637	A	N9-C1'-C2'	5.95	121.74	114.00
1	AA	2597	G	N9-C1'-C2'	5.95	121.74	114.00
1	AA	2471	C	N1-C1'-C2'	-5.95	105.46	112.00
1	AA	607	U	C6-N1-C1'	5.94	129.52	121.20
1	AA	1310	G	C5'-C4'-O4'	5.94	116.23	109.10
1	AA	730	C	C5'-C4'-O4'	5.94	116.22	109.10
1	AA	2431	U	O4'-C1'-N1	5.93	112.95	108.20
31	AI	145	PRO	N-CA-CB	5.93	110.42	103.30
35	BF	98	LEU	CA-CB-CG	5.93	128.94	115.30
1	AA	1533	C	N1-C1'-C2'	-5.92	105.49	112.00
1	AA	49	A	N9-C1'-C2'	-5.92	105.49	112.00
1	AA	791	C	O4'-C1'-N1	5.92	112.94	108.20
34	BA	402	G	N9-C1'-C2'	-5.92	105.49	112.00
1	AA	1947	C	C5'-C4'-C3'	-5.92	106.54	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	301	G	N9-C1'-C2'	-5.91	105.50	112.00
1	AA	2821	A	N9-C1'-C2'	-5.90	105.51	112.00
34	BA	484	G	C2'-C3'-O3'	5.89	123.13	113.70
1	AA	1128	A	C5'-C4'-C3'	5.89	125.43	116.00
1	AA	1791	A	N9-C1'-C2'	5.89	121.65	114.00
5	AE	146	THR	N-CA-C	-5.88	95.13	111.00
35	BF	118	LEU	CA-CB-CG	5.87	128.80	115.30
1	AA	1379	A	N9-C1'-C2'	5.87	121.63	114.00
1	AA	427	U	C5-C4-O4	-5.87	122.38	125.90
1	AA	2681	C	N1-C1'-C2'	5.86	121.62	114.00
5	AE	195	LEU	N-CA-C	5.86	126.82	111.00
1	AA	1786	A	C6-C5-N7	-5.86	128.20	132.30
1	AA	2781	A	N9-C1'-C2'	-5.86	105.56	112.00
2	AB	50	G	N9-C1'-C2'	-5.85	105.57	112.00
5	AE	158	GLY	N-CA-C	5.84	127.69	113.10
36	BG	188	LEU	CA-CB-CG	5.84	128.73	115.30
43	BN	8	LEU	CA-CB-CG	5.84	128.73	115.30
1	AA	2614	A	N9-C1'-C2'	5.83	121.58	114.00
41	BL	134	ILE	CB-CA-C	-5.83	99.94	111.60
1	AA	1625	C	C2-N1-C1'	5.83	125.21	118.80
1	AA	196	A	O4'-C1'-N9	5.82	112.85	108.20
1	AA	2255	G	C5'-C4'-O4'	5.82	116.08	109.10
6	AF	60	SER	N-CA-C	-5.82	95.30	111.00
34	BA	590	C	N1-C1'-C2'	-5.82	105.60	112.00
34	BA	1294	G	N9-C1'-C2'	-5.81	105.61	112.00
14	AP	65	VAL	N-CA-C	-5.81	95.31	111.00
9	AK	77	GLY	N-CA-C	-5.81	98.58	113.10
5	AE	25	VAL	CB-CA-C	-5.81	100.37	111.40
1	AA	650	C	N1-C1'-C2'	5.80	121.55	114.00
1	AA	2613	U	N1-C1'-C2'	5.80	121.54	114.00
34	BA	80	G	N9-C1'-C2'	5.79	121.53	114.00
10	AL	4	PRO	N-CA-C	-5.79	97.03	112.10
34	BA	872	A	O4'-C1'-N9	5.79	112.83	108.20
34	BA	1029	G	N9-C1'-C2'	-5.78	105.64	112.00
1	AA	1530	G	C5-C6-O6	5.78	132.06	128.60
34	BA	397	A	C6-N1-C2	-5.77	115.14	118.60
21	AW	144	LEU	CA-CB-CG	5.76	128.56	115.30
24	AZ	27	GLY	N-CA-C	-5.76	98.69	113.10
1	AA	1313	U	C2-N1-C1'	5.75	124.61	117.70
1	AA	1440	G	N9-C1'-C2'	-5.75	105.68	112.00
21	AW	39	VAL	N-CA-C	5.73	126.48	111.00
29	Ae	49	VAL	CB-CA-C	-5.73	100.51	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2491	U	C4'-C3'-O3'	5.73	124.46	113.00
1	AA	2746	U	N1-C1'-C2'	-5.73	105.70	112.00
1	AA	446	G	N9-C1'-C2'	5.73	121.44	114.00
1	AA	1359	A	C5-C6-N6	-5.72	119.12	123.70
34	BA	1336	C	O4'-C1'-N1	5.72	112.78	108.20
34	BA	115	G	N9-C1'-C2'	5.72	121.44	114.00
5	AE	195	LEU	CA-CB-CG	-5.72	102.15	115.30
1	AA	662	G	N9-C1'-C2'	-5.70	105.73	112.00
41	BL	100	ILE	N-CA-C	-5.70	95.61	111.00
1	AA	1980	G	N9-C1'-C2'	5.70	121.41	114.00
1	AA	687	C	N1-C2-O2	5.70	122.32	118.90
1	AA	1204	A	C8-N9-C1'	-5.69	117.45	127.70
1	AA	946	G	N9-C1'-C2'	-5.69	105.74	112.00
1	AA	1489	U	C5'-C4'-O4'	5.69	115.93	109.10
34	BA	372	C	C2'-C3'-O3'	5.69	122.80	113.70
1	AA	1786	A	C5-C6-N1	5.67	120.54	117.70
1	AA	687	C	N1-C1'-C2'	5.67	121.37	114.00
34	BA	1139	G	N9-C1'-C2'	5.67	121.37	114.00
38	BI	31	LEU	CA-CB-CG	5.67	128.34	115.30
1	AA	2267	A	O4'-C1'-N9	5.67	112.73	108.20
34	BA	638	G	N9-C1'-C2'	-5.66	105.77	112.00
34	BA	146	G	N9-C1'-C2'	-5.66	105.78	112.00
1	AA	1420	U	N1-C1'-C2'	5.66	121.35	114.00
12	AN	111	GLU	N-CA-C	5.66	126.27	111.00
34	BA	833	U	C2-N3-C4	-5.65	123.61	127.00
12	AN	71	ASP	N-CA-C	5.65	126.25	111.00
1	AA	2517	C	N1-C1'-C2'	5.64	121.34	114.00
15	AQ	57	PHE	N-CA-C	5.64	126.23	111.00
1	AA	740	U	O5'-P-OP1	-5.62	100.64	105.70
1	AA	2761	G	C5'-C4'-C3'	5.62	124.99	116.00
34	BA	1185	G	N9-C1'-C2'	-5.62	105.82	112.00
1	AA	1625	C	O4'-C1'-N1	-5.61	103.71	108.20
1	AA	2256	G	O4'-C1'-N9	-5.61	103.71	108.20
9	AK	49	GLY	N-CA-C	-5.61	99.08	113.10
34	BA	209	U	N1-C1'-C2'	5.61	121.29	114.00
1	AA	2861	G	O4'-C1'-N9	5.60	112.68	108.20
34	BA	13	U	C5'-C4'-O4'	5.60	115.82	109.10
1	AA	1183	G	N9-C1'-C2'	5.60	121.28	114.00
8	AH	165	ALA	N-CA-C	-5.60	95.88	111.00
1	AA	2472	G	C5'-C4'-C3'	-5.59	107.05	116.00
1	AA	1786	A	N3-C4-N9	5.59	131.87	127.40
34	BA	853	G	C5-C6-O6	5.59	131.95	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1004	A	C2'-C3'-O3'	5.58	122.63	113.70
1	AA	1424	G	N9-C1'-C2'	-5.58	105.86	112.00
6	AF	13	SER	N-CA-C	-5.58	95.95	111.00
14	AP	62	LYS	N-CA-C	5.58	126.06	111.00
34	BA	767	A	N9-C1'-C2'	-5.57	105.87	112.00
5	AE	52	LEU	CA-CB-CG	5.57	128.12	115.30
40	BK	132	GLY	N-CA-C	5.57	127.02	113.10
1	AA	587	C	N1-C1'-C2'	5.57	121.23	114.00
1	AA	602	G	N9-C1'-C2'	5.57	121.23	114.00
1	AA	2111	C	N1-C1'-C2'	5.57	121.24	114.00
1	AA	978	G	C8-N9-C1'	5.56	134.23	127.00
1	AA	2414	G	N9-C1'-C2'	-5.56	105.88	112.00
17	AS	56	SER	N-CA-C	5.55	126.00	111.00
1	AA	444	C	N1-C1'-C2'	-5.55	105.89	112.00
1	AA	2458	G	N9-C1'-C2'	5.55	121.21	114.00
17	AS	49	THR	C-N-CD	-5.55	108.40	120.60
1	AA	791	C	N1-C1'-C2'	5.54	121.21	114.00
1	AA	2491	U	C2-N3-C4	-5.54	123.67	127.00
34	BA	833	U	N1-C2-O2	-5.54	118.92	122.80
1	AA	1191	G	N9-C1'-C2'	-5.54	105.91	112.00
1	AA	1667	G	C1'-O4'-C4'	-5.54	105.47	109.90
6	AF	47	GLY	N-CA-C	5.54	126.94	113.10
25	Aa	5	ILE	CB-CA-C	-5.53	100.53	111.60
29	Ae	17	THR	N-CA-C	-5.53	96.06	111.00
1	AA	606	U	C5-C4-O4	-5.53	122.58	125.90
27	Ac	22	ALA	N-CA-C	5.53	125.93	111.00
34	BA	242	C	N1-C1'-C2'	-5.53	105.92	112.00
51	BV	52	PRO	N-CA-C	5.53	126.47	112.10
34	BA	1028(A)	C	N1-C1'-C2'	-5.52	105.92	112.00
1	AA	631	A	N9-C1'-C2'	-5.52	105.93	112.00
1	AA	1253	A	N9-C1'-C2'	5.52	121.18	114.00
34	BA	723	U	N1-C1'-C2'	5.52	121.18	114.00
1	AA	834	C	N1-C1'-C2'	-5.51	105.94	112.00
1	AA	1559	G	N9-C1'-C2'	-5.51	105.94	112.00
34	BA	156	G	N9-C1'-C2'	-5.51	105.94	112.00
15	AQ	72	VAL	N-CA-C	-5.51	96.13	111.00
34	BA	1124	G	N9-C1'-C2'	5.51	121.16	114.00
10	AL	6	THR	N-CA-C	5.50	125.85	111.00
1	AA	141	A	N9-C1'-C2'	-5.50	105.95	112.00
1	AA	805	G	N9-C1'-C2'	-5.50	105.95	112.00
1	AA	1800	C	O4'-C4'-C3'	-5.50	98.50	104.00
1	AA	1785	A	N9-C1'-C2'	5.50	121.14	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AD	44	ASN	N-CA-C	-5.49	96.17	111.00
1	AA	2491	U	C2-N1-C1'	5.48	124.28	117.70
45	BP	119	LYS	N-CA-C	-5.48	96.21	111.00
25	Aa	52	THR	N-CA-C	5.47	125.78	111.00
35	BF	61	LEU	CA-CB-CG	5.47	127.89	115.30
34	BA	1084	G	N9-C1'-C2'	5.47	121.11	114.00
37	BH	9	CYS	CA-CB-SG	5.46	123.83	114.00
1	AA	2158	A	N9-C1'-C2'	5.46	121.10	114.00
1	AA	2285	C	N1-C1'-C2'	-5.46	105.99	112.00
14	AP	23	ARG	N-CA-C	5.46	125.74	111.00
34	BA	243	A	N9-C1'-C2'	5.46	121.10	114.00
1	AA	763	G	O4'-C4'-C3'	-5.45	98.55	104.00
34	BA	106	C	N1-C1'-C2'	-5.45	106.01	112.00
1	AA	1970	A	C5'-C4'-O4'	5.44	115.63	109.10
20	AV	52	SER	N-CA-C	-5.44	96.32	111.00
1	AA	192	C	O4'-C1'-N1	5.43	112.55	108.20
13	AO	38	VAL	C-N-CD	5.43	139.81	128.40
34	BA	682	G	N9-C1'-C2'	-5.43	106.03	112.00
41	BL	80	ILE	N-CA-C	-5.43	96.34	111.00
1	AA	2040	C	N1-C1'-C2'	-5.42	106.03	112.00
1	AA	2867	G	N9-C1'-C2'	5.42	121.04	114.00
25	Aa	19	GLY	N-CA-C	-5.41	99.57	113.10
1	AA	2885	C	N1-C1'-C2'	-5.41	106.05	112.00
1	AA	1600	C	N1-C1'-C2'	-5.40	106.06	112.00
11	AM	88	LEU	N-CA-C	5.40	125.58	111.00
1	AA	1544	C	N1-C1'-C2'	5.39	121.01	114.00
1	AA	1416	G	N9-C1'-C2'	5.39	121.01	114.00
25	Aa	13	ARG	N-CA-C	5.39	125.56	111.00
1	AA	1956	U	C5-C4-O4	-5.39	122.67	125.90
34	BA	753	A	N9-C1'-C2'	5.39	121.01	114.00
8	AH	111	HIS	C-N-CD	5.39	139.71	128.40
1	AA	1142	U	O4'-C1'-N1	5.38	112.50	108.20
34	BA	13	U	O4'-C1'-N1	-5.38	103.90	108.20
34	BA	88	C	C2-N1-C1'	-5.37	112.89	118.80
1	AA	2399	G	N9-C1'-C2'	-5.36	106.11	112.00
40	BK	76	ARG	N-CA-C	-5.36	96.53	111.00
1	AA	2705	A	N9-C1'-C2'	-5.35	106.11	112.00
1	AA	688	U	C2-N3-C4	-5.35	123.79	127.00
1	AA	1186	G	O4'-C1'-N9	-5.35	103.92	108.20
1	AA	1359	A	N1-C6-N6	5.34	121.81	118.60
15	AQ	45	PHE	N-CA-C	-5.34	96.58	111.00
1	AA	2777	G	O4'-C1'-N9	-5.33	103.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	AS	66	ARG	N-CA-C	5.33	125.40	111.00
5	AE	43	GLY	N-CA-C	-5.33	99.77	113.10
10	AL	68	GLU	N-CA-C	-5.33	96.61	111.00
1	AA	987	G	N9-C1'-C2'	-5.33	106.14	112.00
1	AA	15	G	N9-C1'-C2'	-5.33	106.14	112.00
1	AA	1968	G	N9-C1'-C2'	-5.33	106.14	112.00
1	AA	366	C	N1-C1'-C2'	-5.32	106.15	112.00
50	BU	61	GLU	N-CA-C	-5.32	96.63	111.00
1	AA	400	G	N9-C1'-C2'	-5.32	106.15	112.00
1	AA	2500	U	P-O3'-C3'	5.32	126.08	119.70
1	AA	532	A	N9-C1'-C2'	5.31	120.91	114.00
34	BA	529	G	N9-C1'-C2'	-5.31	106.16	112.00
34	BA	1011	G	N9-C1'-C2'	-5.31	106.16	112.00
34	BA	88	C	N1-C1'-C2'	5.31	120.90	114.00
4	AD	70	TRP	N-CA-C	-5.31	96.67	111.00
1	AA	1534	G	N9-C1'-C2'	-5.30	106.17	112.00
1	AA	2787	C	O4'-C1'-N1	5.30	112.44	108.20
1	AA	774	A	N9-C1'-C2'	5.30	120.89	114.00
1	AA	1020	A	N9-C1'-C2'	-5.30	106.17	112.00
24	AZ	38	GLU	N-CA-C	-5.29	96.70	111.00
1	AA	1762	A	N9-C1'-C2'	-5.29	106.18	112.00
1	AA	698	C	N1-C1'-C2'	5.28	120.87	114.00
34	BA	815	A	C1'-O4'-C4'	-5.28	105.67	109.90
34	BA	575	G	N9-C1'-C2'	5.27	120.86	114.00
36	BG	52	LEU	CA-CB-CG	5.27	127.43	115.30
1	AA	1230	C	N1-C1'-C2'	-5.27	106.20	112.00
10	AL	120	GLU	N-CA-C	5.27	125.22	111.00
1	AA	2358	G	N9-C1'-C2'	-5.27	106.21	112.00
1	AA	1005	C	N1-C1'-C2'	5.26	120.84	114.00
1	AA	1127	A	N9-C1'-C2'	-5.26	106.22	112.00
1	AA	2249	U	N1-C1'-C2'	5.26	120.84	114.00
30	Af	14	CYS	CA-CB-SG	-5.26	104.53	114.00
34	BA	37	U	N1-C1'-C2'	-5.26	106.21	112.00
1	AA	351	G	N9-C1'-C2'	5.25	120.83	114.00
1	AA	1964	G	N9-C1'-C2'	5.25	120.83	114.00
1	AA	2094	G	O4'-C1'-N9	5.25	112.40	108.20
1	AA	2448	A	OP1-P-O3'	5.25	116.75	105.20
9	AK	116	LEU	CA-CB-CG	-5.25	103.23	115.30
12	AN	125	LEU	C-N-CA	-5.24	100.00	122.00
34	BA	226	G	C1'-O4'-C4'	-5.24	105.71	109.90
50	BU	104	LYS	N-CA-C	5.24	125.14	111.00
9	AK	80	GLY	N-CA-C	-5.24	100.01	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2724	C	O4'-C1'-N1	5.23	112.39	108.20
32	AJ	21	PRO	C-N-CD	5.23	139.39	128.40
49	BT	16	HIS	N-CA-C	-5.23	96.88	111.00
13	AO	69	ASP	N-CA-C	5.23	125.11	111.00
45	BP	59	ARG	N-CA-C	-5.23	96.89	111.00
1	AA	2461	C	N1-C2-O2	5.22	122.03	118.90
10	AL	102	VAL	N-CA-C	5.22	125.09	111.00
20	AV	46	LYS	N-CA-C	5.21	125.08	111.00
1	AA	1993	U	C2-N1-C1'	5.21	123.95	117.70
1	AA	2493	U	N1-C1'-C2'	-5.21	106.27	112.00
10	AL	61	VAL	N-CA-C	5.21	125.06	111.00
1	AA	2243	U	N1-C1'-C2'	5.21	120.77	114.00
1	AA	2491	U	C6-N1-C2	-5.21	117.88	121.00
34	BA	1271	G	N9-C1'-C2'	-5.21	106.27	112.00
25	Aa	43	TYR	CA-CB-CG	5.21	123.29	113.40
1	AA	1635	G	C2'-C3'-O3'	5.20	122.02	113.70
1	AA	1956	U	C6-N1-C1'	-5.20	113.92	121.20
1	AA	463	G	N9-C1'-C2'	-5.19	106.29	112.00
2	AB	90	C	C5'-C4'-O4'	5.19	115.33	109.10
26	Ab	41	PRO	N-CA-C	-5.19	98.61	112.10
1	AA	2431	U	O4'-C4'-C3'	-5.19	98.81	104.00
1	AA	1510	A	N9-C1'-C2'	5.19	120.74	114.00
4	AD	260	ARG	N-CA-C	-5.19	97.00	111.00
1	AA	2464	C	N1-C1'-C2'	-5.18	106.30	112.00
1	AA	2195	C	N1-C1'-C2'	5.18	120.73	114.00
34	BA	5	U	OP1-P-OP2	-5.18	111.83	119.60
8	AH	130	ARG	N-CA-C	-5.17	97.03	111.00
1	AA	1694	C	O4'-C1'-N1	5.17	112.34	108.20
34	BA	1210	C	O4'-C1'-N1	5.17	112.34	108.20
25	Aa	31	ILE	N-CA-C	5.17	124.96	111.00
1	AA	860	U	C5-C4-O4	-5.17	122.80	125.90
29	Ae	51	ALA	N-CA-C	-5.17	97.05	111.00
34	BA	173	U	OP1-P-O3'	5.17	116.56	105.20
7	AG	48	GLU	N-CA-C	-5.16	97.06	111.00
1	AA	2027	G	C5'-C4'-C3'	5.16	124.26	116.00
17	AS	12	TYR	N-CA-C	5.16	124.93	111.00
15	AQ	49	VAL	N-CA-C	-5.15	97.09	111.00
15	AQ	63	VAL	N-CA-C	-5.15	97.09	111.00
1	AA	212	G	N9-C1'-C2'	-5.15	106.34	112.00
12	AN	34	LEU	CA-CB-CG	-5.15	103.47	115.30
34	BA	1148	U	N1-C1'-C2'	5.15	120.69	114.00
34	BA	1310	G	N9-C1'-C2'	-5.14	106.34	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	586	C	N1-C1'-C2'	-5.14	106.35	112.00
22	AX	26	TYR	N-CA-C	5.14	124.87	111.00
1	AA	775	G	C4-N9-C1'	5.14	133.18	126.50
10	AL	22	ILE	N-CA-C	-5.14	97.13	111.00
1	AA	643	A	N9-C1'-C2'	5.13	120.67	114.00
21	AW	179	ASP	N-CA-C	5.13	124.86	111.00
25	Aa	30	GLU	N-CA-C	-5.13	97.16	111.00
5	AE	147	PRO	N-CA-C	-5.12	98.77	112.10
34	BA	307	C	O4'-C1'-N1	-5.12	104.10	108.20
1	AA	1477	A	N9-C1'-C2'	5.12	120.66	114.00
34	BA	423	G	N9-C1'-C2'	5.12	120.66	114.00
10	AL	56	ASP	N-CA-CB	-5.12	101.39	110.60
18	AT	76	VAL	N-CA-C	5.12	124.82	111.00
7	AG	68	PRO	N-CA-C	5.12	125.40	112.10
32	AJ	53	VAL	C-N-CD	5.12	139.14	128.40
40	BK	8	GLU	N-CA-C	5.11	124.81	111.00
1	AA	2510	C	C5'-C4'-O4'	5.11	115.23	109.10
1	AA	930	U	C5'-C4'-O4'	-5.11	102.97	109.10
1	AA	265	A	C4-C5-C6	5.10	119.55	117.00
1	AA	1012	U	O4'-C4'-C3'	-5.10	98.90	104.00
1	AA	1746	G	O4'-C4'-C3'	-5.10	98.90	104.00
32	AJ	12	LEU	C-N-CD	5.10	139.11	128.40
5	AE	65	GLY	N-CA-C	-5.10	100.35	113.10
9	AK	104	LYS	N-CA-C	-5.10	97.23	111.00
1	AA	1706	U	N1-C1'-C2'	5.10	120.63	114.00
35	BF	187	LEU	N-CA-C	-5.10	97.24	111.00
1	AA	647	G	N9-C1'-C2'	5.10	120.62	114.00
2	AB	56	G	C2'-C3'-O3'	5.09	121.85	113.70
1	AA	283	A	O4'-C1'-N9	-5.09	104.13	108.20
1	AA	1956	U	C5'-C4'-C3'	-5.09	107.85	116.00
1	AA	2894	G	N9-C1'-C2'	5.09	120.62	114.00
2	AB	-1	A	OP1-P-OP2	-5.09	111.97	119.60
1	AA	2302	G	N9-C1'-C2'	-5.09	106.41	112.00
17	AS	40	LEU	N-CA-C	-5.09	97.27	111.00
34	BA	906	G	N9-C1'-C2'	-5.09	106.40	112.00
1	AA	1516	U	N3-C4-O4	-5.08	115.84	119.40
1	AA	2061	G	N9-C1'-C2'	5.08	120.60	114.00
1	AA	728	G	N9-C1'-C2'	5.08	120.60	114.00
1	AA	573	G	N9-C1'-C2'	5.08	120.60	114.00
1	AA	1240	U	N3-C4-O4	-5.08	115.85	119.40
47	BR	24	CYS	CA-CB-SG	5.08	123.14	114.00
38	BI	97	GLY	N-CA-C	-5.07	100.42	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	BQ	112	GLY	C-N-CD	5.07	139.05	128.40
57	BZ	132	ARG	C-N-CD	5.07	139.05	128.40
52	BW	58	VAL	C-N-CD	5.07	139.05	128.40
1	AA	1266	G	C5'-C4'-C3'	5.07	124.11	116.00
57	BZ	136	ARG	C-N-CD	5.07	139.05	128.40
1	AA	270(E)	G	O4'-C1'-N9	5.07	112.25	108.20
1	AA	66	C	N1-C1'-C2'	-5.07	106.43	112.00
57	BZ	104	GLY	C-N-CD	5.07	139.04	128.40
37	BH	31	CYS	CA-CB-SG	5.06	123.11	114.00
46	BQ	96	LEU	C-N-CD	5.06	139.03	128.40
32	AJ	71	THR	C-N-CD	5.06	139.03	128.40
34	BA	1230	C	N1-C1'-C2'	-5.06	106.43	112.00
57	BZ	194	VAL	C-N-CD	5.06	139.03	128.40
57	BZ	603	ALA	C-N-CD	5.06	139.03	128.40
12	AN	123	HIS	N-CA-C	-5.06	97.34	111.00
57	BZ	316	SER	C-N-CD	5.06	139.02	128.40
34	BA	13	U	N1-C1'-C2'	5.06	120.57	114.00
57	BZ	398	GLU	C-N-CD	5.06	139.02	128.40
57	BZ	443	ILE	C-N-CD	5.06	139.02	128.40
57	BZ	558	VAL	C-N-CD	5.06	139.02	128.40
32	AJ	90	LYS	C-N-CD	5.05	139.02	128.40
57	BZ	184	THR	C-N-CD	5.05	139.01	128.40
57	BZ	203	GLY	C-N-CD	5.05	139.01	128.40
21	AW	61	LEU	C-N-CD	-5.05	109.48	120.60
1	AA	2448	A	C5'-C4'-C3'	-5.05	107.92	116.00
45	BP	27	LEU	CA-CB-CG	5.05	126.91	115.30
57	BZ	304	GLU	C-N-CD	5.05	139.00	128.40
34	BA	491	G	N9-C1'-C2'	-5.05	106.45	112.00
11	AM	42	SER	N-CA-C	5.05	124.63	111.00
34	BA	741	G	N9-C1'-C2'	-5.05	106.45	112.00
1	AA	150	C	N1-C1'-C2'	5.04	120.56	114.00
1	AA	2425	A	O4'-C1'-N9	5.04	112.23	108.20
2	AB	74	U	N1-C1'-C2'	-5.04	106.45	112.00
32	AJ	18	THR	C-N-CD	5.04	138.99	128.40
34	BA	166	G	N9-C1'-C2'	-5.04	106.45	112.00
57	BZ	430	ASN	C-N-CD	5.04	138.99	128.40
1	AA	1429	G	N9-C1'-C2'	5.04	120.55	114.00
32	AJ	20	ALA	C-N-CD	5.04	138.99	128.40
36	BG	197	GLY	N-CA-C	5.04	125.69	113.10
57	BZ	75	THR	C-N-CD	5.04	138.98	128.40
34	BA	1205	U	O4'-C1'-N1	5.03	112.22	108.20
57	BZ	384	ARG	C-N-CD	5.03	138.96	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	95	G	N9-C1'-C2'	-5.03	106.47	112.00
32	AJ	112	MET	C-N-CD	5.03	138.96	128.40
1	AA	2447	G	O5'-P-OP1	-5.03	101.18	105.70
1	AA	125	G	N9-C1'-C2'	5.02	120.53	114.00
34	BA	226	G	N9-C1'-C2'	-5.02	106.48	112.00
34	BA	13	U	C2-N1-C1'	5.02	123.72	117.70
1	AA	1199	U	N1-C1'-C2'	5.01	120.52	114.00
1	AA	1778	U	C2'-C3'-O3'	5.01	121.72	113.70
1	AA	1559	G	C3'-C2'-C1'	-5.01	97.49	101.50
1	AA	1779	U	C6-N1-C2	-5.00	118.00	121.00
34	BA	1048	G	N9-C1'-C2'	-5.00	106.50	112.00
4	AD	80	ALA	N-CA-C	-5.00	97.49	111.00
1	AA	962	G	N9-C1'-C2'	5.00	120.50	114.00

There are no chirality outliers.

All (634) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1000	A	Sidechain
1	AA	1012	U	Sidechain
1	AA	1018	C	Sidechain
1	AA	1020	A	Sidechain
1	AA	1022	G	Sidechain
1	AA	1024	G	Sidechain
1	AA	1026	U	Sidechain
1	AA	1092	C	Sidechain
1	AA	1099	G	Sidechain
1	AA	1101	U	Sidechain
1	AA	1102	C	Sidechain
1	AA	1104	C	Sidechain
1	AA	1113	U	Sidechain
1	AA	1116	C	Sidechain
1	AA	1133	U	Sidechain
1	AA	114	U	Sidechain
1	AA	1141	U	Sidechain
1	AA	1142	U	Sidechain
1	AA	1143	A	Sidechain
1	AA	1154	G	Sidechain
1	AA	1155	A	Sidechain
1	AA	1160	G	Sidechain
1	AA	1179	C	Sidechain
1	AA	1182	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1183	G	Sidechain
1	AA	1194	A	Sidechain
1	AA	1195	G	Sidechain
1	AA	1206	G	Sidechain
1	AA	1238	G	Sidechain
1	AA	1240	U	Sidechain
1	AA	1242	A	Sidechain
1	AA	1247	A	Sidechain
1	AA	1262	A	Sidechain
1	AA	1269	A	Sidechain
1	AA	1273	U	Sidechain
1	AA	1284	A	Sidechain
1	AA	1288	U	Sidechain
1	AA	1297	C	Sidechain
1	AA	1301	A	Sidechain
1	AA	1310	G	Sidechain
1	AA	135	G	Sidechain
1	AA	1357	U	Sidechain
1	AA	1359	A	Sidechain
1	AA	1363	C	Sidechain
1	AA	1367	A	Sidechain
1	AA	1368	G	Sidechain
1	AA	1372	U	Sidechain
1	AA	1379	A	Sidechain
1	AA	138	G	Sidechain
1	AA	1384	A	Sidechain
1	AA	1392	A	Sidechain
1	AA	1393	A	Sidechain
1	AA	1397	U	Sidechain
1	AA	14	A	Sidechain
1	AA	1405	U	Sidechain
1	AA	141(A)	C	Sidechain
1	AA	1416	G	Sidechain
1	AA	1418	G	Sidechain
1	AA	1444(A)	A	Sidechain
1	AA	1450	C	Sidechain
1	AA	1473	G	Sidechain
1	AA	1474	C	Sidechain
1	AA	1477	A	Sidechain
1	AA	1478	G	Sidechain
1	AA	1479	G	Sidechain
1	AA	1489	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1497	U	Sidechain
1	AA	1513	C	Sidechain
1	AA	1515	C	Sidechain
1	AA	1516	U	Sidechain
1	AA	1523	U	Sidechain
1	AA	1525	G	Sidechain
1	AA	1527	G	Sidechain
1	AA	1532	C	Sidechain
1	AA	1537	C	Sidechain
1	AA	1539	G	Sidechain
1	AA	1541	U	Sidechain
1	AA	1559	G	Sidechain
1	AA	1564	C	Sidechain
1	AA	1565	C	Sidechain
1	AA	1568	G	Sidechain
1	AA	1574	C	Sidechain
1	AA	1576	U	Sidechain
1	AA	1590	U	Sidechain
1	AA	1597	A	Sidechain
1	AA	1604	C	Sidechain
1	AA	1606	G	Sidechain
1	AA	1609	A	Sidechain
1	AA	1623	G	Sidechain
1	AA	1625	C	Sidechain
1	AA	1648	C	Sidechain
1	AA	1651	G	Sidechain
1	AA	1655	A	Sidechain
1	AA	1657	C	Sidechain
1	AA	1659	U	Sidechain
1	AA	1661	G	Sidechain
1	AA	1667	G	Sidechain
1	AA	1677	A	Sidechain
1	AA	1681	G	Sidechain
1	AA	1684	C	Sidechain
1	AA	1685	C	Sidechain
1	AA	1686	C	Sidechain
1	AA	1687	G	Sidechain
1	AA	1688	U	Sidechain
1	AA	1691	C	Sidechain
1	AA	1693	U	Sidechain
1	AA	1694	C	Sidechain
1	AA	1699	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1704	G	Sidechain
1	AA	1711	C	Sidechain
1	AA	1716	U	Sidechain
1	AA	1718	G	Sidechain
1	AA	1727	U	Sidechain
1	AA	1735	C	Sidechain
1	AA	1741	C	Sidechain
1	AA	1742	C	Sidechain
1	AA	1743	G	Sidechain
1	AA	176	G	Sidechain
1	AA	1766	U	Sidechain
1	AA	1768	U	Sidechain
1	AA	1774	C	Sidechain
1	AA	1775	U	Sidechain
1	AA	1776	G	Sidechain
1	AA	1777	U	Sidechain
1	AA	1778	U	Sidechain
1	AA	1779	U	Sidechain
1	AA	1780	A	Sidechain
1	AA	1783	A	Sidechain
1	AA	1786	A	Sidechain
1	AA	1790	C	Sidechain
1	AA	1791	A	Sidechain
1	AA	1794	U	Sidechain
1	AA	1798	U	Sidechain
1	AA	1800	C	Sidechain
1	AA	1808	U	Sidechain
1	AA	1809	A	Sidechain
1	AA	1810	A	Sidechain
1	AA	1815	A	Sidechain
1	AA	1822	G	Sidechain
1	AA	1831	G	Sidechain
1	AA	1843	C	Sidechain
1	AA	185	U	Sidechain
1	AA	188	G	Sidechain
1	AA	1902	C	Sidechain
1	AA	192	C	Sidechain
1	AA	1940	U	Sidechain
1	AA	1962	C	Sidechain
1	AA	1964	G	Sidechain
1	AA	1965	C	Sidechain
1	AA	1967	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1971	A	Sidechain
1	AA	1981	A	Sidechain
1	AA	1982	C	Sidechain
1	AA	1983	C	Sidechain
1	AA	1985	G	Sidechain
1	AA	1989	G	Sidechain
1	AA	199	A	Sidechain
1	AA	1998	G	Sidechain
1	AA	2017	U	Sidechain
1	AA	2021	C	Sidechain
1	AA	2026	C	Sidechain
1	AA	2033	A	Sidechain
1	AA	2042	A	Sidechain
1	AA	2048	G	Sidechain
1	AA	2049	G	Sidechain
1	AA	2051	A	Sidechain
1	AA	2061	G	Sidechain
1	AA	2068	U	Sidechain
1	AA	2075	U	Sidechain
1	AA	2076	U	Sidechain
1	AA	2089	U	Sidechain
1	AA	2094	G	Sidechain
1	AA	2095	C	Sidechain
1	AA	2096	U	Sidechain
1	AA	2098	U	Sidechain
1	AA	2103	C	Sidechain
1	AA	2119	A	Sidechain
1	AA	212	G	Sidechain
1	AA	2126	A	Sidechain
1	AA	2130	U	Sidechain
1	AA	2138	C	Sidechain
1	AA	2148	G	Sidechain
1	AA	2161	C	Sidechain
1	AA	2185	C	Sidechain
1	AA	2189	U	Sidechain
1	AA	2190	G	Sidechain
1	AA	2193	G	Sidechain
1	AA	2195	C	Sidechain
1	AA	221	A	Sidechain
1	AA	2215	G	Sidechain
1	AA	224	G	Sidechain
1	AA	2246	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2259	G	Sidechain
1	AA	2262	U	Sidechain
1	AA	2263	C	Sidechain
1	AA	2265	U	Sidechain
1	AA	2267	A	Sidechain
1	AA	2274	A	Sidechain
1	AA	2278	A	Sidechain
1	AA	2284	C	Sidechain
1	AA	2287	A	Sidechain
1	AA	2293	C	Sidechain
1	AA	2295	C	Sidechain
1	AA	2296	U	Sidechain
1	AA	2297	C	Sidechain
1	AA	2299	G	Sidechain
1	AA	2314	C	Sidechain
1	AA	2326	C	Sidechain
1	AA	2332	U	Sidechain
1	AA	2336	A	Sidechain
1	AA	2337	G	Sidechain
1	AA	2352	A	Sidechain
1	AA	2364	C	Sidechain
1	AA	237	C	Sidechain
1	AA	2384	G	Sidechain
1	AA	2395	C	Sidechain
1	AA	2399	G	Sidechain
1	AA	2406	U	Sidechain
1	AA	2408	U	Sidechain
1	AA	2413	G	Sidechain
1	AA	2422	A	Sidechain
1	AA	2423	U	Sidechain
1	AA	2425	A	Sidechain
1	AA	2427	C	Sidechain
1	AA	2431	U	Sidechain
1	AA	2432	A	Sidechain
1	AA	2433	A	Sidechain
1	AA	2434	A	Sidechain
1	AA	2435	A	Sidechain
1	AA	2436	G	Sidechain
1	AA	2439	A	Sidechain
1	AA	2444	G	Sidechain
1	AA	2449	U	Sidechain
1	AA	2450	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2458	G	Sidechain
1	AA	2467	C	Sidechain
1	AA	2471	C	Sidechain
1	AA	2480	C	Sidechain
1	AA	2483	C	Sidechain
1	AA	2486	G	Sidechain
1	AA	2490	G	Sidechain
1	AA	2491	U	Sidechain
1	AA	2493	U	Sidechain
1	AA	2498	C	Sidechain
1	AA	25	U	Sidechain
1	AA	2500	U	Sidechain
1	AA	2501	C	Sidechain
1	AA	2504	U	Sidechain
1	AA	2505	G	Sidechain
1	AA	2507	C	Sidechain
1	AA	2508	G	Sidechain
1	AA	251	A	Sidechain
1	AA	2510	C	Sidechain
1	AA	2514	U	Sidechain
1	AA	2515	C	Sidechain
1	AA	2516	G	Sidechain
1	AA	2517	C	Sidechain
1	AA	2519	U	Sidechain
1	AA	2521	C	Sidechain
1	AA	2524	G	Sidechain
1	AA	2527	C	Sidechain
1	AA	2529	G	Sidechain
1	AA	253	C	Sidechain
1	AA	2530	A	Sidechain
1	AA	2537	U	Sidechain
1	AA	2540	C	Sidechain
1	AA	2555	U	Sidechain
1	AA	2560	C	Sidechain
1	AA	2568	C	Sidechain
1	AA	2569	G	Sidechain
1	AA	257	A	Sidechain
1	AA	2579	C	Sidechain
1	AA	2580	U	Sidechain
1	AA	2583	G	Sidechain
1	AA	2590	A	Sidechain
1	AA	2595	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2597	G	Sidechain
1	AA	2601	C	Sidechain
1	AA	2602	A	Sidechain
1	AA	2606	C	Sidechain
1	AA	2607	G	Sidechain
1	AA	2608	G	Sidechain
1	AA	2609	U	Sidechain
1	AA	2613	U	Sidechain
1	AA	2615	U	Sidechain
1	AA	2619	C	Sidechain
1	AA	2623	G	Sidechain
1	AA	2629	A	Sidechain
1	AA	2637	U	Sidechain
1	AA	2642	G	Sidechain
1	AA	2645	G	Sidechain
1	AA	2684	U	Sidechain
1	AA	2687	U	Sidechain
1	AA	2698	U	Sidechain
1	AA	270(C)	C	Sidechain
1	AA	270(D)	C	Sidechain
1	AA	270(G)	C	Sidechain
1	AA	270(Q)	C	Sidechain
1	AA	2706	G	Sidechain
1	AA	2724	C	Sidechain
1	AA	2725	A	Sidechain
1	AA	273(C)	C	Sidechain
1	AA	273(D)	C	Sidechain
1	AA	2737	G	Sidechain
1	AA	2741	A	Sidechain
1	AA	2746	U	Sidechain
1	AA	2763	G	Sidechain
1	AA	2764	A	Sidechain
1	AA	2777	G	Sidechain
1	AA	2781	A	Sidechain
1	AA	2787	C	Sidechain
1	AA	280	C	Sidechain
1	AA	2816	C	Sidechain
1	AA	2817	G	Sidechain
1	AA	2825	C	Sidechain
1	AA	2853	C	Sidechain
1	AA	2867	G	Sidechain
1	AA	2885	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2887	U	Sidechain
1	AA	2891	G	Sidechain
1	AA	2897	U	Sidechain
1	AA	2898	U	Sidechain
1	AA	2901	C	Sidechain
1	AA	296	C	Sidechain
1	AA	3	U	Sidechain
1	AA	31	C	Sidechain
1	AA	32	C	Sidechain
1	AA	322	A	Sidechain
1	AA	337	C	Sidechain
1	AA	350	U	Sidechain
1	AA	351	G	Sidechain
1	AA	353	G	Sidechain
1	AA	358	U	Sidechain
1	AA	360	G	Sidechain
1	AA	362	U	Sidechain
1	AA	366	C	Sidechain
1	AA	380	U	Sidechain
1	AA	383	U	Sidechain
1	AA	386	G	Sidechain
1	AA	417	C	Sidechain
1	AA	427	U	Sidechain
1	AA	433	C	Sidechain
1	AA	445	C	Sidechain
1	AA	446	G	Sidechain
1	AA	448	U	Sidechain
1	AA	459	U	Sidechain
1	AA	474	G	Sidechain
1	AA	511	U	Sidechain
1	AA	513	A	Sidechain
1	AA	514	A	Sidechain
1	AA	525	U	Sidechain
1	AA	534	U	Sidechain
1	AA	553	U	Sidechain
1	AA	584	C	Sidechain
1	AA	585	G	Sidechain
1	AA	601	C	Sidechain
1	AA	605	C	Sidechain
1	AA	606	U	Sidechain
1	AA	607	U	Sidechain
1	AA	608	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	610	C	Sidechain
1	AA	611	C	Sidechain
1	AA	618(A)	C	Sidechain
1	AA	621	A	Sidechain
1	AA	639	U	Sidechain
1	AA	641	C	Sidechain
1	AA	643	A	Sidechain
1	AA	646	A	Sidechain
1	AA	647	G	Sidechain
1	AA	650	C	Sidechain
1	AA	658	C	Sidechain
1	AA	67	U	Sidechain
1	AA	670	A	Sidechain
1	AA	679	C	Sidechain
1	AA	697	C	Sidechain
1	AA	703	U	Sidechain
1	AA	704	G	Sidechain
1	AA	709	U	Sidechain
1	AA	715	G	Sidechain
1	AA	724	U	Sidechain
1	AA	729	G	Sidechain
1	AA	730	C	Sidechain
1	AA	733	G	Sidechain
1	AA	744	G	Sidechain
1	AA	750	A	Sidechain
1	AA	758	C	Sidechain
1	AA	76	C	Sidechain
1	AA	762	U	Sidechain
1	AA	767	U	Sidechain
1	AA	774	A	Sidechain
1	AA	775	G	Sidechain
1	AA	776	G	Sidechain
1	AA	779	U	Sidechain
1	AA	786	C	Sidechain
1	AA	792	G	Sidechain
1	AA	795	C	Sidechain
1	AA	800	A	Sidechain
1	AA	801	G	Sidechain
1	AA	805	G	Sidechain
1	AA	807	U	Sidechain
1	AA	811	U	Sidechain
1	AA	821	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	830	G	Sidechain
1	AA	832	G	Sidechain
1	AA	835	A	Sidechain
1	AA	843	G	Sidechain
1	AA	847	U	Sidechain
1	AA	848	G	Sidechain
1	AA	858	U	Sidechain
1	AA	860	U	Sidechain
1	AA	865	C	Sidechain
1	AA	9	U	Sidechain
1	AA	913	U	Sidechain
1	AA	915	C	Sidechain
1	AA	922	U	Sidechain
1	AA	924	C	Sidechain
1	AA	930	U	Sidechain
1	AA	931	G	Sidechain
1	AA	944	G	Sidechain
1	AA	946	G	Sidechain
1	AA	955	C	Sidechain
1	AA	965	C	Sidechain
1	AA	969	U	Sidechain
1	AA	971	C	Sidechain
1	AA	972	G	Sidechain
1	AA	974(A)	C	Sidechain
1	AA	978	G	Sidechain
1	AA	980	A	Sidechain
1	AA	981	A	Sidechain
1	AA	986	C	Sidechain
1	AA	987	G	Sidechain
1	AA	990	A	Sidechain
2	AB	10	C	Sidechain
2	AB	101	A	Sidechain
2	AB	109	G	Sidechain
2	AB	11	C	Sidechain
2	AB	33	G	Sidechain
2	AB	34	U	Sidechain
2	AB	55	U	Sidechain
2	AB	60	C	Sidechain
2	AB	7	G	Sidechain
2	AB	71	C	Sidechain
2	AB	77	U	Sidechain
2	AB	8	U	Sidechain

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Mol	Chain	Res	Type	Group
2	AB	89	G	Sidechain
2	AB	90	C	Sidechain
2	AB	93	C	Sidechain
2	AB	97	G	Sidechain
2	AB	98	G	Sidechain
3	AC	179	SER	Mainchain
5	AE	151	TYR	Sidechain
6	AF	7	TYR	Sidechain
31	AI	153	LEU	Mainchain,Peptide
9	AK	4	TYR	Sidechain
12	AN	93	TYR	Sidechain
15	AQ	32	TYR	Sidechain
17	AS	91	TYR	Sidechain
25	Aa	32	TYR	Sidechain
26	Ab	29	THR	Mainchain
34	BA	1012	U	Sidechain
34	BA	1027	C	Sidechain
34	BA	1028(A)	C	Sidechain
34	BA	1037	C	Sidechain
34	BA	1038	C	Sidechain
34	BA	1039	C	Sidechain
34	BA	1040	U	Sidechain
34	BA	1048	G	Sidechain
34	BA	1052	U	Sidechain
34	BA	1054	C	Sidechain
34	BA	1056	U	Sidechain
34	BA	1065	U	Sidechain
34	BA	1067	A	Sidechain
34	BA	1073	U	Sidechain
34	BA	1078	U	Sidechain
34	BA	1083	U	Sidechain
34	BA	1097	C	Sidechain
34	BA	1100	C	Sidechain
34	BA	1121	U	Sidechain
34	BA	1122	U	Sidechain
34	BA	1124	G	Sidechain
34	BA	1128	C	Sidechain
34	BA	1133	G	Sidechain
34	BA	1143	G	Sidechain
34	BA	115	G	Sidechain
34	BA	1150	U	Sidechain
34	BA	1195	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1199	U	Sidechain
34	BA	12	U	Sidechain
34	BA	1226	C	Sidechain
34	BA	1235	U	Sidechain
34	BA	124	G	Sidechain
34	BA	1246	C	Sidechain
34	BA	125	U	Sidechain
34	BA	1263	C	Sidechain
34	BA	1266	G	Sidechain
34	BA	1277	C	Sidechain
34	BA	1285	A	Sidechain
34	BA	129	U	Sidechain
34	BA	1298	C	Sidechain
34	BA	1302	U	Sidechain
34	BA	131	C	Sidechain
34	BA	1314	C	Sidechain
34	BA	132	C	Sidechain
34	BA	1327	C	Sidechain
34	BA	1328	C	Sidechain
34	BA	1330	U	Sidechain
34	BA	134	A	Sidechain
34	BA	1347	G	Sidechain
34	BA	135	C	Sidechain
34	BA	1352	C	Sidechain
34	BA	1362	C	Sidechain
34	BA	1370	G	Sidechain
34	BA	1377	A	Sidechain
34	BA	138	G	Sidechain
34	BA	1402	C	Sidechain
34	BA	1404	C	Sidechain
34	BA	1405	G	Sidechain
34	BA	1422	G	Sidechain
34	BA	1427	U	Sidechain
34	BA	145	G	Sidechain
34	BA	146	G	Sidechain
34	BA	1472	U	Sidechain
34	BA	1477	C	Sidechain
34	BA	1481	U	Sidechain
34	BA	1541	U	Sidechain
34	BA	156	G	Sidechain
34	BA	158	G	Sidechain
34	BA	159	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	17	U	Sidechain
34	BA	191(C)	G	Sidechain
34	BA	191(D)	U	Sidechain
34	BA	219	C	Sidechain
34	BA	225	C	Sidechain
34	BA	244	U	Sidechain
34	BA	253	U	Sidechain
34	BA	267	C	Sidechain
34	BA	274	A	Sidechain
34	BA	281	G	Sidechain
34	BA	285	G	Sidechain
34	BA	287	U	Sidechain
34	BA	295	C	Sidechain
34	BA	31	G	Sidechain
34	BA	332	G	Sidechain
34	BA	335	C	Sidechain
34	BA	348	G	Sidechain
34	BA	352	C	Sidechain
34	BA	367	U	Sidechain
34	BA	37	U	Sidechain
34	BA	375	U	Sidechain
34	BA	385	C	Sidechain
34	BA	395	C	Sidechain
34	BA	397	A	Sidechain
34	BA	398	C	Sidechain
34	BA	403	C	Sidechain
34	BA	412	A	Sidechain
34	BA	418	C	Sidechain
34	BA	430	A	Sidechain
34	BA	432	A	Sidechain
34	BA	45	U	Sidechain
34	BA	451	A	Sidechain
34	BA	47	C	Sidechain
34	BA	484	G	Sidechain
34	BA	501	C	Sidechain
34	BA	504	C	Sidechain
34	BA	518	C	Sidechain
34	BA	529	G	Sidechain
34	BA	531	U	Sidechain
34	BA	532	A	Sidechain
34	BA	54	C	Sidechain
34	BA	56	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	560	U	Sidechain
34	BA	563	A	Sidechain
34	BA	575	G	Sidechain
34	BA	576	G	Sidechain
34	BA	579	G	Sidechain
34	BA	590	C	Sidechain
34	BA	591	U	Sidechain
34	BA	596	C	Sidechain
34	BA	610	G	Sidechain
34	BA	616	G	Sidechain
34	BA	63	C	Sidechain
34	BA	634	C	Sidechain
34	BA	644	G	Sidechain
34	BA	66	G	Sidechain
34	BA	661	G	Sidechain
34	BA	666	G	Sidechain
34	BA	672	U	Sidechain
34	BA	689	C	Sidechain
34	BA	690	G	Sidechain
34	BA	717	C	Sidechain
34	BA	727	G	Sidechain
34	BA	729	A	Sidechain
34	BA	734	G	Sidechain
34	BA	739	C	Sidechain
34	BA	741	G	Sidechain
34	BA	75	C	Sidechain
34	BA	760	G	Sidechain
34	BA	763	G	Sidechain
34	BA	770	C	Sidechain
34	BA	779	C	Sidechain
34	BA	792	A	Sidechain
34	BA	808	C	Sidechain
34	BA	813	U	Sidechain
34	BA	817	C	Sidechain
34	BA	82	U	Sidechain
34	BA	834	C	Sidechain
34	BA	853	G	Sidechain
34	BA	862	C	Sidechain
34	BA	863	U	Sidechain
34	BA	875	C	Sidechain
34	BA	88	C	Sidechain
34	BA	883	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	887	G	Sidechain
34	BA	895	G	Sidechain
34	BA	898	G	Sidechain
34	BA	901	A	Sidechain
34	BA	902	G	Sidechain
34	BA	904	C	Sidechain
34	BA	905	U	Sidechain
34	BA	911	U	Sidechain
34	BA	912	C	Sidechain
34	BA	923	A	Sidechain
34	BA	947	G	Sidechain
34	BA	955	U	Sidechain
34	BA	961	U	Sidechain
34	BA	974	A	Sidechain
34	BA	983	A	Sidechain
34	BA	989	C	Sidechain
34	BA	998(A)	C	Sidechain
37	BH	54	TYR	Sidechain
39	BJ	4	TYR	Sidechain
44	BO	75	TYR	Sidechain
47	BR	34	TYR	Sidechain

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	62218	0	31250	16189	0
2	AB	2641	0	1337	612	0
3	AC	1742	0	1779	1073	0
4	AD	2124	0	2207	1489	0
5	AE	1578	0	1647	1111	0
6	AF	1625	0	1666	824	0
7	AG	1482	0	1546	878	0
8	AH	1328	0	1407	716	0
9	AK	1113	0	1183	775	0
10	AL	932	0	992	735	0
11	AM	1106	0	1183	771	0
12	AN	1080	0	1127	743	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	AO	960	0	1021	592	0
14	AP	877	0	938	509	0
15	AQ	976	0	1031	647	0
16	AR	964	0	1022	730	0
17	AS	779	0	852	567	0
18	AT	876	0	941	442	0
19	AU	742	0	800	355	0
20	AV	844	0	930	431	0
21	AW	1435	0	1463	733	0
22	AX	670	0	700	380	0
23	AY	567	0	621	306	0
24	AZ	469	0	518	322	0
25	Aa	581	0	577	0	0
26	Ab	445	0	459	0	0
27	Ac	426	0	452	0	0
28	Ad	430	0	480	0	0
29	Ae	515	0	587	0	0
30	Af	307	0	335	0	0
31	AI	752	0	363	165	0
32	AJ	993	0	1019	739	0
33	Ag	620	0	132	0	0
34	BA	32554	0	16390	7456	0
35	BF	1900	0	1951	1054	0
36	BG	1612	0	1677	720	0
37	BH	1703	0	1763	850	0
38	BI	1146	0	1207	586	0
39	BJ	843	0	857	393	0
40	BK	1257	0	1296	564	0
41	BL	1116	0	1177	722	0
42	BM	1010	0	1035	505	0
43	BN	794	0	840	371	0
44	BO	885	0	904	471	0
45	BP	970	0	1057	519	0
46	BQ	914	0	954	640	0
47	BR	492	0	529	283	0
48	BS	734	0	771	348	0
49	BT	700	0	720	351	0
50	BU	857	0	930	454	0
51	BV	597	0	666	373	0
52	BW	647	0	653	536	0
53	BX	763	0	857	410	0
54	BY	208	0	221	88	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	BC	1619	0	819	220	0
56	BD	1597	0	802	300	0
56	BE	1597	0	799	357	0
57	BZ	4610	0	4492	2673	0
58	AA	42	0	46	25	0
58	BA	42	0	46	15	0
59	AA	44	0	18	80	0
60	BZ	32	0	14	38	0
All	All	155482	0	106056	49352	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 197.

All (49352) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:112:MET:SD	32:AJ:122:ALA:HB2	1.28	1.70
3:AC:171:ILE:CD1	3:AC:192:PHE:CZ	1.75	1.70
34:BA:1226:C:C4	46:BQ:104:ARG:HG3	1.16	1.69
1:AA:716:A:C2	48:BS:44:LYS:HG3	1.30	1.67
32:AJ:75:SER:HB3	32:AJ:130:SER:CB	1.24	1.66
1:AA:2447:G:C8	1:AA:2500:U:H3'	1.23	1.66
57:BZ:13:HIS:CD2	57:BZ:106:MET:HB2	1.31	1.65
34:BA:1311:G:C6	34:BA:1327:C:C5	1.80	1.65
46:BQ:20:THR:HG23	46:BQ:26:GLY:CA	1.16	1.64
57:BZ:395:ARG:HG3	57:BZ:474:ASP:CB	1.22	1.64
1:AA:2629:A:H3'	1:AA:2895:U:C6	1.12	1.63
57:BZ:400:TYR:CB	57:BZ:442:VAL:HG12	1.29	1.63
34:BA:1310:G:C6	34:BA:1327:C:C4	1.84	1.63
34:BA:1318:A:H2'	52:BW:37:ARG:CB	1.23	1.63
46:BQ:20:THR:CB	46:BQ:26:GLY:HA2	1.19	1.63
46:BQ:4:ILE:CD1	46:BQ:57:ARG:HG3	1.18	1.62
32:AJ:23:VAL:HG21	32:AJ:41:PHE:CE1	1.20	1.62
57:BZ:502:PHE:CE2	57:BZ:555:VAL:CB	1.76	1.61
1:AA:2178:C:H5''	3:AC:46:LYS:CG	1.19	1.61
56:BE:21:A:N6	56:BE:46:G:C4	1.69	1.60
46:BQ:22:ILE:HB	46:BQ:25:ILE:CD1	1.21	1.60
46:BQ:16:ASP:CB	46:BQ:34:LEU:CD1	1.79	1.60
1:AA:2532:G:H4'	1:AA:2657:A:C2	1.35	1.59
34:BA:1318:A:C2'	52:BW:37:ARG:HB2	1.20	1.59
1:AA:1075:C:H1'	32:AJ:90:LYS:CD	1.24	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1080:C:C2	32:AJ:129:GLY:HA3	1.32	1.58
1:AA:1080:C:H5''	32:AJ:128:ALA:CB	1.17	1.58
57:BZ:172:ALA:HB2	57:BZ:179:MET:CE	1.20	1.58
34:BA:1486:G:C5	34:BA:1487:G:C8	1.87	1.58
57:BZ:165:ALA:CB	57:BZ:171:ILE:HG22	1.31	1.57
1:AA:2507:C:H1'	59:AA:3002:8AN:C4	1.25	1.57
1:AA:2129:C:C4'	3:AC:6:ARG:HG2	1.17	1.57
57:BZ:565:LEU:CA	57:BZ:566:GLU:HG2	1.15	1.57
46:BQ:15:VAL:CB	46:BQ:34:LEU:HD23	1.31	1.57
1:AA:2507:C:C6	59:AA:3002:8AN:H1'	1.34	1.57
1:AA:1202:C:C5	1:AA:1203:G:H1'	1.39	1.56
34:BA:1125:U:C5'	43:BN:38:ILE:HD13	1.22	1.56
46:BQ:16:ASP:CB	46:BQ:34:LEU:HD12	1.14	1.56
32:AJ:75:SER:CB	32:AJ:130:SER:HB3	1.21	1.56
46:BQ:5:ALA:HB1	46:BQ:67:GLU:CG	1.36	1.56
34:BA:1319:A:C5'	52:BW:70:LYS:NZ	1.69	1.56
57:BZ:405:LEU:CD1	57:BZ:464:LEU:N	1.68	1.56
1:AA:1080:C:C4'	32:AJ:128:ALA:HB3	1.17	1.56
34:BA:1225:A:H5'	52:BW:78:ARG:CD	1.23	1.55
57:BZ:426:LEU:HD13	57:BZ:441:TYR:CE1	1.08	1.55
56:BE:18:G:H21	56:BE:58:A:C5'	1.19	1.55
1:AA:2122:U:H4'	3:AC:166:ASP:CB	1.15	1.55
32:AJ:72:PRO:HG2	32:AJ:77:LEU:CG	1.14	1.55
56:BE:1:G:H1'	56:BE:72:C:C2	1.39	1.54
57:BZ:172:ALA:CB	57:BZ:179:MET:HE3	1.36	1.54
57:BZ:9:ALA:CB	57:BZ:73:VAL:CG2	1.76	1.54
32:AJ:72:PRO:CB	32:AJ:77:LEU:HD23	1.36	1.54
34:BA:1014:A:H1'	52:BW:34:TRP:CH2	1.35	1.54
3:AC:156:ILE:CG1	3:AC:160:ARG:HG3	1.37	1.54
52:BW:9:VAL:HG22	52:BW:42:PRO:CB	1.25	1.54
57:BZ:9:ALA:CB	57:BZ:73:VAL:HG23	1.25	1.54
1:AA:2:G:C5	1:AA:2902:C:C4	1.96	1.54
57:BZ:565:LEU:HB2	57:BZ:566:GLU:CG	1.29	1.54
57:BZ:379:GLU:CG	57:BZ:581:THR:HG22	1.34	1.53
1:AA:1080:C:C5'	32:AJ:128:ALA:CB	1.81	1.53
57:BZ:13:HIS:NE2	57:BZ:106:MET:CB	1.68	1.53
57:BZ:13:HIS:CG	57:BZ:109:THR:HG23	1.37	1.53
46:BQ:19:LEU:CD1	46:BQ:30:ALA:HA	1.35	1.53
57:BZ:565:LEU:CB	57:BZ:566:GLU:HG2	1.12	1.53
1:AA:1080:C:C5'	32:AJ:128:ALA:HB1	1.35	1.53
46:BQ:20:THR:CG2	46:BQ:26:GLY:HA2	1.36	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:15:VAL:HG21	46:BQ:39:ILE:CG1	1.11	1.52
1:AA:2129:C:H4'	3:AC:6:ARG:CG	1.36	1.52
57:BZ:206:GLN:HG2	57:BZ:227:LYS:CB	1.37	1.51
34:BA:1454:G:H2'	34:BA:1455:G:C8	1.44	1.51
1:AA:6:A:N1	1:AA:2898:U:C5	1.76	1.51
1:AA:1916:A:C6	34:BA:1409:C:H4'	1.46	1.51
57:BZ:446:ARG:HG2	57:BZ:480:VAL:CG1	1.37	1.51
31:AI:53:VAL:C	31:AI:85:ASP:HA	1.25	1.51
57:BZ:491:ASN:ND2	57:BZ:536:ASN:CB	1.68	1.51
57:BZ:422:ARG:NH1	57:BZ:480:VAL:HG22	1.20	1.50
1:AA:2652:C:C5	1:AA:2669:G:N2	1.79	1.50
57:BZ:206:GLN:CG	57:BZ:227:LYS:HB2	1.40	1.50
46:BQ:19:LEU:HD11	46:BQ:30:ALA:CA	1.06	1.50
57:BZ:565:LEU:N	57:BZ:566:GLU:CG	1.75	1.50
46:BQ:20:THR:CG2	46:BQ:26:GLY:CA	1.86	1.50
1:AA:2629:A:C3'	1:AA:2895:U:H6	1.17	1.50
3:AC:66:HIS:CA	3:AC:67:GLY:N	1.75	1.50
3:AC:171:ILE:HD13	3:AC:192:PHE:CE2	1.46	1.49
3:AC:180:PHE:CE2	3:AC:184:LYS:HB2	1.48	1.49
52:BW:9:VAL:CG2	52:BW:42:PRO:HB2	1.04	1.49
57:BZ:491:ASN:CG	57:BZ:536:ASN:HB2	1.27	1.49
52:BW:15:LEU:CD1	52:BW:71:LEU:HD11	1.43	1.49
57:BZ:234:ASN:HD21	57:BZ:247:ARG:CB	1.22	1.49
1:AA:1203:G:O6	1:AA:1240:U:C2	1.66	1.48
57:BZ:379:GLU:CD	57:BZ:581:THR:CG2	1.79	1.48
1:AA:1051:G:C1'	1:AA:2752:C:H5'	1.36	1.48
57:BZ:207:MET:CG	57:BZ:226:ILE:HD13	1.04	1.48
32:AJ:17:ALA:CB	32:AJ:42:ASN:N	1.74	1.48
3:AC:46:LYS:HG3	3:AC:211:SER:CB	1.02	1.48
1:AA:716:A:N3	48:BS:44:LYS:CG	1.77	1.48
3:AC:156:ILE:HG12	3:AC:160:ARG:CG	1.44	1.47
32:AJ:72:PRO:CD	32:AJ:77:LEU:CD2	1.89	1.47
34:BA:1158:C:C2'	35:BF:133:LYS:NZ	1.75	1.47
57:BZ:565:LEU:HB2	57:BZ:566:GLU:CD	1.27	1.47
57:BZ:426:LEU:CD1	57:BZ:441:TYR:CE1	1.91	1.47
57:BZ:11:ILE:CG2	57:BZ:112:VAL:HB	1.42	1.47
1:AA:2124:G:H4'	3:AC:42:GLU:CD	1.23	1.47
3:AC:43:VAL:CG2	3:AC:224:ILE:HD13	1.44	1.47
1:AA:2181:G:C5'	55:BC:17:C:H41	1.25	1.47
57:BZ:379:GLU:CD	57:BZ:581:THR:HG22	1.16	1.47
32:AJ:17:ALA:CB	32:AJ:42:ASN:H	1.20	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:82:GLY:HA3	57:BZ:361:ARG:CD	1.45	1.46
32:AJ:27:LEU:HD21	32:AJ:57:ILE:C	1.33	1.46
1:AA:2653:U:N3	1:AA:2668:G:N2	1.64	1.46
1:AA:1051:G:C2'	1:AA:2752:C:H5'	1.31	1.46
34:BA:1312:G:C6	34:BA:1326:C:C4	2.04	1.46
57:BZ:13:HIS:CD2	57:BZ:108:GLN:HG2	1.47	1.46
57:BZ:405:LEU:CG	57:BZ:464:LEU:N	1.76	1.46
57:BZ:15:ASP:HB2	57:BZ:16:HIS:CG	1.45	1.46
3:AC:46:LYS:CG	3:AC:211:SER:CB	1.93	1.46
57:BZ:395:ARG:CG	57:BZ:474:ASP:CB	1.94	1.45
31:AI:54:ALA:HB2	31:AI:84:GLU:C	1.18	1.45
46:BQ:15:VAL:HB	46:BQ:34:LEU:CD2	0.99	1.45
57:BZ:172:ALA:CB	57:BZ:179:MET:CE	1.89	1.45
1:AA:2471:C:C4'	57:BZ:529:ARG:HH22	0.95	1.45
1:AA:2507:C:C1'	59:AA:3002:8AN:N3	1.75	1.45
3:AC:46:LYS:CG	3:AC:211:SER:HB3	1.45	1.45
1:AA:2181:G:H5'	55:BC:17:C:N4	1.24	1.45
32:AJ:25:PRO:HG2	57:BZ:429:MET:SD	1.55	1.45
57:BZ:11:ILE:HG23	57:BZ:112:VAL:CB	1.47	1.45
57:BZ:240:ILE:HB	57:BZ:286:ASP:CA	1.41	1.45
55:BC:16:U:C4	55:BC:18:G:H3'	1.52	1.44
57:BZ:15:ASP:HB2	57:BZ:16:HIS:ND1	1.30	1.44
3:AC:171:ILE:CD1	3:AC:192:PHE:HZ	1.15	1.44
46:BQ:15:VAL:CB	46:BQ:34:LEU:CD2	1.86	1.44
57:BZ:205:PHE:CZ	57:BZ:226:ILE:HD12	1.51	1.44
57:BZ:207:MET:HG3	57:BZ:226:ILE:CD1	0.99	1.44
1:AA:1906:G:C8	1:AA:1929:G:C8	2.05	1.44
32:AJ:23:VAL:C	32:AJ:35:MET:HE1	1.25	1.44
1:AA:1637:A:C4'	1:AA:2711:A:O2'	1.66	1.44
34:BA:1319:A:H5''	52:BW:70:LYS:NZ	1.24	1.44
1:AA:2556:C:N3	57:BZ:546:MET:CE	1.78	1.44
57:BZ:81:PHE:CG	57:BZ:365:HIS:CD2	2.03	1.44
34:BA:958:A:H1'	52:BW:55:LYS:NZ	1.33	1.44
57:BZ:6:ARG:HD2	57:BZ:194:VAL:CG1	1.48	1.44
32:AJ:75:SER:CB	32:AJ:130:SER:CB	1.83	1.43
32:AJ:24:GLY:N	32:AJ:35:MET:CE	1.80	1.43
1:AA:2122:U:C4'	3:AC:166:ASP:HB2	1.47	1.43
3:AC:45:ALA:HA	3:AC:213:TYR:CD1	1.54	1.43
46:BQ:20:THR:HA	46:BQ:26:GLY:N	1.27	1.43
57:BZ:400:TYR:HB3	57:BZ:442:VAL:CG1	1.46	1.43
1:AA:2175:C:C2	3:AC:219:GLY:O	1.69	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:240:ILE:HB	57:BZ:286:ASP:CB	1.49	1.43
57:BZ:18:LYS:CB	60:BZ:701:GCP:O2B	1.66	1.43
34:BA:1413:A:C2	34:BA:1487:G:N2	1.73	1.42
1:AA:716:A:N3	48:BS:44:LYS:HG3	1.14	1.42
46:BQ:15:VAL:CB	46:BQ:39:ILE:CD1	1.95	1.42
1:AA:2181:G:C4	1:AA:2182:G:O6	1.70	1.42
57:BZ:227:LYS:C	57:BZ:267:LEU:CD1	1.88	1.42
1:AA:2123:G:H4'	3:AC:172:HIS:ND1	1.30	1.42
3:AC:163:PHE:CD1	3:AC:196:LEU:HD13	1.52	1.42
46:BQ:5:ALA:CB	46:BQ:67:GLU:HG2	1.45	1.42
57:BZ:312:CYS:CB	57:BZ:354:ASP:O	1.66	1.42
1:AA:6:A:C2	1:AA:2898:U:C6	2.08	1.42
57:BZ:14:VAL:N	57:BZ:108:GLN:HG3	1.34	1.42
1:AA:2:G:C6	1:AA:2902:C:C4	2.06	1.42
34:BA:1147:C:O2'	42:BM:5:TYR:CE1	1.71	1.42
57:BZ:395:ARG:CG	57:BZ:474:ASP:HB2	1.47	1.42
34:BA:1220:G:H21	52:BW:55:LYS:CA	1.31	1.41
34:BA:1319:A:H5'	52:BW:70:LYS:CE	1.36	1.41
57:BZ:565:LEU:CB	57:BZ:566:GLU:CG	1.86	1.41
57:BZ:6:ARG:CB	57:BZ:69:ARG:O	1.64	1.41
32:AJ:25:PRO:CG	57:BZ:429:MET:SD	2.08	1.41
57:BZ:509:LYS:NZ	57:BZ:561:ILE:HD11	1.11	1.41
1:AA:2651:C:O2	1:AA:2670:A:C2	1.71	1.41
57:BZ:396:LYS:HB2	57:BZ:474:ASP:C	1.40	1.41
1:AA:2252:G:C5	59:AA:3003:8AN:N1	1.88	1.41
3:AC:156:ILE:CG1	3:AC:160:ARG:CG	1.97	1.41
56:BD:7:A:C2	56:BD:67:C:N3	1.88	1.41
46:BQ:10:PRO:O	46:BQ:45:VAL:CG1	1.67	1.40
52:BW:9:VAL:HG13	52:BW:41:VAL:C	1.36	1.40
57:BZ:81:PHE:CD1	57:BZ:365:HIS:CD2	2.08	1.40
32:AJ:72:PRO:CD	32:AJ:77:LEU:HD23	1.49	1.40
57:BZ:81:PHE:CD1	57:BZ:365:HIS:HD2	1.39	1.40
46:BQ:10:PRO:CB	46:BQ:45:VAL:HG11	1.50	1.39
56:BD:67:C:H5	56:BD:68:C:C4	1.37	1.39
32:AJ:23:VAL:CG2	32:AJ:41:PHE:HE1	1.30	1.39
1:AA:1069:A:N1	1:AA:1096:A:H5'	1.35	1.39
1:AA:2791:C:N4	1:AA:2893:G:H8	1.21	1.39
1:AA:2531:A:C2	1:AA:2658:C:H1'	1.58	1.39
34:BA:1226:C:N4	46:BQ:104:ARG:HG3	1.37	1.39
1:AA:2128:C:H5''	3:AC:35:ALA:CB	1.52	1.39
57:BZ:234:ASN:ND2	57:BZ:247:ARG:HB3	1.11	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2129:C:H5''	3:AC:6:ARG:NE	1.37	1.38
57:BZ:27:GLN:N	57:BZ:28:GLN:CB	1.86	1.38
1:AA:2175:C:OP1	3:AC:7:TYR:CG	1.76	1.38
57:BZ:27:GLN:NE2	57:BZ:183:MET:SD	1.95	1.38
31:AI:54:ALA:CB	31:AI:83:TYR:C	1.90	1.38
1:AA:1059:G:N2	32:AJ:130:SER:HA	1.09	1.38
34:BA:1311:G:H22	34:BA:1326:C:C1'	1.22	1.38
46:BQ:15:VAL:CB	46:BQ:39:ILE:HD11	1.49	1.38
57:BZ:497:VAL:HA	57:BZ:514:HIS:CE1	1.56	1.38
34:BA:1317:C:O2'	34:BA:1318:A:C5'	1.69	1.38
57:BZ:122:LYS:CE	57:BZ:156:GLU:HB2	1.53	1.38
1:AA:6:A:N1	1:AA:2898:U:C6	1.90	1.37
57:BZ:397:GLN:CA	57:BZ:473:ASP:N	1.85	1.37
3:AC:171:ILE:HD11	3:AC:192:PHE:CZ	1.46	1.37
57:BZ:11:ILE:HG23	57:BZ:112:VAL:CG1	1.53	1.37
34:BA:1486:G:C6	34:BA:1487:G:C8	1.92	1.37
57:BZ:565:LEU:N	57:BZ:566:GLU:HG3	1.30	1.37
21:AW:27:VAL:HG23	21:AW:85:HIS:NE2	1.39	1.37
34:BA:1126:U:OP1	34:BA:1280:A:C8	1.75	1.37
57:BZ:251:VAL:HG12	57:BZ:273:ILE:CA	0.98	1.37
1:AA:2123:G:C4'	3:AC:172:HIS:CG	1.84	1.37
57:BZ:312:CYS:CA	57:BZ:354:ASP:O	1.69	1.37
1:AA:2181:G:N3	1:AA:2182:G:C6	1.91	1.36
1:AA:6:A:C2	1:AA:2897:U:C2	2.10	1.36
34:BA:1486:G:C6	34:BA:1487:G:N7	1.71	1.36
57:BZ:14:VAL:H	57:BZ:108:GLN:CG	1.38	1.36
57:BZ:164:TYR:N	57:BZ:172:ALA:O	1.58	1.36
34:BA:1158:C:C2'	35:BF:133:LYS:HZ2	1.27	1.36
57:BZ:15:ASP:CB	57:BZ:16:HIS:ND1	1.86	1.36
3:AC:156:ILE:HA	3:AC:160:ARG:CB	1.52	1.36
3:AC:180:PHE:CZ	3:AC:184:LYS:HD2	1.60	1.36
57:BZ:122:LYS:HZ1	57:BZ:156:GLU:CB	1.38	1.36
56:BD:50:U:N3	56:BD:64:A:H2	1.18	1.36
32:AJ:37:PHE:CZ	32:AJ:63:ARG:HD3	1.58	1.36
1:AA:2181:G:C5'	55:BC:17:C:N4	1.83	1.36
57:BZ:407:VAL:O	57:BZ:436:ARG:CB	1.71	1.36
1:AA:2532:G:C4'	1:AA:2657:A:C2	2.08	1.36
1:AA:2807:G:C4	1:AA:2808:U:H5	1.43	1.36
32:AJ:82:ALA:HA	32:AJ:99:ILE:CG2	1.54	1.36
1:AA:1075:C:C1'	32:AJ:90:LYS:HD3	1.55	1.36
57:BZ:81:PHE:CB	57:BZ:365:HIS:CD2	2.09	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:17:ALA:CB	32:AJ:38:VAL:O	1.71	1.35
34:BA:1225:A:C5'	52:BW:78:ARG:HD2	1.53	1.35
1:AA:2178:C:C5'	3:AC:46:LYS:CG	1.75	1.35
46:BQ:13:LYS:N	46:BQ:44:ARG:O	1.58	1.35
1:AA:2531:A:N3	1:AA:2658:C:C1'	1.90	1.35
57:BZ:560:PRO:HB3	57:BZ:562:ARG:N	1.42	1.35
22:AX:4:LYS:NZ	56:BE:75:C:C2'	1.90	1.35
34:BA:1226:C:C4	46:BQ:104:ARG:CG	2.10	1.35
1:AA:2596:U:H2'	4:AD:242:ARG:CZ	1.55	1.35
57:BZ:8:ILE:C	57:BZ:72:ILE:CB	1.90	1.35
31:AI:54:ALA:HB1	31:AI:83:TYR:C	0.97	1.35
1:AA:1906:G:C8	1:AA:1929:G:N7	1.93	1.34
1:AA:2152:G:C5'	3:AC:2:LYS:HB2	1.54	1.34
57:BZ:141:VAL:CG2	57:BZ:164:TYR:OH	1.75	1.34
1:AA:5:A:N1	1:AA:2899:G:C5	1.96	1.34
34:BA:1413:A:N1	34:BA:1487:G:N2	1.73	1.34
57:BZ:4:LYS:O	57:BZ:68:TYR:N	1.59	1.34
3:AC:40:THR:O	3:AC:216:THR:HG22	1.18	1.34
57:BZ:509:LYS:NZ	57:BZ:561:ILE:CD1	1.89	1.34
57:BZ:379:GLU:HG2	57:BZ:581:THR:CA	1.57	1.34
34:BA:1315:U:C2	34:BA:1361:G:O4'	1.78	1.34
57:BZ:310:PHE:H	57:BZ:385:PRO:CD	1.41	1.34
34:BA:949:A:C3'	46:BQ:102:ARG:HH12	1.36	1.34
34:BA:1330:U:H5'	46:BQ:70:LEU:CD2	1.55	1.34
57:BZ:395:ARG:CD	57:BZ:474:ASP:CG	1.96	1.34
1:AA:1050:A:H1'	1:AA:2752:C:C5	1.27	1.33
45:BP:106:ASP:HA	57:BZ:329:ARG:CZ	1.58	1.33
57:BZ:81:PHE:O	57:BZ:361:ARG:HG3	1.20	1.33
56:BD:4:C:H1'	56:BD:70:G:N2	1.42	1.33
1:AA:1047:G:H2'	1:AA:1110:G:C8	1.51	1.33
1:AA:2459:A:N3	1:AA:2460:U:H1'	1.38	1.33
1:AA:2175:C:N1	3:AC:219:GLY:O	1.61	1.33
1:AA:1910:G:N2	1:AA:1921:G:C8	1.96	1.33
34:BA:1454:G:OP2	53:BX:39:LYS:CD	1.76	1.33
15:AQ:112:ARG:NH1	34:BA:1464:G:OP1	1.62	1.33
57:BZ:18:LYS:HB2	60:BZ:701:GCP:PB	1.66	1.33
1:AA:3:U:N3	1:AA:2900:A:C2	1.96	1.33
1:AA:2:G:C5	1:AA:2902:C:N3	1.96	1.33
57:BZ:380:LEU:HD12	57:BZ:580:VAL:CG2	1.57	1.33
1:AA:2532:G:C3'	1:AA:2657:A:N1	1.92	1.32
10:AL:97:ARG:HB2	10:AL:97:ARG:NH2	1.44	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:2:ILE:CG2	57:BZ:199:VAL:HG21	1.57	1.32
1:AA:1080:C:C4'	32:AJ:128:ALA:CB	2.01	1.32
15:AQ:112:ARG:NH2	34:BA:1465:C:OP2	1.58	1.32
1:AA:1906:G:N9	1:AA:1929:G:N7	1.75	1.32
1:AA:4:C:N3	1:AA:2899:G:N1	1.75	1.32
3:AC:44:HIS:C	3:AC:213:TYR:HD1	1.30	1.32
32:AJ:72:PRO:HG2	32:AJ:77:LEU:CB	1.59	1.32
57:BZ:163:VAL:HG22	57:BZ:173:GLY:C	1.47	1.32
1:AA:2807:G:N2	1:AA:2892:A:N6	1.78	1.32
1:AA:2175:C:OP1	3:AC:7:TYR:CB	1.77	1.32
34:BA:1414:U:C2	34:BA:1487:G:N2	1.92	1.32
46:BQ:16:ASP:CG	46:BQ:34:LEU:CD1	1.96	1.32
57:BZ:69:ARG:HH11	57:BZ:253:LYS:NZ	1.27	1.32
3:AC:66:HIS:N	3:AC:158:ALA:O	1.61	1.32
21:AW:27:VAL:HG23	21:AW:85:HIS:CE1	1.65	1.32
57:BZ:10:ILE:CD1	57:BZ:21:LEU:HB3	1.60	1.32
57:BZ:227:LYS:O	57:BZ:267:LEU:HD11	1.20	1.32
5:AE:92:THR:CA	5:AE:95:ILE:HB	1.59	1.32
3:AC:180:PHE:HE2	3:AC:184:LYS:CB	1.43	1.31
57:BZ:520:GLU:OE2	57:BZ:593:THR:HA	1.14	1.31
57:BZ:82:GLY:CA	57:BZ:361:ARG:HD2	1.57	1.31
1:AA:2556:C:N3	57:BZ:546:MET:HE1	1.02	1.31
3:AC:45:ALA:N	3:AC:213:TYR:HD1	1.28	1.31
32:AJ:40:ALA:O	32:AJ:66:THR:CG2	1.76	1.31
57:BZ:227:LYS:O	57:BZ:267:LEU:CD1	1.78	1.31
57:BZ:526:ILE:HG12	57:BZ:571:PHE:CZ	1.64	1.31
46:BQ:4:ILE:CD1	46:BQ:57:ARG:CG	2.06	1.31
1:AA:152:G:O2'	1:AA:153:C:H5'	1.16	1.31
1:AA:1959:G:C4'	34:BA:1418:A:H1'	1.60	1.31
32:AJ:25:PRO:CG	57:BZ:429:MET:CE	2.06	1.31
34:BA:1318:A:H2'	52:BW:37:ARG:CA	1.58	1.31
57:BZ:165:ALA:CA	57:BZ:171:ILE:HG22	1.61	1.31
1:AA:2174:C:O2	3:AC:219:GLY:HA2	1.20	1.31
32:AJ:104:VAL:CG1	32:AJ:127:ILE:CG1	2.07	1.31
34:BA:1486:G:C4	34:BA:1487:G:C8	2.13	1.31
34:BA:1118:C:OP1	42:BM:103:THR:HG23	1.28	1.31
46:BQ:15:VAL:CG1	46:BQ:39:ILE:HD11	1.58	1.31
57:BZ:9:ALA:HB1	57:BZ:73:VAL:CG2	1.46	1.31
57:BZ:491:ASN:ND2	57:BZ:535:VAL:O	1.60	1.31
47:BR:16:PHE:CE1	52:BW:14:HIS:NE2	1.94	1.31
57:BZ:311:PHE:O	57:BZ:355:ALA:CA	1.78	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:8:ILE:O	57:BZ:72:ILE:C	1.67	1.31
46:BQ:22:ILE:CB	46:BQ:25:ILE:HD12	1.59	1.31
31:AI:54:ALA:CB	31:AI:84:GLU:C	1.98	1.31
1:AA:1059:G:N2	32:AJ:130:SER:CA	1.93	1.31
1:AA:2652:C:N3	1:AA:2670:A:C8	1.91	1.31
3:AC:156:ILE:CA	3:AC:160:ARG:HB2	1.58	1.31
3:AC:44:HIS:C	3:AC:213:TYR:CD1	2.03	1.31
34:BA:1315:U:O2	34:BA:1361:G:C1'	1.76	1.31
22:AX:4:LYS:HZ2	56:BE:75:C:C2'	1.43	1.31
46:BQ:16:ASP:H	46:BQ:34:LEU:CD1	1.42	1.31
57:BZ:305:PRO:HG2	57:BZ:360:GLY:O	1.29	1.31
57:BZ:502:PHE:CE1	57:BZ:556:VAL:O	1.83	1.31
1:AA:1067:A:H5''	32:AJ:21:PRO:CG	1.61	1.30
1:AA:2651:C:N3	1:AA:2670:A:C6	1.99	1.30
3:AC:158:ALA:N	3:AC:159:GLY:N	1.77	1.30
34:BA:1220:G:H21	52:BW:55:LYS:CB	1.42	1.30
34:BA:1318:A:C1'	52:BW:35:SER:OG	1.77	1.30
1:AA:2657:A:N7	1:AA:2664:G:N2	1.74	1.30
1:AA:1908:C:N4	58:AA:3001:NMY:H92	1.28	1.30
1:AA:879:G:O6	1:AA:897:C:C2'	1.77	1.30
34:BA:1308:U:H5'	46:BQ:110:ARG:NH1	1.40	1.30
32:AJ:17:ALA:HA	32:AJ:41:PHE:CB	1.59	1.30
34:BA:38:G:N2	34:BA:397:A:H5''	1.43	1.30
57:BZ:64:ILE:HD11	57:BZ:187:TYR:CB	1.59	1.30
56:BE:21:A:C6	56:BE:46:G:C4	2.18	1.30
56:BE:1:G:C1'	56:BE:72:C:N3	1.93	1.30
57:BZ:67:ASP:HB3	57:BZ:191:VAL:CG1	1.59	1.30
57:BZ:223:ILE:H	57:BZ:272:ASP:CB	1.39	1.30
57:BZ:204:PRO:HB2	57:BZ:290:ASP:OD1	1.13	1.30
1:AA:1906:G:C5	1:AA:1929:G:C6	2.19	1.30
22:AX:4:LYS:NZ	56:BE:75:C:H2'	0.98	1.30
57:BZ:400:TYR:HE1	57:BZ:444:PRO:CD	1.44	1.30
32:AJ:19:PRO:HG3	32:AJ:36:GLU:C	1.50	1.30
16:AR:44:ASN:O	16:AR:47:TYR:HB2	1.31	1.30
34:BA:1310:G:N1	34:BA:1327:C:C5	1.99	1.30
34:BA:949:A:C3'	46:BQ:102:ARG:NH1	1.88	1.30
57:BZ:382:VAL:HG23	57:BZ:578:VAL:CG2	1.59	1.30
10:AL:3:GLN:NE2	10:AL:33:ALA:HB3	1.45	1.30
57:BZ:27:GLN:N	57:BZ:28:GLN:HB3	0.98	1.30
1:AA:1909:C:O2	1:AA:1922:G:N1	1.61	1.30
56:BD:5:G:C2	56:BD:69:G:C8	2.18	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2459:A:H2'	1:AA:2460:U:O4'	1.30	1.30
34:BA:1014:A:H1'	52:BW:34:TRP:CZ3	1.64	1.30
57:BZ:67:ASP:CB	57:BZ:191:VAL:HG13	1.61	1.30
1:AA:1059:G:O2'	32:AJ:74:ALA:CA	1.68	1.30
56:BE:18:G:N2	56:BE:58:A:C5'	1.94	1.30
56:BE:18:G:OP2	56:BE:61:C:H5'	1.29	1.30
12:AN:67:ARG:CZ	12:AN:103:MET:HB3	1.60	1.29
34:BA:986:A:H5'	52:BW:55:LYS:NZ	1.28	1.29
46:BQ:8:GLU:CB	46:BQ:22:ILE:HG12	1.60	1.29
57:BZ:165:ALA:HB1	57:BZ:171:ILE:CG2	1.62	1.29
5:AE:92:THR:HA	5:AE:95:ILE:CB	1.60	1.29
1:AA:1051:G:C1'	1:AA:2752:C:OP2	1.80	1.29
1:AA:1907:G:O6	58:AA:3001:NMY:H81	1.29	1.29
1:AA:1059:G:O2'	32:AJ:74:ALA:N	1.65	1.29
32:AJ:40:ALA:CB	32:AJ:66:THR:OG1	1.81	1.29
57:BZ:325:PHE:O	57:BZ:378:PHE:CD1	1.86	1.29
1:AA:5:A:N6	1:AA:2898:U:O4	1.66	1.29
32:AJ:104:VAL:CB	32:AJ:127:ILE:HD13	1.61	1.29
46:BQ:37:THR:HB	46:BQ:56:LEU:CG	1.62	1.29
57:BZ:240:ILE:CB	57:BZ:286:ASP:CB	2.08	1.29
57:BZ:379:GLU:HG2	57:BZ:581:THR:CB	1.63	1.29
1:AA:1080:C:O4'	32:AJ:129:GLY:N	1.63	1.29
57:BZ:236:GLN:CA	57:BZ:247:ARG:HA	1.62	1.29
57:BZ:395:ARG:CB	57:BZ:474:ASP:HB2	1.62	1.29
56:BD:47:U:O4	57:BZ:598:ARG:HD3	1.11	1.29
1:AA:2252:G:N7	59:AA:3003:8AN:N1	1.81	1.28
57:BZ:2:ILE:CG2	57:BZ:268:ALA:HB2	1.63	1.28
1:AA:2178:C:O3'	3:AC:46:LYS:NZ	1.66	1.28
1:AA:2788:C:N3	1:AA:2789:C:C4	2.00	1.28
34:BA:1117:G:C6	34:BA:1184:G:C6	2.21	1.28
1:AA:2631:G:C8	1:AA:2894:G:C8	2.21	1.28
1:AA:2178:C:C5'	3:AC:46:LYS:HG2	0.80	1.28
1:AA:2181:G:N2	1:AA:2182:G:H1	1.31	1.28
3:AC:45:ALA:HA	3:AC:213:TYR:CE1	1.67	1.28
57:BZ:204:PRO:HB2	57:BZ:290:ASP:CG	1.52	1.28
34:BA:1329:A:C4'	46:BQ:29:ARG:NH2	1.74	1.28
57:BZ:310:PHE:HA	57:BZ:356:PHE:O	1.21	1.28
1:AA:879:G:O6	1:AA:897:C:H2'	1.11	1.28
3:AC:62:VAL:HG11	3:AC:192:PHE:N	1.48	1.28
32:AJ:100:THR:OG1	32:AJ:103:GLN:HB2	1.17	1.28
34:BA:1308:U:C5'	46:BQ:110:ARG:NH1	1.95	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:227:LYS:C	57:BZ:267:LEU:HD11	1.50	1.28
57:BZ:379:GLU:OE1	57:BZ:581:THR:CG2	1.78	1.28
56:BD:2:C:N3	56:BD:71:G:N1	1.78	1.28
1:AA:1912:A:O2'	34:BA:1495:U:C6	1.84	1.27
4:AD:51:VAL:HB	4:AD:52:ARG:CZ	1.64	1.27
56:BD:67:C:C5	56:BD:68:C:C4	2.20	1.27
34:BA:1319:A:C5'	52:BW:70:LYS:CE	1.91	1.27
57:BZ:102:PHE:HD2	57:BZ:134:GLY:O	1.12	1.27
1:AA:1051:G:H1'	1:AA:2752:C:P	1.72	1.27
34:BA:1226:C:C1'	52:BW:80:TYR:CD1	2.10	1.27
1:AA:2807:G:C4	1:AA:2808:U:C5	2.21	1.27
34:BA:958:A:C2	52:BW:56:GLN:NE2	2.03	1.27
32:AJ:25:PRO:HB3	57:BZ:429:MET:CE	1.63	1.27
52:BW:15:LEU:CD1	52:BW:71:LEU:CD1	2.10	1.27
3:AC:40:THR:O	3:AC:216:THR:CG2	1.81	1.27
1:AA:1036:G:OP1	8:AH:59:ARG:NH2	1.63	1.27
1:AA:1081:U:C4'	32:AJ:125:ARG:HB3	1.63	1.27
1:AA:1128:A:N6	1:AA:2518:A:H61	1.31	1.27
57:BZ:363:GLU:HG3	57:BZ:453:SER:OG	1.35	1.27
57:BZ:172:ALA:N	57:BZ:179:MET:SD	2.07	1.26
1:AA:2507:C:H1'	59:AA:3002:8AN:N3	0.95	1.26
21:AW:24:LEU:O	21:AW:39:VAL:HB	1.32	1.26
57:BZ:422:ARG:HH11	57:BZ:480:VAL:CG2	1.47	1.26
1:AA:1241:A:N3	1:AA:1241:A:H5''	1.46	1.26
32:AJ:23:VAL:C	32:AJ:35:MET:CE	2.00	1.26
46:BQ:16:ASP:HB3	46:BQ:34:LEU:CD1	1.51	1.26
57:BZ:309:MET:HA	57:BZ:383:SER:OG	1.22	1.26
57:BZ:8:ILE:O	57:BZ:72:ILE:HB	1.23	1.26
1:AA:2123:G:H4'	3:AC:172:HIS:CG	1.04	1.26
1:AA:2252:G:C6	59:AA:3003:8AN:C2	2.16	1.26
1:AA:2125:G:C5'	3:AC:40:THR:HG21	1.62	1.26
34:BA:1117:G:C6	34:BA:1184:G:C5	2.21	1.26
34:BA:1316:G:H4'	34:BA:1360:A:C6	1.70	1.26
34:BA:1125:U:O5'	43:BN:38:ILE:HD13	1.33	1.26
46:BQ:37:THR:CB	46:BQ:56:LEU:HG	1.59	1.26
57:BZ:205:PHE:HD1	57:BZ:229:GLY:O	1.03	1.26
57:BZ:27:GLN:CB	57:BZ:28:GLN:HB2	1.63	1.26
57:BZ:400:TYR:CE1	57:BZ:444:PRO:CB	2.17	1.26
1:AA:2122:U:C4'	3:AC:166:ASP:CB	2.06	1.26
1:AA:2177:C:H5''	3:AC:223:ARG:NH1	1.48	1.26
10:AL:6:THR:O	10:AL:20:MET:HA	1.29	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:16:ASP:N	46:BQ:34:LEU:CG	1.98	1.26
1:AA:1081:U:C5'	32:AJ:125:ARG:HB3	1.66	1.26
32:AJ:112:MET:SD	32:AJ:122:ALA:CB	2.21	1.26
57:BZ:102:PHE:CD2	57:BZ:134:GLY:O	1.87	1.26
32:AJ:53:VAL:CA	32:AJ:71:THR:O	1.83	1.26
57:BZ:405:LEU:CG	57:BZ:463:GLY:C	2.02	1.26
1:AA:1051:G:C1'	1:AA:2752:C:P	2.24	1.26
1:AA:2807:G:C2	1:AA:2892:A:N6	1.72	1.25
1:AA:1916:A:N6	34:BA:1409:C:H4'	1.51	1.25
46:BQ:8:GLU:HG3	46:BQ:22:ILE:CG1	1.63	1.25
6:AF:19:GLU:C	6:AF:20:LEU:HD23	1.55	1.25
46:BQ:8:GLU:OE2	46:BQ:21:TYR:CB	1.84	1.25
57:BZ:424:GLY:O	57:BZ:441:TYR:HD2	1.17	1.25
32:AJ:54:PRO:O	32:AJ:70:LYS:HB2	1.28	1.25
1:AA:1036:G:N1	1:AA:1120:G:C6	2.03	1.25
1:AA:2788:C:N4	1:AA:2789:C:N4	1.84	1.25
32:AJ:52:ILE:O	32:AJ:72:PRO:HA	1.22	1.25
57:BZ:8:ILE:C	57:BZ:72:ILE:HB	1.03	1.25
1:AA:2491:U:C6	1:AA:2491:U:H3'	1.69	1.25
34:BA:1311:G:C6	34:BA:1327:C:C6	2.23	1.25
57:BZ:6:ARG:CD	57:BZ:194:VAL:HG12	1.66	1.25
1:AA:1202:C:C4	1:AA:1203:G:H1'	1.69	1.25
3:AC:67:GLY:HA3	3:AC:184:LYS:NZ	1.49	1.25
34:BA:1311:G:H22	34:BA:1326:C:C2'	1.46	1.25
46:BQ:11:ARG:O	46:BQ:45:VAL:HB	1.34	1.25
57:BZ:2:ILE:HG13	57:BZ:266:ASP:OD2	1.28	1.25
1:AA:2125:G:H1'	3:AC:218:MET:N	1.18	1.25
40:BK:78:ARG:O	40:BK:84:ASN:HA	1.33	1.25
57:BZ:205:PHE:CD1	57:BZ:229:GLY:O	1.89	1.25
57:BZ:2:ILE:HG23	57:BZ:268:ALA:CB	1.65	1.25
1:AA:1051:G:O2'	1:AA:2752:C:C5'	1.85	1.25
1:AA:1559:G:N1	1:AA:1560:G:H4'	1.47	1.25
46:BQ:22:ILE:CB	46:BQ:25:ILE:CD1	2.15	1.25
57:BZ:564:THR:C	57:BZ:566:GLU:HG3	1.52	1.25
1:AA:2666:C:H5	1:AA:2667:C:C5	1.55	1.25
57:BZ:200:ASP:OD2	57:BZ:228:ARG:CD	1.83	1.25
57:BZ:206:GLN:N	57:BZ:228:ARG:O	1.67	1.25
57:BZ:407:VAL:O	57:BZ:436:ARG:CG	1.83	1.25
1:AA:2531:A:N3	1:AA:2658:C:H1'	0.94	1.25
46:BQ:8:GLU:CG	46:BQ:22:ILE:HG12	1.66	1.25
1:AA:1105:U:H2'	1:AA:1107:G:C8	1.71	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1105:U:C5	1:AA:1107:G:O6	1.89	1.25
32:AJ:23:VAL:O	32:AJ:35:MET:CE	1.85	1.25
34:BA:1339:A:C4'	56:BE:41:C:H4'	1.65	1.24
3:AC:175:VAL:CG1	3:AC:189:ILE:HA	1.65	1.24
1:AA:2174:C:O2	3:AC:219:GLY:CA	1.85	1.24
1:AA:2124:G:C4'	3:AC:42:GLU:CG	1.98	1.24
32:AJ:25:PRO:CB	57:BZ:429:MET:CE	2.16	1.24
57:BZ:127:ILE:HG12	57:BZ:163:VAL:O	1.33	1.24
57:BZ:25:LEU:O	57:BZ:28:GLN:HG2	1.30	1.24
34:BA:1308:U:C2'	34:BA:1309:G:OP1	1.85	1.24
34:BA:1500:A:OP1	34:BA:1508:G:OP1	1.54	1.24
31:AI:52:PHE:O	31:AI:86:PRO:N	1.71	1.24
1:AA:2447:G:C8	1:AA:2500:U:C3'	2.19	1.24
1:AA:2129:C:C5'	3:AC:6:ARG:CG	2.15	1.24
34:BA:1125:U:O4	43:BN:5:ARG:NH2	1.70	1.24
1:AA:1908:C:N4	58:AA:3001:NMY:N9	1.82	1.24
1:AA:2532:G:O3'	1:AA:2657:A:C2	1.89	1.24
4:AD:8:PRO:O	4:AD:25:THR:HA	1.22	1.24
10:AL:25:LEU:HB3	10:AL:38:VAL:O	1.38	1.24
34:BA:1125:U:O5'	43:BN:38:ILE:CD1	1.84	1.24
1:AA:1059:G:O2'	32:AJ:74:ALA:C	1.74	1.24
1:AA:1222:C:H42	1:AA:1227:A:N6	1.34	1.24
1:AA:2507:C:C4'	56:BD:75:C:O2	1.73	1.24
1:AA:811:U:O4	11:AM:22:GLY:HA3	1.37	1.24
32:AJ:23:VAL:O	32:AJ:35:MET:HE1	1.30	1.24
57:BZ:312:CYS:HA	57:BZ:354:ASP:O	1.27	1.24
21:AW:27:VAL:CG2	21:AW:85:HIS:CE1	2.19	1.23
1:AA:1959:G:H4'	34:BA:1418:A:C1'	1.66	1.23
1:AA:2151:G:O3'	3:AC:3:HIS:HA	1.38	1.23
1:AA:2748:A:N3	8:AH:67:LEU:HD21	1.53	1.23
32:AJ:105:LEU:HA	32:AJ:123:ALA:CB	1.69	1.23
17:AS:32:THR:HA	17:AS:64:HIS:O	1.31	1.23
56:BE:1:G:H1'	56:BE:72:C:O2	1.32	1.23
1:AA:1046:A:N6	31:AI:9:LEU:H	1.35	1.23
57:BZ:240:ILE:CB	57:BZ:286:ASP:HA	1.58	1.23
57:BZ:322:GLU:OE1	57:BZ:581:THR:HB	1.35	1.23
57:BZ:496:ALA:CB	57:BZ:513:GLY:O	1.86	1.23
1:AA:1914:C:C2	1:AA:1915:U:H5	1.56	1.23
1:AA:1081:U:C5'	32:AJ:125:ARG:HD3	1.68	1.23
1:AA:2178:C:H4'	3:AC:46:LYS:NZ	1.52	1.23
3:AC:45:ALA:CA	3:AC:213:TYR:CD1	2.19	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1309:G:C2	34:BA:1328:C:C4	2.26	1.23
49:BT:18:ARG:NH1	49:BT:35:LYS:HB2	1.53	1.23
57:BZ:10:ILE:N	57:BZ:74:ASP:H	1.35	1.23
31:AI:54:ALA:HB1	31:AI:84:GLU:N	1.51	1.23
1:AA:1036:G:C6	1:AA:1120:G:O6	1.90	1.23
1:AA:1312:U:H2'	1:AA:1313:U:O4'	1.34	1.23
1:AA:2180:U:O2'	55:BC:17:C:C5	1.91	1.23
1:AA:716:A:N3	48:BS:44:LYS:CD	2.01	1.23
57:BZ:28:GLN:O	57:BZ:60:ASN:OD1	1.53	1.23
1:AA:2507:C:C6	59:AA:3002:8AN:C1'	2.21	1.23
57:BZ:6:ARG:HB2	57:BZ:69:ARG:O	1.19	1.23
1:AA:1036:G:C2	1:AA:1120:G:C6	2.27	1.23
34:BA:949:A:H3'	46:BQ:102:ARG:NH1	1.01	1.23
1:AA:2121:G:O2'	3:AC:167:LYS:HE2	1.31	1.22
1:AA:2659:G:H2'	1:AA:2661:G:OP2	1.39	1.22
14:AP:17:ARG:CZ	14:AP:89:ARG:HB2	1.66	1.22
1:AA:1906:G:C4	1:AA:1929:G:C6	2.25	1.22
1:AA:2125:G:N3	3:AC:218:MET:N	1.87	1.22
32:AJ:100:THR:OG1	32:AJ:103:GLN:CB	1.85	1.22
34:BA:1062:U:H2'	34:BA:1063:C:C5	1.74	1.22
57:BZ:220:VAL:CG2	57:BZ:279:LEU:CB	2.10	1.22
57:BZ:426:LEU:HD13	57:BZ:441:TYR:CZ	1.72	1.22
56:BD:67:C:C5	56:BD:68:C:C5	2.26	1.22
1:AA:2591:C:H2'	1:AA:2592:G:C8	1.73	1.22
34:BA:901:A:C2	34:BA:902:G:H1'	1.74	1.22
1:AA:2445:G:H2'	1:AA:2446:G:C8	1.72	1.22
57:BZ:379:GLU:CG	57:BZ:581:THR:CG2	2.11	1.22
6:AF:19:GLU:O	6:AF:20:LEU:HD23	1.34	1.22
34:BA:1152:A:OP1	43:BN:13:HIS:NE2	1.70	1.22
57:BZ:8:ILE:O	57:BZ:72:ILE:CB	1.81	1.22
1:AA:2661:G:O6	8:AH:175:LYS:HE3	1.09	1.22
1:AA:2:G:C6	1:AA:2902:C:C5	2.26	1.22
11:AM:74:GLU:HB3	11:AM:111:ARG:O	1.37	1.22
34:BA:1147:C:O2'	42:BM:5:TYR:HE1	0.91	1.22
46:BQ:16:ASP:CG	46:BQ:34:LEU:HD11	1.55	1.22
57:BZ:446:ARG:CG	57:BZ:480:VAL:CG1	2.15	1.22
59:AA:3003:8AN:P	22:AX:2:ALA:HB1	1.80	1.22
34:BA:1316:G:N2	34:BA:1319:A:C8	2.08	1.22
56:BE:18:G:OP2	56:BE:61:C:C5'	1.87	1.22
1:AA:1906:G:C8	1:AA:1929:G:C5	2.26	1.22
3:AC:67:GLY:CA	3:AC:184:LYS:HZ3	1.51	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1916:A:C6	34:BA:1409:C:C4'	2.22	1.22
57:BZ:11:ILE:HD11	57:BZ:95:VAL:CG1	1.68	1.22
1:AA:152:G:C2'	1:AA:153:C:H5'	1.68	1.21
1:AA:2124:G:C4'	3:AC:42:GLU:CD	2.06	1.21
6:AF:4:VAL:O	6:AF:20:LEU:CD1	1.87	1.21
34:BA:1317:C:C4	34:BA:1318:A:C4	2.22	1.21
1:AA:1078:U:OP1	32:AJ:137:GLU:OE1	1.56	1.21
32:AJ:24:GLY:H	32:AJ:35:MET:CE	1.42	1.21
56:BD:2:C:O2	56:BD:71:G:N2	1.72	1.21
34:BA:1125:U:C5'	43:BN:38:ILE:CD1	2.17	1.21
57:BZ:482:GLN:C	57:BZ:573:ASP:OD2	1.79	1.21
1:AA:2175:C:C6	3:AC:219:GLY:O	1.91	1.21
1:AA:2333:A:H1'	1:AA:2335:A:N3	1.54	1.21
55:BC:16:U:C5	55:BC:18:G:H3'	1.75	1.21
34:BA:1112:C:O2'	36:BG:179:ARG:NH1	1.73	1.21
57:BZ:251:VAL:CB	57:BZ:273:ILE:HA	1.71	1.21
57:BZ:424:GLY:O	57:BZ:441:TYR:CD2	1.93	1.21
46:BQ:4:ILE:HD12	46:BQ:57:ARG:CG	1.66	1.21
9:AK:43:THR:HB	9:AK:44:PRO:CD	1.70	1.21
1:AA:1051:G:C1'	1:AA:2752:C:C5'	2.17	1.21
31:AI:54:ALA:CB	31:AI:84:GLU:N	2.00	1.21
1:AA:2421:G:H2'	1:AA:2422:A:H8	1.04	1.21
34:BA:1311:G:N2	34:BA:1326:C:C2'	2.02	1.21
57:BZ:200:ASP:CB	57:BZ:228:ARG:HG2	1.71	1.21
1:AA:1069:A:N6	1:AA:1096:A:OP1	1.73	1.21
1:AA:2125:G:OP2	3:AC:71:GLN:OE1	1.56	1.21
1:AA:2666:C:C5	1:AA:2667:C:C5	2.29	1.21
1:AA:931:G:C8	1:AA:932:G:H1'	1.76	1.21
32:AJ:14:ALA:O	32:AJ:49:GLY:CA	1.87	1.21
15:AQ:32:TYR:O	15:AQ:47:GLY:HA2	1.41	1.21
1:AA:1084:A:OP2	31:AI:55:LYS:CB	1.84	1.21
1:AA:2252:G:C5	59:AA:3003:8AN:C2	2.21	1.21
3:AC:157:LYS:C	3:AC:159:GLY:N	1.93	1.21
4:AD:246:PRO:HD2	4:AD:250:TRP:HB3	1.21	1.21
32:AJ:17:ALA:HB2	32:AJ:42:ASN:N	0.88	1.21
34:BA:1224:G:H2'	52:BW:78:ARG:NH1	1.55	1.21
32:AJ:25:PRO:CB	57:BZ:429:MET:HE1	1.70	1.21
31:AI:54:ALA:HB2	31:AI:84:GLU:CA	1.69	1.21
34:BA:1319:A:C5'	52:BW:70:LYS:HE2	1.52	1.20
1:AA:2653:U:O4	1:AA:2669:G:C2	1.93	1.20
12:AN:44:ALA:O	12:AN:47:ILE:HB	1.40	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:165:ALA:CB	57:BZ:171:ILE:CG2	2.17	1.20
57:BZ:379:GLU:OE1	57:BZ:581:THR:HG21	1.38	1.20
57:BZ:9:ALA:HB2	57:BZ:73:VAL:CG2	1.46	1.20
34:BA:449:C:C2	34:BA:450:G:H1'	1.77	1.20
57:BZ:13:HIS:HB2	57:BZ:108:GLN:CB	1.71	1.20
1:AA:3:U:N3	1:AA:2900:A:N1	1.89	1.20
34:BA:927:G:O5'	34:BA:1503:A:N6	1.71	1.20
56:BE:21:A:C5	56:BE:46:G:C6	2.28	1.20
1:AA:1105:U:O3'	1:AA:1107:G:OP2	1.59	1.20
32:AJ:27:LEU:CD2	32:AJ:57:ILE:C	2.09	1.20
1:AA:1206:G:H2'	1:AA:1207:C:O4'	1.39	1.20
1:AA:2178:C:C4'	3:AC:46:LYS:NZ	2.03	1.20
1:AA:1906:G:C5	1:AA:1929:G:C5	2.28	1.20
1:AA:2:G:C4	1:AA:2902:C:C2	2.30	1.20
34:BA:1454:G:C2'	34:BA:1455:G:C8	2.24	1.20
56:BE:4:C:C2	56:BE:6:G:N7	2.09	1.20
57:BZ:81:PHE:O	57:BZ:361:ARG:CG	1.89	1.20
1:AA:1203:G:C6	1:AA:1241:A:H8	1.60	1.20
32:AJ:112:MET:CG	32:AJ:122:ALA:CB	2.20	1.20
11:AM:73:GLY:HA2	11:AM:111:ARG:NH1	1.56	1.20
31:AI:52:PHE:O	31:AI:86:PRO:CB	1.90	1.20
56:BD:7:A:N1	56:BD:67:C:N4	1.88	1.20
57:BZ:409:GLU:OE2	57:BZ:435:GLY:O	1.57	1.20
3:AC:171:ILE:CD1	3:AC:192:PHE:CE2	2.10	1.20
1:AA:1067:A:C5'	32:AJ:21:PRO:HG3	1.70	1.20
34:BA:1414:U:O2	34:BA:1487:G:C2	1.83	1.20
1:AA:2660:A:C2	57:BZ:456:MET:HB2	1.76	1.20
16:AR:89:GLU:HB3	17:AS:52:VAL:N	1.56	1.20
57:BZ:400:TYR:HE1	57:BZ:444:PRO:CG	1.55	1.20
57:BZ:491:ASN:ND2	57:BZ:536:ASN:HB2	0.88	1.20
46:BQ:19:LEU:C	46:BQ:25:ILE:HG21	1.63	1.19
1:AA:1050:A:C1'	1:AA:2752:C:C5	2.17	1.19
1:AA:1080:C:N1	32:AJ:129:GLY:HA3	1.56	1.19
22:AX:5:LYS:HG2	22:AX:6:GLY:H	1.05	1.19
34:BA:1312:G:C6	34:BA:1326:C:C5	2.29	1.19
46:BQ:16:ASP:N	46:BQ:34:LEU:CD1	2.02	1.19
46:BQ:8:GLU:CD	46:BQ:21:TYR:HB2	1.60	1.19
1:AA:269:U:H5''	1:AA:270(Y):G:H2'	1.23	1.19
56:BE:1:G:H1'	56:BE:72:C:N3	1.54	1.19
46:BQ:10:PRO:O	46:BQ:45:VAL:HG12	1.08	1.19
46:BQ:16:ASP:H	46:BQ:34:LEU:CG	1.53	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:122:LYS:NZ	57:BZ:156:GLU:CB	2.04	1.19
1:AA:2332:U:H4'	1:AA:2336:A:H62	1.07	1.19
56:BD:4:C:C1'	56:BD:70:G:N2	2.06	1.19
1:AA:1075:C:C1'	32:AJ:90:LYS:CD	2.14	1.19
13:AO:25:ALA:O	13:AO:29:LEU:HG	1.43	1.19
56:BE:6:G:N7	56:BE:69:G:N2	1.88	1.19
53:BX:50:GLU:H	53:BX:99:LEU:HD12	1.03	1.19
57:BZ:13:HIS:CD2	57:BZ:106:MET:CB	2.08	1.19
34:BA:1455:G:OP1	53:BX:32:ALA:O	1.61	1.19
34:BA:665:A:H2'	34:BA:725:G:N2	1.58	1.19
56:BE:4:C:C2	56:BE:6:G:C8	2.30	1.19
57:BZ:205:PHE:HA	57:BZ:228:ARG:O	1.39	1.19
57:BZ:427:LYS:HG2	57:BZ:442:VAL:CG2	1.72	1.19
1:AA:2129:C:H5"	3:AC:6:ARG:CD	1.73	1.19
4:AD:127:VAL:HA	4:AD:193:VAL:HG12	1.25	1.19
57:BZ:27:GLN:HB2	57:BZ:28:GLN:HB2	1.19	1.19
57:BZ:400:TYR:CE1	57:BZ:444:PRO:CG	2.26	1.19
1:AA:1914:C:N3	1:AA:1915:U:H5	1.40	1.19
34:BA:1117:G:C2	34:BA:1184:G:C4	2.30	1.19
34:BA:1318:A:C2'	52:BW:37:ARG:CB	1.92	1.19
1:AA:1270:C:H1'	1:AA:1325:G:N7	1.58	1.19
1:AA:2532:G:C4'	1:AA:2657:A:N1	2.03	1.19
1:AA:2653:U:O4	1:AA:2669:G:N2	1.75	1.19
1:AA:6:A:C6	1:AA:2898:U:C5	2.03	1.19
32:AJ:75:SER:CA	32:AJ:130:SER:HB3	1.72	1.19
32:AJ:52:ILE:HG13	32:AJ:76:TYR:CD1	1.78	1.19
57:BZ:15:ASP:OD1	57:BZ:106:MET:HG3	1.42	1.19
57:BZ:422:ARG:NH1	57:BZ:480:VAL:O	1.73	1.19
1:AA:2124:G:H4'	3:AC:42:GLU:OE1	1.05	1.18
1:AA:2:G:N7	1:AA:2902:C:N3	1.91	1.18
1:AA:2129:C:H5"	3:AC:6:ARG:CG	1.71	1.18
56:BE:2:C:H2'	56:BE:70:G:N2	1.56	1.18
41:BL:84:ARG:HB3	41:BL:84:ARG:HH11	1.07	1.18
12:AN:7:MET:H	12:AN:70:PRO:HG2	1.03	1.18
57:BZ:248:ASN:HD21	57:BZ:273:ILE:CG1	1.57	1.18
1:AA:1019:U:P	1:AA:1036:G:H1'	1.83	1.18
1:AA:1042:G:C5	1:AA:1113:U:O4	1.96	1.18
1:AA:2658:C:N4	1:AA:2664:G:N1	1.92	1.18
1:AA:2670:A:O5'	5:AE:206:LYS:NZ	1.72	1.18
6:AF:7:TYR:O	6:AF:18:ARG:HG3	1.44	1.18
13:AO:99:LYS:HD2	13:AO:99:LYS:H	1.05	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:223:ILE:N	57:BZ:272:ASP:HB3	1.35	1.18
1:AA:2555:U:O4	57:BZ:547:ARG:NH2	1.74	1.18
1:AA:2661:G:O6	8:AH:175:LYS:CE	1.91	1.18
4:AD:142:VAL:O	4:AD:163:ALA:HB3	1.41	1.18
40:BK:115:ARG:HB2	40:BK:118:VAL:HG23	1.26	1.18
46:BQ:20:THR:CB	46:BQ:26:GLY:CA	2.14	1.18
57:BZ:163:VAL:CG2	57:BZ:173:GLY:O	1.89	1.18
57:BZ:205:PHE:N	57:BZ:290:ASP:OD1	1.77	1.18
57:BZ:310:PHE:N	57:BZ:385:PRO:HD3	1.26	1.18
32:AJ:25:PRO:HG3	57:BZ:429:MET:CE	1.71	1.18
57:BZ:407:VAL:O	57:BZ:436:ARG:HG2	1.40	1.18
31:AI:54:ALA:CA	31:AI:84:GLU:O	1.92	1.18
1:AA:2178:C:C4'	3:AC:46:LYS:HZ2	1.55	1.18
1:AA:1046:A:H5''	31:AI:6:ASN:O	1.39	1.18
23:AY:44:LYS:O	23:AY:48:LEU:HB2	1.41	1.18
57:BZ:311:PHE:O	57:BZ:355:ALA:HA	1.03	1.18
57:BZ:408:GLU:HG3	57:BZ:436:ARG:HH12	1.05	1.18
34:BA:1309:G:N2	34:BA:1328:C:C2	2.11	1.18
56:BD:52:G:C5	56:BD:63:G:N2	2.11	1.18
1:AA:2122:U:O4'	3:AC:166:ASP:OD2	1.61	1.18
32:AJ:52:ILE:O	32:AJ:72:PRO:CA	1.92	1.18
16:AR:15:LYS:HA	16:AR:18:LEU:HD23	1.25	1.18
57:BZ:405:LEU:CD1	57:BZ:464:LEU:HD22	1.73	1.18
1:AA:2532:G:O3'	1:AA:2657:A:N1	1.75	1.18
57:BZ:172:ALA:CA	57:BZ:179:MET:SD	2.31	1.18
1:AA:1252:G:H8	1:AA:1253:A:H1'	1.09	1.18
10:AL:10:VAL:HG13	10:AL:11:ALA:H	1.06	1.18
34:BA:1112:C:O2	36:BG:179:ARG:NH2	1.76	1.18
52:BW:6:LYS:HB3	52:BW:41:VAL:HG11	1.18	1.18
1:AA:1475:G:H1	1:AA:1477:A:N6	1.42	1.18
32:AJ:51:ALA:O	32:AJ:72:PRO:HB2	1.39	1.18
34:BA:1455:G:C3'	53:BX:31:SER:OG	1.91	1.18
34:BA:1454:G:C6	34:BA:1455:G:O6	1.97	1.18
34:BA:263:A:H2'	34:BA:264:U:H5''	1.19	1.18
57:BZ:397:GLN:C	57:BZ:473:ASP:N	1.79	1.18
45:BP:80:HIS:CD2	57:BZ:326:VAL:C	2.15	1.18
1:AA:2629:A:C3'	1:AA:2895:U:C6	2.00	1.17
34:BA:558:G:H3'	34:BA:559:A:H5''	1.26	1.17
56:BE:5:G:C6	56:BE:67:C:O2	1.97	1.17
4:AD:147:LEU:HG	4:AD:154:LYS:HD2	1.25	1.17
46:BQ:16:ASP:N	46:BQ:34:LEU:HD11	1.58	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AI:52:PHE:CB	31:AI:86:PRO:CB	2.22	1.17
1:AA:885:C:H3'	1:AA:886:C:H5'	1.20	1.17
1:AA:1804:C:H4'	4:AD:250:TRP:CH2	1.78	1.17
1:AA:3:U:C2	1:AA:2900:A:H2	1.61	1.17
34:BA:1412:C:N3	34:BA:1489:G:C6	2.12	1.17
34:BA:1412:C:C2	34:BA:1489:G:N1	2.13	1.17
1:AA:1646:C:H3'	1:AA:1647:G:H5'	1.23	1.17
1:AA:280:C:O3'	1:AA:281:G:H3'	1.40	1.17
3:AC:42:GLU:O	3:AC:214:VAL:C	1.83	1.17
8:AH:38:SER:HB3	8:AH:41:MET:HG3	1.18	1.17
32:AJ:23:VAL:O	32:AJ:35:MET:SD	2.02	1.17
12:AN:34:LEU:HA	12:AN:131:ILE:HG12	1.23	1.17
46:BQ:16:ASP:N	46:BQ:34:LEU:HG	1.59	1.17
56:BD:5:G:C6	56:BD:69:G:C5	2.31	1.17
1:AA:1019:U:OP1	1:AA:1036:G:H1'	1.43	1.17
1:AA:1677:A:H2'	1:AA:1678:G:C8	1.79	1.17
1:AA:2447:G:H5''	1:AA:2500:U:OP2	1.44	1.17
34:BA:1261:A:H61	34:BA:1274:G:H1'	1.04	1.17
46:BQ:29:ARG:HD3	46:BQ:64:TRP:CH2	1.80	1.17
57:BZ:240:ILE:CD1	57:BZ:287:THR:CG2	2.14	1.17
1:AA:2129:C:C5'	3:AC:6:ARG:HE	1.56	1.17
56:BD:2:C:N4	56:BD:71:G:O6	1.76	1.17
49:BT:44:THR:HG23	49:BT:45:THR:H	1.09	1.17
1:AA:1080:C:C2	32:AJ:129:GLY:CA	2.28	1.17
1:AA:1912:A:C2'	34:BA:1495:U:C6	2.28	1.17
1:AA:878:A:H2'	1:AA:879:G:H5''	1.17	1.17
1:AA:1046:A:C5	31:AI:7:VAL:N	1.86	1.17
9:AK:23:LEU:HD12	9:AK:63:THR:HG23	1.26	1.17
15:AQ:64:ARG:HD3	15:AQ:65:LYS:H	1.05	1.17
34:BA:41:G:H2'	34:BA:42:G:H8	1.08	1.17
43:BN:50:ILE:HA	43:BN:60:ARG:HG3	1.21	1.17
34:BA:266:G:H3'	50:BU:67:LYS:HD2	1.22	1.17
57:BZ:227:LYS:C	57:BZ:267:LEU:HD12	1.63	1.17
57:BZ:509:LYS:HZ3	57:BZ:561:ILE:CD1	1.52	1.17
1:AA:559:G:H2'	1:AA:560:C:C6	1.79	1.17
34:BA:888:G:N2	34:BA:909:A:H62	1.41	1.17
46:BQ:27:LYS:CB	54:BY:7:ARG:HH11	1.58	1.17
46:BQ:19:LEU:CD1	46:BQ:30:ALA:CA	2.01	1.17
57:BZ:6:ARG:H	57:BZ:69:ARG:CB	1.56	1.17
1:AA:2375:G:H21	1:AA:2378:A:N6	1.41	1.17
1:AA:2129:C:C5'	3:AC:6:ARG:HG2	1.71	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:165:ALA:N	57:BZ:172:ALA:O	1.78	1.17
57:BZ:55:THR:OG1	57:BZ:254:VAL:HG11	1.03	1.17
1:AA:2506:U:N1	59:AA:3002:8AN:H3'	1.45	1.17
1:AA:2507:C:C1'	59:AA:3002:8AN:C4	2.13	1.17
7:AG:61:ALA:HB2	7:AG:67:LYS:HB3	1.22	1.17
15:AQ:33:LYS:HA	15:AQ:46:GLU:O	1.40	1.17
18:AT:59:VAL:HA	18:AT:63:ASP:HA	1.27	1.17
57:BZ:41:ARG:HA	57:BZ:42:VAL:HG13	1.24	1.17
1:AA:1105:U:H2'	1:AA:1107:G:N7	1.59	1.16
1:AA:879:G:C6	1:AA:897:C:H2'	1.78	1.16
3:AC:22:ILE:HG21	3:AC:190:ARG:HH22	1.08	1.16
1:AA:2129:C:O3'	3:AC:6:ARG:HD3	1.45	1.16
34:BA:1312:G:C5	34:BA:1326:C:C4	2.33	1.16
55:BC:16:U:O4	55:BC:18:G:C2'	1.93	1.16
34:BA:1319:A:H4'	52:BW:37:ARG:HA	1.19	1.16
46:BQ:87:TYR:OH	52:BW:75:ALA:CA	1.80	1.16
57:BZ:55:THR:OG1	57:BZ:254:VAL:CG1	1.93	1.16
57:BZ:6:ARG:N	57:BZ:68:TYR:O	1.78	1.16
57:BZ:380:LEU:O	57:BZ:580:VAL:HG22	1.44	1.16
1:AA:2553:G:N2	1:AA:2554:U:H1'	1.56	1.16
1:AA:2653:U:C4	1:AA:2668:G:N2	2.13	1.16
1:AA:2652:C:N3	1:AA:2670:A:N9	1.92	1.16
3:AC:68:LEU:HD13	3:AC:159:GLY:CA	1.76	1.16
1:AA:2175:C:OP1	3:AC:7:TYR:HB2	1.29	1.16
8:AH:35:VAL:HG11	8:AH:72:ILE:HA	1.20	1.16
35:BF:219:VAL:HG12	35:BF:223:ILE:HD11	1.25	1.16
1:AA:2506:U:H3'	59:AA:3002:8AN:N3'	1.41	1.16
1:AA:2176:A:H1'	3:AC:215:THR:HB	1.26	1.16
5:AE:195:LEU:HD13	5:AE:196:VAL:N	1.60	1.16
13:AO:32:GLY:O	13:AO:115:GLU:HB2	1.39	1.16
34:BA:1315:U:O2	34:BA:1361:G:N9	1.77	1.16
34:BA:1405:G:N2	34:BA:1517:G:H22	1.41	1.16
57:BZ:170:GLY:C	57:BZ:179:MET:HG3	1.66	1.16
57:BZ:377:GLY:HA2	57:BZ:582:PRO:CG	1.74	1.16
1:AA:1555:G:H2'	1:AA:1556:C:C6	1.80	1.16
1:AA:2791:C:N4	1:AA:2893:G:C8	1.97	1.16
1:AA:896:A:H2	1:AA:897:C:C2	1.64	1.16
4:AD:168:ARG:HG2	4:AD:173:VAL:HG13	1.28	1.16
23:AY:27:LEU:HA	23:AY:30:LEU:HG	1.24	1.16
4:AD:55:GLY:N	4:AD:219:PRO:HD2	1.59	1.16
56:BE:21:A:N1	56:BE:46:G:C2	2.13	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:31:CYS:SG	37:BH:33:MET:SD	2.44	1.16
57:BZ:560:PRO:CB	57:BZ:562:ARG:N	2.07	1.16
1:AA:2558:C:H4'	57:BZ:543:LEU:HD21	1.27	1.16
1:AA:2507:C:H5'	59:AA:3002:8AN:C4'	1.73	1.16
1:AA:2507:C:N1	59:AA:3002:8AN:H1'	1.31	1.16
34:BA:1116:C:O2	34:BA:1184:G:N2	1.78	1.16
34:BA:1270:C:C1'	34:BA:1313:U:H4'	1.75	1.16
34:BA:1220:G:N3	52:BW:54:GLY:O	1.79	1.16
57:BZ:13:HIS:CD2	57:BZ:108:GLN:CG	2.29	1.16
57:BZ:62:ALA:CB	57:BZ:187:TYR:CD2	2.29	1.16
9:AK:74:ARG:HG3	9:AK:82:LEU:HD22	1.21	1.16
20:AV:22:GLY:HA3	20:AV:73:ARG:NH1	1.60	1.16
34:BA:1152:A:OP1	43:BN:13:HIS:CD2	1.99	1.16
57:BZ:169:ASN:OD1	57:BZ:182:ASP:OD1	1.64	1.16
57:BZ:207:MET:CB	57:BZ:226:ILE:HD13	1.75	1.16
34:BA:1330:U:C5'	46:BQ:70:LEU:CD2	2.22	1.16
57:BZ:204:PRO:CB	57:BZ:290:ASP:OD1	1.93	1.16
57:BZ:400:TYR:CE1	57:BZ:444:PRO:HB3	1.76	1.16
1:AA:1202:C:C5	1:AA:1203:G:C1'	2.29	1.16
4:AD:196:VAL:HG12	4:AD:197:GLY:H	1.03	1.16
1:AA:1059:G:O2'	32:AJ:75:SER:N	1.77	1.16
34:BA:1105:A:O2'	34:BA:1106:G:H5'	1.45	1.16
34:BA:1310:G:C6	34:BA:1327:C:C5	2.33	1.16
36:BG:189:ALA:HB1	36:BG:196:LEU:HG	1.17	1.16
57:BZ:236:GLN:NE2	57:BZ:237:VAL:O	1.78	1.16
57:BZ:408:GLU:HG3	57:BZ:436:ARG:NH1	1.60	1.16
32:AJ:54:PRO:O	32:AJ:70:LYS:CB	1.94	1.16
11:AM:107:LYS:NZ	11:AM:110:TYR:HB3	1.61	1.15
13:AO:78:LYS:O	13:AO:82:GLU:CB	1.94	1.15
57:BZ:426:LEU:HB2	57:BZ:441:TYR:CE2	1.81	1.15
34:BA:1486:G:H2'	34:BA:1487:G:C5'	1.74	1.15
34:BA:80:G:H2'	34:BA:81:G:O4'	1.46	1.15
56:BE:1:G:C1'	56:BE:72:C:C2	2.29	1.15
52:BW:9:VAL:HG11	52:BW:44:MET:HG3	1.27	1.15
1:AA:197:A:N6	1:AA:248:G:H22	1.41	1.15
4:AD:147:LEU:HB3	4:AD:185:VAL:HG22	1.28	1.15
1:AA:1081:U:H5'	32:AJ:125:ARG:HB3	1.28	1.15
32:AJ:52:ILE:O	32:AJ:73:PRO:CD	1.75	1.15
15:AQ:64:ARG:HA	15:AQ:64:ARG:NH1	1.61	1.15
57:BZ:163:VAL:HG22	57:BZ:173:GLY:O	1.43	1.15
1:AA:2132:U:H3'	1:AA:2133:G:C5'	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:53:ARG:HB2	15:AQ:65:LYS:O	1.42	1.15
34:BA:1271:G:P	34:BA:1314:C:C5'	2.34	1.15
57:BZ:123:PRO:HD2	57:BZ:156:GLU:CD	1.67	1.15
57:BZ:204:PRO:CB	57:BZ:290:ASP:CG	2.14	1.15
57:BZ:207:MET:CG	57:BZ:226:ILE:CD1	1.79	1.15
56:BD:49:C:O2	56:BD:65:G:N2	1.78	1.15
3:AC:46:LYS:CG	3:AC:211:SER:OG	1.81	1.15
32:AJ:40:ALA:O	32:AJ:66:THR:HG21	0.97	1.15
34:BA:1311:G:N2	34:BA:1326:C:O2'	1.79	1.15
56:BE:21:A:C6	56:BE:46:G:C2	2.33	1.15
1:AA:1024:G:N2	1:AA:1139:G:H1	1.44	1.15
1:AA:1203:G:C6	1:AA:1241:A:C8	2.33	1.15
40:BK:103:TRP:CH2	40:BK:138:LYS:HA	1.81	1.15
57:BZ:206:GLN:HB3	57:BZ:228:ARG:N	1.61	1.15
45:BP:106:ASP:HA	57:BZ:329:ARG:NE	1.60	1.15
57:BZ:312:CYS:HB3	57:BZ:354:ASP:O	1.42	1.15
56:BD:52:G:C5	56:BD:63:G:C2	2.33	1.15
1:AA:2661:G:C6	8:AH:175:LYS:HE3	1.79	1.15
1:AA:896:A:C2	1:AA:897:C:C2	2.34	1.15
5:AE:13:ARG:NH2	5:AE:20:ALA:HB3	1.61	1.15
34:BA:1220:G:N2	52:BW:55:LYS:CB	2.10	1.15
1:AA:2596:U:H2'	4:AD:242:ARG:NH1	1.62	1.15
1:AA:974:G:H3'	1:AA:974(A):C:H5''	1.23	1.15
13:AO:32:GLY:CA	13:AO:116:LEU:HD21	1.76	1.15
34:BA:764:C:H2'	34:BA:765:G:C8	1.81	1.15
35:BF:59:GLU:HB3	35:BF:221:LEU:HD21	1.29	1.15
57:BZ:495:LYS:HA	57:BZ:517:GLU:HA	1.25	1.15
4:AD:183:ARG:HG2	4:AD:268:ARG:HB2	1.25	1.15
7:AG:92:VAL:HG13	7:AG:94:LEU:HD13	1.26	1.15
1:AA:2416:C:H5''	11:AM:59:LEU:HB2	1.16	1.15
34:BA:1454:G:C2'	34:BA:1455:G:H8	1.57	1.15
57:BZ:13:HIS:NE2	57:BZ:106:MET:HB2	0.82	1.15
57:BZ:18:LYS:N	60:BZ:701:GCP:O1B	1.79	1.15
57:BZ:240:ILE:CB	57:BZ:286:ASP:CA	2.03	1.15
57:BZ:55:THR:C	57:BZ:56:ILE:HD12	1.67	1.15
32:AJ:17:ALA:CA	32:AJ:41:PHE:HB2	1.76	1.15
10:AL:39:ILE:HG12	10:AL:59:LYS:HZ1	0.98	1.15
12:AN:106:VAL:HG22	12:AN:107:ALA:H	1.00	1.15
34:BA:1126:U:OP1	34:BA:1280:A:N7	1.76	1.15
34:BA:1308:U:O3'	46:BQ:92:HIS:NE2	1.78	1.15
56:BD:51:U:N3	56:BD:63:G:N2	1.94	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2152:G:H5''	3:AC:2:LYS:CB	1.76	1.14
32:AJ:40:ALA:HB1	32:AJ:66:THR:OG1	0.98	1.14
1:AA:2496:C:OP1	12:AN:82:ARG:HG3	1.46	1.14
59:AA:3003:8AN:O1P	22:AX:4:LYS:HD3	1.42	1.14
46:BQ:15:VAL:CA	46:BQ:34:LEU:HD21	1.76	1.14
57:BZ:15:ASP:CB	57:BZ:16:HIS:CE1	2.29	1.14
4:AD:244:ARG:N	4:AD:245:PRO:HD3	1.61	1.14
5:AE:117:MET:SD	5:AE:136:ARG:HG2	1.86	1.14
17:AS:40:LEU:HG	17:AS:55:ALA:N	1.60	1.14
34:BA:1271:G:P	34:BA:1314:C:H5''	1.87	1.14
38:BI:48:ALA:CB	38:BI:53:LEU:HB3	1.77	1.14
40:BK:126:ASP:HA	40:BK:131:LYS:HE3	1.25	1.14
45:BP:80:HIS:CD2	57:BZ:327:THR:N	1.72	1.14
1:AA:1128:A:H62	1:AA:2518:A:N6	1.45	1.14
1:AA:966:G:H1'	1:AA:2267:A:N6	1.61	1.14
1:AA:2327:A:H2'	1:AA:2328:A:H8	1.09	1.14
1:AA:2416:C:C2'	1:AA:2417:C:H5''	1.77	1.14
1:AA:2651:C:C2	1:AA:2670:A:N1	2.14	1.14
3:AC:156:ILE:HG13	3:AC:160:ARG:CG	1.77	1.14
3:AC:43:VAL:HG11	3:AC:224:ILE:CD1	1.76	1.14
1:AA:781:A:H1'	4:AD:222:ARG:HH12	1.07	1.14
6:AF:30:PRO:O	6:AF:33:LEU:HG	1.46	1.14
1:AA:1081:U:H5'	32:AJ:125:ARG:CB	1.76	1.14
32:AJ:52:ILE:O	32:AJ:73:PRO:N	1.80	1.14
34:BA:1296:C:OP1	46:BQ:44:ARG:HD3	1.42	1.14
56:BE:3:C:N3	56:BE:70:G:C1'	1.95	1.14
42:BM:55:ALA:CB	42:BM:58:HIS:CE1	2.30	1.14
34:BA:1220:G:N2	52:BW:55:LYS:HA	1.60	1.14
1:AA:1542:G:H1'	1:AA:1543:A:C6	1.81	1.14
1:AA:2447:G:N7	1:AA:2500:U:H3'	1.62	1.14
13:AO:78:LYS:O	13:AO:82:GLU:HB2	0.99	1.14
34:BA:1484:C:H2'	34:BA:1485:U:H5'	1.21	1.14
45:BP:80:HIS:O	57:BZ:327:THR:CB	1.89	1.14
1:AA:2564:A:H2'	1:AA:2565:A:H8	1.04	1.14
21:AW:24:LEU:HB2	21:AW:41:LEU:HD21	1.26	1.14
34:BA:1443:G:H4'	34:BA:1446:A:H5'	1.29	1.14
45:BP:36:VAL:O	45:BP:58:VAL:HG13	1.44	1.14
45:BP:37:CYS:HA	45:BP:58:VAL:HG22	1.20	1.14
1:AA:1059:G:H21	32:AJ:130:SER:CA	1.57	1.14
1:AA:2047:U:H2'	1:AA:2048:G:H8	1.03	1.14
7:AG:148:MET:HG2	7:AG:151:ALA:HA	1.17	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:34:LEU:O	12:AN:103:MET:HB2	1.43	1.14
57:BZ:502:PHE:CD2	57:BZ:555:VAL:CB	2.31	1.14
31:AI:53:VAL:CA	31:AI:85:ASP:HA	1.76	1.14
1:AA:2489:G:H2'	1:AA:2490:G:C8	1.82	1.14
2:AB:71:C:C2'	2:AB:72:G:H5'	1.76	1.14
4:AD:7:LYS:HG2	4:AD:25:THR:HG22	1.14	1.14
14:AP:11:LYS:O	14:AP:14:VAL:HB	1.47	1.14
34:BA:1320:C:C6	52:BW:36:ARG:HG3	1.70	1.14
1:AA:2431:U:H2'	1:AA:2432:A:H5''	1.27	1.14
1:AA:2658:C:N4	1:AA:2664:G:C2	2.15	1.14
1:AA:2506:U:C6	59:AA:3002:8AN:H3'	1.80	1.14
32:AJ:112:MET:CG	32:AJ:122:ALA:HB3	1.73	1.14
32:AJ:53:VAL:HA	32:AJ:71:THR:O	0.96	1.14
1:AA:1598:C:H5''	19:AU:36:LYS:HB3	1.27	1.14
34:BA:1077:G:N2	34:BA:1079:G:H3'	1.63	1.14
49:BT:39:TYR:HB2	49:BT:49:LEU:HD13	1.17	1.14
34:BA:1455:G:O3'	53:BX:31:SER:OG	1.65	1.14
57:BZ:250:LYS:O	57:BZ:273:ILE:HD12	1.45	1.14
1:AA:1075:C:H1'	32:AJ:90:LYS:CE	1.76	1.14
1:AA:1872:A:H2'	1:AA:1878:G:H5'	1.24	1.14
6:AF:158:THR:HG21	6:AF:196:LEU:H	0.98	1.14
57:BZ:136:ARG:HG3	57:BZ:139:TRP:HB3	1.26	1.14
1:AA:2034:U:H3'	1:AA:2035:G:H5''	1.16	1.14
1:AA:2792:G:N2	1:AA:2804:C:N3	1.93	1.14
1:AA:893:C:C6	1:AA:894:C:H5	1.66	1.14
50:BU:5:VAL:HG22	50:BU:60:ILE:HA	1.18	1.14
45:BP:80:HIS:HD2	57:BZ:327:THR:N	1.08	1.14
1:AA:1956:U:H2'	1:AA:1957:C:C6	1.83	1.13
32:AJ:104:VAL:CB	32:AJ:127:ILE:CD1	2.19	1.13
34:BA:1311:G:C6	34:BA:1327:C:C4	2.22	1.13
34:BA:1484:C:C2'	34:BA:1485:U:H5'	1.76	1.13
37:BH:59:ARG:NH1	37:BH:59:ARG:HA	1.61	1.13
38:BI:109:ILE:HG21	38:BI:135:THR:HG21	1.18	1.13
1:AA:221:A:H4'	1:AA:222:A:H5'	1.15	1.13
1:AA:2416:C:H2'	1:AA:2417:C:H5''	1.16	1.13
3:AC:68:LEU:CD1	3:AC:159:GLY:HA2	1.77	1.13
23:AY:52:ILE:HA	23:AY:55:LEU:HD22	1.30	1.13
53:BX:44:ALA:HB3	53:BX:91:LEU:HD12	1.19	1.13
57:BZ:8:ILE:O	57:BZ:72:ILE:CA	1.95	1.13
56:BD:47:U:O4	57:BZ:598:ARG:CD	1.94	1.13
1:AA:1203:G:C6	1:AA:1240:U:C2	2.35	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2278:A:OP1	12:AN:14:ARG:HG3	1.47	1.13
31:AI:152:VAL:HA	31:AI:155:GLY:HA3	1.30	1.13
32:AJ:51:ALA:HA	32:AJ:76:TYR:CD2	1.83	1.13
14:AP:74:ALA:HB1	14:AP:108:GLY:CA	1.77	1.13
56:BE:18:G:N2	56:BE:58:A:O5'	1.81	1.13
42:BM:127:LYS:HB2	56:BE:31:A:H5''	1.23	1.13
46:BQ:16:ASP:CA	46:BQ:34:LEU:CD1	2.27	1.13
46:BQ:8:GLU:OE2	46:BQ:21:TYR:HB2	1.41	1.13
57:BZ:200:ASP:CG	57:BZ:228:ARG:HD3	1.67	1.13
1:AA:1906:G:C4	1:AA:1929:G:C5	2.36	1.13
3:AC:43:VAL:HG21	3:AC:224:ILE:CD1	1.79	1.13
6:AF:200:GLU:OE1	6:AF:201:VAL:HG23	1.49	1.13
9:AK:89:LYS:H	9:AK:89:LYS:HE2	1.00	1.13
13:AO:77:ARG:HH11	13:AO:77:ARG:HB2	1.06	1.13
57:BZ:81:PHE:HB3	57:BZ:365:HIS:CD2	1.78	1.13
1:AA:1047:G:C5'	1:AA:1110:G:O6	1.92	1.13
1:AA:675:A:H4'	6:AF:67:GLN:HE22	1.06	1.13
9:AK:16:ILE:HD11	9:AK:52:VAL:HG22	1.17	1.13
13:AO:105:ARG:HA	13:AO:105:ARG:CZ	1.79	1.13
22:AX:12:ASN:HA	22:AX:14:ARG:CZ	1.78	1.13
36:BG:126:ARG:HB3	36:BG:128:PHE:HE1	1.03	1.13
41:BL:86:ILE:HG21	41:BL:133:LEU:HB2	1.26	1.13
34:BA:985:C:O2'	52:BW:55:LYS:NZ	1.81	1.13
57:BZ:205:PHE:O	57:BZ:289:CYS:CB	1.95	1.13
57:BZ:564:THR:N	57:BZ:567:GLN:HB3	1.62	1.13
12:AN:137:TYR:O	12:AN:138:ASP:CG	1.86	1.13
37:BH:55:ALA:O	37:BH:59:ARG:HG2	1.48	1.13
31:AI:54:ALA:HB2	31:AI:85:ASP:N	1.61	1.13
1:AA:901:A:C5	1:AA:902:C:C4	2.37	1.13
4:AD:181:GLU:HG3	4:AD:270:ILE:HB	1.26	1.13
1:AA:1012:U:O4	9:AK:25:ARG:HB3	1.47	1.13
17:AS:6:LYS:HB3	17:AS:10:LYS:HA	1.25	1.13
17:AS:27:ALA:HB1	17:AS:33:VAL:HG11	1.26	1.13
34:BA:551:U:H2'	34:BA:552:U:C6	1.84	1.13
56:BE:21:A:O2'	56:BE:22:G:O4'	1.67	1.13
57:BZ:250:LYS:O	57:BZ:273:ILE:CD1	1.94	1.13
57:BZ:546:MET:HB3	57:BZ:547:ARG:HG2	1.28	1.13
6:AF:89:VAL:HG12	6:AF:90:PHE:H	0.99	1.13
34:BA:1315:U:O2	34:BA:1361:G:C4	2.01	1.13
46:BQ:36:LYS:HG3	46:BQ:56:LEU:HD22	1.30	1.13
34:BA:1014:A:C1'	52:BW:34:TRP:CH2	2.32	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:48:LEU:HD13	46:BQ:53:VAL:HG22	1.30	1.13
1:AA:2252:G:N7	59:AA:3003:8AN:C6	2.11	1.13
1:AA:662:G:H4'	11:AM:18:ARG:H	1.11	1.13
57:BZ:240:ILE:CB	57:BZ:286:ASP:HB3	1.70	1.13
1:AA:1036:G:P	8:AH:59:ARG:NH2	2.21	1.12
1:AA:1718:G:H2'	1:AA:1725:G:C8	1.84	1.12
1:AA:2564:A:H2'	1:AA:2565:A:C8	1.84	1.12
9:AK:27:ALA:HA	9:AK:30:ILE:HD12	1.31	1.12
12:AN:23:GLY:HA3	12:AN:101:ARG:NH2	1.63	1.12
14:AP:3:ARG:HG2	14:AP:4:LEU:HG	1.31	1.12
1:AA:142:G:H4'	19:AU:35:THR:HG21	1.30	1.12
50:BU:5:VAL:HG13	50:BU:59:ILE:O	1.49	1.12
57:BZ:373:MET:SD	57:BZ:380:LEU:HD21	1.88	1.12
1:AA:1788:C:H2'	4:AD:222:ARG:HH21	1.09	1.12
1:AA:2581:G:N1	1:AA:2610:C:H2'	1.62	1.12
5:AE:105:THR:HB	5:AE:166:THR:HB	1.29	1.12
32:AJ:17:ALA:HB1	32:AJ:38:VAL:O	0.97	1.12
34:BA:1115:C:C2	34:BA:1186:G:N1	2.17	1.12
34:BA:1158:C:O2'	35:BF:133:LYS:CE	1.95	1.12
57:BZ:240:ILE:HD13	57:BZ:287:THR:CG2	1.66	1.12
57:BZ:545:ASN:HB3	57:BZ:546:MET:HA	1.27	1.12
57:BZ:73:VAL:HB	57:BZ:75:THR:OG1	1.45	1.12
57:BZ:499:PHE:CB	57:BZ:540:GLY:HA2	1.78	1.12
1:AA:2148:G:H2'	1:AA:2149:G:H8	1.00	1.12
1:AA:2659:G:O2'	1:AA:2663:G:N2	1.82	1.12
1:AA:452:G:H3'	1:AA:453:C:H5''	1.24	1.12
1:AA:28:A:H1'	1:AA:513:A:N1	1.61	1.12
1:AA:875:G:N1	1:AA:902:C:N3	1.76	1.12
1:AA:2748:A:H1'	8:AH:67:LEU:HD22	1.27	1.12
24:AZ:6:VAL:HG23	24:AZ:35:ARG:HG3	1.22	1.12
34:BA:1151:A:C5	34:BA:1152:A:N7	2.16	1.12
34:BA:1312:G:N1	34:BA:1326:C:C5	2.16	1.12
34:BA:955:U:H1'	34:BA:1227:A:H61	1.15	1.12
46:BQ:20:THR:OG1	46:BQ:26:GLY:HA2	1.48	1.12
52:BW:6:LYS:HE3	52:BW:10:PHE:HB2	1.17	1.12
57:BZ:240:ILE:CD1	57:BZ:287:THR:HG23	1.58	1.12
1:AA:1079:C:O2	32:AJ:132:ARG:CB	1.94	1.12
1:AA:2645:G:H4'	1:AA:2732:G:O2'	1.49	1.12
1:AA:783:A:H5''	1:AA:2589:A:OP1	1.46	1.12
2:AB:101:A:H2'	2:AB:102:G:H8	1.13	1.12
4:AD:127:VAL:HG13	4:AD:194:GLY:HA3	1.25	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:19:LEU:HG	7:AG:22:ARG:CZ	1.77	1.12
9:AK:89:LYS:H	9:AK:89:LYS:CE	1.62	1.12
10:AL:96:THR:HA	10:AL:117:LEU:HD11	1.26	1.12
15:AQ:50:ILE:CB	15:AQ:66:VAL:HB	1.77	1.12
15:AQ:62:THR:HG22	15:AQ:79:HIS:CA	1.79	1.12
45:BP:56:ALA:HB3	45:BP:68:ALA:O	1.45	1.12
1:AA:1324:G:H1'	1:AA:1616:A:N6	1.65	1.12
1:AA:2701:C:H3'	1:AA:2702:U:H5''	1.17	1.12
9:AK:69:GLN:HE22	9:AK:87:LEU:HD22	1.10	1.12
12:AN:48:GLU:O	12:AN:51:ARG:HG3	1.44	1.12
16:AR:44:ASN:HD21	17:AS:78:LYS:HG2	1.05	1.12
21:AW:4:ARG:HG2	21:AW:5:LEU:H	1.14	1.12
57:BZ:18:LYS:H	60:BZ:701:GCP:PB	1.72	1.12
1:AA:828:U:H2'	1:AA:829:A:H8	1.01	1.12
32:AJ:19:PRO:HG3	32:AJ:37:PHE:N	1.63	1.12
36:BG:20:SER:HB2	36:BG:40:ARG:HH22	1.13	1.12
34:BA:1242:C:H5''	54:BY:10:ARG:HH12	1.14	1.12
1:AA:2725:A:H2'	1:AA:2726:U:H3'	1.30	1.12
10:AL:64:ARG:HH12	10:AL:77:ILE:HB	1.03	1.12
11:AM:45:LEU:HD23	11:AM:46:LYS:HG3	1.27	1.12
19:AU:44:GLU:HG3	19:AU:51:VAL:HG23	1.28	1.12
34:BA:371:G:H2'	34:BA:372:C:H5'	1.13	1.12
57:BZ:95:VAL:HG23	57:BZ:123:PRO:HA	1.25	1.12
57:BZ:205:PHE:CA	57:BZ:228:ARG:O	1.97	1.12
57:BZ:379:GLU:HG2	57:BZ:581:THR:HA	1.15	1.12
1:AA:1916:A:N6	34:BA:1409:C:C4'	2.11	1.12
1:AA:2572:A:H4'	1:AA:2573:C:H5''	1.19	1.12
1:AA:966:G:H1'	1:AA:2267:A:H62	1.08	1.12
4:AD:196:VAL:CG1	4:AD:197:GLY:H	1.62	1.12
1:AA:2780:G:N2	9:AK:97:ARG:HH12	1.46	1.12
14:AP:62:LYS:HD2	14:AP:64:GLU:HB3	1.17	1.12
51:BV:66:LEU:HD12	51:BV:67:ALA:N	1.65	1.12
57:BZ:230:LYS:HD2	57:BZ:265:THR:O	1.45	1.12
56:BD:63:G:H2'	56:BD:64:A:H8	1.14	1.12
56:BD:51:U:C2	56:BD:63:G:N2	2.18	1.12
1:AA:1174:A:H2'	1:AA:1175:U:H5''	1.30	1.12
1:AA:2107:C:O5'	1:AA:2108:C:C5	1.84	1.12
1:AA:1568:G:OP1	4:AD:61:LEU:HB2	1.47	1.12
37:BH:19:LEU:HA	37:BH:21:LEU:HD12	1.20	1.12
34:BA:1226:C:H1'	52:BW:80:TYR:CD1	1.34	1.12
57:BZ:18:LYS:HB3	60:BZ:701:GCP:O2B	1.43	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:426:LEU:HB2	57:BZ:441:TYR:CZ	1.84	1.12
1:AA:2346:A:H1'	1:AA:2383:G:C8	1.84	1.12
3:AC:45:ALA:N	3:AC:213:TYR:CD1	2.15	1.12
46:BQ:36:LYS:CG	46:BQ:56:LEU:HD22	1.80	1.12
52:BW:41:VAL:HB	52:BW:42:PRO:HD2	1.24	1.12
4:AD:146:GLU:HB2	4:AD:154:LYS:H	1.15	1.11
32:AJ:72:PRO:CG	32:AJ:77:LEU:CG	1.88	1.11
17:AS:64:HIS:HB3	17:AS:96:ILE:HA	1.28	1.11
56:BE:21:A:C6	56:BE:46:G:N3	2.18	1.11
46:BQ:10:PRO:HB2	46:BQ:45:VAL:HG11	1.14	1.11
57:BZ:230:LYS:C	57:BZ:265:THR:O	1.88	1.11
57:BZ:305:PRO:CB	57:BZ:361:ARG:HG2	1.79	1.11
1:AA:1520:U:H2'	1:AA:1521:G:H5''	1.13	1.11
1:AA:612:G:H4'	1:AA:616:A:N6	1.62	1.11
15:AQ:54:ARG:HG2	15:AQ:100:TYR:HB3	1.29	1.11
16:AR:88:ILE:C	17:AS:52:VAL:HA	1.70	1.11
34:BA:1339:A:C4'	56:BE:41:C:C4'	2.28	1.11
34:BA:939:G:H5''	40:BK:102:ARG:NH2	1.64	1.11
57:BZ:205:PHE:CZ	57:BZ:226:ILE:CD1	2.33	1.11
57:BZ:80:ASP:OD1	57:BZ:365:HIS:HA	1.47	1.11
20:AV:42:VAL:H	20:AV:61:ILE:HB	1.11	1.11
1:AA:287:C:H2'	1:AA:288:C:C5	1.84	1.11
9:AK:23:LEU:HD11	9:AK:63:THR:H	1.14	1.11
17:AS:20:LEU:HD13	17:AS:68:LYS:HZ3	1.13	1.11
34:BA:371:G:C2'	34:BA:372:C:H5'	1.80	1.11
34:BA:587:G:H1'	34:BA:755:G:N2	1.65	1.11
52:BW:18:LYS:HA	52:BW:18:LYS:HE3	1.30	1.11
57:BZ:233:PRO:HG2	57:BZ:248:ASN:ND2	1.63	1.11
57:BZ:27:GLN:CA	57:BZ:28:GLN:CB	2.25	1.11
57:BZ:397:GLN:CA	57:BZ:472:TYR:C	2.17	1.11
1:AA:775:G:H2'	1:AA:794:G:N7	1.66	1.11
1:AA:898:C:H2'	1:AA:899:A:H4'	1.31	1.11
32:AJ:82:ALA:CA	32:AJ:99:ILE:HG21	1.80	1.11
15:AQ:30:VAL:CG2	15:AQ:90:GLN:HA	1.80	1.11
57:BZ:57:LEU:HD12	57:BZ:255:LEU:HA	1.27	1.11
45:BP:80:HIS:HD2	57:BZ:326:VAL:C	1.51	1.11
1:AA:1081:U:H5'	32:AJ:125:ARG:CG	1.78	1.11
1:AA:716:A:C1'	48:BS:44:LYS:HD3	1.80	1.11
3:AC:71:GLN:HG2	3:AC:174:PRO:HG3	1.33	1.11
4:AD:134:ARG:HA	4:AD:168:ARG:NH1	1.63	1.11
32:AJ:23:VAL:HG12	32:AJ:37:PHE:CD1	1.85	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:25:PRO:HG3	57:BZ:429:MET:HE2	1.25	1.11
32:AJ:78:ILE:HG22	32:AJ:127:ILE:HG12	1.31	1.11
13:AO:79:LEU:HD23	13:AO:80:PHE:N	1.64	1.11
21:AW:57:ILE:HG12	21:AW:70:LEU:HB3	1.16	1.11
34:BA:1117:G:N1	34:BA:1184:G:C5	2.18	1.11
34:BA:1220:G:H21	52:BW:55:LYS:HA	1.07	1.11
43:BN:45:ARG:HB3	43:BN:45:ARG:HH11	1.14	1.11
45:BP:117:ARG:HH21	45:BP:124:LYS:HA	1.06	1.11
57:BZ:131:ASP:OD1	57:BZ:166:SER:HA	1.50	1.11
57:BZ:167:ALA:HB2	60:BZ:701:GCP:HN1	1.09	1.11
57:BZ:81:PHE:CG	57:BZ:365:HIS:NE2	2.19	1.11
1:AA:2254:C:H2'	1:AA:2255:G:H5'	1.29	1.11
3:AC:71:GLN:NE2	3:AC:174:PRO:HD3	1.66	1.11
5:AE:8:LYS:HA	5:AE:8:LYS:HE2	1.33	1.11
7:AG:170:ARG:O	7:AG:174:GLU:HB3	1.49	1.11
32:AJ:19:PRO:HG3	32:AJ:38:VAL:H	1.08	1.11
34:BA:958:A:N1	52:BW:56:GLN:NE2	1.98	1.11
40:BK:76:ARG:HB2	40:BK:156:TRP:HE1	1.00	1.11
52:BW:11:VAL:HG23	52:BW:16:LEU:HD13	1.16	1.11
57:BZ:551:ALA:HB1	57:BZ:552:ASP:HB2	1.31	1.11
31:AI:52:PHE:C	31:AI:86:PRO:CB	2.18	1.11
1:AA:265:A:H8	1:AA:265:A:H3'	1.08	1.11
3:AC:163:PHE:HD1	3:AC:196:LEU:CD1	1.64	1.11
7:AG:130:ASN:O	7:AG:159:VAL:HG23	1.50	1.11
32:AJ:19:PRO:CG	32:AJ:38:VAL:H	1.63	1.11
15:AQ:62:THR:CG2	15:AQ:79:HIS:HA	1.80	1.11
34:BA:1329:A:O2'	46:BQ:70:LEU:CD2	1.98	1.11
34:BA:1330:U:C5'	46:BQ:70:LEU:HD21	1.79	1.11
57:BZ:89:MET:HE1	57:BZ:119:TYR:CE1	1.86	1.11
57:BZ:122:LYS:HG3	57:BZ:158:LEU:O	1.48	1.11
57:BZ:122:LYS:CE	57:BZ:156:GLU:CB	2.28	1.11
1:AA:112:U:H3'	1:AA:113:G:H5''	1.12	1.11
1:AA:1718:G:H2'	1:AA:1725:G:H8	1.15	1.11
1:AA:1754:C:O2	1:AA:1755:A:H1'	1.50	1.11
3:AC:66:HIS:HA	3:AC:67:GLY:N	0.80	1.11
4:AD:134:ARG:HA	4:AD:168:ARG:HH12	0.94	1.11
34:BA:1329:A:OP1	46:BQ:29:ARG:HG2	1.51	1.11
42:BM:85:LEU:HD23	42:BM:96:LEU:HD13	1.31	1.11
57:BZ:141:VAL:HG21	57:BZ:164:TYR:OH	1.44	1.11
57:BZ:228:ARG:N	57:BZ:267:LEU:HD12	1.65	1.11
57:BZ:382:VAL:HG22	57:BZ:578:VAL:HB	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:15:GLY:H	32:AJ:45:THR:HB	1.05	1.11
8:AH:98:LEU:HG	8:AH:123:PHE:HB2	1.33	1.11
34:BA:1312:G:C5	34:BA:1326:C:N3	2.18	1.11
34:BA:1329:A:H4'	46:BQ:29:ARG:NH2	1.15	1.11
34:BA:408:A:H2'	34:BA:409:G:C8	1.85	1.11
57:BZ:200:ASP:HB2	57:BZ:228:ARG:CG	1.80	1.11
57:BZ:400:TYR:CB	57:BZ:442:VAL:CG1	2.12	1.11
1:AA:953:A:H2'	1:AA:954:G:H5'	1.15	1.11
1:AA:636:G:H22	11:AM:75:ILE:HD12	0.94	1.11
34:BA:291:C:H3'	34:BA:305:G:H22	1.10	1.11
34:BA:313:A:H2'	34:BA:314:C:C6	1.85	1.11
38:BI:121:LYS:NZ	38:BI:122:GLU:H	1.48	1.11
34:BA:1318:A:C1'	52:BW:37:ARG:HB2	1.81	1.11
57:BZ:311:PHE:HB2	57:BZ:356:PHE:HB2	1.31	1.11
57:BZ:380:LEU:HD12	57:BZ:580:VAL:HG22	1.24	1.11
1:AA:2181:G:N3	1:AA:2182:G:O6	1.73	1.10
1:AA:2239:G:H3'	1:AA:2240:C:H5''	1.23	1.10
10:AL:3:GLN:HE22	10:AL:33:ALA:CB	1.63	1.10
34:BA:1113:C:H2'	34:BA:1114:C:H6	1.06	1.10
52:BW:32:LYS:HA	52:BW:50:ALA:HB3	1.19	1.10
1:AA:1813:G:H4'	4:AD:46:GLN:CB	1.81	1.10
5:AE:173:VAL:HG13	5:AE:184:VAL:HA	1.32	1.10
6:AF:18:ARG:O	6:AF:19:GLU:HG3	1.50	1.10
32:AJ:104:VAL:HG11	32:AJ:127:ILE:HG21	1.22	1.10
32:AJ:75:SER:OG	32:AJ:130:SER:HB3	1.51	1.10
45:BP:84:LEU:HB3	45:BP:104:VAL:HG11	1.30	1.10
57:BZ:397:GLN:HB3	57:BZ:472:TYR:CB	1.80	1.10
10:AL:60:ALA:O	10:AL:83:ALA:HB1	1.51	1.10
34:BA:1311:G:N1	34:BA:1327:C:C6	2.19	1.10
34:BA:599:C:H4'	41:BL:130:GLY:HA3	1.17	1.10
39:BJ:23:LYS:O	39:BJ:26:ILE:HB	1.52	1.10
52:BW:9:VAL:HG23	52:BW:42:PRO:HB2	1.31	1.10
1:AA:2660:A:H2	57:BZ:456:MET:HB2	0.94	1.10
1:AA:1931:U:H6	1:AA:1932:A:C8	1.69	1.10
1:AA:2630:G:C4	1:AA:2894:G:C8	2.34	1.10
1:AA:364:C:H2'	1:AA:365:C:C6	1.86	1.10
32:AJ:27:LEU:HD21	32:AJ:57:ILE:O	1.50	1.10
12:AN:109:VAL:HG11	12:AN:114:ALA:HB2	1.30	1.10
15:AQ:50:ILE:HB	15:AQ:66:VAL:CB	1.80	1.10
21:AW:94:GLU:H	21:AW:95:PRO:HD3	1.12	1.10
46:BQ:65:LYS:HB2	46:BQ:69:GLU:HB3	1.29	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:11:ILE:HG21	57:BZ:112:VAL:HB	1.20	1.10
57:BZ:13:HIS:CG	57:BZ:109:THR:CG2	2.33	1.10
57:BZ:397:GLN:CG	57:BZ:472:TYR:O	1.99	1.10
1:AA:270(C):C:H2'	1:AA:270(D):C:H6	1.10	1.10
1:AA:545:G:H1'	1:AA:549:G:H22	1.14	1.10
1:AA:2619:C:H4'	5:AE:152:LYS:HA	1.11	1.10
8:AH:104:GLU:O	8:AH:113:VAL:HB	1.52	1.10
44:BO:61:ALA:HB1	44:BO:94:ALA:HB2	1.13	1.10
52:BW:15:LEU:HD13	52:BW:71:LEU:HD11	1.25	1.10
57:BZ:512:LEU:HD23	57:BZ:518:VAL:HG11	1.32	1.10
1:AA:2148:G:H2'	1:AA:2149:G:C8	1.86	1.10
1:AA:2674:G:H2'	1:AA:2675:A:H8	1.09	1.10
5:AE:13:ARG:HG3	5:AE:22:PRO:HD3	1.15	1.10
32:AJ:24:GLY:N	32:AJ:35:MET:HE2	1.45	1.10
34:BA:1080:A:H5'	38:BI:14:ARG:NH2	1.65	1.10
34:BA:684:A:H4'	44:BO:12:ARG:HH22	1.13	1.10
31:AI:54:ALA:HB1	31:AI:83:TYR:O	1.51	1.10
1:AA:2047:U:H2'	1:AA:2048:G:C8	1.84	1.10
1:AA:261:G:H4'	1:AA:608:A:C2	1.84	1.10
1:AA:2670:A:N3	1:AA:2671:A:C8	2.20	1.10
6:AF:197:ASP:HA	6:AF:200:GLU:CG	1.81	1.10
18:AT:69:LEU:HD23	18:AT:107:LEU:HD21	1.33	1.10
21:AW:176:PRO:HB2	21:AW:179:ASP:HA	1.14	1.10
34:BA:1270:C:O3'	34:BA:1314:C:H5'	1.48	1.10
34:BA:570:G:H5'	34:BA:820:U:H1'	1.33	1.10
35:BF:174:VAL:O	35:BF:178:ARG:HG2	1.50	1.10
41:BL:87:SER:HB2	41:BL:92:ARG:HA	1.18	1.10
57:BZ:305:PRO:HB3	57:BZ:361:ARG:HG2	1.15	1.10
4:AD:246:PRO:CD	4:AD:250:TRP:HB3	1.80	1.10
56:BE:21:A:H2'	56:BE:22:G:H5''	1.30	1.10
39:BJ:3:ARG:HA	39:BJ:67:MET:HE1	1.18	1.10
46:BQ:78:ILE:HA	46:BQ:81:LEU:HD11	1.28	1.10
53:BX:87:LYS:HG3	53:BX:91:LEU:HD21	1.30	1.10
57:BZ:10:ILE:HD13	57:BZ:21:LEU:CB	1.82	1.10
57:BZ:604:PRO:HB2	57:BZ:605:LYS:HB3	1.12	1.10
1:AA:1557:C:H2'	1:AA:1558:A:H8	1.15	1.10
1:AA:2421:G:H2'	1:AA:2422:A:C8	1.87	1.10
1:AA:712:G:H2'	1:AA:713:G:H8	0.98	1.10
5:AE:36:ARG:HG3	5:AE:79:ARG:HH11	1.06	1.10
16:AR:55:ARG:HG3	16:AR:58:ARG:HH21	1.05	1.10
34:BA:678:U:H2'	34:BA:679:C:C6	1.87	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:402:ASN:HB3	57:BZ:441:TYR:C	1.62	1.10
57:BZ:5:LEU:HD13	57:BZ:268:ALA:CB	1.82	1.10
57:BZ:81:PHE:HB2	57:BZ:344:ALA:HB3	1.31	1.10
1:AA:1069:A:C2	1:AA:1096:A:H5'	1.86	1.10
1:AA:2788:C:C4	1:AA:2789:C:C4	2.40	1.10
32:AJ:10:LEU:CD2	32:AJ:27:LEU:HD21	1.80	1.10
34:BA:1486:G:H2'	34:BA:1487:G:H5''	1.28	1.10
34:BA:262:A:H2'	34:BA:263:A:C8	1.87	1.10
10:AL:119:PRO:HB2	34:BA:347:G:OP2	1.52	1.10
44:BO:58:PRO:HB2	44:BO:93:GLN:HB2	1.31	1.10
47:BR:58:LYS:HD3	47:BR:59:ALA:N	1.67	1.10
51:BV:58:LEU:HB3	51:BV:62:GLU:HB3	1.27	1.10
51:BV:72:ARG:HA	51:BV:75:ILE:HD12	1.29	1.10
52:BW:9:VAL:CG2	52:BW:42:PRO:CB	1.95	1.10
56:BD:52:G:C6	56:BD:63:G:N1	2.20	1.10
1:AA:1913:A:H4'	1:AA:1914:C:H5'	1.21	1.10
57:BZ:38:THR:HA	57:BZ:39:GLN:HB3	1.26	1.10
1:AA:1967:C:H42	1:AA:1968:G:N2	1.48	1.09
1:AA:1995:U:H5''	1:AA:1996:C:H5'	1.31	1.09
1:AA:2353:G:H4'	22:AX:32:ARG:HH22	1.16	1.09
1:AA:2591:C:H2'	1:AA:2592:G:H8	1.01	1.09
32:AJ:123:ALA:HA	32:AJ:127:ILE:HG13	1.29	1.09
1:AA:2416:C:OP1	11:AM:59:LEU:HA	1.49	1.09
16:AR:112:ARG:HH12	17:AS:50:PRO:HG3	0.95	1.09
24:AZ:3:ARG:HB3	24:AZ:3:ARG:NH1	1.66	1.09
34:BA:1315:U:C2'	34:BA:1360:A:H2'	1.80	1.09
56:BE:14:A:H2'	56:BE:15:G:H5'	1.32	1.09
41:BL:6:ILE:HG23	41:BL:7:ALA:H	1.06	1.09
44:BO:57:THR:HG23	44:BO:60:ALA:H	1.13	1.09
45:BP:23:LYS:HA	45:BP:23:LYS:HE3	1.30	1.09
57:BZ:236:GLN:HA	57:BZ:247:ARG:CA	1.79	1.09
57:BZ:547:ARG:HD3	57:BZ:548:ALA:CB	1.82	1.09
1:AA:1024:G:H5''	1:AA:1025:G:C5'	1.82	1.09
1:AA:172:C:C6	1:AA:173:G:N7	2.20	1.09
1:AA:1909:C:O2	1:AA:1922:G:C2	2.04	1.09
1:AA:586:A:H5'	6:AF:89:VAL:HG21	1.20	1.09
1:AA:729:G:H2'	1:AA:730:C:H4'	1.19	1.09
2:AB:71:C:H2'	2:AB:72:G:H5'	1.18	1.09
1:AA:1079:C:O2	32:AJ:129:GLY:O	1.67	1.09
10:AL:62:VAL:HG23	10:AL:83:ALA:HA	1.26	1.09
17:AS:28:GLU:HB3	17:AS:94:LEU:HD12	1.34	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:50:LEU:HD11	42:BM:56:LEU:HA	1.32	1.09
5:AE:104:VAL:HG22	5:AE:198:VAL:HG13	1.29	1.09
10:AL:4:PRO:HG2	10:AL:5:GLN:H	1.14	1.09
11:AM:46:LYS:HB2	11:AM:49:ARG:HB2	1.31	1.09
59:AA:3003:8AN:P	22:AX:4:LYS:HD3	1.93	1.09
34:BA:1270:C:O2'	34:BA:1313:U:O3'	1.70	1.09
34:BA:1330:U:H5'	46:BQ:70:LEU:HD21	1.23	1.09
1:AA:1405:U:H2'	1:AA:1406:U:C6	1.86	1.09
1:AA:1520:U:C2'	1:AA:1521:G:H5''	1.82	1.09
1:AA:1543:A:H3'	1:AA:1544:C:H4'	1.20	1.09
1:AA:2392:A:H1'	11:AM:55:ARG:NH1	1.66	1.09
1:AA:270(X):G:H2'	1:AA:270(Y):G:H5'	1.32	1.09
3:AC:100:ILE:HG23	3:AC:127:LEU:HG	1.28	1.09
1:AA:2124:G:C4'	3:AC:42:GLU:OE1	1.95	1.09
6:AF:197:ASP:HA	6:AF:200:GLU:HG3	1.09	1.09
10:AL:68:GLU:OE2	10:AL:76:ALA:HB3	1.51	1.09
14:AP:3:ARG:HG2	14:AP:4:LEU:H	1.04	1.09
21:AW:176:PRO:CB	21:AW:179:ASP:HA	1.82	1.09
24:AZ:9:VAL:HG23	24:AZ:10:LYS:H	1.08	1.09
34:BA:932:C:H3'	40:BK:3:ARG:HG3	1.31	1.09
56:BE:21:A:N6	56:BE:46:G:N9	2.01	1.09
37:BH:101:LEU:O	37:BH:104:VAL:HG22	1.49	1.09
40:BK:46:ALA:HA	40:BK:49:ILE:HD13	1.29	1.09
46:BQ:20:THR:CG2	46:BQ:26:GLY:HA3	1.65	1.09
51:BV:70:ILE:HG22	51:BV:74:ARG:HE	1.18	1.09
57:BZ:13:HIS:HB2	57:BZ:108:GLN:HB2	1.29	1.09
57:BZ:200:ASP:OD2	57:BZ:228:ARG:HD3	0.93	1.09
57:BZ:496:ALA:N	57:BZ:516:ALA:O	1.83	1.09
1:AA:1080:C:H4'	32:AJ:128:ALA:CB	1.65	1.09
1:AA:1466:G:H2'	1:AA:1547:C:H41	1.09	1.09
1:AA:2063:C:H3'	1:AA:2064:C:H5''	1.33	1.09
1:AA:2572:A:H4'	1:AA:2573:C:C5'	1.81	1.09
1:AA:2651:C:N3	1:AA:2670:A:N6	2.00	1.09
3:AC:71:GLN:HE21	3:AC:174:PRO:HD3	1.02	1.09
1:AA:2125:G:C5'	3:AC:40:THR:CG2	2.30	1.09
35:BF:184:VAL:O	35:BF:198:ASP:HB2	1.51	1.09
1:AA:6:A:C6	1:AA:2897:U:C4	2.41	1.09
1:AA:71:A:H4'	1:AA:72:U:H5''	1.33	1.09
2:AB:103:U:H2'	2:AB:104:A:H5'	1.33	1.09
1:AA:1258:C:H5'	6:AF:84:VAL:HG21	1.34	1.09
32:AJ:17:ALA:HB2	32:AJ:42:ASN:CA	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:28:LYS:HE2	20:AV:28:LYS:H	1.11	1.09
34:BA:1225:A:C4'	52:BW:78:ARG:HB3	1.81	1.09
48:BS:6:GLU:HG2	48:BS:7:GLU:H	1.11	1.09
57:BZ:7:ASN:OD1	57:BZ:71:ASN:HB3	1.50	1.09
46:BQ:4:ILE:HD13	46:BQ:57:ARG:HG3	1.12	1.09
1:AA:1488:G:H2'	1:AA:1489:U:H5'	1.33	1.09
1:AA:988:A:H62	24:AZ:13:ILE:HG13	1.14	1.09
3:AC:62:VAL:CG1	3:AC:192:PHE:N	2.16	1.09
5:AE:116:VAL:HG21	5:AE:138:PRO:HA	1.17	1.09
7:AG:49:ASP:O	7:AG:53:LEU:HB2	1.52	1.09
8:AH:103:LEU:HB2	8:AH:115:VAL:HB	1.24	1.09
23:AY:55:LEU:O	23:AY:58:VAL:HG13	1.51	1.09
34:BA:1310:G:C6	34:BA:1327:C:N4	2.19	1.09
37:BH:20:TYR:HA	37:BH:26:CYS:SG	1.92	1.09
57:BZ:520:GLU:OE2	57:BZ:593:THR:CA	1.98	1.09
1:AA:27:G:H1	1:AA:512:G:H2'	1.12	1.09
1:AA:716:A:C2	48:BS:44:LYS:CG	2.25	1.09
34:BA:38:G:H22	34:BA:397:A:C5'	1.66	1.09
37:BH:43:HIS:HB3	37:BH:46:LYS:HG3	1.30	1.09
4:AD:142:VAL:HG12	4:AD:193:VAL:HA	1.28	1.09
20:AV:14:LEU:HB2	20:AV:20:TYR:HA	1.32	1.09
34:BA:1315:U:C2	34:BA:1361:G:C1'	2.33	1.09
34:BA:1393:U:H4'	34:BA:1501:C:O2'	1.51	1.09
34:BA:677:U:H2'	34:BA:678:U:C5	1.86	1.09
50:BU:25:ARG:HH21	50:BU:40:LYS:HD3	1.07	1.09
52:BW:69:HIS:HB2	52:BW:74:PHE:HZ	1.17	1.09
1:AA:2656:U:O4	1:AA:2665:A:N6	1.86	1.09
12:AN:44:ALA:HA	12:AN:47:ILE:HD12	1.35	1.09
35:BF:69:LEU:HA	35:BF:91:PRO:O	1.53	1.09
57:BZ:390:ARG:HG2	57:BZ:391:GLU:HG2	1.17	1.09
1:AA:1105:U:C2'	1:AA:1107:G:N7	2.16	1.08
1:AA:1697:G:H3'	1:AA:1698:A:C5'	1.80	1.08
1:AA:1788:C:H2'	4:AD:222:ARG:NH2	1.66	1.08
1:AA:2176:A:C3'	3:AC:221:SER:OG	2.00	1.08
1:AA:965:C:H5'	1:AA:2273:A:H1'	1.30	1.08
4:AD:105:ILE:HG13	4:AD:106:ILE:HG12	1.29	1.08
16:AR:89:GLU:HG2	17:AS:52:VAL:HG23	1.12	1.08
19:AU:32:PRO:HA	19:AU:77:LYS:HD2	1.35	1.08
34:BA:1477:C:H2'	34:BA:1478:C:H6	1.18	1.08
35:BF:50:GLU:HG3	35:BF:200:ILE:O	1.52	1.08
46:BQ:8:GLU:HG3	46:BQ:22:ILE:HG13	1.34	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:75:ARG:HG2	49:BT:80:PHE:HB3	1.30	1.08
51:BV:74:ARG:HG2	51:BV:81:PHE:HB3	1.26	1.08
57:BZ:220:VAL:CG2	57:BZ:279:LEU:HB2	1.80	1.08
1:AA:1780:A:H3'	1:AA:1781:C:H5'	1.35	1.08
1:AA:1827:C:H2'	1:AA:1828:G:O4'	1.53	1.08
1:AA:1907:G:H1	1:AA:1924:C:N4	0.82	1.08
1:AA:962:G:H2'	1:AA:963:U:C6	1.87	1.08
7:AG:68:PRO:HB3	7:AG:72:ARG:HH22	1.00	1.08
32:AJ:17:ALA:HA	32:AJ:41:PHE:HB2	1.23	1.08
32:AJ:84:LEU:HD12	32:AJ:86:LYS:HE3	1.30	1.08
9:AK:46:VAL:HG12	9:AK:47:ALA:H	0.98	1.08
12:AN:23:GLY:HA3	12:AN:101:ARG:HH21	0.99	1.08
16:AR:57:PHE:HA	16:AR:60:LEU:HG	1.34	1.08
34:BA:1315:U:O2'	34:BA:1360:A:C2'	1.77	1.08
34:BA:1486:G:O6	34:BA:1487:G:C5	1.94	1.08
36:BG:38:ARG:HH11	36:BG:38:ARG:HB3	0.94	1.08
57:BZ:495:LYS:HA	57:BZ:517:GLU:CA	1.79	1.08
1:AA:1083:U:C2	1:AA:1085:A:C8	2.42	1.08
1:AA:1902:C:C2'	1:AA:1903:G:H5'	1.83	1.08
3:AC:22:ILE:HG21	3:AC:190:ARG:NH2	1.67	1.08
4:AD:6:PHE:O	4:AD:27:THR:HA	1.53	1.08
24:AZ:4:LEU:HB3	24:AZ:37:LEU:HD23	1.28	1.08
34:BA:1311:G:O6	34:BA:1327:C:C5	2.05	1.08
37:BH:121:VAL:HB	37:BH:136:PRO:HG3	1.26	1.08
43:BN:94:VAL:HG12	43:BN:95:GLU:H	1.13	1.08
52:BW:10:PHE:N	52:BW:41:VAL:HG21	1.68	1.08
57:BZ:10:ILE:H	57:BZ:74:ASP:N	1.07	1.08
1:AA:1047:G:C2'	1:AA:1110:G:C8	2.31	1.08
2:AB:46:A:H2'	2:AB:47:C:C6	1.86	1.08
1:AA:2178:C:H5'	3:AC:46:LYS:HG2	1.12	1.08
4:AD:37:LEU:HD22	4:AD:64:ILE:HG22	1.10	1.08
5:AE:146:THR:HB	5:AE:147:PRO:HD3	1.30	1.08
12:AN:42:ILE:HD12	12:AN:47:ILE:HG13	1.29	1.08
16:AR:98:LEU:HD12	16:AR:105:VAL:HG21	1.34	1.08
52:BW:6:LYS:CB	52:BW:41:VAL:HG11	1.82	1.08
57:BZ:236:GLN:HG2	57:BZ:237:VAL:H	1.12	1.08
56:BD:51:U:O4	56:BD:64:A:N6	1.86	1.08
1:AA:2181:G:N3	1:AA:2182:G:N1	2.00	1.08
1:AA:2286:A:H4'	1:AA:2287:A:H1'	1.29	1.08
1:AA:2491:U:H6	1:AA:2491:U:H3'	0.98	1.08
1:AA:869:G:H2'	1:AA:870:A:H5''	1.11	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:917:A:H3'	1:AA:917:A:H8	1.18	1.08
6:AF:164:ARG:HB2	6:AF:177:ALA:HB2	1.30	1.08
7:AG:75:LYS:HG2	7:AG:84:LYS:HB2	1.27	1.08
12:AN:66:ILE:HG22	12:AN:67:ARG:H	0.92	1.08
18:AT:13:SER:OG	18:AT:14:PRO:HD2	1.50	1.08
34:BA:761:G:H5'	50:BU:102:GLY:HA3	1.30	1.08
34:BA:770:C:H1'	34:BA:900:A:H2	1.12	1.08
35:BF:56:ARG:HB3	35:BF:56:ARG:NH1	1.66	1.08
34:BA:986:A:C5'	52:BW:55:LYS:HZ1	1.67	1.08
57:BZ:27:GLN:H	57:BZ:28:GLN:CB	1.55	1.08
57:BZ:309:MET:CA	57:BZ:383:SER:OG	2.02	1.08
57:BZ:379:GLU:HB3	57:BZ:580:VAL:O	1.53	1.08
1:AA:1649:G:H21	13:AO:107:ASP:HB2	0.96	1.08
1:AA:323:G:H2'	6:AF:170:LEU:HB2	1.34	1.08
32:AJ:17:ALA:HA	32:AJ:41:PHE:HB3	1.34	1.08
10:AL:64:ARG:HH11	10:AL:67:LYS:N	1.50	1.08
21:AW:55:HIS:CB	21:AW:101:PRO:HG3	1.83	1.08
34:BA:50:A:H5''	34:BA:51:A:H5'	1.16	1.08
34:BA:559:A:C4'	34:BA:560:U:H5'	1.82	1.08
56:BE:21:A:C5	56:BE:46:G:C5	2.40	1.08
37:BH:50:ARG:HG2	37:BH:51:PRO:HD2	1.34	1.08
40:BK:155:ARG:HA	40:BK:155:ARG:CZ	1.82	1.08
34:BA:1329:A:O2'	46:BQ:70:LEU:HD22	1.53	1.08
52:BW:6:LYS:HB3	52:BW:41:VAL:CG1	1.82	1.08
57:BZ:206:GLN:O	57:BZ:227:LYS:HG2	1.50	1.08
57:BZ:402:ASN:HB3	57:BZ:441:TYR:O	1.51	1.08
1:AA:1255:U:H5'	1:AA:1256:G:C5'	1.82	1.08
32:AJ:12:LEU:CD1	32:AJ:41:PHE:CZ	2.37	1.08
22:AX:64:ASP:HB3	22:AX:84:LEU:HD13	1.36	1.08
41:BL:37:ARG:HD3	41:BL:41:ARG:HG3	1.26	1.08
51:BV:58:LEU:HB3	51:BV:62:GLU:CB	1.84	1.08
57:BZ:2:ILE:HG22	57:BZ:199:VAL:CG2	1.82	1.08
57:BZ:446:ARG:CG	57:BZ:480:VAL:HG12	1.82	1.08
57:BZ:547:ARG:HB3	57:BZ:548:ALA:HB2	1.10	1.08
1:AA:1819:A:H5''	4:AD:178:PRO:HG3	1.32	1.08
1:AA:2630:G:O2'	1:AA:2894:G:O5'	1.72	1.08
10:AL:39:ILE:HG12	10:AL:59:LYS:NZ	1.67	1.08
16:AR:105:VAL:O	16:AR:109:LEU:HG	1.53	1.08
34:BA:9:G:H5''	38:BI:126:ARG:HD3	1.29	1.08
34:BA:736:C:H5''	51:BV:72:ARG:HH22	1.11	1.08
51:BV:74:ARG:HB3	51:BV:81:PHE:HD2	1.10	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:122:LYS:NZ	57:BZ:156:GLU:HB3	1.61	1.08
57:BZ:310:PHE:O	57:BZ:383:SER:O	1.72	1.08
57:BZ:488:LEU:HD12	57:BZ:525:GLY:HA3	1.33	1.08
7:AG:148:MET:HG2	7:AG:151:ALA:CA	1.82	1.08
7:AG:68:PRO:HB3	7:AG:72:ARG:NH2	1.67	1.08
21:AW:55:HIS:HB3	21:AW:101:PRO:HG3	1.36	1.08
34:BA:1316:G:H5'	34:BA:1360:A:C4	1.88	1.08
35:BF:222:ILE:O	35:BF:226:ARG:HB2	1.53	1.08
48:BS:54:ARG:HA	48:BS:57:LEU:HD22	1.35	1.08
57:BZ:64:ILE:HG23	57:BZ:188:GLN:NE2	1.68	1.08
57:BZ:406:ASP:HA	57:BZ:407:VAL:HG22	1.28	1.08
1:AA:1048:A:H2	1:AA:1113:U:O4'	1.35	1.08
1:AA:2788:C:H42	1:AA:2789:C:N4	1.46	1.08
1:AA:820:A:H2'	1:AA:821:A:H5'	1.28	1.08
7:AG:107:LEU:O	7:AG:111:LEU:HB2	1.53	1.08
8:AH:43:VAL:HG22	8:AH:52:VAL:HA	1.11	1.08
32:AJ:34:ILE:HD13	32:AJ:35:MET:H	1.19	1.08
1:AA:663:G:H5'	11:AM:18:ARG:HB3	1.36	1.08
34:BA:1441:G:N2	34:BA:1460:A:H62	1.49	1.08
34:BA:815:A:H1'	34:BA:817:C:N4	1.68	1.08
1:AA:2181:G:H5'	55:BC:17:C:C4	1.88	1.08
35:BF:88:ALA:HB2	35:BF:219:VAL:HG22	1.13	1.08
46:BQ:81:LEU:HD23	46:BQ:89:GLY:HA3	1.13	1.08
46:BQ:27:LYS:HB3	54:BY:7:ARG:HH11	1.15	1.08
57:BZ:207:MET:HE3	57:BZ:224:GLY:CA	1.83	1.08
57:BZ:446:ARG:HG2	57:BZ:480:VAL:HG12	1.14	1.08
57:BZ:564:THR:H	57:BZ:567:GLN:HB3	0.93	1.08
7:AG:91:ARG:HB2	7:AG:91:ARG:HH21	1.05	1.08
1:AA:895:U:H4'	1:AA:896:A:H5'	1.15	1.07
6:AF:104:LYS:HG3	6:AF:108:LYS:HZ1	1.17	1.07
7:AG:41:GLN:HE22	7:AG:155:MET:HG3	1.06	1.07
32:AJ:112:MET:HG3	32:AJ:122:ALA:HB3	1.36	1.07
13:AO:88:ARG:HB2	13:AO:88:ARG:HH11	0.98	1.07
20:AV:47:LYS:HD3	20:AV:49:VAL:HG21	1.35	1.07
34:BA:781:A:H2'	34:BA:782:A:H5'	1.35	1.07
45:BP:86:ARG:HH12	45:BP:119:LYS:HG3	1.09	1.07
52:BW:9:VAL:CG1	52:BW:41:VAL:C	2.21	1.07
1:AA:811:U:O2'	1:AA:1251:C:H1'	1.53	1.07
1:AA:1535:U:H2'	1:AA:1536:A:O4'	1.51	1.07
1:AA:1613:G:H3'	1:AA:1614:A:H5'	1.32	1.07
1:AA:2058:A:H2'	1:AA:2059:A:C8	1.89	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2152:G:H5''	3:AC:2:LYS:HB2	1.08	1.07
1:AA:2252:G:C5	59:AA:3003:8AN:C6	2.31	1.07
1:AA:261:G:H4'	1:AA:608:A:H2	1.09	1.07
1:AA:861:A:H62	1:AA:916:G:N2	1.50	1.07
4:AD:169:GLU:HB3	4:AD:184:LYS:HZ1	1.14	1.07
6:AF:74:ARG:NE	6:AF:75:HIS:H	1.52	1.07
10:AL:62:VAL:O	10:AL:63:VAL:HG22	1.52	1.07
18:AT:16:LYS:N	18:AT:16:LYS:HZ2	1.51	1.07
34:BA:1309:G:N1	34:BA:1328:C:C4	2.23	1.07
34:BA:1504:G:OP1	34:BA:1507:A:H4'	1.53	1.07
56:BE:20:U:H3'	56:BE:21:A:H5''	1.16	1.07
57:BZ:236:GLN:CB	57:BZ:247:ARG:HA	1.83	1.07
31:AI:53:VAL:C	31:AI:85:ASP:CA	2.22	1.07
56:BD:64:A:H2'	56:BD:65:G:H8	1.15	1.07
31:AI:47:ASN:CB	31:AI:98:LYS:CB	2.31	1.07
1:AA:1114:G:N2	1:AA:1115:G:H1'	1.65	1.07
1:AA:976:C:H5'	1:AA:1156:A:H62	0.98	1.07
3:AC:21:THR:CB	3:AC:228:SER:HB3	1.84	1.07
1:AA:1657:C:H5'	5:AE:133:LYS:HD3	1.35	1.07
1:AA:2306:C:N3	7:AG:46:ALA:HB2	1.69	1.07
9:AK:23:LEU:CD1	9:AK:63:THR:H	1.68	1.07
12:AN:8:LYS:HE3	12:AN:93:TYR:HB3	1.34	1.07
1:AA:1083:U:C2	1:AA:1085:A:N7	2.22	1.07
1:AA:2808:U:O3'	1:AA:2810:A:OP1	1.70	1.07
4:AD:23:GLU:HB2	4:AD:205:VAL:HG12	1.35	1.07
34:BA:558:G:C3'	34:BA:559:A:H5''	1.85	1.07
55:BC:16:U:C4	55:BC:18:G:C3'	2.35	1.07
34:BA:1454:G:OP2	53:BX:39:LYS:HD2	1.43	1.07
57:BZ:446:ARG:HG2	57:BZ:480:VAL:HG11	1.13	1.07
1:AA:2556:C:C4	57:BZ:546:MET:HE1	1.88	1.07
1:AA:220:G:H4'	1:AA:234:C:H4'	1.28	1.07
1:AA:2808:U:H2'	1:AA:2809:A:H5''	1.35	1.07
2:AB:89(A):A:H2'	2:AB:90:C:H5'	1.08	1.07
1:AA:1566:A:C2	4:AD:215:LEU:HD13	1.88	1.07
9:AK:15:LEU:HD21	9:AK:137:LYS:CA	1.84	1.07
9:AK:46:VAL:HG12	9:AK:47:ALA:N	1.68	1.07
11:AM:63:PRO:HB2	11:AM:64:LYS:HE2	1.34	1.07
10:AL:122:LEU:N	15:AQ:70:VAL:HG12	1.67	1.07
34:BA:1311:G:N2	34:BA:1326:C:H1'	1.48	1.07
56:BE:73:A:H4'	56:BE:74:C:C2	1.89	1.07
34:BA:1125:U:H5''	43:BN:38:ILE:HD13	1.15	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:206:GLN:HG2	57:BZ:227:LYS:CG	1.83	1.07
57:BZ:234:ASN:ND2	57:BZ:247:ARG:CB	1.93	1.07
57:BZ:25:LEU:O	57:BZ:28:GLN:CG	2.02	1.07
57:BZ:400:TYR:CE1	57:BZ:444:PRO:N	2.22	1.07
57:BZ:560:PRO:HB3	57:BZ:562:ARG:CA	1.82	1.07
1:AA:112:U:H3'	1:AA:113:G:C5'	1.84	1.07
1:AA:1475:G:N1	1:AA:1477:A:N6	2.01	1.07
1:AA:2:G:C8	1:AA:2902:C:N3	2.22	1.07
1:AA:786:C:O2'	1:AA:787:U:H5'	1.54	1.07
12:AN:22:LYS:HD2	12:AN:99:PRO:HG3	1.35	1.07
34:BA:1268:A:C2	34:BA:1311:G:N3	2.21	1.07
37:BH:82:ALA:HB3	37:BH:89:THR:HG23	1.34	1.07
38:BI:144:THR:HG22	38:BI:146:ALA:H	1.11	1.07
41:BL:22:GLU:HA	41:BL:63:LEU:HD22	1.33	1.07
44:BO:32:ILE:HG22	44:BO:40:ILE:HD11	1.36	1.07
34:BA:1225:A:C5'	52:BW:78:ARG:CD	2.19	1.07
34:BA:1455:G:OP1	53:BX:31:SER:O	1.70	1.07
57:BZ:207:MET:CB	57:BZ:226:ILE:CD1	2.33	1.07
57:BZ:61:THR:HG22	57:BZ:65:LYS:HB3	1.35	1.07
1:AA:1047:G:H2'	1:AA:1110:G:N9	1.39	1.07
1:AA:1625:C:H2'	1:AA:1626:G:H4'	1.07	1.07
1:AA:2128:C:C5'	3:AC:35:ALA:CB	2.31	1.07
1:AA:2791:C:H2'	1:AA:2792:G:C8	1.89	1.07
2:AB:89:G:H2'	2:AB:89(A):A:C8	1.90	1.07
6:AF:119:ARG:NH2	6:AF:119:ARG:HB2	1.69	1.07
32:AJ:19:PRO:HG2	32:AJ:36:GLU:CA	1.84	1.07
32:AJ:23:VAL:CG2	32:AJ:41:PHE:CE1	2.15	1.07
10:AL:122:LEU:HA	15:AQ:74:ARG:HH12	1.10	1.07
16:AR:65:ILE:HD12	16:AR:96:ALA:HB2	1.35	1.07
20:AV:2:ARG:HD2	20:AV:3:VAL:H	1.19	1.07
34:BA:1117:G:C5	34:BA:1184:G:C6	2.43	1.07
38:BI:89:ILE:HG12	38:BI:131:ILE:HD12	1.36	1.07
41:BL:34:GLU:O	41:BL:37:ARG:HB3	1.53	1.07
34:BA:1118:C:OP1	42:BM:103:THR:CG2	2.02	1.07
48:BS:62:GLN:HE21	48:BS:66:LEU:HD21	1.09	1.07
57:BZ:2:ILE:CG1	57:BZ:266:ASP:OD2	2.01	1.07
57:BZ:378:PHE:N	57:BZ:582:PRO:HG3	1.69	1.07
1:AA:2789:C:O2'	1:AA:2791:C:C5'	2.03	1.07
1:AA:477:A:H62	1:AA:502:A:N6	1.53	1.07
32:AJ:19:PRO:HG2	32:AJ:36:GLU:HA	1.10	1.07
21:AW:100:VAL:HG21	21:AW:137:ILE:HD12	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:13:ILE:HG23	24:AZ:14:GLY:H	1.14	1.07
34:BA:1112:C:H1'	36:BG:179:ARG:NH2	1.68	1.07
34:BA:1315:U:O2'	34:BA:1360:A:H2'	1.32	1.07
1:AA:2602:A:N1	56:BD:74:C:H2'	1.68	1.07
57:BZ:244:GLY:HA2	57:BZ:245:LYS:HG2	1.35	1.07
57:BZ:27:GLN:HG3	57:BZ:28:GLN:HE21	1.20	1.07
57:BZ:400:TYR:CE1	57:BZ:444:PRO:CD	2.36	1.07
57:BZ:485:ASN:HA	57:BZ:529:ARG:O	1.54	1.07
57:BZ:382:VAL:CG2	57:BZ:578:VAL:HB	1.84	1.07
1:AA:2532:G:H4'	1:AA:2657:A:N1	1.61	1.07
1:AA:2556:C:H4'	57:BZ:550:GLY:O	1.53	1.07
1:AA:2506:U:C6	59:AA:3002:8AN:C3'	2.38	1.07
3:AC:163:PHE:HZ	3:AC:192:PHE:HA	0.98	1.07
3:AC:45:ALA:CA	3:AC:213:TYR:HD1	1.61	1.07
7:AG:53:LEU:HG	7:AG:72:ARG:HD2	1.12	1.07
34:BA:1242:C:O2'	34:BA:1303:C:H5''	1.55	1.07
34:BA:1339:A:H4'	56:BE:41:C:H4'	1.30	1.07
46:BQ:15:VAL:HG11	46:BQ:37:THR:HG21	1.35	1.07
48:BS:16:ALA:HB1	48:BS:21:ASP:HB3	1.34	1.07
1:AA:2660:A:C2	57:BZ:456:MET:CB	2.37	1.07
1:AA:172:C:C5	1:AA:173:G:N7	2.22	1.07
1:AA:2123:G:C4'	3:AC:172:HIS:CB	2.31	1.07
1:AA:2630:G:C4	1:AA:2894:G:N7	1.74	1.07
1:AA:364:C:H2'	1:AA:365:C:C5	1.90	1.07
1:AA:861:A:N6	1:AA:916:G:H21	1.53	1.07
15:AQ:64:ARG:CA	15:AQ:64:ARG:HH11	1.67	1.07
17:AS:17:GLY:HA3	17:AS:19:LYS:NZ	1.70	1.07
18:AT:11:ARG:HB2	18:AT:98:LYS:HE3	1.30	1.07
34:BA:1116:C:O2	34:BA:1184:G:N1	1.86	1.07
56:BE:2:C:C5	56:BE:70:G:C6	2.42	1.07
36:BG:150:LYS:HB2	36:BG:173:VAL:HG21	1.33	1.07
42:BM:55:ALA:HB1	42:BM:58:HIS:CE1	1.90	1.07
34:BA:43:C:H5''	49:BT:12:LYS:HB3	1.09	1.07
49:BT:20:VAL:HG22	49:BT:35:LYS:HA	1.37	1.07
57:BZ:167:ALA:HB2	60:BZ:701:GCP:N1	1.70	1.07
57:BZ:69:ARG:NH1	57:BZ:253:LYS:HZ2	1.51	1.07
57:BZ:396:LYS:CB	57:BZ:474:ASP:C	2.22	1.07
57:BZ:543:LEU:HG	57:BZ:544:THR:HG23	1.32	1.07
1:AA:1204:A:OP2	1:AA:1204:A:O4'	1.73	1.06
1:AA:1203:G:C5	1:AA:1241:A:H8	1.73	1.06
1:AA:2243:U:H2'	1:AA:2244:U:H6	1.12	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2832:U:H1'	1:AA:2834:G:H21	1.13	1.06
1:AA:2848:G:H22	1:AA:2867:G:H1'	1.12	1.06
1:AA:684:G:H2'	1:AA:687:C:N4	1.69	1.06
3:AC:171:ILE:HD12	3:AC:192:PHE:HZ	1.10	1.06
11:AM:114:ILE:HD13	11:AM:129:ALA:O	1.54	1.06
14:AP:20:ARG:NH2	14:AP:20:ARG:HB3	1.70	1.06
15:AQ:100:TYR:HA	15:AQ:102:ILE:HD13	1.35	1.06
34:BA:1311:G:C4	34:BA:1327:C:N1	1.99	1.06
56:BE:21:A:N6	56:BE:46:G:N3	2.00	1.06
39:BJ:6:VAL:HG22	39:BJ:8:ILE:HD11	1.33	1.06
53:BX:62:LEU:HA	53:BX:65:LYS:HG2	1.34	1.06
57:BZ:64:ILE:CD1	57:BZ:187:TYR:HB3	1.83	1.06
57:BZ:378:PHE:H	57:BZ:582:PRO:HG3	1.09	1.06
6:AF:110:LEU:HA	6:AF:183:VAL:HG22	1.35	1.06
32:AJ:99:ILE:HG22	32:AJ:103:GLN:OE1	1.54	1.06
13:AO:86:ARG:HB3	13:AO:86:ARG:HH11	1.09	1.06
14:AP:63:THR:O	14:AP:66:ALA:HB3	1.54	1.06
21:AW:10:ARG:HB3	21:AW:36:LYS:HD2	1.36	1.06
39:BJ:12:PRO:HB3	39:BJ:58:GLY:HA2	1.31	1.06
44:BO:48:ILE:HD12	44:BO:63:LEU:HD22	1.31	1.06
57:BZ:240:ILE:CG1	57:BZ:286:ASP:HB3	1.79	1.06
1:AA:1105:U:C3'	1:AA:1107:G:N7	2.18	1.06
1:AA:2649:U:H2'	1:AA:2650:U:C6	1.91	1.06
1:AA:2808:U:C6	1:AA:2892:A:N6	2.24	1.06
3:AC:213:TYR:HB3	3:AC:223:ARG:HA	1.33	1.06
1:AA:443:A:H5'	6:AF:45:ARG:NH1	1.69	1.06
1:AA:1059:G:C2'	32:AJ:75:SER:H	1.66	1.06
15:AQ:52:ILE:HA	15:AQ:66:VAL:HG13	1.35	1.06
34:BA:50:A:N6	34:BA:361:G:H4'	1.70	1.06
34:BA:959:A:H3'	34:BA:960:U:H5''	1.36	1.06
46:BQ:91:ARG:HD3	46:BQ:98:VAL:O	1.54	1.06
53:BX:12:ALA:H	53:BX:13:LEU:HD12	1.10	1.06
53:BX:33:ILE:HD13	53:BX:63:ILE:HA	1.34	1.06
57:BZ:395:ARG:HG3	57:BZ:474:ASP:HB3	1.07	1.06
57:BZ:400:TYR:HD1	57:BZ:443:ILE:C	1.58	1.06
57:BZ:379:GLU:HG2	57:BZ:581:THR:CG2	1.81	1.06
1:AA:1054:A:H2'	1:AA:1055:G:C8	1.90	1.06
1:AA:2296:U:H1'	1:AA:2335:A:H61	1.15	1.06
1:AA:326:G:H2'	1:AA:327:G:H8	1.20	1.06
32:AJ:10:LEU:HD22	32:AJ:27:LEU:HD21	1.07	1.06
1:AA:1275:A:H2	13:AO:16:HIS:HA	1.11	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:77:ARG:HH12	48:BS:81:LEU:HB2	1.08	1.06
57:BZ:127:ILE:HB	57:BZ:164:TYR:HA	1.35	1.06
1:AA:1668:A:N1	1:AA:1993:U:H1'	1.69	1.06
1:AA:2507:C:H5''	1:AA:2573:C:H41	1.20	1.06
4:AD:196:VAL:HG12	4:AD:197:GLY:N	1.66	1.06
4:AD:44:ASN:HB2	4:AD:217:ARG:HH22	1.15	1.06
31:AI:152:VAL:CA	31:AI:155:GLY:HA3	1.83	1.06
11:AM:75:ILE:HG22	11:AM:115:LEU:HD11	1.35	1.06
12:AN:6:ARG:HB2	12:AN:44:ALA:HB1	1.36	1.06
16:AR:70:ARG:HG2	16:AR:75:ASN:HA	1.35	1.06
34:BA:1113:C:H2'	34:BA:1114:C:C6	1.90	1.06
36:BG:182:ILE:HA	36:BG:204:LEU:HG	1.37	1.06
38:BI:31:LEU:HD12	38:BI:129:ILE:HG23	1.28	1.06
46:BQ:22:ILE:HB	46:BQ:25:ILE:HD11	1.12	1.06
54:BY:10:ARG:O	54:BY:13:ILE:HG22	1.55	1.06
57:BZ:11:ILE:CG2	57:BZ:112:VAL:CB	2.13	1.06
57:BZ:400:TYR:CZ	57:BZ:444:PRO:HB3	1.91	1.06
57:BZ:488:LEU:HG	57:BZ:525:GLY:O	1.56	1.06
1:AA:858:U:O2'	1:AA:2268:A:H2'	1.53	1.06
1:AA:2581:G:H1	1:AA:2610:C:H2'	0.97	1.06
1:AA:484:C:H2'	1:AA:485:C:C6	1.91	1.06
5:AE:45:THR:HB	5:AE:81:ILE:HA	1.09	1.06
11:AM:107:LYS:HE2	11:AM:110:TYR:HD1	1.20	1.06
12:AN:124:LYS:HZ2	12:AN:124:LYS:HB3	0.97	1.06
17:AS:14:VAL:HG11	17:AS:19:LYS:HG3	1.26	1.06
38:BI:78:HIS:HB3	41:BL:107:LEU:HD21	1.31	1.06
46:BQ:10:PRO:HG2	46:BQ:45:VAL:CG1	1.83	1.06
47:BR:16:PHE:HE1	52:BW:14:HIS:NE2	1.36	1.06
51:BV:46:GLU:HB3	51:BV:85:LEU:HD13	1.37	1.06
57:BZ:171:ILE:N	57:BZ:179:MET:HG3	1.70	1.06
57:BZ:6:ARG:N	57:BZ:69:ARG:HB2	1.69	1.06
57:BZ:87:ARG:HD3	57:BZ:343:VAL:HG21	1.31	1.06
57:BZ:41:ARG:HA	57:BZ:42:VAL:CG1	1.84	1.06
1:AA:1029:A:H2'	1:AA:1030:G:O4'	1.54	1.06
1:AA:2025:C:H2'	1:AA:2026:C:C6	1.90	1.06
1:AA:2576:G:H4'	1:AA:2577:A:H5'	1.07	1.06
1:AA:729:G:C2'	1:AA:730:C:H4'	1.84	1.06
34:BA:611:A:N6	34:BA:629:G:H1	1.53	1.06
46:BQ:91:ARG:CD	46:BQ:98:VAL:O	2.03	1.06
53:BX:43:LEU:HD12	53:BX:55:ILE:HD11	1.37	1.06
57:BZ:325:PHE:O	57:BZ:378:PHE:HD1	1.24	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1051:G:O2'	1:AA:2752:C:H5'	1.42	1.06
1:AA:729:G:H2'	1:AA:730:C:C4'	1.84	1.06
3:AC:97:GLU:HA	3:AC:100:ILE:HD12	1.30	1.06
1:AA:2659:G:P	8:AH:158:HIS:NE2	2.28	1.06
32:AJ:104:VAL:HG11	32:AJ:127:ILE:CG2	1.86	1.06
16:AR:50:ARG:HB2	16:AR:50:ARG:NH1	1.69	1.06
2:AB:12:C:C6	22:AX:74:ARG:HB2	1.91	1.06
34:BA:1317:C:O2	34:BA:1318:A:O4'	1.73	1.06
34:BA:1310:G:N1	34:BA:1327:C:C4	1.98	1.06
56:BE:2:C:H2'	56:BE:70:G:H22	1.13	1.06
36:BG:38:ARG:HB3	36:BG:38:ARG:NH1	1.70	1.06
57:BZ:13:HIS:CG	57:BZ:108:GLN:CG	2.39	1.06
57:BZ:446:ARG:CG	57:BZ:480:VAL:HG11	1.79	1.06
1:AA:1914:C:N3	1:AA:1915:U:C5	2.21	1.06
1:AA:1105:U:H4'	1:AA:1106:G:C5'	1.85	1.06
1:AA:1804:C:H4'	4:AD:250:TRP:HH2	1.12	1.06
1:AA:215:G:H4'	1:AA:216:A:O5'	1.53	1.06
1:AA:828:U:H2'	1:AA:829:A:C8	1.91	1.06
4:AD:63:ARG:NH1	4:AD:85:ASP:HB2	1.70	1.06
5:AE:173:VAL:CG1	5:AE:184:VAL:HA	1.86	1.06
6:AF:157:VAL:HA	6:AF:176:LEU:O	1.54	1.06
9:AK:28:THR:O	9:AK:31:ALA:HB3	1.53	1.06
46:BQ:11:ARG:O	46:BQ:44:ARG:O	1.74	1.06
57:BZ:578:VAL:HG13	57:BZ:587:ILE:HG12	1.32	1.06
1:AA:1186:G:H3'	1:AA:1187:G:H8	1.12	1.06
1:AA:1241:A:N3	1:AA:1241:A:C5'	2.18	1.06
1:AA:1351:C:H2'	1:AA:1352:U:H6	1.12	1.06
1:AA:2181:G:C2	1:AA:2182:G:N1	2.24	1.06
1:AA:1051:G:H1'	1:AA:2752:C:OP2	0.90	1.06
1:AA:2790:A:H4'	1:AA:2893:G:N2	1.70	1.06
1:AA:783:A:H2'	1:AA:784:A:H4'	1.34	1.06
46:BQ:23:TYR:CD2	46:BQ:67:GLU:HA	1.91	1.06
46:BQ:23:TYR:HD2	46:BQ:67:GLU:HA	1.14	1.06
1:AA:1024:G:C5'	1:AA:1025:G:H5''	1.86	1.05
1:AA:2175:C:OP1	3:AC:7:TYR:CD1	2.07	1.05
1:AA:685:A:H5''	1:AA:686:G:N2	1.70	1.05
13:AO:98:LEU:O	13:AO:112:ALA:HB1	1.54	1.05
21:AW:145:GLU:N	21:AW:174:VAL:HG21	1.71	1.05
34:BA:1151:A:N7	34:BA:1152:A:N7	2.03	1.05
56:BE:3:C:N3	56:BE:70:G:H1'	1.70	1.05
36:BG:91:LEU:HD21	36:BG:98:ASN:HA	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:42:ARG:HB3	42:BM:74:ILE:HD13	1.33	1.05
46:BQ:15:VAL:CB	46:BQ:39:ILE:HD12	1.71	1.05
47:BR:45:ARG:HH11	47:BR:45:ARG:HB2	1.17	1.05
34:BA:1453:G:H2'	53:BX:36:LEU:HD13	1.34	1.05
57:BZ:19:THR:HB	57:BZ:22:VAL:HG22	1.32	1.05
57:BZ:11:ILE:HD11	57:BZ:95:VAL:CB	1.86	1.05
1:AA:1054:A:N1	1:AA:1106:G:N1	1.73	1.05
1:AA:2544:G:H5'	1:AA:2645:G:N7	1.71	1.05
17:AS:65:GLY:O	17:AS:66:ARG:HG2	1.56	1.05
34:BA:1153:C:H2'	34:BA:1154:G:C8	1.90	1.05
34:BA:1221:G:C8	52:BW:54:GLY:O	1.89	1.05
34:BA:1277:C:H4'	34:BA:1282:C:H1'	1.36	1.05
48:BS:71:GLN:HG3	48:BS:75:PRO:HB3	1.32	1.05
57:BZ:308:SER:OG	57:BZ:357:ARG:HG3	1.54	1.05
1:AA:2058:A:H2'	1:AA:2059:A:H8	1.16	1.05
1:AA:2681:C:O2'	1:AA:2682:U:H5'	1.56	1.05
1:AA:977:G:H2'	1:AA:978:G:O4'	1.55	1.05
4:AD:105:ILE:HD12	4:AD:106:ILE:H	1.21	1.05
4:AD:133:LEU:HB3	4:AD:136:ILE:HD11	1.38	1.05
5:AE:51:PHE:O	5:AE:74:PRO:HB3	1.53	1.05
32:AJ:12:LEU:HG	32:AJ:57:ILE:HG23	1.39	1.05
17:AS:61:VAL:O	17:AS:99:ILE:HB	1.55	1.05
34:BA:1308:U:H2'	34:BA:1309:G:OP1	1.25	1.05
57:BZ:236:GLN:HA	57:BZ:247:ARG:HA	1.06	1.05
57:BZ:565:LEU:HB2	57:BZ:566:GLU:OE2	1.56	1.05
1:AA:2507:C:H4'	56:BD:75:C:O2	1.45	1.05
1:AA:2788:C:N4	1:AA:2789:C:H41	1.47	1.05
1:AA:296:C:H2'	1:AA:297:C:H6	1.19	1.05
5:AE:8:LYS:HD3	5:AE:9:VAL:HG22	1.36	1.05
12:AN:42:ILE:HD11	12:AN:46:GLN:HB3	1.38	1.05
22:AX:37:LEU:CD1	22:AX:59:LEU:HB3	1.86	1.05
34:BA:1270:C:O3'	34:BA:1314:C:C5'	2.04	1.05
34:BA:770:C:H1'	34:BA:900:A:C2	1.91	1.05
55:BC:16:U:H3'	55:BC:17:C:H5'	1.37	1.05
57:BZ:207:MET:HG2	57:BZ:226:ILE:HD13	1.29	1.05
57:BZ:398:GLU:HA	57:BZ:472:TYR:CD1	1.90	1.05
57:BZ:560:PRO:HA	57:BZ:561:ILE:HB	1.32	1.05
1:AA:1914:C:C2	1:AA:1915:U:C5	2.44	1.05
1:AA:1203:G:H2'	1:AA:1203:G:N3	1.60	1.05
1:AA:1324:G:H3'	1:AA:1325:G:H4'	1.35	1.05
1:AA:2025:C:H5'	9:AK:78:TYR:OH	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2788:C:C4	1:AA:2789:C:N4	2.23	1.05
22:AX:46:LYS:HG3	22:AX:78:TYR:CE2	1.90	1.05
34:BA:1302:U:OP2	46:BQ:21:TYR:HE2	1.36	1.05
34:BA:373:A:H1'	34:BA:481:G:H1'	1.35	1.05
56:BE:16:U:N3	56:BE:59:U:C2	2.25	1.05
37:BH:74:GLN:HA	37:BH:77:ASN:HD22	1.13	1.05
39:BJ:30:LEU:HA	39:BJ:75:LEU:HD11	1.37	1.05
50:BU:43:LEU:HD22	50:BU:44:ALA:N	1.71	1.05
4:AD:244:ARG:H	4:AD:245:PRO:HD3	1.16	1.05
12:AN:66:ILE:HG22	12:AN:67:ARG:N	1.69	1.05
1:AA:2387:U:H1'	22:AX:41:ARG:NH2	1.70	1.05
51:BV:21:LYS:HZ1	51:BV:23:LYS:HB3	1.15	1.05
52:BW:32:LYS:CA	52:BW:50:ALA:HB3	1.86	1.05
57:BZ:322:GLU:OE2	57:BZ:581:THR:HG21	1.55	1.05
56:BD:5:G:N1	56:BD:69:G:N7	2.04	1.05
1:AA:2709:G:H2'	1:AA:2710:C:H5'	1.34	1.05
2:AB:76:G:OP2	21:AW:11:GLU:HA	1.55	1.05
1:AA:1081:U:H5''	32:AJ:125:ARG:HD3	1.12	1.05
12:AN:83:MET:SD	12:AN:83:MET:N	2.26	1.05
13:AO:20:LEU:HD21	13:AO:24:GLN:HG3	1.35	1.05
13:AO:83:ILE:HA	13:AO:86:ARG:HG3	1.34	1.05
17:AS:36:PRO:HA	17:AS:60:GLU:O	1.55	1.05
17:AS:43:GLU:H	17:AS:44:LYS:NZ	1.53	1.05
41:BL:10:LEU:O	41:BL:13:ILE:HB	1.56	1.05
50:BU:4:LYS:HD2	50:BU:5:VAL:H	1.18	1.05
57:BZ:11:ILE:HG23	57:BZ:112:VAL:HG11	1.33	1.05
57:BZ:512:LEU:HD23	57:BZ:518:VAL:CG1	1.87	1.05
57:BZ:55:THR:O	57:BZ:56:ILE:CD1	2.05	1.05
1:AA:1063:G:N7	1:AA:1064:C:C5	2.24	1.05
32:AJ:78:ILE:HG23	32:AJ:122:ALA:O	1.54	1.05
12:AN:26:TYR:N	12:AN:102:VAL:HB	1.71	1.05
1:AA:1252:G:H22	16:AR:37:GLU:HG3	1.22	1.05
18:AT:17:VAL:O	18:AT:20:VAL:HG12	1.53	1.05
1:AA:1961:C:OP1	34:BA:1484:C:O2'	1.73	1.05
46:BQ:20:THR:CA	46:BQ:26:GLY:N	2.20	1.05
51:BV:62:GLU:O	51:BV:66:LEU:HG	1.56	1.05
52:BW:15:LEU:HD13	52:BW:71:LEU:CD1	1.80	1.05
56:BD:1:G:N2	56:BD:72:C:C2	2.25	1.05
56:BD:64:A:H2'	56:BD:65:G:C8	1.90	1.05
55:BC:34:G:H2'	55:BC:35:A:H5'	1.39	1.05
1:AA:1095:A:O4'	57:BZ:416:MET:HE1	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1037:G:C2	1:AA:1119:C:C2	2.44	1.05
1:AA:1144:G:H2'	1:AA:1145:C:C6	1.92	1.05
1:AA:1902:C:H2'	1:AA:1903:G:H5'	1.06	1.05
1:AA:2651:C:O2	1:AA:2670:A:N1	1.90	1.05
1:AA:911:A:H8	1:AA:2264:C:H1'	1.08	1.05
4:AD:76:PRO:O	4:AD:98:VAL:HG23	1.57	1.05
34:BA:1004:A:H3'	34:BA:1025:U:N3	1.71	1.05
34:BA:1128:C:O3'	42:BM:16:ARG:NH2	1.89	1.05
34:BA:1506:U:H5''	34:BA:1507:A:OP2	1.53	1.05
34:BA:946:A:H2'	34:BA:947:G:C8	1.92	1.05
35:BF:55:PHE:HA	35:BF:58:ILE:HD12	1.35	1.05
37:BH:133:VAL:HG11	37:BH:138:TYR:HD1	1.21	1.05
37:BH:93:PHE:HA	37:BH:96:LEU:HD12	1.39	1.05
48:BS:62:GLN:HA	48:BS:65:ARG:NH2	1.72	1.05
57:BZ:73:VAL:CG2	57:BZ:88:VAL:HG11	1.87	1.05
57:BZ:73:VAL:HG11	57:BZ:88:VAL:HG22	1.34	1.05
1:AA:1906:G:C2	1:AA:1929:G:O6	2.10	1.05
1:AA:2431:U:C2'	1:AA:2432:A:H5''	1.87	1.05
1:AA:2447:G:O3'	1:AA:2499:C:P	2.14	1.05
1:AA:2471:C:H5''	57:BZ:529:ARG:HH12	1.19	1.05
1:AA:2746:U:O4	1:AA:2756:U:C5	2.09	1.05
1:AA:2792:G:N2	1:AA:2803:C:N3	2.03	1.05
1:AA:785:G:H2'	1:AA:786:C:H6	1.22	1.05
16:AR:83:LEU:O	16:AR:86:ALA:HB3	1.55	1.05
19:AU:92:LEU:O	19:AU:95:LEU:HB2	1.56	1.05
34:BA:765:G:O2'	34:BA:766:A:H5'	1.56	1.05
42:BM:127:LYS:HG3	56:BE:31:A:OP1	1.57	1.05
37:BH:12:CYS:HA	37:BH:19:LEU:HB2	1.36	1.05
34:BA:551:U:H5'	45:BP:119:LYS:NZ	1.71	1.05
47:BR:29:ARG:HB3	47:BR:29:ARG:HH11	1.22	1.05
34:BA:1220:G:OP1	52:BW:34:TRP:HB3	1.56	1.05
34:BA:1455:G:H5''	53:BX:31:SER:OG	1.57	1.05
57:BZ:22:VAL:HG11	57:BZ:74:ASP:OD1	1.54	1.05
57:BZ:248:ASN:HD21	57:BZ:273:ILE:HG13	0.92	1.05
57:BZ:5:LEU:HB2	57:BZ:268:ALA:HB1	1.38	1.05
57:BZ:28:GLN:O	57:BZ:60:ASN:CG	1.95	1.05
18:AT:56:ALA:O	18:AT:60:ASN:HB3	1.54	1.05
2:AB:102:G:H2'	21:AW:73:GLN:HE21	1.20	1.04
4:AD:87:ASN:N	4:AD:87:ASN:HD22	1.53	1.04
34:BA:1315:U:C1'	34:BA:1360:A:H2'	1.87	1.04
34:BA:559:A:H4'	34:BA:560:U:C5'	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:209:ARG:HH12	35:BF:213:LEU:HD12	1.19	1.04
37:BH:107:ARG:HA	37:BH:107:ARG:HH11	1.18	1.04
57:BZ:405:LEU:HD12	57:BZ:464:LEU:HD22	1.31	1.04
1:AA:1841:U:H2'	1:AA:1842:G:H8	1.22	1.04
3:AC:64:LEU:HD12	3:AC:188:ASN:HD22	1.19	1.04
6:AF:119:ARG:HB2	6:AF:119:ARG:HH21	1.21	1.04
6:AF:6:VAL:HA	6:AF:20:LEU:HD21	1.34	1.04
12:AN:42:ILE:HG22	12:AN:95:ALA:HB3	1.39	1.04
24:AZ:50:VAL:HG13	24:AZ:53:LEU:HD12	1.39	1.04
34:BA:1311:G:C5	34:BA:1327:C:C6	2.45	1.04
55:BC:16:U:O4	55:BC:18:G:H2'	1.53	1.04
57:BZ:205:PHE:CE1	57:BZ:226:ILE:HD12	1.90	1.04
1:AA:2125:G:H5''	3:AC:40:THR:CG2	1.84	1.04
6:AF:6:VAL:HA	6:AF:20:LEU:CD2	1.87	1.04
15:AQ:48:ILE:HD13	15:AQ:50:ILE:HD13	1.35	1.04
21:AW:165:VAL:HG12	21:AW:166:SER:H	1.18	1.04
34:BA:1229:A:H5'	56:BE:29:G:H5''	1.38	1.04
46:BQ:87:TYR:OH	52:BW:75:ALA:C	1.94	1.04
49:BT:18:ARG:HH12	49:BT:35:LYS:CB	1.70	1.04
51:BV:33:ASP:CG	51:BV:34:TYR:H	1.57	1.04
34:BA:1453:G:C2'	53:BX:36:LEU:HD13	1.87	1.04
1:AA:1042:G:C6	1:AA:1113:U:O4	2.10	1.04
1:AA:1909:C:O2	1:AA:1922:G:N2	1.90	1.04
1:AA:2124:G:H4'	3:AC:42:GLU:CG	1.69	1.04
1:AA:234:C:H42	1:AA:430:G:H22	1.05	1.04
1:AA:251:A:H2'	1:AA:252:G:O4'	1.55	1.04
1:AA:6:A:H2	1:AA:2897:U:H2'	1.22	1.04
1:AA:712:G:H2'	1:AA:713:G:C8	1.91	1.04
1:AA:893:C:C6	1:AA:894:C:C5	2.46	1.04
3:AC:115:ALA:HB3	3:AC:120:MET:SD	1.97	1.04
34:BA:1117:G:N2	34:BA:1184:G:C1'	2.21	1.04
34:BA:37:U:H3'	34:BA:37:U:H6	1.21	1.04
34:BA:571:U:H3'	34:BA:572:A:H5''	1.05	1.04
56:BE:5:G:H1'	56:BE:7:A:H5''	1.39	1.04
40:BK:35:LYS:NZ	40:BK:38:LEU:HD22	1.73	1.04
1:AA:1036:G:N1	1:AA:1120:G:O6	1.86	1.04
1:AA:1475:G:H21	1:AA:1476:C:H5''	1.23	1.04
1:AA:196:A:N1	1:AA:828:U:H5''	1.72	1.04
1:AA:1995:U:H5''	1:AA:1996:C:C5'	1.85	1.04
1:AA:2461:C:H1'	1:AA:2492:U:C5	1.92	1.04
1:AA:893:C:H2'	1:AA:894:C:H6	1.20	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:216:GLY:O	4:AD:217:ARG:HB3	1.58	1.04
9:AK:66:LYS:HA	9:AK:87:LEU:HD11	1.36	1.04
10:AL:18:LYS:HB3	10:AL:45:GLU:HG3	1.38	1.04
34:BA:1316:G:C4'	34:BA:1360:A:C6	2.41	1.04
45:BP:24:VAL:HG23	45:BP:97:ARG:HG2	1.38	1.04
1:AA:1105:U:C4	1:AA:1107:G:O6	2.11	1.04
1:AA:1762:A:C8	1:AA:1762:A:H3'	1.92	1.04
1:AA:6:A:C6	1:AA:2897:U:N3	2.26	1.04
4:AD:5:LYS:HZ3	4:AD:31:LYS:NZ	1.53	1.04
6:AF:130:ALA:HB3	6:AF:142:TRP:HB2	1.05	1.04
1:AA:1046:A:N6	31:AI:9:LEU:N	2.06	1.04
9:AK:4:TYR:HB2	16:AR:64:ARG:HH12	1.19	1.04
13:AO:46:GLY:O	13:AO:49:ASP:HB3	1.58	1.04
34:BA:47:C:H4'	34:BA:48:C:H5''	1.30	1.04
34:BA:792:A:H2'	34:BA:794:A:H62	1.18	1.04
34:BA:978:A:N6	34:BA:1361:G:H22	1.54	1.04
1:AA:2181:G:H5''	55:BC:17:C:H41	1.21	1.04
45:BP:93:LEU:HD12	45:BP:96:VAL:HG21	1.35	1.04
49:BT:49:LEU:HD11	49:BT:51:VAL:HG22	1.33	1.04
57:BZ:123:PRO:HD2	57:BZ:156:GLU:OE1	1.56	1.04
1:AA:1044:G:N3	31:AI:6:ASN:HA	1.69	1.04
1:AA:1105:U:C4	1:AA:1107:G:C6	2.46	1.04
1:AA:1965:C:H3'	1:AA:1966:A:C8	1.93	1.04
1:AA:2659:G:C1'	1:AA:2663:G:H22	1.69	1.04
3:AC:43:VAL:CG1	3:AC:224:ILE:CD1	2.36	1.04
9:AK:26:LEU:HG	9:AK:30:ILE:HD11	1.38	1.04
10:AL:64:ARG:NH1	10:AL:67:LYS:H	1.55	1.04
11:AM:23:PRO:HB2	11:AM:28:GLY:HA2	1.35	1.04
14:AP:106:ARG:NH1	14:AP:110:LEU:HB2	1.73	1.04
16:AR:76:TYR:CD2	16:AR:80:ILE:HD11	1.92	1.04
21:AW:152:ALA:HA	21:AW:155:LEU:HD13	1.38	1.04
24:AZ:26:LEU:HD23	24:AZ:28:LEU:HD11	1.40	1.04
35:BF:213:LEU:HD22	35:BF:214:ILE:HD13	1.29	1.04
42:BM:97:LYS:HZ1	42:BM:102:LEU:HD13	1.14	1.04
57:BZ:91:MET:HE1	57:BZ:268:ALA:O	1.57	1.04
4:AD:61:LEU:HD22	4:AD:63:ARG:NH2	1.73	1.04
5:AE:91:VAL:HG21	5:AE:93:VAL:HG13	1.38	1.04
7:AG:49:ASP:HA	7:AG:53:LEU:HD22	1.39	1.04
12:AN:66:ILE:CG2	12:AN:67:ARG:H	1.68	1.04
34:BA:1116:C:O2	34:BA:1184:G:C2	2.11	1.04
41:BL:64:LYS:HG2	41:BL:79:VAL:HG21	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:50:TYR:HB3	44:BO:55:LYS:HG2	1.40	1.04
46:BQ:8:GLU:OE2	46:BQ:21:TYR:HB3	1.57	1.04
57:BZ:502:PHE:CZ	57:BZ:556:VAL:O	2.09	1.04
1:AA:2506:U:C3'	59:AA:3002:8AN:N3'	2.17	1.04
1:AA:901:A:C6	1:AA:902:C:N3	2.26	1.04
1:AA:903:C:H2'	1:AA:904:C:C6	1.92	1.04
5:AE:127:ASP:HB2	5:AE:135:HIS:HA	1.35	1.04
9:AK:53:VAL:HA	9:AK:121:LYS:O	1.58	1.04
10:AL:19:ILE:HG22	10:AL:43:VAL:HA	1.34	1.04
21:AW:98:MET:HG3	21:AW:133:ILE:HG21	1.35	1.04
56:BE:4:C:C4	56:BE:6:G:N7	2.26	1.04
34:BA:1454:G:OP2	53:BX:39:LYS:HD3	1.57	1.04
57:BZ:64:ILE:HD11	57:BZ:187:TYR:HB2	1.34	1.04
1:AA:1182:A:H3'	1:AA:1183:G:H3'	1.39	1.04
1:AA:764:A:H62	1:AA:1776:G:H1'	1.18	1.04
1:AA:2122:U:H4'	3:AC:166:ASP:HB3	1.39	1.04
1:AA:308:G:C2	1:AA:309:G:H1'	1.92	1.04
3:AC:87:GLU:HG3	3:AC:94:VAL:HG21	1.36	1.04
5:AE:136:ARG:C	5:AE:137:HIS:HD1	1.61	1.04
15:AQ:18:ASP:HB3	15:AQ:81:PRO:HA	1.35	1.04
17:AS:40:LEU:HA	17:AS:54:GLY:HA3	1.39	1.04
34:BA:1447:G:N2	34:BA:1459:C:O2	1.91	1.04
58:BA:1601:NMY:O16	58:BA:1601:NMY:N2	1.88	1.04
34:BA:355:C:H1'	34:BA:388:G:H2'	1.40	1.04
34:BA:571:U:C3'	34:BA:572:A:H5''	1.87	1.04
34:BA:754:C:H5'	34:BA:755:G:C8	1.93	1.04
36:BG:122:GLU:HA	36:BG:125:GLU:HG2	1.36	1.04
36:BG:33:LEU:HD11	47:BR:54:PRO:HD2	1.39	1.04
57:BZ:12:ALA:O	57:BZ:109:THR:HG22	1.58	1.04
57:BZ:153:ALA:H	57:BZ:154:THR:HA	1.22	1.04
57:BZ:11:ILE:CD1	57:BZ:95:VAL:HB	1.86	1.04
56:BD:50:U:N3	56:BD:64:A:C2	2.03	1.04
56:BD:72:C:C4	56:BD:73:A:H2	1.76	1.04
57:BZ:497:VAL:CA	57:BZ:514:HIS:CE1	2.40	1.04
32:AJ:64:SER:HB2	32:AJ:65:PHE:CD1	1.92	1.04
1:AA:2173:A:C4	3:AC:218:MET:CE	2.41	1.03
5:AE:109:LYS:HG3	5:AE:191:PRO:HG3	1.36	1.03
7:AG:60:LEU:HD21	7:AG:90:LEU:HD11	1.38	1.03
10:AL:97:ARG:HG3	10:AL:117:LEU:HD21	1.37	1.03
17:AS:6:LYS:HD3	17:AS:10:LYS:HG2	1.39	1.03
34:BA:1415:G:C6	34:BA:1486:G:C6	2.46	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1453:G:H2'	53:BX:36:LEU:CD1	1.87	1.03
56:BE:18:G:N2	56:BE:58:A:H5'	1.59	1.03
42:BM:48:GLU:HB3	42:BM:78:LYS:HZ3	1.22	1.03
57:BZ:2:ILE:CG2	57:BZ:199:VAL:CG2	2.35	1.03
1:AA:1072:C:H2'	1:AA:1093:G:C6	1.91	1.03
1:AA:1933:G:H21	1:AA:1974:C:H5'	1.18	1.03
1:AA:2277:G:H3'	1:AA:2278:A:H5''	1.39	1.03
1:AA:5:A:C6	1:AA:2899:G:C5	2.31	1.03
1:AA:578:A:H2'	1:AA:2018:G:H5''	1.38	1.03
14:AP:106:ARG:NH2	14:AP:110:LEU:HD22	1.72	1.03
18:AT:25:ARG:HH21	18:AT:74:ALA:N	1.54	1.03
34:BA:1117:G:C2	34:BA:1184:G:N9	2.26	1.03
34:BA:1236:A:H4'	34:BA:1304:G:H4'	1.38	1.03
34:BA:306:G:H2'	34:BA:307:C:H6	1.19	1.03
34:BA:389:A:H2'	34:BA:390:C:H5'	1.37	1.03
35:BF:95:GLN:HE21	35:BF:148:TYR:HB3	1.23	1.03
43:BN:8:LEU:HD13	43:BN:94:VAL:HG11	1.36	1.03
43:BN:49:VAL:HG13	47:BR:41:ARG:HD2	1.37	1.03
57:BZ:397:GLN:HB3	57:BZ:472:TYR:HB3	1.04	1.03
1:AA:1700:A:H2'	1:AA:1701:A:H5'	1.40	1.03
1:AA:1772:G:H2'	1:AA:1773:A:H4'	1.36	1.03
1:AA:745:G:O2'	1:AA:748:G:H1'	1.58	1.03
5:AE:105:THR:HB	5:AE:166:THR:CB	1.88	1.03
16:AR:64:ARG:O	16:AR:67:ALA:HB3	1.58	1.03
17:AS:62:LEU:HD12	17:AS:96:ILE:HB	1.06	1.03
21:AW:127:LYS:HD2	21:AW:163:LEU:HA	1.39	1.03
23:AY:38:GLN:H	23:AY:41:GLN:NE2	1.55	1.03
34:BA:1286:A:H5'	54:BY:25:LYS:HG2	1.35	1.03
42:BM:40:LEU:HB3	42:BM:42:ARG:HB2	1.38	1.03
46:BQ:27:LYS:CB	54:BY:7:ARG:NH1	2.20	1.03
57:BZ:240:ILE:HG13	57:BZ:286:ASP:HB3	1.35	1.03
57:BZ:396:LYS:HB2	57:BZ:475:VAL:N	1.56	1.03
1:AA:2582:G:N2	1:AA:2583:G:H1'	1.73	1.03
12:AN:25:ASP:HB2	12:AN:101:ARG:HD2	1.40	1.03
18:AT:25:ARG:NH2	18:AT:74:ALA:H	1.55	1.03
21:AW:144:LEU:HB3	21:AW:174:VAL:HG11	1.33	1.03
21:AW:2:GLU:OE2	21:AW:58:VAL:HB	1.59	1.03
22:AX:72:ARG:HB3	22:AX:75:LEU:HD13	1.38	1.03
34:BA:263:A:C2'	34:BA:264:U:H5''	1.89	1.03
34:BA:82:U:H2'	34:BA:85:U:H5	1.22	1.03
37:BH:104:VAL:HG11	37:BH:140:VAL:HG21	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:65:LEU:HD12	47:BR:56:VAL:HG22	1.36	1.03
43:BN:30:SER:HB2	43:BN:81:THR:HA	1.35	1.03
45:BP:88:GLY:H	45:BP:98:TYR:HA	1.20	1.03
57:BZ:22:VAL:HG12	57:BZ:56:ILE:HG12	1.39	1.03
57:BZ:239:ILE:H	57:BZ:244:GLY:CA	1.70	1.03
1:AA:1058:G:C2'	32:AJ:116:ASN:HD22	1.72	1.03
7:AG:163:ALA:HB1	7:AG:169:ALA:HA	1.34	1.03
10:AL:106:LEU:HB2	15:AQ:39:ARG:HH22	1.20	1.03
10:AL:76:ALA:HA	15:AQ:77:PRO:HD2	1.39	1.03
13:AO:32:GLY:HA2	13:AO:116:LEU:CD2	1.87	1.03
14:AP:20:ARG:HH21	14:AP:20:ARG:HB3	0.92	1.03
10:AL:76:ALA:HA	15:AQ:77:PRO:CD	1.88	1.03
17:AS:6:LYS:HG2	17:AS:12:TYR:H	1.22	1.03
19:AU:47:PHE:HE2	19:AU:89:ILE:HA	1.22	1.03
20:AV:22:GLY:CA	20:AV:73:ARG:HH12	1.70	1.03
34:BA:1220:G:C2	52:BW:54:GLY:O	2.10	1.03
34:BA:570:G:H1	34:BA:866:C:N4	1.55	1.03
34:BA:947:G:O3'	46:BQ:109:THR:OG1	1.75	1.03
41:BL:10:LEU:HD11	41:BL:85:ARG:HD3	1.38	1.03
57:BZ:160:PHE:CD2	57:BZ:162:ILE:HD12	1.94	1.03
1:AA:1046:A:C4	31:AI:11:ALA:HB2	1.94	1.03
1:AA:1203:G:C6	1:AA:1240:U:N3	2.27	1.03
1:AA:2447:G:O3'	1:AA:2499:C:OP2	1.75	1.03
5:AE:118:LYS:HE2	5:AE:118:LYS:HA	1.35	1.03
6:AF:34:TRP:HB3	6:AF:38:ARG:CZ	1.88	1.03
9:AK:69:GLN:NE2	9:AK:87:LEU:HD22	1.73	1.03
14:AP:73:LEU:O	14:AP:76:LYS:HD3	1.56	1.03
24:AZ:29:ARG:HB2	24:AZ:30:ARG:NH2	1.73	1.03
34:BA:1412:C:N3	34:BA:1489:G:O6	1.90	1.03
56:BE:5:G:H4'	56:BE:6:G:H5'	1.35	1.03
34:BA:1220:G:N2	52:BW:55:LYS:CA	2.13	1.03
1:AA:104:U:H2'	1:AA:105:C:O4'	1.57	1.03
1:AA:29:U:H2'	1:AA:30:G:N7	1.72	1.03
1:AA:388:G:H2'	1:AA:390:A:N7	1.73	1.03
1:AA:183:C:H1'	1:AA:433:C:H1'	1.40	1.03
3:AC:46:LYS:HE2	3:AC:210:ARG:HE	1.18	1.03
1:AA:2637:U:H5''	5:AE:81:ILE:HD11	1.40	1.03
11:AM:72:PRO:HB2	11:AM:111:ARG:HB3	1.41	1.03
14:AP:23:ARG:NH1	14:AP:42:ASP:HB3	1.72	1.03
15:AQ:58:ASN:N	15:AQ:58:ASN:HD22	1.55	1.03
34:BA:927:G:C5'	34:BA:1503:A:H62	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:922:G:H4'	38:BI:20:GLN:HA	1.37	1.03
41:BL:29:SER:HB2	41:BL:32:LYS:HE2	1.36	1.03
34:BA:1014:A:C1'	52:BW:34:TRP:CZ3	2.40	1.03
57:BZ:200:ASP:HB2	57:BZ:228:ARG:HG2	1.06	1.03
57:BZ:73:VAL:HA	57:BZ:74:ASP:HB3	1.07	1.03
1:AA:1646:C:H3'	1:AA:1647:G:C5'	1.88	1.03
1:AA:1702:G:H2'	1:AA:1703:G:C5'	1.88	1.03
1:AA:3:U:C2	1:AA:2900:A:C2	2.41	1.03
32:AJ:10:LEU:HD22	32:AJ:27:LEU:CD2	1.88	1.03
10:AL:3:GLN:HG2	10:AL:6:THR:HB	1.39	1.03
11:AM:46:LYS:H	11:AM:46:LYS:HE3	1.22	1.03
59:AA:3003:8AN:O1P	22:AX:2:ALA:HB1	1.58	1.03
34:BA:1064:G:H1'	34:BA:1066:C:C4	1.94	1.03
7:AG:84:LYS:NZ	56:BE:54:U:C5	2.25	1.03
34:BA:1109:C:OP1	36:BG:176:HIS:NE2	1.90	1.03
41:BL:14:ARG:HB3	41:BL:14:ARG:NH1	1.73	1.03
50:BU:88:TYR:N	50:BU:91:ARG:HH21	1.56	1.03
34:BA:232:G:H2'	34:BA:233:C:C6	1.94	1.03
1:AA:1075:C:C2'	32:AJ:90:LYS:HD3	1.88	1.03
1:AA:112:U:C3'	1:AA:113:G:H5''	1.89	1.03
1:AA:549:G:H2'	1:AA:550:G:H8	1.24	1.03
1:AA:602:G:O3'	1:AA:603:A:H4'	1.57	1.03
6:AF:36:VAL:HG21	6:AF:183:VAL:HG21	1.36	1.03
12:AN:27:VAL:HG22	12:AN:28:ALA:H	1.21	1.03
15:AQ:10:VAL:O	15:AQ:13:ARG:HB3	1.58	1.03
16:AR:112:ARG:NH1	17:AS:50:PRO:HG3	1.73	1.03
16:AR:53:ARG:HA	16:AR:56:ASP:OD2	1.56	1.03
16:AR:55:ARG:HH11	16:AR:55:ARG:HG2	1.23	1.03
34:BA:1116:C:C2	34:BA:1184:G:N1	2.27	1.03
34:BA:1117:G:C4	34:BA:1184:G:C2	2.47	1.03
34:BA:1313:U:N3	34:BA:1324:A:H2	1.48	1.03
34:BA:1311:G:C5	34:BA:1327:C:C5	2.29	1.03
34:BA:1405:G:H21	34:BA:1517:G:N2	1.57	1.03
34:BA:1417:G:H2'	34:BA:1482:G:N2	1.72	1.03
34:BA:958:A:C6	52:BW:56:GLN:NE2	2.26	1.03
35:BF:178:ARG:NE	35:BF:196:LEU:HD13	1.73	1.03
34:BA:1205:U:H4'	36:BG:195:VAL:HG13	1.41	1.03
46:BQ:14:ARG:HH21	46:BQ:42:ALA:HA	1.22	1.03
34:BA:1319:A:H4'	52:BW:37:ARG:CA	1.86	1.03
57:BZ:12:ALA:C	57:BZ:109:THR:HG22	1.77	1.03
57:BZ:427:LYS:HG2	57:BZ:442:VAL:HG23	1.05	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:565:LEU:CA	57:BZ:566:GLU:CG	2.03	1.03
57:BZ:64:ILE:HG23	57:BZ:188:GLN:CD	1.78	1.03
1:AA:1053:C:H2'	1:AA:1054:A:C8	1.94	1.03
1:AA:1081:U:C4'	32:AJ:125:ARG:CB	2.37	1.03
1:AA:1802:A:H61	1:AA:1822:G:H1'	1.24	1.03
1:AA:371:A:H5''	1:AA:423:A:N7	1.73	1.03
5:AE:50:GLY:C	5:AE:76:ARG:HE	1.62	1.03
34:BA:1428:A:H2'	34:BA:1429:C:C6	1.94	1.03
34:BA:22:G:H2'	34:BA:23:C:H6	1.22	1.03
34:BA:91:C:H2'	34:BA:92:G:H8	1.23	1.03
35:BF:91:PRO:HG3	35:BF:154:LEU:HB3	1.40	1.03
39:BJ:52:ILE:HD13	39:BJ:87:ARG:NH2	1.73	1.03
42:BM:19:LEU:HD21	42:BM:59:PHE:HB3	1.07	1.03
57:BZ:13:HIS:CB	57:BZ:109:THR:HG23	1.89	1.03
57:BZ:396:LYS:CB	57:BZ:475:VAL:N	2.18	1.03
32:AJ:92:GLY:HA3	32:AJ:93:ARG:HB2	1.38	1.03
1:AA:2670:A:C5'	5:AE:206:LYS:NZ	2.21	1.02
1:AA:2832:U:H1'	1:AA:2834:G:N2	1.73	1.02
1:AA:2178:C:C3'	3:AC:46:LYS:NZ	2.21	1.02
4:AD:125:ILE:HG21	4:AD:137:PRO:HG3	1.36	1.02
6:AF:123:LEU:HD12	6:AF:193:VAL:HG22	1.39	1.02
13:AO:13:HIS:HB3	13:AO:16:HIS:CD2	1.94	1.02
16:AR:93:LYS:HG2	17:AS:10:LYS:HZ1	1.21	1.02
21:AW:151:HIS:HB3	21:AW:170:THR:H	1.21	1.02
34:BA:1499:A:H2'	34:BA:1500:A:H5'	1.38	1.02
34:BA:716:A:H1'	44:BO:118:GLY:HA2	1.37	1.02
34:BA:962:C:H4'	34:BA:1200:C:H41	1.18	1.02
56:BE:4:C:C6	56:BE:6:G:N7	2.27	1.02
35:BF:163:PHE:HA	35:BF:185:ILE:O	1.59	1.02
43:BN:23:ILE:HG23	43:BN:85:LEU:HD23	1.37	1.02
45:BP:28:LYS:NZ	45:BP:33:ARG:HH22	1.56	1.02
1:AA:1252:G:C8	1:AA:1253:A:H1'	1.93	1.02
1:AA:2652:C:C4	1:AA:2669:G:C2	2.47	1.02
1:AA:2668:G:H2'	1:AA:2669:G:C8	1.92	1.02
1:AA:2176:A:H1'	3:AC:44:HIS:CD2	1.94	1.02
13:AO:38:VAL:HB	13:AO:39:PRO:HD3	1.41	1.02
34:BA:939:G:H5''	40:BK:102:ARG:HH22	0.91	1.02
38:BI:79:GLU:HB3	38:BI:92:LYS:HA	1.39	1.02
47:BR:45:ARG:HH11	47:BR:45:ARG:CB	1.71	1.02
57:BZ:55:THR:O	57:BZ:56:ILE:HD12	1.56	1.02
57:BZ:40:GLU:CB	57:BZ:41:ARG:HB2	1.88	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1043:C:O4'	1:AA:1112:G:N2	1.91	1.02
1:AA:1438:U:H2'	1:AA:1439:A:H5'	1.42	1.02
1:AA:853:G:H2'	1:AA:854:G:H8	1.24	1.02
1:AA:956:G:O6	1:AA:958:U:H1'	1.57	1.02
10:AL:59:LYS:HA	10:AL:86:ILE:HD12	1.35	1.02
18:AT:5:ALA:HB2	18:AT:54:ALA:HB2	1.39	1.02
45:BP:57:LYS:HG2	45:BP:67:THR:HG22	1.41	1.02
57:BZ:248:ASN:ND2	57:BZ:273:ILE:HG13	1.73	1.02
1:AA:152:G:O2'	1:AA:153:C:C5'	2.07	1.02
1:AA:2327:A:H2'	1:AA:2328:A:C8	1.93	1.02
1:AA:519:U:H6	1:AA:519:U:H5'	1.24	1.02
3:AC:43:VAL:CG1	3:AC:224:ILE:HD11	1.89	1.02
8:AH:103:LEU:HD13	8:AH:115:VAL:HG11	1.39	1.02
16:AR:82:GLY:HA2	16:AR:117:GLN:HG2	1.37	1.02
34:BA:1004:A:H8	34:BA:1036:G:O6	1.39	1.02
34:BA:886:G:O2'	34:BA:887:G:H5'	1.57	1.02
57:BZ:11:ILE:HD11	57:BZ:95:VAL:HG12	1.37	1.02
57:BZ:251:VAL:CG1	57:BZ:273:ILE:HA	1.26	1.02
57:BZ:310:PHE:CA	57:BZ:356:PHE:O	2.05	1.02
57:BZ:6:ARG:CB	57:BZ:68:TYR:O	2.07	1.02
57:BZ:491:ASN:ND2	57:BZ:535:VAL:C	2.12	1.02
4:AD:5:LYS:HD3	4:AD:29:PRO:HB3	1.38	1.02
5:AE:111:ARG:N	5:AE:161:GLY:HA3	1.75	1.02
5:AE:30:PRO:HA	5:AE:49:LEU:O	1.59	1.02
10:AL:23:ARG:HH11	10:AL:23:ARG:HB2	1.20	1.02
10:AL:52:VAL:HG22	10:AL:53:LYS:H	1.21	1.02
10:AL:9:GLU:HB2	10:AL:82:ASN:HB3	1.39	1.02
34:BA:1005:A:H5''	34:BA:1006:C:C5	1.95	1.02
50:BU:59:ILE:HD11	50:BU:71:PHE:HB3	1.38	1.02
34:BA:1455:G:OP1	53:BX:32:ALA:C	1.96	1.02
1:AA:2765:A:H2'	1:AA:2765:A:N3	1.72	1.02
3:AC:22:ILE:HD11	3:AC:226:PRO:HA	1.40	1.02
5:AE:179:GLU:O	5:AE:181:LEU:HG	1.59	1.02
12:AN:41:TRP:HA	12:AN:95:ALA:O	1.59	1.02
14:AP:106:ARG:HH12	14:AP:110:LEU:HB2	1.16	1.02
18:AT:64:MET:HG2	18:AT:109:GLU:HG3	1.41	1.02
24:AZ:4:LEU:O	24:AZ:37:LEU:HB3	1.60	1.02
34:BA:1461:G:H2'	34:BA:1462:G:H8	1.23	1.02
37:BH:19:LEU:H	37:BH:33:MET:HE1	1.21	1.02
45:BP:28:LYS:HZ1	45:BP:33:ARG:HH22	1.08	1.02
34:BA:1318:A:C3'	52:BW:37:ARG:CB	2.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:491:ASN:CG	57:BZ:535:VAL:O	1.97	1.02
1:AA:270:A:N1	1:AA:370:G:H1'	1.75	1.02
1:AA:2:G:C6	1:AA:2902:C:N4	2.28	1.02
32:AJ:19:PRO:CG	32:AJ:36:GLU:C	2.28	1.02
16:AR:8:VAL:HG23	16:AR:9:VAL:H	1.20	1.02
34:BA:38:G:H22	34:BA:397:A:H5''	0.86	1.02
56:BE:21:A:C2'	56:BE:22:G:H5''	1.89	1.02
37:BH:162:LEU:HD13	37:BH:181:MET:HG2	1.42	1.02
57:BZ:27:GLN:HG3	57:BZ:28:GLN:NE2	1.73	1.02
1:AA:1024:G:H5''	1:AA:1025:G:H5''	1.06	1.02
1:AA:1288:U:H5''	1:AA:1289:C:OP2	1.57	1.02
1:AA:2023:G:H2'	1:AA:2024:G:H8	1.22	1.02
1:AA:2584:U:H2'	1:AA:2585:U:C5	1.95	1.02
1:AA:259:G:H2'	1:AA:260:G:H8	1.15	1.02
5:AE:13:ARG:HG3	5:AE:22:PRO:CD	1.88	1.02
11:AM:65:ARG:NH1	11:AM:67:MET:H	1.56	1.02
14:AP:37:ALA:O	14:AP:51:ALA:HB2	1.59	1.02
34:BA:1192:C:H3'	34:BA:1192:C:H6	1.25	1.02
34:BA:1253:G:H1	34:BA:1285:A:N6	1.55	1.02
34:BA:22:G:H2'	34:BA:23:C:C6	1.93	1.02
34:BA:952:U:H5'	34:BA:972:C:H41	1.23	1.02
38:BI:84:PHE:CZ	38:BI:133:TYR:HB3	1.93	1.02
43:BN:18:ALA:HB3	43:BN:91:PRO:HB3	1.41	1.02
43:BN:25:GLU:HA	43:BN:28:ARG:HD2	1.41	1.02
57:BZ:233:PRO:HG2	57:BZ:248:ASN:HD22	0.88	1.02
57:BZ:89:MET:HE1	57:BZ:119:TYR:CD1	1.93	1.02
1:AA:785:G:H2'	1:AA:786:C:C6	1.93	1.02
4:AD:77:ALA:HB1	4:AD:95:LEU:HD21	1.38	1.02
7:AG:54:GLU:O	7:AG:57:ALA:HB3	1.60	1.02
32:AJ:27:LEU:HD22	32:AJ:58:THR:CA	1.89	1.02
32:AJ:12:LEU:HD13	32:AJ:41:PHE:CE1	1.93	1.02
9:AK:15:LEU:HG	9:AK:138:LEU:O	1.60	1.02
12:AN:34:LEU:HB2	12:AN:67:ARG:HH22	1.23	1.02
21:AW:56:VAL:HG21	21:AW:135:GLU:HA	1.40	1.02
21:AW:151:HIS:HA	21:AW:171:ILE:HG22	1.38	1.02
24:AZ:45:GLY:HA2	24:AZ:48:GLU:CD	1.80	1.02
34:BA:1309:G:N2	34:BA:1328:C:N1	2.05	1.02
34:BA:132:C:H5'	34:BA:262:A:H1'	1.37	1.02
38:BI:52:PRO:O	38:BI:55:VAL:HB	1.59	1.02
42:BM:9:ARG:HD2	42:BM:14:VAL:HG22	1.39	1.02
34:BA:684:A:H4'	44:BO:12:ARG:NH2	1.75	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:85:GLY:O	52:BW:74:PHE:HA	1.60	1.02
57:BZ:207:MET:CE	57:BZ:224:GLY:HA3	1.90	1.02
57:BZ:26:LEU:HB3	57:BZ:29:SER:O	1.58	1.02
1:AA:1785:A:H5''	1:AA:1982:C:O2'	1.58	1.02
1:AA:2176:A:OP1	3:AC:222:VAL:HG23	1.60	1.02
1:AA:2808:U:C2'	1:AA:2809:A:H5''	1.90	1.02
1:AA:2123:G:O4'	3:AC:172:HIS:HB3	1.53	1.02
3:AC:21:THR:HB	3:AC:228:SER:CB	1.89	1.02
1:AA:781:A:H1'	4:AD:222:ARG:NH1	1.74	1.02
5:AE:104:VAL:HG13	5:AE:197:ILE:O	1.59	1.02
24:AZ:3:ARG:HH12	24:AZ:59:VAL:HB	1.17	1.02
34:BA:1312:G:C4	34:BA:1326:C:C2	2.48	1.02
34:BA:475:G:H2'	34:BA:476:G:C8	1.94	1.02
35:BF:155:LEU:CB	35:BF:159:PRO:HG3	1.88	1.02
45:BP:37:CYS:CA	45:BP:58:VAL:HG22	1.88	1.02
41:BL:91:ARG:HG2	50:BU:34:LYS:HB2	1.39	1.02
57:BZ:125:VAL:HB	57:BZ:162:ILE:HA	1.42	1.02
57:BZ:27:GLN:CA	57:BZ:28:GLN:HB3	1.89	1.02
31:AI:52:PHE:CA	31:AI:86:PRO:CB	2.37	1.02
1:AA:1035:U:O3'	8:AH:59:ARG:CZ	2.07	1.01
1:AA:2178:C:H5''	3:AC:46:LYS:CD	1.90	1.01
1:AA:627:A:H2'	1:AA:628:G:O4'	1.59	1.01
3:AC:46:LYS:HG3	3:AC:211:SER:OG	1.49	1.01
1:AA:2129:C:C5'	3:AC:6:ARG:NE	2.19	1.01
4:AD:202:LYS:H	4:AD:202:LYS:HD2	1.25	1.01
14:AP:89:ARG:HG3	14:AP:90:GLY:H	1.24	1.01
14:AP:95:HIS:N	14:AP:99:LYS:HB2	1.74	1.01
20:AV:12:THR:HG22	20:AV:13:VAL:H	1.21	1.01
34:BA:1312:G:C2	34:BA:1326:C:C6	2.48	1.01
35:BF:161:ALA:HA	35:BF:183:PRO:HB2	1.42	1.01
37:BH:132:ARG:HG2	37:BH:132:ARG:HH11	1.21	1.01
37:BH:18:LYS:HG2	37:BH:33:MET:HB3	1.40	1.01
37:BH:53:ASP:O	37:BH:56:VAL:HB	1.60	1.01
42:BM:55:ALA:HB3	42:BM:58:HIS:CE1	1.94	1.01
34:BA:1327:C:H5''	54:BY:20:LYS:HD3	1.41	1.01
57:BZ:379:GLU:CB	57:BZ:580:VAL:O	2.07	1.01
1:AA:1839:G:O6	1:AA:1927:A:C2	2.14	1.01
1:AA:2652:C:C4	1:AA:2669:G:N2	2.27	1.01
1:AA:2841:C:H2'	1:AA:2842:G:H8	1.22	1.01
1:AA:6:A:C2	1:AA:2898:U:N1	2.28	1.01
4:AD:136:ILE:HB	4:AD:168:ARG:NH2	1.75	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:73:ALA:O	8:AH:76:VAL:HG22	1.58	1.01
1:AA:2181:G:H5''	55:BC:17:C:N4	1.73	1.01
37:BH:148:VAL:HB	37:BH:181:MET:HE3	1.40	1.01
40:BK:69:VAL:HG22	40:BK:135:VAL:HG22	1.39	1.01
57:BZ:156:GLU:HG3	57:BZ:159:ASP:CB	1.89	1.01
57:BZ:163:VAL:HA	57:BZ:174:LEU:O	1.59	1.01
57:BZ:210:SER:HA	57:BZ:284:ILE:HG23	1.41	1.01
57:BZ:73:VAL:HG22	57:BZ:88:VAL:CG1	1.91	1.01
1:AA:1105:U:C4'	1:AA:1106:G:O5'	2.07	1.01
1:AA:1312:U:H3'	1:AA:1313:U:C5	1.96	1.01
1:AA:2243:U:H2'	1:AA:2244:U:C6	1.95	1.01
1:AA:270(O):U:H5''	1:AA:270(P):C:H5	1.23	1.01
1:AA:2792:G:N3	1:AA:2805:G:N1	2.06	1.01
1:AA:2847:U:H3'	15:AQ:99:LEU:CD1	1.90	1.01
1:AA:976:C:H5'	1:AA:1156:A:N6	1.75	1.01
3:AC:67:GLY:CA	3:AC:184:LYS:NZ	2.15	1.01
4:AD:54:ARG:HA	4:AD:219:PRO:HG2	1.43	1.01
10:AL:105:GLU:O	10:AL:111:PHE:HZ	1.38	1.01
16:AR:13:LYS:HD2	16:AR:13:LYS:H	1.21	1.01
19:AU:66:LEU:HG	19:AU:69:TYR:O	1.60	1.01
46:BQ:36:LYS:CG	46:BQ:56:LEU:CD2	2.37	1.01
57:BZ:172:ALA:CA	57:BZ:179:MET:CE	2.38	1.01
57:BZ:382:VAL:HG23	57:BZ:578:VAL:HG23	1.38	1.01
1:AA:2213:U:H5'	1:AA:2215:G:N7	1.75	1.01
1:AA:477:A:N6	1:AA:502:A:H61	1.58	1.01
1:AA:716:A:H1'	48:BS:44:LYS:HD3	1.02	1.01
1:AA:944:G:H5''	1:AA:945:A:H5''	1.40	1.01
2:AB:33:G:H2'	2:AB:34:U:C6	1.94	1.01
32:AJ:19:PRO:CG	32:AJ:36:GLU:HA	1.89	1.01
9:AK:14:VAL:HG13	9:AK:138:LEU:HB3	1.40	1.01
15:AQ:17:THR:HB	15:AQ:20:PRO:HD3	1.41	1.01
20:AV:22:GLY:HA3	20:AV:73:ARG:HH12	0.86	1.01
1:AA:988:A:N6	24:AZ:13:ILE:HG13	1.75	1.01
34:BA:1310:G:O6	34:BA:1327:C:C4	2.13	1.01
37:BH:141:ARG:HD3	37:BH:142:PRO:HD2	1.40	1.01
38:BI:48:ALA:HB3	38:BI:53:LEU:HB3	1.40	1.01
1:AA:248:G:N3	1:AA:2431:U:H5'	1.75	1.01
3:AC:153:ILE:HA	3:AC:156:ILE:HD12	1.40	1.01
3:AC:48:GLY:N	3:AC:210:ARG:HG3	1.75	1.01
3:AC:62:VAL:HG11	3:AC:192:PHE:H	1.19	1.01
4:AD:58:HIS:O	4:AD:59:LYS:HG3	1.58	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:117:MET:HG2	5:AE:136:ARG:HE	1.25	1.01
32:AJ:37:PHE:CZ	32:AJ:63:ARG:CD	2.44	1.01
23:AY:12:SER:HB3	23:AY:13:PRO:HD2	1.41	1.01
35:BF:178:ARG:HD2	35:BF:184:VAL:HG11	1.42	1.01
46:BQ:15:VAL:N	46:BQ:34:LEU:HD21	1.73	1.01
48:BS:7:GLU:O	48:BS:10:LYS:HG2	1.60	1.01
34:BA:986:A:C5'	52:BW:55:LYS:NZ	2.18	1.01
57:BZ:427:LYS:CG	57:BZ:442:VAL:CG2	2.37	1.01
57:BZ:82:GLY:HA3	57:BZ:361:ARG:CG	1.91	1.01
1:AA:2178:C:H5'	3:AC:46:LYS:CG	1.65	1.01
1:AA:270(C):C:H2'	1:AA:270(D):C:C6	1.94	1.01
1:AA:2128:C:C5'	3:AC:35:ALA:HB3	1.91	1.01
4:AD:166:GLN:O	4:AD:174:ILE:HB	1.58	1.01
7:AG:5:VAL:HG12	7:AG:9:ARG:HH22	1.22	1.01
10:AL:39:ILE:CG1	10:AL:59:LYS:HZ1	1.72	1.01
12:AN:78:PRO:HB3	12:AN:81:VAL:HG23	1.41	1.01
18:AT:36:LEU:HD23	18:AT:51:LEU:HD21	1.39	1.01
34:BA:1443:G:O2'	34:BA:1446:A:O3'	1.79	1.01
35:BF:178:ARG:HH21	35:BF:196:LEU:HB2	1.22	1.01
35:BF:84:GLU:HG2	35:BF:234:PRO:HD2	1.42	1.01
36:BG:126:ARG:HB3	36:BG:128:PHE:CE1	1.95	1.01
1:AA:1903:G:H2'	1:AA:1904:G:C8	1.95	1.01
1:AA:2345:G:N7	1:AA:2371:G:N2	2.08	1.01
1:AA:265:A:C8	1:AA:265:A:H3'	1.96	1.01
1:AA:270(M):U:H4'	1:AA:270(N):G:H4'	1.01	1.01
1:AA:627:A:C6	1:AA:637:A:H1'	1.96	1.01
1:AA:2619:C:C4'	5:AE:152:LYS:HA	1.91	1.01
17:AS:11:GLN:HE22	17:AS:24:LYS:NZ	1.58	1.01
56:BE:5:G:N1	56:BE:67:C:O2	1.92	1.01
42:BM:47:LEU:HD12	42:BM:51:ARG:HH22	1.24	1.01
46:BQ:108:ARG:HA	46:BQ:108:ARG:HH11	1.21	1.01
57:BZ:401:GLU:O	57:BZ:467:SER:HB3	1.61	1.01
57:BZ:80:ASP:OD1	57:BZ:365:HIS:CA	2.09	1.01
1:AA:2506:U:C6	59:AA:3002:8AN:N3'	2.28	1.01
1:AA:424:G:O2'	1:AA:425:G:H5'	1.59	1.01
3:AC:180:PHE:HZ	3:AC:184:LYS:HD2	0.92	1.01
1:AA:2210:G:C6	4:AD:150:LYS:HA	1.94	1.01
5:AE:102:VAL:HG13	5:AE:170:LEU:HG	1.42	1.01
9:AK:43:THR:CB	9:AK:44:PRO:HD2	1.88	1.01
24:AZ:4:LEU:HD21	24:AZ:56:VAL:HG23	1.42	1.01
24:AZ:9:VAL:HG22	24:AZ:53:LEU:C	1.81	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1308:U:C3'	34:BA:1309:G:OP1	2.07	1.01
34:BA:1316:G:O4'	34:BA:1360:A:C2	2.13	1.01
34:BA:1499:A:C8	34:BA:1500:A:N7	2.29	1.01
35:BF:187:LEU:HA	35:BF:201:ILE:O	1.59	1.01
35:BF:42:ILE:HD11	35:BF:202:PRO:HB2	1.38	1.01
43:BN:43:ARG:O	43:BN:66:ARG:HB2	1.58	1.01
51:BV:36:ASN:O	51:BV:40:LEU:HG	1.59	1.01
34:BA:191:G:H1'	53:BX:105:SER:HA	1.43	1.01
57:BZ:10:ILE:CD1	57:BZ:21:LEU:CB	2.39	1.01
56:BD:1:G:C2	56:BD:72:C:C2	2.42	1.01
57:BZ:490:SER:O	57:BZ:534:THR:CG2	2.08	1.01
1:AA:1203:G:O6	1:AA:1240:U:O2	1.78	1.01
1:AA:1718:G:N2	1:AA:1742:C:N3	2.09	1.01
3:AC:11:LEU:HD13	5:AE:35:GLN:NE2	193.54	1.01
4:AD:177:LEU:HB2	4:AD:178:PRO:HD2	1.40	1.01
36:BG:59:ARG:NE	36:BG:64:VAL:HA	1.74	1.01
57:BZ:565:LEU:N	57:BZ:566:GLU:HG2	1.54	1.01
1:AA:1151:G:H5''	16:AR:81:HIS:NE2	1.76	1.01
1:AA:2239:G:H5'	1:AA:2240:C:OP2	1.60	1.01
1:AA:2311:A:H3'	1:AA:2312:U:C5	1.96	1.01
1:AA:52:A:H2'	1:AA:53:A:H8	1.21	1.01
3:AC:156:ILE:HG12	3:AC:160:ARG:CB	1.91	1.01
10:AL:85:VAL:O	10:AL:93:PRO:HD3	1.61	1.01
11:AM:46:LYS:HB3	11:AM:49:ARG:CZ	1.91	1.01
20:AV:52:SER:HB3	20:AV:56:PRO:HB3	1.39	1.01
37:BH:100:ARG:O	37:BH:104:VAL:HG13	1.61	1.01
38:BI:76:ILE:HD13	38:BI:142:LEU:HB2	1.40	1.01
41:BL:12:ARG:HH11	41:BL:27:PRO:HD3	1.21	1.01
44:BO:111:ASP:OD2	44:BO:113:PRO:HD3	1.61	1.01
46:BQ:25:ILE:HG22	46:BQ:26:GLY:H	1.24	1.01
48:BS:60:VAL:O	48:BS:63:ARG:HG3	1.60	1.01
57:BZ:123:PRO:HD2	57:BZ:156:GLU:OE2	1.57	1.01
1:AA:1049:C:N3	1:AA:1050:A:N6	2.08	1.00
1:AA:1906:G:N7	1:AA:1929:G:C5	2.27	1.00
1:AA:2254:C:C2'	1:AA:2255:G:H5'	1.90	1.00
1:AA:2674:G:H2'	1:AA:2675:A:C8	1.95	1.00
1:AA:479:A:H1'	1:AA:480:A:N7	1.76	1.00
1:AA:663:G:O2'	1:AA:940:G:H4'	1.61	1.00
3:AC:175:VAL:HG12	3:AC:189:ILE:HA	1.38	1.00
1:AA:2125:G:H5''	3:AC:40:THR:HG21	1.01	1.00
3:AC:43:VAL:HG11	3:AC:224:ILE:HD11	1.02	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1824:G:O2'	4:AD:246:PRO:HB3	1.59	1.00
18:AT:29:LEU:O	18:AT:33:ARG:HB2	1.61	1.00
34:BA:1162:C:C2	34:BA:1163:C:H5	1.78	1.00
34:BA:1225:A:H4'	52:BW:78:ARG:CB	1.91	1.00
34:BA:1225:A:H5'	52:BW:78:ARG:HD3	1.38	1.00
34:BA:1317:C:N3	34:BA:1318:A:C4	2.28	1.00
34:BA:1316:G:H4'	34:BA:1360:A:C5	1.95	1.00
39:BJ:47:ARG:HD3	39:BJ:57:GLN:HB3	1.42	1.00
41:BL:26:VAL:HG22	41:BL:27:PRO:HD2	1.42	1.00
47:BR:16:PHE:CZ	52:BW:14:HIS:NE2	2.29	1.00
50:BU:89:LEU:O	50:BU:92:ARG:HB3	1.60	1.00
57:BZ:62:ALA:HA	57:BZ:187:TYR:CE2	1.94	1.00
1:AA:1105:U:H3'	1:AA:1107:G:N7	1.75	1.00
1:AA:1702:G:H2'	1:AA:1703:G:H5''	1.05	1.00
1:AA:1774:C:C6	1:AA:1775:U:H5	1.79	1.00
1:AA:2507:C:C5'	59:AA:3002:8AN:C4'	2.38	1.00
1:AA:616:A:OP2	1:AA:616:A:H3'	1.60	1.00
1:AA:684:G:H2'	1:AA:687:C:H41	1.25	1.00
4:AD:91:ARG:HH12	4:AD:198:ASN:HB2	1.23	1.00
16:AR:93:LYS:NZ	16:AR:93:LYS:HA	1.76	1.00
34:BA:8:A:H1'	38:BI:102:ALA:O	1.61	1.00
41:BL:38:ILE:HG13	41:BL:118:VAL:HG11	1.43	1.00
46:BQ:98:VAL:HG23	46:BQ:110:ARG:HH12	1.22	1.00
34:BA:279:A:N1	50:BU:98:LEU:HG	1.75	1.00
52:BW:9:VAL:HG21	52:BW:42:PRO:HB2	1.41	1.00
57:BZ:240:ILE:N	57:BZ:286:ASP:HB3	1.76	1.00
56:BD:5:G:C2	56:BD:69:G:N7	2.27	1.00
1:AA:1105:U:O3'	1:AA:1106:G:H3'	1.41	1.00
1:AA:2332:U:C4'	1:AA:2336:A:H62	1.73	1.00
4:AD:46:GLN:OE1	4:AD:51:VAL:HG23	1.61	1.00
8:AH:110:SER:O	8:AH:112:PRO:HD2	1.61	1.00
10:AL:122:LEU:H	15:AQ:70:VAL:HG12	0.85	1.00
34:BA:1053:G:H5'	34:BA:1054:C:H5'	1.40	1.00
34:BA:1119:C:H2'	34:BA:1120:G:C8	1.96	1.00
46:BQ:100:GLY:HA3	46:BQ:101:GLN:HG2	1.36	1.00
48:BS:62:GLN:NE2	48:BS:66:LEU:HD21	1.76	1.00
57:BZ:14:VAL:HA	57:BZ:78:HIS:HD2	1.23	1.00
57:BZ:122:LYS:HE3	57:BZ:156:GLU:HB2	1.03	1.00
57:BZ:21:LEU:HD21	57:BZ:98:VAL:HG21	1.42	1.00
1:AA:1155:A:H2'	1:AA:1156:A:H5''	1.39	1.00
1:AA:1342:A:C2'	1:AA:1345:C:H41	1.73	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1906:G:N7	1:AA:1929:G:C4	2.30	1.00
1:AA:445:C:H3'	16:AR:3:ARG:HE	1.23	1.00
1:AA:869:G:C2'	1:AA:870:A:H5''	1.91	1.00
4:AD:61:LEU:HB2	4:AD:86:PRO:HG2	1.43	1.00
12:AN:115:MET:O	12:AN:118:LEU:HG	1.60	1.00
1:AA:957:A:OP2	12:AN:77:LYS:HD3	1.59	1.00
34:BA:1106:G:H2'	34:BA:1107:C:C6	1.96	1.00
34:BA:1311:G:H22	34:BA:1326:C:H1'	0.87	1.00
34:BA:973:G:N2	34:BA:974:A:N6	2.08	1.00
35:BF:155:LEU:HB2	35:BF:159:PRO:HG3	1.38	1.00
38:BI:78:HIS:ND1	41:BL:107:LEU:HD11	1.76	1.00
46:BQ:16:ASP:CA	46:BQ:30:ALA:HB1	1.90	1.00
57:BZ:111:PHE:CE1	57:BZ:115:LYS:HG2	1.95	1.00
1:AA:1466:G:C2'	1:AA:1547:C:H41	1.73	1.00
1:AA:1993:U:H2'	1:AA:1994:C:H6	1.20	1.00
1:AA:1996:C:H5''	1:AA:1996:C:H6	1.20	1.00
3:AC:163:PHE:CZ	3:AC:192:PHE:HA	1.80	1.00
17:AS:69:LYS:O	17:AS:91:TYR:O	1.79	1.00
34:BA:64:G:H4'	34:BA:65:U:H5''	1.39	1.00
52:BW:15:LEU:HD12	52:BW:71:LEU:HD11	1.37	1.00
57:BZ:156:GLU:CG	57:BZ:159:ASP:HB2	1.91	1.00
1:AA:1257:C:O2'	6:AF:84:VAL:HG23	1.61	1.00
1:AA:1912:A:O2'	34:BA:1495:U:O4'	1.55	1.00
1:AA:2128:C:H5''	3:AC:35:ALA:HB3	1.01	1.00
1:AA:2418:A:H2'	1:AA:2419:U:O4'	1.62	1.00
1:AA:325:G:H2'	1:AA:326:G:H8	1.24	1.00
1:AA:1819:A:H3'	4:AD:178:PRO:HB2	1.43	1.00
5:AE:8:LYS:HZ2	5:AE:9:VAL:HG13	1.25	1.00
1:AA:1046:A:N9	31:AI:11:ALA:HB2	1.76	1.00
32:AJ:51:ALA:O	32:AJ:72:PRO:CB	2.10	1.00
10:AL:7:TYR:N	10:AL:7:TYR:HD1	1.56	1.00
14:AP:28:VAL:HG22	14:AP:29:PHE:H	1.24	1.00
14:AP:9:ARG:HB2	14:AP:9:ARG:NH1	1.76	1.00
1:AA:2875:C:H5''	15:AQ:3:ARG:HD2	1.44	1.00
17:AS:40:LEU:HD21	17:AS:55:ALA:HB2	1.43	1.00
34:BA:1465:C:H2'	34:BA:1466:C:H5'	1.41	1.00
52:BW:53:ASN:HD21	52:BW:56:GLN:HB2	1.27	1.00
32:AJ:25:PRO:HG3	57:BZ:429:MET:SD	1.89	1.00
31:AI:27:VAL:O	31:AI:83:TYR:CB	2.09	1.00
56:BD:6:G:N1	56:BD:67:C:C4	2.30	1.00
1:AA:1051:G:O2'	1:AA:2752:C:H5''	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2349:G:H3'	1:AA:2350:C:H5''	1.39	1.00
1:AA:5:A:N6	1:AA:2898:U:C4	2.25	1.00
1:AA:839:U:H2'	1:AA:840:C:C6	1.96	1.00
12:AN:118:LEU:HD13	12:AN:131:ILE:HG21	1.43	1.00
18:AT:16:LYS:HD3	18:AT:16:LYS:H	1.24	1.00
34:BA:1302:U:H5	46:BQ:13:LYS:NZ	1.58	1.00
34:BA:1323:G:H2'	34:BA:1324:A:H8	1.27	1.00
34:BA:291:C:H3'	34:BA:305:G:N2	1.76	1.00
34:BA:572:A:H4'	34:BA:917:G:H5'	1.40	1.00
36:BG:33:LEU:HD11	47:BR:53:LEU:HA	1.38	1.00
57:BZ:5:LEU:HD13	57:BZ:268:ALA:HB3	1.02	1.00
57:BZ:560:PRO:CB	57:BZ:562:ARG:H	1.73	1.00
57:BZ:73:VAL:HA	57:BZ:74:ASP:CB	1.87	1.00
1:AA:1042:G:C6	1:AA:1113:U:C4	2.50	1.00
1:AA:2019:A:H3'	1:AA:2020:A:H5''	1.43	1.00
1:AA:2115:G:H2'	1:AA:2117:A:N7	1.75	1.00
1:AA:2780:G:H22	9:AK:97:ARG:NH1	1.59	1.00
2:AB:14:U:O2'	2:AB:107:U:H1'	1.59	1.00
4:AD:68:LYS:HB3	4:AD:70:TRP:HE1	1.21	1.00
5:AE:8:LYS:NZ	5:AE:9:VAL:HG13	1.76	1.00
6:AF:64:ILE:HD13	6:AF:65:TRP:N	1.75	1.00
7:AG:163:ALA:HB2	7:AG:172:LEU:HD23	1.43	1.00
10:AL:24:VAL:HG21	10:AL:26:LYS:HE3	1.44	1.00
1:AA:871:U:H4'	12:AN:69:PHE:CZ	1.96	1.00
15:AQ:112:ARG:CZ	34:BA:1464:G:OP1	2.09	1.00
21:AW:179:ASP:O	21:AW:180:VAL:HG23	1.60	1.00
34:BA:1311:G:C2	34:BA:1327:C:C6	2.50	1.00
35:BF:95:GLN:HG3	35:BF:148:TYR:HB3	1.39	1.00
37:BH:20:TYR:HD1	37:BH:21:LEU:N	1.58	1.00
57:BZ:6:ARG:H	57:BZ:69:ARG:HB2	0.83	1.00
56:BD:4:C:H2'	56:BD:5:G:H5'	1.41	1.00
23:AY:2:ARG:HA	23:AY:5:LEU:HD13	1.39	1.00
1:AA:1939:U:H1'	1:AA:2592:G:C1'	1.91	1.00
1:AA:2023:G:H2'	1:AA:2024:G:C8	1.97	1.00
1:AA:2629:A:H5'	1:AA:2895:U:N1	1.75	1.00
1:AA:6:A:C5	1:AA:2898:U:N3	2.30	1.00
3:AC:156:ILE:HG13	3:AC:160:ARG:HG2	1.41	1.00
6:AF:19:GLU:O	6:AF:20:LEU:CD2	2.10	1.00
10:AL:96:THR:HG22	10:AL:97:ARG:H	1.21	1.00
5:AE:13:ARG:CZ	11:AM:56:SER:HB3	122.41	1.00
34:BA:12:U:H2'	34:BA:13:U:H5	1.21	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1318:A:H2'	52:BW:37:ARG:N	1.73	1.00
35:BF:222:ILE:HB	35:BF:226:ARG:NH2	1.77	1.00
41:BL:95:VAL:HG22	41:BL:133:LEU:HD21	1.38	1.00
46:BQ:20:THR:CA	46:BQ:26:GLY:HA2	1.91	1.00
46:BQ:27:LYS:HB3	54:BY:7:ARG:NH1	1.77	1.00
34:BA:186(B):C:H4'	53:BX:89:ARG:HH12	1.27	1.00
57:BZ:122:LYS:NZ	57:BZ:156:GLU:HB2	1.73	1.00
57:BZ:2:ILE:CG2	57:BZ:199:VAL:HG11	1.92	1.00
1:AA:1910:G:C2	1:AA:1921:G:C8	2.44	1.00
4:AD:120:GLY:O	4:AD:131:LEU:HD11	1.60	1.00
6:AF:155:LEU:HG	6:AF:189:THR:HG21	1.41	1.00
6:AF:192:LEU:HD11	6:AF:194:MET:HG3	1.42	1.00
1:AA:1046:A:C6	31:AI:9:LEU:N	2.30	1.00
16:AR:107:ALA:O	16:AR:110:VAL:HB	1.60	1.00
19:AU:36:LYS:HD2	19:AU:54:VAL:HG12	1.42	1.00
34:BA:164:U:H2'	34:BA:165:C:C5	1.97	1.00
39:BJ:76:ALA:HB1	39:BJ:80:ARG:HH12	1.25	1.00
47:BR:24:CYS:HB2	47:BR:40:CYS:N	1.76	1.00
50:BU:62:SER:HB3	50:BU:72:ARG:NE	1.76	1.00
50:BU:82:MET:O	50:BU:85:VAL:HB	1.61	1.00
51:BV:21:LYS:NZ	51:BV:23:LYS:HB3	1.77	1.00
1:AA:2103:C:H2'	1:AA:2104:G:H8	1.26	1.00
1:AA:1186:G:H8	1:AA:1187:G:C8	1.80	0.99
1:AA:1995:U:C5'	1:AA:1996:C:H5'	1.91	0.99
1:AA:2091:U:H2'	1:AA:2092:U:H5'	1.41	0.99
1:AA:2471:C:H4'	57:BZ:529:ARG:NH2	1.14	0.99
1:AA:535:C:H5'	16:AR:49:HIS:HB3	1.44	0.99
1:AA:948:G:H1'	1:AA:984:A:C2	1.97	0.99
1:AA:2125:G:C1'	3:AC:218:MET:H	1.45	0.99
4:AD:246:PRO:HG3	4:AD:252:TRP:CE3	1.97	0.99
6:AF:183:VAL:HA	6:AF:186:ILE:HD12	1.43	0.99
7:AG:60:LEU:HB3	7:AG:66:GLN:O	1.61	0.99
11:AM:128:HIS:HA	11:AM:147:LEU:HD21	1.44	0.99
12:AN:63:LYS:HD3	12:AN:64:ILE:H	1.25	0.99
10:AL:77:ILE:HG21	15:AQ:65:LYS:HE2	1.40	0.99
34:BA:1080:A:H5'	38:BI:14:ARG:HH21	1.23	0.99
34:BA:520:A:H62	34:BA:529:G:H21	1.03	0.99
34:BA:888:G:H21	34:BA:909:A:N6	1.60	0.99
36:BG:108:ASN:HD21	36:BG:110:ASN:HB2	1.27	0.99
57:BZ:488:LEU:HD12	57:BZ:525:GLY:CA	1.92	0.99
46:BQ:4:ILE:HD11	46:BQ:57:ARG:HG3	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AI:54:ALA:HA	31:AI:84:GLU:O	1.58	0.99
1:AA:1202:C:C6	1:AA:1203:G:H1'	1.97	0.99
1:AA:1264:G:H3'	1:AA:1265:A:H5''	1.43	0.99
1:AA:1625:C:C2'	1:AA:1626:G:H4'	1.91	0.99
1:AA:2122:U:H2'	1:AA:2123:G:H5''	1.40	0.99
1:AA:2701:C:H3'	1:AA:2702:U:C5'	1.92	0.99
1:AA:270(O):U:H5''	1:AA:270(P):C:C5	1.97	0.99
1:AA:685:A:H5''	1:AA:686:G:H21	1.25	0.99
1:AA:759:G:H2'	1:AA:760:G:H8	1.27	0.99
17:AS:39:LEU:HG	17:AS:58:VAL:O	1.62	0.99
34:BA:979:C:H5''	34:BA:1222:G:O6	1.63	0.99
34:BA:1308:U:H5''	46:BQ:110:ARG:HH12	1.22	0.99
34:BA:1433:A:H62	34:BA:1467:G:N2	1.59	0.99
41:BL:29:SER:HB2	41:BL:32:LYS:CE	1.91	0.99
47:BR:26:ARG:HD2	47:BR:47:LEU:HD12	1.40	0.99
57:BZ:380:LEU:CD1	57:BZ:580:VAL:CG2	2.40	0.99
57:BZ:13:HIS:HA	57:BZ:77:GLY:O	1.61	0.99
1:AA:1203:G:C5	1:AA:1241:A:C8	2.49	0.99
1:AA:1275:A:C2	13:AO:16:HIS:HA	1.96	0.99
1:AA:1902:C:C6	1:AA:1903:G:C8	2.48	0.99
1:AA:270(M):U:C4'	1:AA:270(N):G:H4'	1.91	0.99
1:AA:594:U:H2'	1:AA:595:C:C6	1.96	0.99
3:AC:175:VAL:CG1	3:AC:189:ILE:CA	2.34	0.99
4:AD:76:PRO:HG2	4:AD:98:VAL:HG21	1.39	0.99
18:AT:20:VAL:HG22	18:AT:24:ILE:HD11	1.40	0.99
21:AW:94:GLU:H	21:AW:95:PRO:CD	1.73	0.99
38:BI:43:LEU:H	38:BI:65:ASN:HD22	1.03	0.99
40:BK:69:VAL:HG21	40:BK:104:LEU:HD21	1.43	0.99
41:BL:84:ARG:NH1	41:BL:84:ARG:HB3	1.75	0.99
47:BR:54:PRO:O	47:BR:56:VAL:HG23	1.60	0.99
57:BZ:322:GLU:CD	57:BZ:581:THR:CG2	2.30	0.99
1:AA:1255:U:H5'	1:AA:1256:G:H5''	1.40	0.99
1:AA:1326:U:H2'	1:AA:1327:C:H5'	1.45	0.99
1:AA:1498:C:C6	1:AA:1576:U:H4'	1.98	0.99
1:AA:1570:A:N6	1:AA:1571:A:H62	1.60	0.99
1:AA:1786:A:H4'	1:AA:1938:A:H61	1.27	0.99
1:AA:355:G:H2'	1:AA:356:G:C8	1.97	0.99
1:AA:586:A:C5'	6:AF:89:VAL:HG21	1.90	0.99
1:AA:747:U:H2'	1:AA:2613:U:O4	1.61	0.99
4:AD:56:GLY:H	4:AD:217:ARG:HD2	1.26	0.99
32:AJ:23:VAL:HG21	32:AJ:41:PHE:CZ	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:46:VAL:CG1	9:AK:47:ALA:H	1.70	0.99
12:AN:12:GLN:HE22	12:AN:13:GLN:HE21	1.08	0.99
1:AA:1649:G:N2	13:AO:107:ASP:HB2	1.77	0.99
34:BA:781:A:H2'	34:BA:782:A:C5'	1.92	0.99
36:BG:69:HIS:ND1	36:BG:104:GLN:HB2	1.77	0.99
37:BH:24:GLU:O	37:BH:27:TYR:HB3	1.62	0.99
41:BL:98:LYS:H	41:BL:98:LYS:HZ2	1.03	0.99
43:BN:34:VAL:HG12	43:BN:35:SER:H	1.23	0.99
46:BQ:10:PRO:HB2	46:BQ:45:VAL:CG1	1.92	0.99
57:BZ:2:ILE:HG23	57:BZ:268:ALA:HB2	1.00	0.99
57:BZ:406:ASP:HA	57:BZ:407:VAL:CG2	1.91	0.99
3:AC:67:GLY:N	3:AC:184:LYS:HE2	1.78	0.99
5:AE:116:VAL:CG2	5:AE:138:PRO:HA	1.93	0.99
6:AF:153:SER:O	6:AF:190:GLU:HB2	1.61	0.99
32:AJ:11:GLN:HA	32:AJ:56:GLU:HB2	1.40	0.99
1:AA:2392:A:H1'	11:AM:55:ARG:HH12	0.84	0.99
1:AA:636:G:N2	11:AM:75:ILE:HD12	1.77	0.99
17:AS:62:LEU:HD22	17:AS:98:GLU:HA	1.44	0.99
19:AU:12:VAL:HB	19:AU:27:THR:O	1.60	0.99
34:BA:1449:C:N4	34:BA:1454:G:O6	1.95	0.99
41:BL:80:ILE:HD12	41:BL:80:ILE:H	1.25	0.99
42:BM:47:LEU:HD13	42:BM:50:LEU:HB3	1.44	0.99
43:BN:30:SER:HB2	43:BN:81:THR:CA	1.91	0.99
57:BZ:13:HIS:CG	57:BZ:108:GLN:HG2	1.96	0.99
57:BZ:379:GLU:CG	57:BZ:581:THR:HA	1.93	0.99
1:AA:1051:G:O4'	1:AA:2752:C:P	2.21	0.99
1:AA:2018:G:H1'	16:AR:34:LYS:HZ2	1.27	0.99
1:AA:2581:G:N1	1:AA:2610:C:H6	1.60	0.99
1:AA:5:A:C2	1:AA:2899:G:C4	2.50	0.99
5:AE:36:ARG:HD2	5:AE:41:LYS:HZ1	1.26	0.99
5:AE:49:LEU:HG	5:AE:74:PRO:HG2	1.43	0.99
8:AH:84:SER:HA	8:AH:134:SER:HA	1.43	0.99
32:AJ:72:PRO:HG3	32:AJ:77:LEU:HD21	1.00	0.99
10:AL:7:TYR:HB3	10:AL:18:LYS:NZ	1.76	0.99
24:AZ:45:GLY:O	24:AZ:48:GLU:HG2	1.61	0.99
34:BA:1318:A:H1'	52:BW:35:SER:OG	0.82	0.99
34:BA:1441:G:N3	34:BA:1460:A:N6	2.11	0.99
39:BJ:48:LEU:HB3	51:BV:78:LEU:HD23	1.44	0.99
40:BK:143:ARG:HH11	40:BK:144:MET:HB2	1.25	0.99
34:BA:1226:C:C5	46:BQ:104:ARG:HB2	1.97	0.99
50:BU:62:SER:OG	50:BU:72:ARG:HG2	1.61	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1318:A:H3'	52:BW:37:ARG:HB3	1.44	0.99
57:BZ:127:ILE:CB	57:BZ:164:TYR:HA	1.91	0.99
57:BZ:19:THR:HA	57:BZ:21:LEU:N	1.77	0.99
57:BZ:381:ALA:CB	57:BZ:577:LEU:HB3	1.92	0.99
57:BZ:381:ALA:HB1	57:BZ:577:LEU:HB3	1.41	0.99
57:BZ:63:ALA:HB1	57:BZ:65:LYS:HG2	1.42	0.99
57:BZ:69:ARG:HG3	57:BZ:71:ASN:HB2	1.42	0.99
1:AA:1068:G:N3	1:AA:1069:A:N6	2.10	0.99
1:AA:1555:G:H2'	1:AA:1556:C:H6	1.16	0.99
1:AA:2181:G:N2	1:AA:2182:G:N1	2.08	0.99
1:AA:241:A:H1'	1:AA:243:U:H1'	1.41	0.99
1:AA:2675:A:H4'	10:AL:29:ASN:OD1	1.62	0.99
1:AA:2714:G:H2'	1:AA:2715:C:H5'	1.42	0.99
5:AE:114:ALA:HB3	5:AE:118:LYS:HB2	1.45	0.99
15:AQ:29:ARG:HG2	15:AQ:51:ARG:HG2	1.45	0.99
17:AS:5:VAL:HG11	17:AS:37:VAL:HG13	1.44	0.99
21:AW:2:GLU:O	21:AW:60:GLU:HA	1.60	0.99
34:BA:1197:G:H3'	34:BA:1197:G:OP1	1.62	0.99
34:BA:1349:A:OP2	42:BM:118:LYS:HD2	1.61	0.99
34:BA:112:G:H5'	34:BA:389:A:H4'	1.41	0.99
34:BA:408:A:H2'	34:BA:409:G:H8	1.17	0.99
36:BG:15:THR:HG21	36:BG:181:ASN:HA	1.41	0.99
37:BH:60:GLU:OE2	37:BH:199:ASN:HB3	1.61	0.99
38:BI:51:VAL:HB	38:BI:52:PRO:HD3	1.44	0.99
46:BQ:10:PRO:HB3	46:BQ:18:ALA:HB2	1.42	0.99
57:BZ:2:ILE:HG21	57:BZ:199:VAL:CB	1.93	0.99
1:AA:1107:G:H2'	1:AA:1108:U:H5'	1.41	0.99
1:AA:1158:C:H4'	24:AZ:32:GLN:HE21	1.23	0.99
1:AA:2176:A:H3'	3:AC:221:SER:OG	1.61	0.99
3:AC:175:VAL:HG11	3:AC:189:ILE:HA	1.38	0.99
14:AP:9:ARG:CB	14:AP:9:ARG:HH11	1.75	0.99
34:BA:1268:A:H2	34:BA:1311:G:C1'	1.74	0.99
57:BZ:156:GLU:HA	57:BZ:158:LEU:N	1.77	0.99
57:BZ:15:ASP:HB3	57:BZ:16:HIS:ND1	1.76	0.99
57:BZ:407:VAL:O	57:BZ:436:ARG:HB3	1.57	0.99
57:BZ:496:ALA:HB1	57:BZ:513:GLY:O	1.62	0.99
1:AA:2459:A:N3	1:AA:2460:U:C1'	2.26	0.99
1:AA:2558:C:C4'	57:BZ:543:LEU:HD21	1.93	0.99
3:AC:46:LYS:HD3	3:AC:210:ARG:HB2	1.43	0.99
1:AA:1081:U:C5'	32:AJ:125:ARG:CD	2.40	0.99
10:AL:64:ARG:HG3	10:AL:64:ARG:HH21	1.28	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:131:SER:O	11:AM:134:ALA:HB3	1.62	0.99
16:AR:44:ASN:ND2	17:AS:78:LYS:HG2	1.76	0.99
34:BA:1115:C:N3	34:BA:1186:G:C6	2.31	0.99
35:BF:111:ARG:HA	35:BF:111:ARG:HH11	1.25	0.99
34:BA:1206:G:H5'	36:BG:194:GLY:HA2	1.45	0.99
46:BQ:92:HIS:CE1	46:BQ:110:ARG:NH1	2.25	0.99
51:BV:74:ARG:HB3	51:BV:81:PHE:CD2	1.98	0.99
57:BZ:54:ILE:CG1	57:BZ:211:GLN:HE22	1.76	0.99
57:BZ:383:SER:HB3	57:BZ:384:ARG:HA	1.42	0.99
1:AA:2553:G:H21	1:AA:2554:U:C1'	1.74	0.99
1:AA:2532:G:O2'	1:AA:2664:G:O2'	1.79	0.99
1:AA:279:C:N4	1:AA:359:A:N3	2.11	0.99
1:AA:893:C:C5	1:AA:894:C:C5	2.51	0.99
2:AB:89(A):A:C2'	2:AB:90:C:H5'	1.93	0.99
6:AF:80:ALA:H	6:AF:83:PHE:HE2	1.11	0.99
7:AG:53:LEU:HD23	7:AG:71:THR:H	1.26	0.99
32:AJ:105:LEU:HA	32:AJ:123:ALA:HB1	1.40	0.99
32:AJ:75:SER:CA	32:AJ:130:SER:CB	2.35	0.99
12:AN:121:ALA:O	12:AN:125:LEU:HG	1.62	0.99
34:BA:37:U:H3'	34:BA:37:U:C6	1.96	0.99
56:BE:14:A:C2'	56:BE:15:G:H5'	1.93	0.99
38:BI:12:LEU:HB3	38:BI:31:LEU:HB3	1.44	0.99
41:BL:129:VAL:HG22	41:BL:130:GLY:H	1.26	0.99
41:BL:46:LYS:HE3	41:BL:64:LYS:HG3	1.44	0.99
56:BD:68:C:H2'	56:BD:69:G:H8	1.28	0.99
1:AA:1055:G:N3	1:AA:1084:A:H2	1.61	0.98
1:AA:1557:C:H2'	1:AA:1558:A:C8	1.97	0.98
1:AA:878:A:N3	1:AA:879:G:C8	2.31	0.98
1:AA:979:G:H3'	1:AA:980:A:H5''	1.40	0.98
8:AH:7:LEU:HG	8:AH:51:ARG:HH21	1.28	0.98
15:AQ:111:ARG:HA	15:AQ:114:LEU:HD12	1.44	0.98
17:AS:40:LEU:HD23	17:AS:51:VAL:HG12	1.45	0.98
34:BA:1143:G:H2'	34:BA:1144:G:H8	1.27	0.98
34:BA:129(A):G:H2'	34:BA:189:U:C6	1.98	0.98
34:BA:384:G:H2'	34:BA:385:C:C6	1.98	0.98
34:BA:495:A:H1'	34:BA:496:A:C8	1.98	0.98
34:BA:570:G:HO2'	34:BA:819:A:H8	1.07	0.98
37:BH:187:ARG:NE	37:BH:188:LEU:HG	1.76	0.98
40:BK:31:MET:HG2	40:BK:32:ARG:N	1.77	0.98
34:BA:1226:C:C5	46:BQ:104:ARG:HG3	1.97	0.98
50:BU:59:ILE:HD12	50:BU:60:ILE:H	1.28	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:165:ALA:HA	57:BZ:171:ILE:HG22	1.45	0.98
1:AA:1206:G:H3'	1:AA:1206:G:H8	1.28	0.98
1:AA:175:G:O2'	1:AA:176:G:H5'	1.64	0.98
1:AA:325:G:H2'	1:AA:326:G:C8	1.97	0.98
1:AA:969:U:H2'	1:AA:970:C:O4'	1.64	0.98
2:AB:37:C:H2'	2:AB:38:C:O4'	1.61	0.98
2:AB:71:C:H2'	2:AB:72:G:C5'	1.93	0.98
6:AF:89:VAL:HG12	6:AF:90:PHE:N	1.73	0.98
32:AJ:27:LEU:HD22	32:AJ:58:THR:N	1.79	0.98
16:AR:17:ILE:HA	16:AR:20:LEU:CG	1.93	0.98
16:AR:17:ILE:CA	16:AR:20:LEU:HG	1.93	0.98
21:AW:57:ILE:HG23	21:AW:69:THR:O	1.62	0.98
21:AW:30:ASN:HB2	21:AW:90:VAL:HG23	1.40	0.98
34:BA:1066:C:H3'	34:BA:1067:A:H8	1.27	0.98
34:BA:169:C:H2'	34:BA:170:U:C6	1.98	0.98
35:BF:54:THR:HG21	35:BF:201:ILE:HD11	1.42	0.98
35:BF:55:PHE:HA	35:BF:58:ILE:CD1	1.91	0.98
37:BH:36:ARG:HB3	37:BH:38:TYR:CZ	1.98	0.98
40:BK:113:GLU:HG3	40:BK:118:VAL:HB	1.42	0.98
46:BQ:20:THR:HA	46:BQ:26:GLY:CA	1.92	0.98
57:BZ:18:LYS:HB2	60:BZ:701:GCP:O2B	1.33	0.98
57:BZ:206:GLN:O	57:BZ:227:LYS:N	1.96	0.98
1:AA:1488:G:C2'	1:AA:1489:U:H5'	1.93	0.98
1:AA:1042:G:C5	1:AA:1113:U:C4	2.46	0.98
1:AA:1902:C:C6	1:AA:1903:G:N7	2.30	0.98
1:AA:1977:A:H2'	1:AA:1978:A:H8	1.28	0.98
1:AA:2631:G:OP2	1:AA:2894:G:O2'	1.80	0.98
1:AA:10:G:H21	1:AA:2801:A:H1'	1.29	0.98
1:AA:6:A:N1	1:AA:2897:U:C2	2.31	0.98
32:AJ:84:LEU:O	32:AJ:86:LYS:NZ	1.95	0.98
10:AL:117:LEU:O	10:AL:119:PRO:HD3	1.61	0.98
12:AN:121:ALA:O	12:AN:124:LYS:HB2	1.63	0.98
14:AP:71:ARG:O	14:AP:74:ALA:HB3	1.62	0.98
15:AQ:53:ARG:NE	15:AQ:53:ARG:HA	1.73	0.98
34:BA:1288:A:H2'	34:BA:1289:A:H8	1.27	0.98
34:BA:1477:C:H2'	34:BA:1478:C:C6	1.97	0.98
34:BA:174:C:H2'	34:BA:175:C:H6	1.26	0.98
38:BI:152:ARG:CZ	41:BL:43:GLY:HA3	1.93	0.98
45:BP:101:VAL:O	45:BP:104:VAL:HG23	1.64	0.98
49:BT:4:ILE:HG23	49:BT:21:VAL:CG1	1.93	0.98
57:BZ:248:ASN:ND2	57:BZ:273:ILE:CG1	2.25	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:81:PHE:CG	57:BZ:365:HIS:HD2	1.60	0.98
32:AJ:25:PRO:CG	57:BZ:429:MET:HE2	1.83	0.98
1:AA:1178:C:H2'	1:AA:1179:C:C6	1.98	0.98
1:AA:1450:C:O2'	1:AA:1451:C:H4'	1.63	0.98
1:AA:1902:C:H2'	1:AA:1903:G:C5'	1.93	0.98
1:AA:1907:G:N1	1:AA:1924:C:N4	1.68	0.98
1:AA:2651:C:C2	1:AA:2670:A:C6	2.48	0.98
1:AA:2506:U:H3'	59:AA:3002:8AN:HN3'	0.83	0.98
1:AA:472:A:H2'	1:AA:473:G:H5''	1.45	0.98
1:AA:895:U:C4'	1:AA:896:A:H5'	1.93	0.98
1:AA:914:C:H3'	1:AA:914:C:H6	1.25	0.98
1:AA:2175:C:C4	3:AC:219:GLY:O	2.16	0.98
13:AO:10:LEU:HD13	13:AO:21:TYR:OH	1.64	0.98
18:AT:28:SER:HA	18:AT:70:TYR:HA	1.45	0.98
21:AW:165:VAL:HG12	21:AW:166:SER:N	1.75	0.98
34:BA:1005:A:H3'	34:BA:1006:C:H6	1.24	0.98
35:BF:102:LEU:CD1	35:BF:102:LEU:H	1.77	0.98
36:BG:30:ARG:HG2	36:BG:31:HIS:H	1.27	0.98
43:BN:23:ILE:HG13	43:BN:85:LEU:HB3	1.45	0.98
46:BQ:2:ALA:N	46:BQ:10:PRO:HD2	1.78	0.98
46:BQ:19:LEU:HD11	46:BQ:30:ALA:CB	1.93	0.98
46:BQ:80:ARG:NH1	46:BQ:81:LEU:HD12	1.78	0.98
52:BW:9:VAL:HG13	52:BW:41:VAL:CA	1.92	0.98
57:BZ:233:PRO:CG	57:BZ:248:ASN:HD22	1.77	0.98
57:BZ:482:GLN:CA	57:BZ:573:ASP:OD2	2.11	0.98
57:BZ:62:ALA:HB1	57:BZ:187:TYR:HD2	1.26	0.98
1:AA:2491:U:C6	1:AA:2492:U:H5'	1.98	0.98
1:AA:2648:C:H3'	1:AA:2649:U:C5	1.96	0.98
1:AA:575:A:O2'	1:AA:576:U:H5'	1.63	0.98
3:AC:83:ILE:O	3:AC:87:GLU:HB2	1.63	0.98
4:AD:70:TRP:HA	4:AD:73:VAL:HG13	1.43	0.98
6:AF:122:LYS:HE3	6:AF:192:LEU:HD12	1.45	0.98
6:AF:131:GLY:HA2	6:AF:138:GLU:HG3	1.41	0.98
32:AJ:14:ALA:CA	32:AJ:48:MET:O	2.11	0.98
9:AK:86:PRO:HB2	9:AK:89:LYS:NZ	1.79	0.98
9:AK:96:GLU:O	9:AK:99:LEU:HG	1.61	0.98
10:AL:24:VAL:HA	10:AL:39:ILE:HG22	1.45	0.98
12:AN:134:ARG:HE	12:AN:137:TYR:HA	1.25	0.98
12:AN:26:TYR:HD1	12:AN:27:VAL:H	1.01	0.98
13:AO:41:ALA:HB1	13:AO:114:VAL:HG21	1.43	0.98
24:AZ:12:PRO:HA	24:AZ:15:TYR:CE2	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1137:C:H4'	34:BA:1138:G:C2	1.98	0.98
34:BA:1442:G:N2	34:BA:1446:A:H5''	1.77	0.98
40:BK:143:ARG:NH1	40:BK:144:MET:HB2	1.78	0.98
41:BL:100:ILE:H	41:BL:100:ILE:HD12	1.27	0.98
41:BL:102:ARG:CZ	41:BL:102:ARG:HB3	1.93	0.98
49:BT:6:LEU:HD13	49:BT:6:LEU:H	1.29	0.98
52:BW:69:HIS:HB2	52:BW:74:PHE:CZ	1.96	0.98
57:BZ:15:ASP:CB	57:BZ:16:HIS:CG	2.38	0.98
57:BZ:172:ALA:CB	57:BZ:179:MET:HE1	1.89	0.98
57:BZ:205:PHE:O	57:BZ:289:CYS:HB3	1.59	0.98
3:AC:44:HIS:CE1	3:AC:215:THR:N	2.16	0.98
3:AC:86:ALA:HA	3:AC:150:GLY:HA2	1.45	0.98
8:AH:145:ALA:O	8:AH:148:ILE:HG22	1.60	0.98
32:AJ:12:LEU:HD21	32:AJ:57:ILE:HG21	1.45	0.98
16:AR:17:ILE:HA	16:AR:20:LEU:HG	0.99	0.98
19:AU:73:ARG:HB3	19:AU:73:ARG:HH11	1.26	0.98
21:AW:152:ALA:HB3	21:AW:168:GLU:HA	1.43	0.98
34:BA:1329:A:O3'	46:BQ:24:GLY:O	1.72	0.98
34:BA:678:U:H2'	34:BA:679:C:H6	1.26	0.98
34:BA:781:A:H4'	34:BA:1522:U:O2'	1.64	0.98
40:BK:140:ASP:HA	40:BK:143:ARG:CZ	1.91	0.98
46:BQ:19:LEU:CD1	46:BQ:30:ALA:N	2.26	0.98
57:BZ:73:VAL:HG21	57:BZ:88:VAL:HG21	1.46	0.98
1:AA:1047:G:C2'	1:AA:1110:G:N9	2.20	0.98
1:AA:1912:A:H2'	34:BA:1495:U:C6	1.95	0.98
1:AA:271(B):G:H4'	1:AA:271(C):U:OP2	1.64	0.98
1:AA:2630:G:O4'	1:AA:2894:G:N3	1.92	0.98
1:AA:640:C:H2'	1:AA:641:C:C5'	1.94	0.98
2:AB:67:G:H2'	2:AB:68:C:H6	1.28	0.98
3:AC:103:ILE:HB	3:AC:127:LEU:HD21	1.44	0.98
6:AF:103:LYS:HA	6:AF:106:ARG:HG2	1.41	0.98
1:AA:1061:U:H2'	32:AJ:52:ILE:HD13	1.42	0.98
12:AN:106:VAL:HG22	12:AN:107:ALA:N	1.78	0.98
20:AV:75:ILE:HG22	20:AV:100:ALA:HB2	1.44	0.98
34:BA:983:A:H1'	34:BA:1201:A:N7	1.77	0.98
46:BQ:19:LEU:C	46:BQ:25:ILE:CG2	2.31	0.98
46:BQ:12:ASN:C	46:BQ:44:ARG:O	2.01	0.98
57:BZ:172:ALA:HA	57:BZ:179:MET:SD	2.00	0.98
56:BD:5:G:H2'	56:BD:6:G:C8	1.98	0.98
1:AA:1300:U:H2'	1:AA:1626:G:N2	1.79	0.98
1:AA:1977:A:H2'	1:AA:1978:A:C8	1.99	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2128:C:C5'	3:AC:35:ALA:HB1	1.94	0.98
1:AA:531:C:H42	16:AR:38:THR:HA	1.25	0.98
1:AA:878:A:C2'	1:AA:879:G:H5''	1.93	0.98
1:AA:2177:C:C5'	3:AC:223:ARG:HB2	1.93	0.98
4:AD:147:LEU:HA	4:AD:185:VAL:HG13	1.46	0.98
5:AE:105:THR:O	5:AE:196:VAL:HG13	1.63	0.98
32:AJ:21:PRO:HD2	32:AJ:22:PRO:HD3	1.40	0.98
12:AN:12:GLN:HE22	12:AN:13:GLN:NE2	1.59	0.98
12:AN:74:TYR:OH	12:AN:94:VAL:HG22	1.62	0.98
21:AW:158:PRO:HB2	21:AW:159:PRO:HD2	1.45	0.98
22:AX:29:GLN:O	22:AX:67:VAL:HG23	1.64	0.98
22:AX:65:GLY:HA3	22:AX:81:VAL:HG12	1.45	0.98
34:BA:1151:A:C5	34:BA:1152:A:C8	2.51	0.98
34:BA:1320:C:H6	52:BW:36:ARG:HG3	1.15	0.98
46:BQ:8:GLU:HB2	46:BQ:22:ILE:HG12	1.40	0.98
52:BW:11:VAL:CG2	52:BW:16:LEU:HD13	1.94	0.98
57:BZ:287:THR:O	57:BZ:297:LEU:HD21	1.63	0.98
57:BZ:502:PHE:CZ	57:BZ:555:VAL:C	2.37	0.98
56:BD:51:U:O4	56:BD:64:A:C6	2.15	0.98
1:AA:1059:G:H4'	32:AJ:74:ALA:H	1.28	0.98
1:AA:2660:A:H2	57:BZ:456:MET:CB	1.74	0.98
1:AA:559:G:H2'	1:AA:560:C:H6	1.21	0.98
8:AH:118:PRO:HD2	8:AH:121:ILE:HD13	1.42	0.98
32:AJ:52:ILE:HG13	32:AJ:76:TYR:CG	1.98	0.98
32:AJ:79:ARG:NH1	32:AJ:84:LEU:HD21	1.76	0.98
14:AP:9:ARG:HB2	14:AP:9:ARG:HH11	1.25	0.98
16:AR:27:LEU:O	16:AR:31:SER:HB3	1.62	0.98
1:AA:1224:G:H2'	17:AS:87:HIS:NE2	1.77	0.98
17:AS:62:LEU:HD22	17:AS:99:ILE:H	1.25	0.98
34:BA:1234:C:H5'	34:BA:1364:U:O2'	1.63	0.98
56:BE:18:G:H21	56:BE:58:A:H5'	0.84	0.98
52:BW:9:VAL:HG22	52:BW:42:PRO:CG	1.93	0.98
57:BZ:239:ILE:H	57:BZ:244:GLY:HA3	1.25	0.98
57:BZ:243:GLU:HG2	57:BZ:244:GLY:H	1.26	0.98
1:AA:185:U:H2'	1:AA:186:G:C8	1.99	0.98
1:AA:2041:U:H2'	1:AA:2042:A:H8	1.23	0.98
1:AA:2671:A:H2'	1:AA:2672:G:C8	1.99	0.98
3:AC:65:PRO:HD2	3:AC:187:ASP:OD1	1.62	0.98
3:AC:62:VAL:CB	3:AC:191:ALA:C	2.16	0.98
4:AD:168:ARG:HD3	4:AD:173:VAL:HG22	1.45	0.98
2:AB:7:G:H4'	14:AP:29:PHE:CE2	1.99	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:993:G:H1'	17:AS:91:TYR:CE2	1.99	0.98
18:AT:14:PRO:HD3	18:AT:78:GLU:OE1	1.62	0.98
34:BA:1339:A:H2'	34:BA:1340:A:H5'	1.44	0.98
34:BA:50:A:C5'	34:BA:51:A:H5'	1.92	0.98
56:BE:16:U:N3	56:BE:59:U:N3	1.95	0.98
41:BL:82:HIS:O	41:BL:137:VAL:HA	1.64	0.98
50:BU:18:THR:HG22	50:BU:43:LEU:HD21	1.42	0.98
51:BV:41:LYS:O	51:BV:44:LEU:HG	1.63	0.98
52:BW:27:GLU:HG2	52:BW:29:ARG:H	1.29	0.98
57:BZ:2:ILE:HG22	57:BZ:199:VAL:HG21	1.01	0.98
57:BZ:397:GLN:CB	57:BZ:472:TYR:C	2.30	0.98
57:BZ:488:LEU:HG	57:BZ:525:GLY:C	1.82	0.98
56:BD:52:G:C6	56:BD:63:G:C2	2.52	0.98
31:AI:94:VAL:HA	31:AI:134:LEU:N	1.78	0.98
1:AA:1069:A:N1	1:AA:1096:A:C5'	2.26	0.97
1:AA:1037:G:C6	1:AA:1119:C:N3	2.32	0.97
1:AA:1902:C:C5	1:AA:1903:G:C5	2.51	0.97
1:AA:27:G:N1	1:AA:512:G:H2'	1.78	0.97
1:AA:296:C:H2'	1:AA:297:C:C6	1.98	0.97
4:AD:39:LYS:HA	4:AD:62:TYR:HB2	1.41	0.97
5:AE:11:MET:O	5:AE:22:PRO:HD2	1.62	0.97
16:AR:67:ALA:HA	16:AR:70:ARG:HH21	1.27	0.97
1:AA:996:A:H4'	16:AR:93:LYS:HG3	1.43	0.97
34:BA:1110:A:H2'	34:BA:1111:A:H5'	1.46	0.97
34:BA:1162:C:C2	34:BA:1163:C:C5	2.50	0.97
34:BA:1108:G:H4'	34:BA:1191:A:H1'	1.46	0.97
34:BA:1241:G:H2'	34:BA:1242:C:C6	1.98	0.97
34:BA:1309:G:N2	34:BA:1328:C:C6	2.31	0.97
36:BG:36:ASP:O	36:BG:39:ILE:HB	1.61	0.97
36:BG:52:LEU:HA	36:BG:70:VAL:HG22	1.41	0.97
39:BJ:14:LEU:CD1	39:BJ:15:ASP:H	1.75	0.97
46:BQ:10:PRO:CB	46:BQ:45:VAL:CG1	2.41	0.97
57:BZ:253:LYS:CE	57:BZ:269:GLU:HB3	1.92	0.97
57:BZ:305:PRO:HB2	57:BZ:361:ARG:HA	1.43	0.97
1:AA:2812:G:H2'	1:AA:2813:A:C8	1.99	0.97
1:AA:451:C:H41	1:AA:453:C:H3'	1.26	0.97
1:AA:2175:C:C2	3:AC:219:GLY:C	2.35	0.97
3:AC:43:VAL:HG22	3:AC:224:ILE:HG21	1.46	0.97
7:AG:36:LYS:HE2	7:AG:38:VAL:HG13	1.41	0.97
10:AL:94:ARG:HG3	10:AL:95:GLY:N	1.78	0.97
19:AU:73:ARG:HB3	19:AU:73:ARG:NH1	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:4:ARG:HG2	21:AW:5:LEU:N	1.74	0.97
34:BA:1226:C:C1'	52:BW:80:TYR:CG	2.20	0.97
34:BA:1269:A:N3	34:BA:1312:G:N3	1.85	0.97
34:BA:1443:G:H4'	34:BA:1446:A:C5'	1.93	0.97
56:BE:18:G:C8	56:BE:58:A:C2	2.52	0.97
37:BH:20:TYR:HA	37:BH:26:CYS:O	1.61	0.97
46:BQ:10:PRO:HG2	46:BQ:45:VAL:HG13	1.41	0.97
1:AA:2556:C:C2	57:BZ:546:MET:HE1	1.98	0.97
56:BD:28:G:H1	56:BD:42:C:H42	1.03	0.97
1:AA:1047:G:H5'	1:AA:1110:G:O6	1.62	0.97
1:AA:1697:G:C5'	1:AA:1698:A:H5'	1.93	0.97
1:AA:1784:A:O2'	1:AA:1785:A:OP2	1.82	0.97
1:AA:2596:U:C2'	4:AD:242:ARG:CZ	2.42	0.97
2:AB:48:A:H2'	2:AB:49:C:C6	1.98	0.97
6:AF:160:ASN:O	6:AF:163:VAL:HB	1.61	0.97
8:AH:17:VAL:HG21	8:AH:45:VAL:HG11	1.44	0.97
32:AJ:82:ALA:HA	32:AJ:99:ILE:HG21	0.97	0.97
1:AA:2025:C:H5'	9:AK:78:TYR:HH	1.18	0.97
13:AO:20:LEU:CD2	13:AO:24:GLN:HG3	1.94	0.97
18:AT:4:LYS:HA	18:AT:106:ILE:HD12	1.45	0.97
34:BA:1239:A:H4'	34:BA:1240:U:H5''	1.47	0.97
34:BA:265:G:H2'	34:BA:267:C:H5	1.27	0.97
34:BA:902:G:O2'	34:BA:903:G:H5'	1.62	0.97
56:BE:3:C:H2'	56:BE:4:C:C6	1.97	0.97
1:AA:2660:A:N3	57:BZ:456:MET:C	2.17	0.97
57:BZ:82:GLY:HA3	57:BZ:361:ARG:HD2	0.97	0.97
31:AI:54:ALA:N	31:AI:84:GLU:O	1.96	0.97
1:AA:1106:G:H2'	1:AA:1107:G:C8	1.98	0.97
1:AA:1351:C:H2'	1:AA:1352:U:C6	2.00	0.97
1:AA:1518:C:H3'	1:AA:1519:G:H5''	1.43	0.97
1:AA:1961:C:C5'	34:BA:1484:C:H4'	1.94	0.97
1:AA:2126:A:C5	1:AA:2163:C:H4'	1.99	0.97
1:AA:343:C:O2'	1:AA:344:G:H5'	1.63	0.97
1:AA:1803:A:H4'	4:AD:257:LEU:HD13	1.41	0.97
5:AE:8:LYS:H	5:AE:8:LYS:HE2	3.94	0.97
32:AJ:17:ALA:HB2	32:AJ:41:PHE:C	1.83	0.97
24:AZ:9:VAL:HG22	24:AZ:53:LEU:O	1.63	0.97
34:BA:1256:A:O3'	34:BA:1257:U:H4'	1.62	0.97
34:BA:41:G:H2'	34:BA:42:G:C8	1.98	0.97
37:BH:11:LEU:O	37:BH:19:LEU:HD12	1.64	0.97
41:BL:98:LYS:N	41:BL:98:LYS:HZ2	1.61	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1081:U:C5	1:AA:1082:U:C4	2.53	0.97
1:AA:674:G:H4'	6:AF:74:ARG:CZ	1.95	0.97
9:AK:30:ILE:O	9:AK:34:LEU:HD12	1.64	0.97
20:AV:97:ARG:HA	20:AV:101:LYS:HG3	1.46	0.97
20:AV:49:VAL:HG21	20:AV:51:VAL:HB	1.46	0.97
21:AW:118:GLN:HB2	21:AW:144:LEU:HD22	1.44	0.97
21:AW:157:LEU:HD13	21:AW:161:VAL:HG13	1.44	0.97
34:BA:1317:C:N3	34:BA:1318:A:N3	2.06	0.97
34:BA:958:A:H1'	52:BW:55:LYS:HZ3	1.21	0.97
41:BL:45:ILE:CD1	41:BL:48:TYR:HB3	1.94	0.97
57:BZ:207:MET:HG3	57:BZ:226:ILE:HD11	1.01	0.97
57:BZ:251:VAL:HG12	57:BZ:273:ILE:C	1.85	0.97
57:BZ:73:VAL:CG2	57:BZ:88:VAL:CG1	2.41	0.97
1:AA:1105:U:C2'	1:AA:1107:G:C8	2.47	0.97
1:AA:2064:C:H1'	1:AA:2450:A:N6	1.79	0.97
1:AA:2532:G:C3'	1:AA:2657:A:C2	2.41	0.97
2:AB:77:U:O3'	21:AW:78:LYS:HE3	1.62	0.97
4:AD:134:ARG:CA	4:AD:168:ARG:HH12	1.76	0.97
5:AE:30:PRO:HB2	5:AE:48:GLN:HB2	1.45	0.97
13:AO:16:HIS:O	13:AO:19:ALA:HB3	1.63	0.97
15:AQ:64:ARG:HA	15:AQ:64:ARG:HH11	0.81	0.97
17:AS:14:VAL:HG12	17:AS:15:GLU:H	1.27	0.97
18:AT:82:LEU:HD12	18:AT:84:ARG:HG3	1.43	0.97
19:AU:72:LYS:O	19:AU:73:ARG:HB2	1.65	0.97
34:BA:1241:G:H2'	34:BA:1242:C:H6	1.29	0.97
40:BK:87:VAL:HG13	40:BK:152:ALA:HA	1.44	0.97
45:BP:85:ILE:HD11	45:BP:99:HIS:N	1.80	0.97
34:BA:1220:G:C2	52:BW:55:LYS:HA	1.98	0.97
57:BZ:205:PHE:C	57:BZ:228:ARG:O	2.02	0.97
57:BZ:497:VAL:HA	57:BZ:514:HIS:HE1	1.23	0.97
1:AA:1022:G:H4'	1:AA:1022:G:OP1	1.62	0.97
1:AA:1222:C:N4	1:AA:1227:A:N6	2.12	0.97
1:AA:1906:G:C1'	1:AA:1929:G:N7	2.26	0.97
1:AA:1906:G:N3	1:AA:1929:G:O6	1.97	0.97
1:AA:603:A:N6	1:AA:624:C:N4	2.11	0.97
3:AC:47:LEU:HA	3:AC:210:ARG:H	1.27	0.97
5:AE:8:LYS:HB3	5:AE:24:THR:HB	1.46	0.97
1:AA:443:A:H5'	6:AF:45:ARG:HH12	1.27	0.97
6:AF:66:PRO:C	6:AF:68:LYS:H	1.64	0.97
12:AN:59:ARG:HH22	21:AW:177:PRO:HB3	1.30	0.97
15:AQ:70:VAL:HB	15:AQ:74:ARG:NH1	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:53:ARG:HH11	16:AR:53:ARG:HB2	1.29	0.97
34:BA:1342:C:H1'	42:BM:124:GLN:OE1	1.65	0.97
34:BA:1455:G:C3'	53:BX:31:SER:HG	1.72	0.97
57:BZ:407:VAL:O	57:BZ:436:ARG:CA	2.13	0.97
57:BZ:14:VAL:HA	57:BZ:78:HIS:CD2	1.98	0.97
1:AA:1669:A:H5''	1:AA:2550:G:OP1	1.65	0.97
1:AA:2667:C:H3'	1:AA:2668:G:H8	1.30	0.97
3:AC:46:LYS:HD3	3:AC:210:ARG:CB	1.93	0.97
3:AC:22:ILE:HD13	3:AC:190:ARG:NH2	1.80	0.97
3:AC:43:VAL:CG2	3:AC:224:ILE:CD1	2.38	0.97
1:AA:1844:C:OP1	4:AD:255:LYS:HA	1.64	0.97
4:AD:63:ARG:HH11	4:AD:85:ASP:HB2	1.27	0.97
5:AE:108:SER:OG	5:AE:164:ARG:HA	1.64	0.97
7:AG:101:ILE:O	7:AG:101:ILE:HD13	1.65	0.97
13:AO:57:ARG:NE	13:AO:62:ALA:HB2	1.80	0.97
15:AQ:30:VAL:HG22	15:AQ:32:TYR:CE2	1.99	0.97
1:AA:297:C:H5''	20:AV:83:THR:OG1	1.62	0.97
34:BA:1317:C:O2'	34:BA:1318:A:H5'	0.90	0.97
34:BA:962:C:H4'	34:BA:1200:C:N4	1.78	0.97
50:BU:59:ILE:CD1	50:BU:71:PHE:HB3	1.95	0.97
50:BU:68:ARG:H	50:BU:70:ARG:NH2	1.62	0.97
51:BV:45:SER:CB	51:BV:51:LEU:HD11	1.95	0.97
57:BZ:141:VAL:HG23	57:BZ:164:TYR:OH	1.65	0.97
1:AA:1507:A:H2'	1:AA:1507:A:N3	1.80	0.97
1:AA:1058:G:H1'	32:AJ:116:ASN:ND2	1.79	0.97
1:AA:1559:G:H1	1:AA:1560:G:H4'	1.27	0.97
1:AA:1695:G:N3	1:AA:1695:G:H3'	1.80	0.97
1:AA:1799:G:H1	4:AD:157:ARG:HH12	1.01	0.97
1:AA:1773:A:N6	1:AA:1829:A:H1'	1.80	0.97
1:AA:2018:G:H1'	16:AR:34:LYS:NZ	1.80	0.97
1:AA:2123:G:O5'	3:AC:172:HIS:CE1	2.16	0.97
1:AA:349:G:H2'	1:AA:350:U:C6	2.00	0.97
4:AD:7:LYS:CG	4:AD:25:THR:HG22	1.93	0.97
5:AE:52:LEU:HA	5:AE:74:PRO:HA	1.42	0.97
9:AK:109:LYS:NZ	9:AK:110:GLY:H	1.63	0.97
12:AN:23:GLY:CA	12:AN:101:ARG:HH21	1.77	0.97
13:AO:83:ILE:HG23	13:AO:86:ARG:CZ	1.95	0.97
13:AO:99:LYS:CD	13:AO:99:LYS:H	1.74	0.97
14:AP:25:ARG:HA	14:AP:87:PHE:O	1.64	0.97
1:AA:1248:G:C8	16:AR:2:PRO:HA	2.00	0.97
18:AT:48:ALA:HA	18:AT:51:LEU:HD22	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:31:LEU:HD12	24:AZ:32:GLN:HE22	1.28	0.97
34:BA:1129:C:H5'	34:BA:1130:A:OP1	1.64	0.97
34:BA:1115:C:C2	34:BA:1186:G:C6	2.52	0.97
34:BA:37:U:OP1	45:BP:123:LYS:HB3	1.63	0.97
41:BL:36:LEU:H	41:BL:36:LEU:HD23	1.30	0.97
45:BP:60:LEU:H	45:BP:60:LEU:HD13	1.25	0.97
48:BS:80:ALA:O	48:BS:83:GLU:HB3	1.63	0.97
57:BZ:19:THR:CB	57:BZ:22:VAL:HG22	1.95	0.97
57:BZ:390:ARG:HG2	57:BZ:391:GLU:CG	1.93	0.97
1:AA:2135:A:H4'	1:AA:2136:C:C5	1.98	0.97
1:AA:911:A:C8	1:AA:2264:C:H1'	2.00	0.97
1:AA:289:A:H2'	1:AA:351:G:H1	1.23	0.97
1:AA:627:A:H61	1:AA:638:G:H1'	1.27	0.97
1:AA:68:G:H2'	1:AA:69:C:C6	1.99	0.97
6:AF:183:VAL:O	6:AF:186:ILE:HB	1.65	0.97
15:AQ:96:ARG:HD3	15:AQ:117:ASP:OD2	1.63	0.97
18:AT:6:ILE:HG12	18:AT:104:THR:HA	1.44	0.97
34:BA:1115:C:C2	34:BA:1186:G:C2	2.53	0.97
56:BE:21:A:C6	56:BE:46:G:C5	2.52	0.97
35:BF:217:ARG:HA	35:BF:220:ASP:OD2	1.64	0.97
34:BA:1129:C:P	42:BM:16:ARG:HH22	1.88	0.97
57:BZ:165:ALA:HB1	57:BZ:171:ILE:HG22	1.11	0.97
1:AA:1083:U:N3	1:AA:1085:A:C8	2.33	0.96
1:AA:2125:G:O4'	3:AC:217:THR:N	1.87	0.96
1:AA:2319:G:H4'	1:AA:2320:A:OP1	1.62	0.96
1:AA:2491:U:C6	1:AA:2491:U:C3'	2.46	0.96
1:AA:570:G:N1	1:AA:2498:C:H4'	1.79	0.96
3:AC:63:SER:OG	3:AC:155:GLU:HG2	1.64	0.96
1:AA:2121:G:C1'	3:AC:167:LYS:HZ3	1.78	0.96
5:AE:49:LEU:HD22	5:AE:76:ARG:C	1.85	0.96
5:AE:64:LYS:HA	5:AE:67:PHE:HB2	1.46	0.96
7:AG:47:LYS:HD3	7:AG:72:ARG:C	1.84	0.96
1:AA:1046:A:H61	31:AI:9:LEU:H	1.06	0.96
12:AN:12:GLN:NE2	12:AN:13:GLN:HG2	1.80	0.96
24:AZ:20:LYS:HA	24:AZ:23:LEU:HD22	1.46	0.96
34:BA:1268:A:C2	34:BA:1311:G:C1'	2.46	0.96
35:BF:81:VAL:HG12	35:BF:92:TYR:HD1	1.27	0.96
37:BH:106:TYR:HA	37:BH:111:ALA:HB3	1.42	0.96
40:BK:5:ARG:HD2	40:BK:7:ALA:H	1.29	0.96
48:BS:54:ARG:O	48:BS:57:LEU:HB2	1.64	0.96
48:BS:62:GLN:O	48:BS:66:LEU:HD23	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:43:PHE:O	51:BV:51:LEU:HD13	1.64	0.96
57:BZ:243:GLU:HG2	57:BZ:245:LYS:HD3	1.45	0.96
57:BZ:564:THR:C	57:BZ:566:GLU:CG	2.22	0.96
57:BZ:483:ARG:HG2	57:BZ:573:ASP:HB2	1.45	0.96
1:AA:2583:G:H2'	1:AA:2584:U:O2	1.65	0.96
1:AA:2607:G:H2'	1:AA:2608:G:H5'	1.48	0.96
59:AA:3003:8AN:H8	22:AX:4:LYS:HZ3	1.25	0.96
1:AA:2123:G:N2	3:AC:220:PRO:O	1.97	0.96
1:AA:2598:A:OP1	4:AD:234:GLY:HA3	1.64	0.96
32:AJ:14:ALA:O	32:AJ:49:GLY:HA3	1.04	0.96
32:AJ:52:ILE:C	32:AJ:72:PRO:HA	1.85	0.96
10:AL:8:LEU:HD22	10:AL:9:GLU:H	1.30	0.96
34:BA:12:U:H2'	34:BA:13:U:C5	2.00	0.96
34:BA:265:G:O2'	34:BA:266:G:H5'	1.65	0.96
34:BA:329:A:H4'	34:BA:330:C:OP1	1.65	0.96
42:BM:79:LEU:HD13	42:BM:101:PHE:HB3	1.47	0.96
45:BP:60:LEU:HD13	45:BP:60:LEU:N	1.80	0.96
46:BQ:20:THR:CA	46:BQ:26:GLY:CA	2.42	0.96
57:BZ:240:ILE:HB	57:BZ:286:ASP:HA	1.06	0.96
57:BZ:81:PHE:O	57:BZ:361:ARG:CB	2.12	0.96
57:BZ:427:LYS:CG	57:BZ:442:VAL:HG23	1.95	0.96
55:BC:38:A:H3'	55:BC:39:U:H5''	1.46	0.96
45:BP:126:LYS:HE3	45:BP:126:LYS:N	1.80	0.96
1:AA:2757:A:H2'	1:AA:2758:A:H5'	1.46	0.96
1:AA:308:G:N2	1:AA:309:G:H1'	1.80	0.96
1:AA:442:G:H4'	6:AF:46:ARG:HG3	1.48	0.96
1:AA:2175:C:N3	3:AC:219:GLY:O	1.97	0.96
4:AD:148:GLU:HB2	4:AD:154:LYS:HZ1	1.27	0.96
4:AD:176:ARG:HG3	4:AD:176:ARG:HH11	1.30	0.96
1:AA:1080:C:N1	32:AJ:129:GLY:CA	2.25	0.96
21:AW:57:ILE:CG1	21:AW:70:LEU:HB3	1.94	0.96
23:AY:20:VAL:HG23	23:AY:52:ILE:HG23	1.43	0.96
23:AY:60:ASN:O	23:AY:64:ARG:HB2	1.63	0.96
24:AZ:4:LEU:HB3	24:AZ:37:LEU:CD2	1.95	0.96
34:BA:1490:C:C5	58:BA:1601:NMY:O17	2.17	0.96
38:BI:145:LYS:O	38:BI:148:VAL:HB	1.65	0.96
40:BK:155:ARG:NH1	40:BK:156:TRP:H	1.62	0.96
45:BP:83:VAL:HG22	45:BP:84:LEU:H	1.24	0.96
57:BZ:560:PRO:CB	57:BZ:562:ARG:CB	2.43	0.96
57:BZ:509:LYS:HZ2	57:BZ:561:ILE:HD11	1.17	0.96
1:AA:172:C:H2'	1:AA:173:G:H8	1.31	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2587:A:C2'	1:AA:2588:G:H5'	1.95	0.96
1:AA:343:C:C2'	1:AA:344:G:H5'	1.95	0.96
1:AA:623:G:H3'	11:AM:105:LEU:HD22	1.45	0.96
1:AA:60:G:H21	1:AA:74:A:H4'	1.30	0.96
4:AD:171:ASP:O	4:AD:186:HIS:HA	1.64	0.96
4:AD:60:ARG:HD3	4:AD:62:TYR:HE2	1.28	0.96
4:AD:95:LEU:HD22	4:AD:96:HIS:H	1.31	0.96
14:AP:49:VAL:HG11	14:AP:80:LEU:HG	1.48	0.96
18:AT:78:GLU:CD	18:AT:99:ARG:HB3	1.83	0.96
34:BA:1329:A:O2'	46:BQ:70:LEU:CD1	2.12	0.96
37:BH:105:VAL:HG21	37:BH:121:VAL:HG22	1.47	0.96
57:BZ:27:GLN:CB	57:BZ:28:GLN:CB	2.42	0.96
57:BZ:240:ILE:H	57:BZ:286:ASP:HB3	1.24	0.96
56:BD:72:C:C4	56:BD:73:A:C2	2.54	0.96
1:AA:1080:C:C5	32:AJ:132:ARG:NH2	2.33	0.96
1:AA:1087:G:H2'	1:AA:1089:G:H4'	1.47	0.96
1:AA:2461:C:H1'	1:AA:2492:U:H5	1.22	0.96
1:AA:2491:U:H6	1:AA:2491:U:C3'	1.78	0.96
1:AA:2532:G:C2'	1:AA:2657:A:N1	2.16	0.96
4:AD:138:VAL:HA	4:AD:165:ILE:HG21	1.44	0.96
4:AD:133:LEU:HD11	4:AD:185:VAL:HG12	1.43	0.96
5:AE:110:GLY:HA2	5:AE:161:GLY:O	1.66	0.96
7:AG:56:ALA:HA	7:AG:59:GLU:OE1	1.65	0.96
8:AH:115:VAL:HG13	8:AH:116:GLU:N	1.79	0.96
8:AH:18:GLU:OE2	8:AH:25:LYS:HB3	1.66	0.96
9:AK:67:LEU:H	9:AK:87:LEU:CD2	1.77	0.96
1:AA:1244:G:H5'	11:AM:9:ASN:HB3	1.44	0.96
13:AO:88:ARG:HB2	13:AO:88:ARG:NH1	1.81	0.96
21:AW:27:VAL:CG2	21:AW:85:HIS:NE2	2.26	0.96
35:BF:187:LEU:HD22	35:BF:188:ALA:H	1.31	0.96
34:BA:528:C:N4	45:BP:49:ASN:HD21	1.62	0.96
53:BX:51:GLU:HA	53:BX:54:LYS:CD	1.95	0.96
57:BZ:401:GLU:O	57:BZ:467:SER:CB	2.11	0.96
57:BZ:363:GLU:HG3	57:BZ:453:SER:HG	1.19	0.96
57:BZ:520:GLU:CD	57:BZ:593:THR:HA	1.84	0.96
57:BZ:64:ILE:CD1	57:BZ:187:TYR:CB	2.40	0.96
1:AA:1081:U:O4	1:AA:1086:A:C2	2.18	0.96
1:AA:1647:G:H4'	1:AA:1648:C:OP1	1.63	0.96
1:AA:2206:C:H2'	1:AA:2207:C:H6	1.27	0.96
1:AA:2789:C:O2'	1:AA:2791:C:H5'	1.65	0.96
1:AA:2:G:O6	1:AA:2902:C:N4	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:AA:3001:NMY:N2	58:AA:3001:NMY:O16	1.98	0.96
1:AA:484:C:H2'	1:AA:485:C:H6	1.29	0.96
1:AA:865:C:H42	1:AA:909:A:N6	1.63	0.96
1:AA:673:C:H4'	6:AF:82:ILE:HD12	1.46	0.96
2:AB:43:C:O2	7:AG:95:ARG:HB2	1.66	0.96
8:AH:43:VAL:HG13	8:AH:51:ARG:O	1.65	0.96
9:AK:109:LYS:HZ2	9:AK:110:GLY:H	1.07	0.96
10:AL:11:ALA:CB	10:AL:97:ARG:HH12	1.76	0.96
12:AN:112:GLU:O	12:AN:115:MET:HB2	1.65	0.96
41:BL:68:ARG:HD3	41:BL:69:ARG:H	1.26	0.96
41:BL:64:LYS:HD3	41:BL:79:VAL:HG11	1.47	0.96
34:BA:1308:U:C5'	46:BQ:110:ARG:HH12	1.61	0.96
46:BQ:91:ARG:HB3	46:BQ:98:VAL:HA	1.44	0.96
34:BA:1318:A:C2'	52:BW:37:ARG:CA	2.36	0.96
52:BW:9:VAL:CG1	52:BW:41:VAL:O	2.13	0.96
57:BZ:122:LYS:HE2	57:BZ:155:ASP:C	1.85	0.96
1:AA:1079:C:N4	1:AA:1088:A:H5'	1.80	0.96
1:AA:1259:G:H2'	1:AA:1260:G:H8	1.30	0.96
1:AA:1270:C:H4'	1:AA:1271:G:C5'	1.96	0.96
1:AA:1309:G:O2'	1:AA:1310:G:H5'	1.65	0.96
1:AA:2698:U:H2'	1:AA:2699:C:C6	2.01	0.96
1:AA:270(M):U:H4'	1:AA:270(N):G:C4'	1.95	0.96
1:AA:545:G:H1'	1:AA:549:G:N2	1.80	0.96
1:AA:612:G:H4'	1:AA:616:A:H61	1.15	0.96
1:AA:763:G:O2'	1:AA:764:A:H5''	1.65	0.96
4:AD:183:ARG:HG2	4:AD:268:ARG:CB	1.93	0.96
7:AG:77:ILE:HA	7:AG:83:ARG:HE	1.27	0.96
12:AN:109:VAL:HG11	12:AN:114:ALA:CB	1.95	0.96
16:AR:74:LEU:HD13	16:AR:78:THR:HG21	1.48	0.96
35:BF:47:THR:O	35:BF:51:LEU:HG	1.64	0.96
41:BL:12:ARG:NH1	41:BL:27:PRO:HD3	1.80	0.96
34:BA:1180:A:OP1	42:BM:102:LEU:HD12	1.65	0.96
49:BT:60:LEU:HA	49:BT:64:ALA:HB3	1.46	0.96
51:BV:61:LYS:HD2	51:BV:64:ARG:HH22	1.25	0.96
32:AJ:15:GLY:N	32:AJ:45:THR:HB	1.79	0.96
1:AA:1048:A:H8	1:AA:1110:G:HO2'	1.00	0.96
1:AA:1241:A:N3	1:AA:1241:A:H3'	1.79	0.96
1:AA:2440:C:H5''	1:AA:2587:A:H4'	1.48	0.96
1:AA:2666:C:H5	1:AA:2667:C:H5	0.99	0.96
1:AA:2812:G:H2'	1:AA:2813:A:H8	1.26	0.96
6:AF:31:HIS:HB2	11:AM:14:LYS:HZ2	1.30	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:17:ALA:HB1	32:AJ:42:ASN:H	1.31	0.96
9:AK:25:ARG:O	9:AK:28:THR:HG23	1.65	0.96
11:AM:38:GLN:C	11:AM:40:SER:H	1.62	0.96
34:BA:1128:C:H1'	34:BA:1146:A:H61	1.29	0.96
34:BA:1270:C:O2'	34:BA:1313:U:C4'	2.14	0.96
37:BH:147:ALA:HB2	37:BH:182:LYS:HA	1.46	0.96
46:BQ:10:PRO:HB3	46:BQ:18:ALA:CB	1.94	0.96
34:BA:1220:G:N2	52:BW:55:LYS:HB2	1.80	0.96
52:BW:9:VAL:HG12	52:BW:41:VAL:HG23	1.44	0.96
57:BZ:380:LEU:HD12	57:BZ:580:VAL:HG21	1.48	0.96
46:BQ:4:ILE:HD12	46:BQ:57:ARG:HG3	1.21	0.96
1:AA:176:G:H2'	1:AA:177:G:O4'	1.64	0.96
1:AA:2453:A:O2'	1:AA:2454:G:H5'	1.65	0.96
1:AA:598:G:H4'	11:AM:12:ALA:HB3	1.45	0.96
3:AC:46:LYS:HE2	3:AC:210:ARG:NE	1.80	0.96
1:AA:2178:C:C4'	3:AC:46:LYS:HG2	1.95	0.96
34:BA:1004:A:H3'	34:BA:1025:U:C4	2.01	0.96
34:BA:625:G:OP1	49:BT:9:PHE:HB3	1.65	0.96
43:BN:7:LYS:O	43:BN:97:GLU:HB2	1.64	0.96
48:BS:77:ARG:HH12	48:BS:81:LEU:CB	1.78	0.96
57:BZ:73:VAL:CA	57:BZ:74:ASP:HB3	1.95	0.96
56:BD:50:U:O4	56:BD:64:A:N1	1.98	0.96
1:AA:2175:C:C5	3:AC:219:GLY:O	2.19	0.96
5:AE:27:LEU:HD11	5:AE:30:PRO:HD3	1.46	0.96
1:AA:1080:C:C5'	32:AJ:128:ALA:HB3	1.69	0.96
10:AL:68:GLU:HA	10:AL:104:ARG:NH1	1.79	0.96
12:AN:124:LYS:HB3	12:AN:124:LYS:NZ	1.78	0.96
13:AO:32:GLY:HA2	13:AO:116:LEU:HD21	0.96	0.96
14:AP:76:LYS:O	14:AP:80:LEU:HB2	1.66	0.96
19:AU:85:PRO:HG2	19:AU:87:GLN:HG2	1.47	0.96
21:AW:39:VAL:HG13	21:AW:44:PHE:CD2	2.01	0.96
34:BA:1425:U:H2'	34:BA:1426:C:H6	1.31	0.96
34:BA:259:G:H2'	34:BA:260:G:C8	1.99	0.96
35:BF:184:VAL:HB	35:BF:198:ASP:OD1	1.65	0.96
38:BI:11:ILE:HG22	38:BI:12:LEU:H	1.29	0.96
40:BK:49:ILE:HG21	40:BK:121:ALA:HB1	1.48	0.96
46:BQ:19:LEU:HD11	46:BQ:30:ALA:N	1.77	0.96
57:BZ:13:HIS:CE1	57:BZ:106:MET:HB2	2.01	0.96
57:BZ:209:ILE:HG23	57:BZ:222:GLY:O	1.65	0.96
57:BZ:603:ALA:HB3	57:BZ:604:PRO:HD3	1.47	0.96
1:AA:1405:U:H2'	1:AA:1406:U:C5	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1272:A:OP2	1:AA:1646:C:H2'	1.66	0.95
1:AA:1819:A:H5''	4:AD:178:PRO:CG	1.96	0.95
4:AD:134:ARG:HD2	4:AD:188:GLU:HA	1.46	0.95
4:AD:27:THR:HG22	4:AD:29:PRO:CD	1.96	0.95
5:AE:146:THR:HB	5:AE:147:PRO:CD	1.96	0.95
5:AE:49:LEU:HA	5:AE:76:ARG:O	1.65	0.95
9:AK:38:HIS:HB3	9:AK:48:MET:HE3	1.48	0.95
13:AO:58:GLY:HA2	13:AO:80:PHE:CE2	2.00	0.95
17:AS:40:LEU:HD23	17:AS:51:VAL:O	1.66	0.95
1:AA:566:U:H5''	17:AS:82:ARG:NH1	1.80	0.95
22:AX:38:VAL:O	22:AX:59:LEU:HB2	1.65	0.95
34:BA:1226:C:C5	46:BQ:104:ARG:CB	2.48	0.95
34:BA:1413:A:N1	34:BA:1487:G:C2	2.34	0.95
34:BA:1455:G:C4'	53:BX:31:SER:OG	2.12	0.95
35:BF:166:ASP:O	35:BF:169:LYS:HB3	1.64	0.95
35:BF:78:GLN:HG3	35:BF:94:ASN:HB3	1.45	0.95
36:BG:189:ALA:CB	36:BG:196:LEU:HG	1.96	0.95
36:BG:189:ALA:HB3	36:BG:196:LEU:H	1.29	0.95
44:BO:61:ALA:HB1	44:BO:94:ALA:CB	1.95	0.95
41:BL:90:GLY:O	45:BP:7:ILE:HG21	1.65	0.95
46:BQ:36:LYS:HD3	46:BQ:59:TYR:CD2	2.01	0.95
56:BD:68:C:H2'	56:BD:69:G:C8	1.98	0.95
56:BD:41:C:H3'	56:BD:42:C:H5''	1.46	0.95
1:AA:1312:U:H3'	1:AA:1313:U:C6	2.01	0.95
1:AA:1818:U:H5''	4:AD:158:ALA:HB2	1.45	0.95
1:AA:1842:G:H2'	1:AA:1843:C:H6	1.28	0.95
1:AA:1931:U:C6	1:AA:1932:A:C8	2.54	0.95
1:AA:2063:C:H1'	1:AA:2451:A:C2	2.01	0.95
1:AA:740:U:H5'	1:AA:1784:A:OP1	1.65	0.95
4:AD:232:PRO:HG2	4:AD:247:ALA:CA	1.95	0.95
1:AA:674:G:H5''	6:AF:74:ARG:HH11	1.31	0.95
12:AN:25:ASP:HB3	12:AN:102:VAL:H	1.29	0.95
1:AA:995:C:H1'	16:AR:57:PHE:CE2	2.01	0.95
22:AX:46:LYS:HG3	22:AX:78:TYR:CZ	2.01	0.95
36:BG:59:ARG:HE	36:BG:64:VAL:HA	1.26	0.95
37:BH:148:VAL:HG21	37:BH:162:LEU:HD11	1.49	0.95
57:BZ:54:ILE:CD1	57:BZ:211:GLN:HE22	1.78	0.95
56:BD:7:A:N1	56:BD:66:U:O2	1.97	0.95
1:AA:1710:C:H2'	1:AA:1711:C:H6	1.32	0.95
1:AA:270(X):G:C2'	1:AA:270(Y):G:H5'	1.96	0.95
1:AA:289:A:H2'	1:AA:351:G:N1	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:880:G:C3'	1:AA:881:G:H4'	1.96	0.95
1:AA:91:A:N3	1:AA:91:A:H2'	1.81	0.95
4:AD:252:TRP:H	4:AD:255:LYS:HZ1	0.98	0.95
10:AL:97:ARG:HH11	10:AL:98:VAL:C	1.68	0.95
12:AN:16:ARG:CZ	12:AN:73:PRO:HD3	1.96	0.95
34:BA:1077:G:H22	34:BA:1079:G:H3'	1.21	0.95
36:BG:12:LEU:HD21	47:BR:57:ARG:HG3	1.48	0.95
1:AA:1038:C:O3'	1:AA:1039:G:H3'	1.66	0.95
1:AA:1037:G:N1	1:AA:1119:C:C2	2.35	0.95
1:AA:1314:C:OP1	1:AA:1332:G:H5'	1.66	0.95
1:AA:1788:C:C2'	4:AD:222:ARG:HH21	1.79	0.95
1:AA:976:C:N4	1:AA:988:A:C2	2.34	0.95
5:AE:45:THR:CB	5:AE:81:ILE:HA	1.95	0.95
10:AL:47:ILE:HD12	10:AL:52:VAL:HG22	1.49	0.95
15:AQ:62:THR:HG22	15:AQ:79:HIS:HA	0.98	0.95
17:AS:64:HIS:HA	17:AS:97:LYS:HD2	1.46	0.95
24:AZ:3:ARG:NH1	24:AZ:59:VAL:HB	1.80	0.95
34:BA:101:A:H2'	34:BA:102:G:H8	1.30	0.95
34:BA:186(A):C:H1'	53:BX:104:LEU:CD2	1.96	0.95
34:BA:296:U:H1'	34:BA:302:G:N2	1.81	0.95
10:AL:115:VAL:HG12	34:BA:345:C:H2'	1.46	0.95
34:BA:778:G:O2'	34:BA:779:C:H5'	1.67	0.95
41:BL:87:SER:CB	41:BL:92:ARG:HA	1.95	0.95
53:BX:11:SER:HA	53:BX:13:LEU:HD11	1.48	0.95
57:BZ:397:GLN:HG2	57:BZ:472:TYR:O	1.66	0.95
57:BZ:322:GLU:OE2	57:BZ:581:THR:CG2	2.12	0.95
57:BZ:592:LEU:O	57:BZ:597:ARG:NH1	1.99	0.95
57:BZ:67:ASP:CG	57:BZ:191:VAL:HG22	1.85	0.95
1:AA:740:U:H1'	1:AA:1784:A:N7	1.80	0.95
1:AA:1922:G:O6	58:AA:3001:NMY:C6	2.14	0.95
1:AA:2542:A:H4'	1:AA:2543:G:OP1	1.62	0.95
1:AA:2553:G:H21	1:AA:2554:U:C2'	1.78	0.95
1:AA:653:A:H62	1:AA:655:A:H1'	1.28	0.95
1:AA:716:A:H1'	48:BS:44:LYS:CD	1.95	0.95
1:AA:899:A:C2	1:AA:900:A:C2	2.53	0.95
5:AE:49:LEU:HD11	5:AE:74:PRO:HB2	1.48	0.95
16:AR:55:ARG:CG	16:AR:58:ARG:HH21	1.79	0.95
1:AA:494:G:H4'	18:AT:6:ILE:O	1.67	0.95
21:AW:111:VAL:HG22	21:AW:117:LEU:HG	1.48	0.95
21:AW:43:GLU:CD	21:AW:43:GLU:H	1.68	0.95
34:BA:1268:A:H2	34:BA:1311:G:H1'	1.29	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:155:LEU:HB2	37:BH:158:ILE:HG12	1.47	0.95
49:BT:21:VAL:HG21	49:BT:59:TRP:NE1	1.80	0.95
57:BZ:170:GLY:O	57:BZ:179:MET:CB	2.13	0.95
57:BZ:207:MET:CE	57:BZ:224:GLY:CA	2.43	0.95
1:AA:1565:C:N3	1:AA:1567:A:H1'	1.81	0.95
1:AA:1689:A:N6	1:AA:1698:A:C2	2.35	0.95
1:AA:2677:G:O2'	1:AA:2678:C:H5'	1.64	0.95
2:AB:24:G:O6	2:AB:56:G:H2'	1.64	0.95
5:AE:120:TRP:CZ2	5:AE:122:PHE:HB2	2.02	0.95
32:AJ:105:LEU:HD23	32:AJ:123:ALA:HB1	1.43	0.95
11:AM:107:LYS:HE2	11:AM:110:TYR:CD1	2.02	0.95
1:AA:2392:A:C1'	11:AM:55:ARG:HH12	1.77	0.95
12:AN:134:ARG:CZ	12:AN:137:TYR:H	1.79	0.95
16:AR:59:ARG:O	16:AR:62:ILE:HB	1.65	0.95
17:AS:11:GLN:HE22	17:AS:24:LYS:HZ3	0.99	0.95
34:BA:1115:C:C1'	34:BA:1186:G:N2	2.29	0.95
34:BA:416:G:H2'	34:BA:417:C:C6	2.01	0.95
35:BF:23:ARG:HH11	35:BF:24:TRP:N	1.65	0.95
39:BJ:33:TYR:CD1	39:BJ:75:LEU:HG	2.01	0.95
45:BP:39:VAL:HB	45:BP:57:LYS:HB2	1.47	0.95
48:BS:70:LEU:HG	48:BS:78:TYR:CD1	2.02	0.95
57:BZ:122:LYS:HE3	57:BZ:156:GLU:CB	1.93	0.95
57:BZ:205:PHE:HZ	57:BZ:226:ILE:CD1	1.79	0.95
56:BD:51:U:C4	56:BD:64:A:N1	2.35	0.95
1:AA:1473:G:H1	1:AA:1519:G:H1'	1.31	0.95
1:AA:2212:A:N3	1:AA:2212:A:H2'	1.79	0.95
1:AA:674:G:H4'	6:AF:74:ARG:NE	1.82	0.95
1:AA:2876:G:H4'	15:AQ:1:MET:H2	1.30	0.95
17:AS:66:ARG:HE	17:AS:95:LEU:HB2	1.30	0.95
21:AW:39:VAL:HG22	21:AW:44:PHE:CE2	2.01	0.95
2:AB:102:G:H2'	21:AW:73:GLN:NE2	1.81	0.95
34:BA:1486:G:C5	34:BA:1487:G:H8	1.83	0.95
35:BF:20:GLU:HA	35:BF:21:ARG:HH21	1.29	0.95
40:BK:76:ARG:HB2	40:BK:156:TRP:NE1	1.81	0.95
53:BX:87:LYS:HE3	53:BX:87:LYS:HA	1.46	0.95
56:BD:2:C:C2	56:BD:71:G:N2	2.26	0.95
56:BD:63:G:H2'	56:BD:64:A:C8	2.02	0.95
1:AA:1777:U:O2'	1:AA:1778:U:H5'	1.66	0.95
1:AA:559:G:H5'	1:AA:559:G:H8	1.28	0.95
6:AF:65:TRP:NE1	6:AF:73:ALA:HB3	1.81	0.95
32:AJ:112:MET:CG	32:AJ:122:ALA:HB2	1.92	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:15:LEU:HD21	9:AK:137:LYS:HA	1.45	0.95
24:AZ:18:ASP:O	24:AZ:21:ALA:HB3	1.66	0.95
36:BG:67:THR:HG22	36:BG:104:GLN:HG2	1.49	0.95
53:BX:13:LEU:H	53:BX:13:LEU:HD12	1.29	0.95
53:BX:45:GLN:HE21	53:BX:91:LEU:HD13	1.32	0.95
57:BZ:239:ILE:N	57:BZ:244:GLY:HA3	1.80	0.95
57:BZ:220:VAL:HG21	57:BZ:279:LEU:CB	1.97	0.95
57:BZ:468:THR:HG23	57:BZ:469:PHE:H	1.31	0.95
57:BZ:547:ARG:HB3	57:BZ:548:ALA:CB	1.96	0.95
57:BZ:482:GLN:N	57:BZ:573:ASP:OD1	2.00	0.95
1:AA:1708:C:C2'	1:AA:1709:U:H5''	1.97	0.95
1:AA:1961:C:H5'	34:BA:1484:C:H4'	1.48	0.95
1:AA:2178:C:H4'	3:AC:46:LYS:HZ2	0.78	0.95
1:AA:1966:A:N3	1:AA:2593:U:H5'	1.81	0.95
1:AA:221:A:H61	1:AA:265:A:N6	1.63	0.95
1:AA:2848:G:N2	1:AA:2867:G:H1'	1.81	0.95
2:AB:67:G:H2'	2:AB:68:C:C6	2.00	0.95
3:AC:156:ILE:CB	3:AC:160:ARG:HB2	1.96	0.95
1:AA:2121:G:O2'	3:AC:167:LYS:CE	2.15	0.95
3:AC:21:THR:HB	3:AC:228:SER:HB3	0.98	0.95
5:AE:8:LYS:CD	5:AE:9:VAL:HG22	1.96	0.95
7:AG:2:PRO:O	7:AG:5:VAL:HB	1.65	0.95
32:AJ:131:ALA:HB1	32:AJ:136:VAL:HB	1.46	0.95
32:AJ:20:ALA:HB3	32:AJ:21:PRO:HD3	1.47	0.95
1:AA:636:G:N2	11:AM:75:ILE:HG23	1.81	0.95
16:AR:19:LYS:NZ	16:AR:19:LYS:HB2	1.81	0.95
18:AT:17:VAL:HG23	18:AT:76:VAL:HG11	1.48	0.95
20:AV:50:ARG:HA	20:AV:54:LYS:HA	1.49	0.95
21:AW:127:LYS:NZ	21:AW:165:VAL:HB	1.80	0.95
34:BA:1151:A:N6	34:BA:1152:A:C6	2.35	0.95
36:BG:14:ILE:HG21	36:BG:179:ARG:HA	1.49	0.95
41:BL:18:ARG:NH1	41:BL:18:ARG:HA	1.81	0.95
43:BN:63:PHE:HB3	47:BR:58:LYS:HA	1.47	0.95
52:BW:22:LEU:HG	52:BW:25:LYS:HZ1	1.30	0.95
57:BZ:397:GLN:C	57:BZ:473:ASP:H	1.55	0.95
57:BZ:82:GLY:C	57:BZ:361:ARG:HD2	1.87	0.95
1:AA:1026:U:H2'	1:AA:1026:U:O2	1.63	0.95
1:AA:1498:C:H6	1:AA:1576:U:H4'	1.31	0.95
1:AA:1966:A:H1'	1:AA:2593:U:H5'	1.45	0.95
1:AA:1967:C:N4	1:AA:1968:G:N2	2.14	0.95
1:AA:2320:A:H1'	1:AA:2333:A:N6	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:455:C:H4'	1:AA:456:C:OP1	1.67	0.95
1:AA:687:C:H1'	1:AA:788:A:H5'	1.49	0.95
1:AA:84:A:H5'	20:AV:8:LYS:HE2	1.49	0.95
5:AE:133:LYS:NZ	5:AE:137:HIS:HB3	1.81	0.95
8:AH:175:LYS:HG3	8:AH:176:ALA:N	1.77	0.95
1:AA:624:C:H41	11:AM:104:GLY:HA2	1.28	0.95
12:AN:7:MET:N	12:AN:70:PRO:HG2	1.80	0.95
20:AV:47:LYS:NZ	20:AV:51:VAL:HG21	1.81	0.95
58:BA:1601:NMY:N23	58:BA:1601:NMY:O14	2.00	0.95
34:BA:169:C:H2'	34:BA:170:U:H6	1.31	0.95
34:BA:863:U:O2	34:BA:863:U:H2'	1.64	0.95
34:BA:911:U:H2'	34:BA:912:C:H6	1.31	0.95
56:BE:16:U:N3	56:BE:59:U:O2	2.00	0.95
39:BJ:23:LYS:HA	39:BJ:26:ILE:CD1	1.97	0.95
40:BK:145:ALA:O	40:BK:146:GLU:HB3	1.66	0.95
40:BK:72:ARG:HB3	40:BK:72:ARG:HH11	1.32	0.95
42:BM:78:LYS:HZ2	42:BM:101:PHE:HE2	1.15	0.95
42:BM:116:LYS:HB3	42:BM:122:ALA:HA	1.46	0.95
34:BA:1319:A:C4'	52:BW:37:ARG:HA	1.96	0.95
52:BW:15:LEU:HD11	52:BW:71:LEU:CD1	1.95	0.95
34:BA:1455:G:C5'	53:BX:31:SER:OG	2.14	0.95
57:BZ:13:HIS:ND1	57:BZ:109:THR:HG23	1.82	0.95
57:BZ:163:VAL:CG2	57:BZ:173:GLY:C	2.34	0.95
57:BZ:37:GLU:HA	57:BZ:39:GLN:CB	1.97	0.95
37:BH:47:ARG:NH1	37:BH:47:ARG:HB2	1.81	0.95
1:AA:1014:U:O2'	1:AA:1015:G:H5'	1.66	0.94
1:AA:2805:G:H3'	1:AA:2807:G:H5''	1.47	0.94
1:AA:2507:C:H5'	59:AA:3002:8AN:C5'	1.97	0.94
1:AA:477:A:H2'	1:AA:478:A:H8	1.28	0.94
2:AB:44:G:N2	2:AB:48:A:H1'	1.82	0.94
1:AA:2210:G:C5	4:AD:150:LYS:HA	2.01	0.94
8:AH:153:LYS:HB2	8:AH:162:ILE:HG23	1.47	0.94
8:AH:38:SER:HB3	8:AH:41:MET:CG	1.97	0.94
5:AE:13:ARG:NH2	11:AM:56:SER:HB3	123.15	0.94
34:BA:1310:G:C6	34:BA:1327:C:N3	2.29	0.94
34:BA:944:G:H21	34:BA:1339:A:H62	1.01	0.94
34:BA:1455:G:H4'	53:BX:28:ALA:O	1.66	0.94
35:BF:144:ARG:HA	35:BF:147:LYS:HB2	1.47	0.94
39:BJ:72:VAL:HG23	39:BJ:73:ASN:H	1.32	0.94
39:BJ:75:LEU:HD22	39:BJ:79:LEU:HD21	1.47	0.94
48:BS:62:GLN:HA	48:BS:65:ARG:HH22	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:220:VAL:O	57:BZ:274:VAL:HG12	1.67	0.94
57:BZ:426:LEU:CD1	57:BZ:441:TYR:CD1	2.48	0.94
55:BC:69:G:H2'	55:BC:70:G:H5''	1.49	0.94
1:AA:1919:A:O2'	1:AA:1920:C:OP1	1.86	0.94
3:AC:82:LYS:HE3	3:AC:147:PHE:HD1	1.30	0.94
10:AL:25:LEU:HD22	10:AL:38:VAL:HG23	1.47	0.94
13:AO:12:ARG:CZ	13:AO:16:HIS:HB3	1.97	0.94
56:BE:18:G:P	56:BE:61:C:H5'	2.06	0.94
46:BQ:80:ARG:HB3	52:BW:65:ASN:HD22	1.28	0.94
34:BA:1308:U:C3'	46:BQ:92:HIS:NE2	2.19	0.94
57:BZ:64:ILE:HD11	57:BZ:187:TYR:HB3	1.38	0.94
57:BZ:81:PHE:C	57:BZ:361:ARG:CB	2.36	0.94
1:AA:1533:C:N3	1:AA:1539:G:N2	2.15	0.94
1:AA:1725:G:N2	1:AA:1726:G:H1'	1.82	0.94
1:AA:2107:C:P	1:AA:2108:C:C5	2.59	0.94
1:AA:2075:U:H3	1:AA:2238:G:H1	1.01	0.94
1:AA:247:G:H22	5:AE:8:LYS:HD2	118.53	0.94
1:AA:2576:G:C4'	1:AA:2577:A:H5'	1.96	0.94
1:AA:279:C:N4	1:AA:359:A:H1'	1.82	0.94
1:AA:3:U:C4	1:AA:2900:A:N1	2.34	0.94
3:AC:156:ILE:HA	3:AC:160:ARG:CA	1.96	0.94
3:AC:162:GLU:HG2	3:AC:163:PHE:H	1.30	0.94
4:AD:131:LEU:HG	4:AD:132:PRO:HD2	1.50	0.94
9:AK:87:LEU:O	9:AK:90:MET:HB2	1.67	0.94
12:AN:99:PRO:O	12:AN:101:ARG:HD3	1.66	0.94
15:AQ:35:LYS:HG3	15:AQ:84:GLN:O	1.67	0.94
34:BA:1504:G:O2'	34:BA:1505:G:OP2	1.85	0.94
34:BA:1099:G:O2'	34:BA:1542:U:H4'	1.68	0.94
41:BL:87:SER:HB2	41:BL:92:ARG:CA	1.97	0.94
57:BZ:395:ARG:HG3	57:BZ:474:ASP:CG	1.88	0.94
57:BZ:564:THR:H	57:BZ:567:GLN:CB	1.80	0.94
57:BZ:379:GLU:CA	57:BZ:580:VAL:O	2.15	0.94
57:BZ:61:THR:CG2	57:BZ:65:LYS:HB3	1.97	0.94
1:AA:1965:C:H3'	1:AA:1966:A:H8	1.31	0.94
1:AA:107:C:H4'	1:AA:293:U:H1'	1.49	0.94
1:AA:451:C:N4	1:AA:453:C:H3'	1.80	0.94
3:AC:108:MET:SD	3:AC:131:LEU:HD23	2.07	0.94
7:AG:105:LYS:O	7:AG:109:VAL:HG22	1.67	0.94
12:AN:134:ARG:NH2	12:AN:137:TYR:H	1.64	0.94
18:AT:34:ASN:HA	18:AT:37:ARG:HE	1.30	0.94
20:AV:46:LYS:NZ	20:AV:52:SER:HB2	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1204:A:C2	36:BG:195:VAL:HG21	2.02	0.94
34:BA:1126:U:H1'	34:BA:1280:A:N6	1.82	0.94
34:BA:279:A:H5'	34:BA:280:C:H3'	1.47	0.94
34:BA:923:A:H2'	34:BA:924:C:C6	2.01	0.94
36:BG:116:VAL:O	36:BG:119:ARG:HB3	1.67	0.94
42:BM:19:LEU:CD2	42:BM:59:PHE:HB3	1.96	0.94
46:BQ:10:PRO:CG	46:BQ:45:VAL:HG11	1.96	0.94
57:BZ:180:ALA:N	57:BZ:181:GLU:O	1.99	0.94
57:BZ:181:GLU:OE2	57:BZ:182:ASP:N	2.01	0.94
57:BZ:205:PHE:O	57:BZ:289:CYS:HB2	1.66	0.94
57:BZ:311:PHE:H	57:BZ:356:PHE:H	1.02	0.94
57:BZ:400:TYR:CD1	57:BZ:443:ILE:C	2.40	0.94
57:BZ:502:PHE:HE1	57:BZ:556:VAL:O	1.29	0.94
1:AA:1105:U:H4'	1:AA:1106:G:O5'	1.64	0.94
1:AA:1107:G:C2'	1:AA:1108:U:H5'	1.98	0.94
1:AA:1281:G:H2'	1:AA:1282:U:H6	1.33	0.94
1:AA:1341:U:H3	1:AA:1398:C:H5'	1.31	0.94
1:AA:1779:U:O2'	1:AA:1783:A:N6	2.00	0.94
1:AA:470:A:C2	1:AA:471:A:H1'	2.01	0.94
6:AF:11:VAL:HG13	6:AF:127:GLU:HB2	1.49	0.94
1:AA:2306:C:H4'	7:AG:153:ARG:NH2	1.83	0.94
8:AH:94:TYR:H	8:AH:95:ARG:NH2	1.65	0.94
32:AJ:27:LEU:CD2	32:AJ:58:THR:N	2.29	0.94
9:AK:19:GLU:HB2	9:AK:56:ASN:HB3	1.46	0.94
13:AO:45:ARG:HB2	13:AO:95:THR:HG21	1.48	0.94
15:AQ:54:ARG:C	15:AQ:64:ARG:HB2	1.88	0.94
1:AA:1912:A:O2'	34:BA:1495:U:H6	1.32	0.94
34:BA:345:C:H4'	34:BA:346:G:O5'	1.66	0.94
37:BH:82:ALA:CB	37:BH:89:THR:HG23	1.97	0.94
42:BM:103:THR:HG22	42:BM:104:ARG:H	1.32	0.94
43:BN:15:THR:OG1	43:BN:94:VAL:HG23	1.66	0.94
46:BQ:10:PRO:CG	46:BQ:45:VAL:CG1	2.46	0.94
46:BQ:81:LEU:HD23	46:BQ:89:GLY:CA	1.97	0.94
57:BZ:481:GLY:HA2	57:BZ:482:GLN:CB	1.95	0.94
57:BZ:62:ALA:HB2	57:BZ:187:TYR:CD2	2.02	0.94
56:BD:66:U:H2'	56:BD:67:C:C4	2.03	0.94
57:BZ:499:PHE:CB	57:BZ:540:GLY:CA	2.45	0.94
1:AA:1425:G:H2'	1:AA:1426:G:C8	2.02	0.94
1:AA:1543:A:OP2	1:AA:1544:C:H6	1.49	0.94
1:AA:1799:G:H3'	4:AD:183:ARG:NH2	1.82	0.94
1:AA:185:U:H2'	1:AA:186:G:H8	1.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:479:A:H1'	1:AA:480:A:C8	2.03	0.94
1:AA:535:C:H4'	16:AR:53:ARG:HD2	1.46	0.94
1:AA:716:A:H2'	1:AA:717:G:H5'	1.50	0.94
1:AA:862:G:C2	1:AA:863:A:H1'	2.01	0.94
1:AA:896:A:H2	1:AA:897:C:N1	1.64	0.94
32:AJ:19:PRO:CG	32:AJ:36:GLU:CA	2.45	0.94
34:BA:1107:C:OP1	36:BG:172:ARG:NH1	2.01	0.94
34:BA:1309:G:C2	34:BA:1328:C:N3	2.35	0.94
40:BK:86:GLN:HB2	40:BK:148:ASN:ND2	1.81	0.94
48:BS:70:LEU:HG	48:BS:78:TYR:CG	2.02	0.94
51:BV:79:LEU:HD13	51:BV:79:LEU:O	1.67	0.94
57:BZ:207:MET:HE3	57:BZ:224:GLY:C	1.86	0.94
57:BZ:244:GLY:HA2	57:BZ:245:LYS:CG	1.97	0.94
57:BZ:502:PHE:HE2	57:BZ:555:VAL:CB	1.41	0.94
1:AA:2296:U:H1'	1:AA:2335:A:N6	1.82	0.94
1:AA:1820:U:H2'	4:AD:202:LYS:HG3	1.49	0.94
1:AA:674:G:H5''	6:AF:74:ARG:NH1	1.81	0.94
7:AG:57:ALA:HA	7:AG:68:PRO:CD	1.98	0.94
11:AM:13:ASN:HD22	11:AM:14:LYS:H	1.12	0.94
11:AM:72:PRO:HB2	11:AM:111:ARG:CB	1.98	0.94
16:AR:53:ARG:NH1	16:AR:53:ARG:HB2	1.81	0.94
16:AR:93:LYS:H	17:AS:10:LYS:HZ2	0.97	0.94
34:BA:1309:G:C2'	34:BA:1329:A:C4	2.30	0.94
34:BA:1375:A:H2'	34:BA:1376:U:C6	2.02	0.94
34:BA:1433:A:N6	34:BA:1467:G:H21	1.64	0.94
56:BE:4:C:N1	56:BE:6:G:N7	2.14	0.94
56:BE:2:C:C6	56:BE:71:G:C5	2.41	0.94
38:BI:33:VAL:HG22	38:BI:43:LEU:HD12	1.49	0.94
48:BS:5:LYS:O	48:BS:8:LYS:HB3	1.66	0.94
48:BS:77:ARG:NH1	48:BS:81:LEU:HB2	1.82	0.94
34:BA:375:U:O3'	49:BT:6:LEU:HD21	1.67	0.94
57:BZ:483:ARG:N	57:BZ:573:ASP:OD2	1.99	0.94
57:BZ:312:CYS:HA	57:BZ:354:ASP:C	1.87	0.94
56:BD:51:U:C4	56:BD:64:A:C6	2.55	0.94
34:BA:1010:G:N2	34:BA:1020:U:H1'	1.80	0.94
1:AA:1650:G:N2	1:AA:1651:G:H1'	1.83	0.94
1:AA:150:C:H42	1:AA:176:G:H1	1.01	0.94
1:AA:1939:U:H1'	1:AA:2592:G:O4'	1.66	0.94
1:AA:2573:C:OP1	1:AA:2574:G:H5''	1.66	0.94
1:AA:932:G:H2'	1:AA:933:A:C8	2.02	0.94
3:AC:45:ALA:CA	3:AC:213:TYR:CE1	2.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:2:LYS:NZ	5:AE:83:ASP:HB2	1.82	0.94
10:AL:24:VAL:HA	10:AL:39:ILE:CG2	1.98	0.94
12:AN:94:VAL:HG23	12:AN:95:ALA:N	1.80	0.94
13:AO:14:SER:O	13:AO:17:ARG:HG2	1.67	0.94
16:AR:55:ARG:HG3	16:AR:58:ARG:NH2	1.82	0.94
17:AS:20:LEU:HB2	17:AS:95:LEU:HD22	1.46	0.94
21:AW:42:VAL:HG12	21:AW:46:LYS:HZ3	1.33	0.94
22:AX:68:GLU:CB	22:AX:80:HIS:O	2.15	0.94
34:BA:1162:C:H2'	34:BA:1163:C:C6	2.02	0.94
34:BA:1302:U:C5	46:BQ:13:LYS:NZ	2.36	0.94
34:BA:1419:G:HO2'	34:BA:1420:C:H6	1.14	0.94
34:BA:1506:U:C5'	34:BA:1507:A:OP2	2.16	0.94
34:BA:194:C:H2'	34:BA:195:A:H5''	1.47	0.94
34:BA:866:C:C5	34:BA:867:G:H1'	2.03	0.94
56:BE:20:U:H3'	56:BE:21:A:C5'	1.97	0.94
35:BF:31:TYR:CE2	35:BF:200:ILE:HG21	2.03	0.94
37:BH:173:TRP:NE1	37:BH:189:PRO:HB3	1.83	0.94
41:BL:13:ILE:HG22	41:BL:14:ARG:N	1.81	0.94
57:BZ:9:ALA:CB	57:BZ:73:VAL:HG22	1.67	0.94
57:BZ:88:VAL:HG13	57:BZ:92:VAL:HG11	1.46	0.94
1:AA:1046:A:C6	31:AI:7:VAL:N	2.04	0.94
1:AA:1272:A:O2'	1:AA:1273:U:OP1	1.85	0.94
1:AA:1993:U:H2'	1:AA:1994:C:C6	2.02	0.94
1:AA:2553:G:N7	1:AA:2583:G:H4'	1.83	0.94
1:AA:2533:A:C4'	1:AA:2664:G:HO2'	1.80	0.94
1:AA:2815:C:O2'	1:AA:2816:C:H5'	1.67	0.94
1:AA:2:G:N7	1:AA:2902:C:C4	2.32	0.94
1:AA:391:G:H2'	1:AA:392:C:C6	2.03	0.94
1:AA:447:A:H1'	1:AA:449:A:H61	1.32	0.94
1:AA:917:A:C3'	1:AA:918:A:H5''	1.96	0.94
1:AA:988:A:C3'	24:AZ:10:LYS:HZ1	1.80	0.94
4:AD:119:ALA:HB2	4:AD:130:ALA:H	1.31	0.94
4:AD:181:GLU:HB2	4:AD:268:ARG:HH21	1.33	0.94
5:AE:136:ARG:C	5:AE:137:HIS:ND1	2.19	0.94
9:AK:97:ARG:HA	9:AK:100:GLU:HG2	1.50	0.94
15:AQ:18:ASP:OD1	15:AQ:81:PRO:HG3	1.67	0.94
34:BA:1124:G:N2	34:BA:1126:U:H3	1.64	0.94
35:BF:17:PHE:HD1	35:BF:18:GLY:N	1.66	0.94
35:BF:42:ILE:CD1	35:BF:202:PRO:HB2	1.97	0.94
45:BP:59:ARG:HA	45:BP:64:TYR:O	1.68	0.94
57:BZ:62:ALA:CB	57:BZ:187:TYR:HD2	1.78	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:565:LEU:CB	57:BZ:566:GLU:CD	2.23	0.94
57:BZ:377:GLY:HA2	57:BZ:582:PRO:HG2	1.47	0.94
31:AI:54:ALA:CA	31:AI:83:TYR:O	2.15	0.94
56:BD:4:C:H1'	56:BD:70:G:H21	1.21	0.94
1:AA:1660:C:N4	1:AA:2001:A:H61	1.65	0.94
1:AA:2083:G:H2'	1:AA:2084:C:C6	2.03	0.94
1:AA:351:G:H1'	1:AA:352:G:N7	1.82	0.94
1:AA:234:C:N4	1:AA:430:G:H22	1.65	0.94
7:AG:39:ILE:HG23	7:AG:157:ILE:HB	1.47	0.94
32:AJ:75:SER:HB3	32:AJ:130:SER:HB2	0.95	0.94
12:AN:16:ARG:HG3	12:AN:72:LYS:HD2	1.47	0.94
15:AQ:64:ARG:HD3	15:AQ:65:LYS:N	1.81	0.94
24:AZ:54:VAL:HG22	24:AZ:55:ARG:N	1.81	0.94
34:BA:1200:C:H3'	34:BA:1201:A:H5'	1.50	0.94
34:BA:1329:A:H4'	46:BQ:29:ARG:HH22	1.31	0.94
34:BA:1486:G:C4	34:BA:1487:G:H8	1.80	0.94
37:BH:57:ARG:HB3	37:BH:206:PHE:HB2	1.47	0.94
34:BA:7:G:H21	38:BI:121:LYS:HG3	1.32	0.94
34:BA:523:A:H61	45:BP:53:ARG:NH2	1.64	0.94
46:BQ:22:ILE:HB	46:BQ:25:ILE:HD12	0.96	0.94
46:BQ:87:TYR:OH	52:BW:75:ALA:O	1.85	0.94
53:BX:49:ALA:HA	53:BX:92:LEU:HD22	1.47	0.94
53:BX:50:GLU:N	53:BX:99:LEU:HD12	1.83	0.94
57:BZ:234:ASN:CB	57:BZ:248:ASN:O	2.15	0.94
57:BZ:390:ARG:HB3	57:BZ:391:GLU:HB2	1.46	0.94
31:AI:54:ALA:CB	31:AI:83:TYR:O	2.10	0.94
57:BZ:575:ASP:HB3	57:BZ:590:ARG:HB2	1.50	0.94
1:AA:1244:G:H5'	11:AM:9:ASN:CB	1.98	0.94
1:AA:1491:G:H2'	1:AA:1492:G:H4'	1.48	0.94
1:AA:1934:C:H5'	1:AA:1974:C:H4'	1.50	0.94
1:AA:1996:C:H2'	1:AA:1997:G:C5'	1.97	0.94
1:AA:2178:C:C4'	3:AC:46:LYS:HZ3	1.81	0.94
1:AA:2330:G:H1	1:AA:2385:C:H42	1.01	0.94
1:AA:902:C:H2'	1:AA:903:C:C2	2.01	0.94
1:AA:917:A:H3'	1:AA:917:A:C8	2.02	0.94
3:AC:74:VAL:HG22	3:AC:112:ALA:HB3	1.47	0.94
6:AF:130:ALA:HB3	6:AF:142:TRP:CB	1.97	0.94
7:AG:55:LYS:HD3	7:AG:147:ASP:O	1.68	0.94
8:AH:139:GLN:HG3	8:AH:140:LYS:H	1.33	0.94
10:AL:1:MET:HB3	10:AL:66:LYS:HB3	1.49	0.94
16:AR:49:HIS:CD2	16:AR:52:ARG:HH22	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:6:VAL:HG12	24:AZ:55:ARG:O	1.68	0.94
34:BA:1224:G:C2'	52:BW:78:ARG:NH1	2.31	0.94
34:BA:1226:C:N4	46:BQ:104:ARG:CG	2.18	0.94
34:BA:1321:C:O2	52:BW:36:ARG:NH1	2.00	0.94
34:BA:306:G:H2'	34:BA:307:C:C6	2.02	0.94
35:BF:178:ARG:HE	35:BF:196:LEU:HD13	1.25	0.94
37:BH:20:TYR:CA	37:BH:26:CYS:SG	2.56	0.94
34:BA:1179:A:H4'	42:BM:103:THR:OG1	1.67	0.94
34:BA:1227:A:O5'	52:BW:80:TYR:OH	1.80	0.94
57:BZ:248:ASN:OD1	57:BZ:276:ILE:N	1.85	0.94
57:BZ:5:LEU:CD1	57:BZ:268:ALA:HB3	1.97	0.94
57:BZ:81:PHE:C	57:BZ:361:ARG:HB2	1.88	0.94
56:BD:5:G:C6	56:BD:69:G:C6	2.56	0.94
55:BC:35:A:H2'	55:BC:36:A:C8	2.02	0.94
1:AA:1906:G:C6	1:AA:1929:G:C6	2.56	0.93
1:AA:2125:G:N3	3:AC:217:THR:C	2.12	0.93
1:AA:2305:A:H8	1:AA:2306:C:H5''	1.32	0.93
1:AA:627:A:H4'	1:AA:627:A:OP2	1.67	0.93
1:AA:832:G:H2'	1:AA:833:U:H5	1.33	0.93
1:AA:901:A:C6	1:AA:902:C:C2	2.55	0.93
5:AE:164:ARG:O	5:AE:165:VAL:HG22	1.68	0.93
6:AF:197:ASP:CA	6:AF:200:GLU:HG3	1.98	0.93
32:AJ:72:PRO:HG3	32:AJ:77:LEU:HD22	0.95	0.93
32:AJ:72:PRO:HD2	32:AJ:77:LEU:HG	1.47	0.93
10:AL:34:THR:O	10:AL:61:VAL:HG11	1.68	0.93
12:AN:46:GLN:O	12:AN:49:ALA:HB3	1.68	0.93
34:BA:1117:G:C5	34:BA:1184:G:N1	2.36	0.93
34:BA:7:G:H1'	34:BA:298:A:C8	2.02	0.93
34:BA:564:C:C4	50:BU:31:LEU:HD11	2.02	0.93
42:BM:48:GLU:HB3	42:BM:78:LYS:NZ	1.81	0.93
36:BG:29:TYR:CZ	47:BR:54:PRO:HB2	2.03	0.93
57:BZ:239:ILE:CB	57:BZ:244:GLY:HA3	1.97	0.93
1:AA:1205:U:C4	1:AA:1207:C:N4	2.37	0.93
1:AA:1697:G:H5''	1:AA:1698:A:H5'	1.46	0.93
1:AA:1809:A:H2'	1:AA:1810:A:H5'	1.49	0.93
1:AA:1907:G:O6	58:AA:3001:NMY:C8	2.16	0.93
1:AA:2282:G:H1	1:AA:2427:C:H42	1.10	0.93
1:AA:2850:A:C2	1:AA:2869:G:H4'	2.03	0.93
1:AA:2862:G:H2'	1:AA:2863:C:H6	1.32	0.93
1:AA:2889:C:H2'	1:AA:2891:G:C8	2.03	0.93
1:AA:687:C:O2	1:AA:787:U:O3'	1.85	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:176:ARG:HH22	4:AD:270:ILE:HD11	1.29	0.93
7:AG:41:GLN:NE2	7:AG:155:MET:HG3	1.83	0.93
9:AK:111:PRO:O	9:AK:114:ARG:HB3	1.65	0.93
34:BA:858:G:H22	34:BA:869:G:C3'	1.81	0.93
56:BE:2:C:H3'	56:BE:70:G:H1	1.32	0.93
35:BF:193:ASP:OD2	35:BF:196:LEU:HD11	1.68	0.93
39:BJ:97:PHE:HD2	51:BV:31:LEU:HD13	1.32	0.93
42:BM:55:ALA:HB3	42:BM:58:HIS:HE1	1.31	0.93
43:BN:15:THR:HG23	43:BN:16:LEU:HD22	1.47	0.93
46:BQ:16:ASP:C	46:BQ:30:ALA:HB1	1.88	0.93
53:BX:63:ILE:CD1	53:BX:80:ARG:HB3	1.98	0.93
1:AA:1034:G:C5	1:AA:1122:G:C6	2.56	0.93
1:AA:1902:C:C5	1:AA:1903:G:N7	2.37	0.93
1:AA:2116:G:H5'	1:AA:2117:A:OP2	1.68	0.93
1:AA:2455:G:H2'	1:AA:2456:C:C6	2.04	0.93
1:AA:2557:G:H2'	1:AA:2558:C:C6	2.03	0.93
1:AA:783:A:H4'	1:AA:2588:G:O3'	1.66	0.93
1:AA:675:A:H4'	6:AF:67:GLN:NE2	1.82	0.93
1:AA:2177:C:H5'	3:AC:223:ARG:HB2	1.51	0.93
5:AE:53:PRO:HG3	5:AE:75:VAL:CG2	1.98	0.93
8:AH:120:GLY:HA3	8:AH:136:ILE:HG22	1.48	0.93
32:AJ:24:GLY:N	32:AJ:35:MET:HE1	1.57	0.93
32:AJ:52:ILE:O	32:AJ:72:PRO:C	2.06	0.93
1:AA:1006:C:H1'	9:AK:106:MET:SD	2.07	0.93
1:AA:566:U:H5''	17:AS:82:ARG:CZ	1.99	0.93
34:BA:1115:C:H2'	34:BA:1116:C:C6	2.02	0.93
34:BA:553:A:H2'	34:BA:554:C:C6	2.03	0.93
38:BI:100:VAL:HG11	38:BI:107:ARG:HG3	1.48	0.93
44:BO:121:PRO:HG2	44:BO:126:ARG:HG2	1.48	0.93
46:BQ:8:GLU:CG	46:BQ:22:ILE:CG1	2.35	0.93
46:BQ:16:ASP:H	46:BQ:34:LEU:HD11	1.04	0.93
49:BT:4:ILE:HG23	49:BT:21:VAL:HG12	1.50	0.93
57:BZ:10:ILE:HD13	57:BZ:21:LEU:HB3	0.97	0.93
57:BZ:499:PHE:CD1	57:BZ:541:LYS:O	2.20	0.93
1:AA:1005:C:O2	9:AK:28:THR:HB	1.68	0.93
1:AA:1466:G:H2'	1:AA:1547:C:N4	1.83	0.93
1:AA:221:A:H61	1:AA:265:A:H62	0.96	0.93
1:AA:2307:G:H3'	1:AA:2308:G:O4'	1.68	0.93
1:AA:2439:A:C8	1:AA:2586:C:H4'	2.03	0.93
1:AA:2445:G:H2'	1:AA:2446:G:H8	1.27	0.93
1:AA:2531:A:C4	1:AA:2658:C:H1'	2.03	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2764:A:OP1	1:AA:2764:A:H4'	1.68	0.93
1:AA:972:G:OP1	1:AA:974(A):C:H5'	1.67	0.93
4:AD:37:LEU:HD11	4:AD:63:ARG:HA	1.50	0.93
7:AG:131:TYR:CG	7:AG:132:ASN:N	2.29	0.93
8:AH:164:TYR:HE2	8:AH:167:GLU:H	1.09	0.93
13:AO:45:ARG:O	13:AO:49:ASP:CB	2.17	0.93
16:AR:13:LYS:HD2	16:AR:13:LYS:N	1.80	0.93
34:BA:1054:C:H2'	34:BA:1055:A:H5''	1.51	0.93
34:BA:1204:A:H2	36:BG:195:VAL:HG21	1.32	0.93
40:BK:74:GLU:HG2	40:BK:75:VAL:H	1.30	0.93
34:BA:1307:U:OP1	46:BQ:101:GLN:OE1	1.85	0.93
46:BQ:10:PRO:C	46:BQ:45:VAL:HG11	1.89	0.93
46:BQ:36:LYS:HG3	46:BQ:56:LEU:CD2	1.97	0.93
1:AA:715:G:N2	48:BS:43:LEU:HD13	1.83	0.93
53:BX:73:HIS:H	53:BX:76:ALA:CB	1.82	0.93
57:BZ:11:ILE:HD12	57:BZ:11:ILE:H	1.32	0.93
57:BZ:400:TYR:HB2	57:BZ:442:VAL:HG12	1.48	0.93
1:AA:887:A:O2'	1:AA:888:C:O4'	1.86	0.93
57:BZ:40:GLU:HB2	57:BZ:41:ARG:HB2	1.49	0.93
20:AV:42:VAL:N	20:AV:61:ILE:HB	1.83	0.93
1:AA:1689:A:N6	1:AA:1698:A:H2	1.64	0.93
1:AA:301:G:H2'	1:AA:302:C:C6	2.03	0.93
1:AA:447:A:H1'	1:AA:449:A:N6	1.82	0.93
1:AA:2122:U:C5'	3:AC:166:ASP:HB2	1.99	0.93
6:AF:131:GLY:HA2	6:AF:138:GLU:HB2	1.49	0.93
12:AN:51:ARG:O	12:AN:55:VAL:HG23	1.68	0.93
12:AN:81:VAL:HG12	12:AN:82:ARG:H	1.31	0.93
14:AP:74:ALA:HB1	14:AP:108:GLY:N	1.81	0.93
17:AS:57:VAL:HG12	17:AS:58:VAL:H	1.33	0.93
20:AV:14:LEU:HB2	20:AV:20:TYR:CA	1.98	0.93
20:AV:38:ILE:HA	20:AV:62:GLU:HG3	1.51	0.93
41:BL:7:ALA:HA	41:BL:10:LEU:HD12	1.49	0.93
1:AA:715:G:H21	48:BS:43:LEU:HD13	1.30	0.93
52:BW:9:VAL:CG1	52:BW:44:MET:HG3	1.98	0.93
57:BZ:363:GLU:CG	57:BZ:453:SER:OG	2.16	0.93
56:BD:52:G:C4	56:BD:63:G:N2	2.35	0.93
1:AA:1417:C:H42	1:AA:1581:G:H1	1.01	0.93
1:AA:1717:G:N2	1:AA:1718:G:N3	2.17	0.93
1:AA:1910:G:N3	1:AA:1921:G:C4	2.22	0.93
1:AA:2673:G:H2'	1:AA:2674:G:H8	1.34	0.93
1:AA:2675:A:C2'	1:AA:2676:C:H5'	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2893:G:O4'	1:AA:2894:G:OP2	1.87	0.93
2:AB:101:A:H2'	2:AB:102:G:C8	2.04	0.93
3:AC:75:LEU:HD11	3:AC:99:ILE:HG21	1.48	0.93
1:AA:1046:A:C4	31:AI:11:ALA:CB	2.50	0.93
32:AJ:110:GLN:O	32:AJ:112:MET:N	1.99	0.93
32:AJ:78:ILE:CG2	32:AJ:122:ALA:O	2.16	0.93
9:AK:16:ILE:HB	9:AK:54:VAL:HG23	1.50	0.93
17:AS:5:VAL:H	17:AS:12:TYR:HD2	0.96	0.93
34:BA:410:G:H1'	34:BA:432:A:H61	1.33	0.93
34:BA:783:C:O2'	34:BA:784:C:H5'	1.69	0.93
35:BF:150:SER:HA	35:BF:153:ARG:HB2	1.48	0.93
40:BK:122:HIS:O	40:BK:125:MET:HG3	1.69	0.93
34:BA:958:A:C1'	52:BW:55:LYS:NZ	2.29	0.93
57:BZ:122:LYS:HZ1	57:BZ:156:GLU:HB3	0.78	0.93
57:BZ:205:PHE:CZ	57:BZ:207:MET:HB2	2.04	0.93
1:AA:1754:C:H2'	1:AA:1755:A:O4'	1.68	0.93
1:AA:1800:C:C6	1:AA:1800:C:H3'	2.04	0.93
1:AA:1809:A:H5''	1:AA:1810:A:C2	2.01	0.93
1:AA:2667:C:C2'	1:AA:2668:G:H5'	1.98	0.93
1:AA:2792:G:H1	1:AA:2803:C:H42	1.04	0.93
1:AA:621:A:H2'	1:AA:622:G:H5'	1.49	0.93
1:AA:784:A:N6	1:AA:792:G:N3	2.17	0.93
8:AH:24:VAL:HG22	8:AH:35:VAL:O	1.67	0.93
9:AK:110:GLY:O	9:AK:114:ARG:HB2	1.67	0.93
12:AN:109:VAL:CG1	12:AN:114:ALA:HB2	1.97	0.93
15:AQ:30:VAL:HG23	15:AQ:89:VAL:O	1.68	0.93
16:AR:49:HIS:HA	16:AR:52:ARG:CZ	1.98	0.93
21:AW:151:HIS:HB2	21:AW:168:GLU:HG2	1.51	0.93
34:BA:1316:G:C4'	34:BA:1360:A:C5	2.51	0.93
34:BA:449:C:H2'	34:BA:450:G:O4'	1.68	0.93
40:BK:69:VAL:CG2	40:BK:104:LEU:HD21	1.98	0.93
34:BA:551:U:H5'	45:BP:119:LYS:HZ1	1.31	0.93
43:BN:65:LEU:HB2	47:BR:56:VAL:HG13	1.50	0.93
57:BZ:156:GLU:HG3	57:BZ:159:ASP:HB2	0.95	0.93
57:BZ:160:PHE:N	57:BZ:161:ALA:HB3	1.82	0.93
57:BZ:382:VAL:CG2	57:BZ:578:VAL:CG2	2.46	0.93
1:AA:1110:G:O3'	1:AA:1111:A:O4'	1.86	0.93
1:AA:1281:G:H2'	1:AA:1282:U:C6	2.04	0.93
1:AA:1448:G:H4'	1:AA:1543:A:C6	2.04	0.93
1:AA:1791:A:H3'	1:AA:1792:G:H8	1.33	0.93
1:AA:1959:G:H4'	34:BA:1418:A:H1'	0.93	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2041:U:H2'	1:AA:2042:A:C8	2.04	0.93
1:AA:2121:G:H1'	3:AC:167:LYS:CE	1.99	0.93
3:AC:82:LYS:HD2	3:AC:116:THR:HG21	1.47	0.93
4:AD:68:LYS:HB3	4:AD:70:TRP:NE1	1.84	0.93
5:AE:37:ARG:O	5:AE:38:THR:HB	1.66	0.93
6:AF:158:THR:HG21	6:AF:196:LEU:N	1.84	0.93
32:AJ:25:PRO:HB3	57:BZ:429:MET:HE1	0.94	0.93
9:AK:23:LEU:HD11	9:AK:63:THR:N	1.82	0.93
15:AQ:70:VAL:HB	15:AQ:74:ARG:HH11	1.30	0.93
24:AZ:6:VAL:O	24:AZ:35:ARG:HG2	1.68	0.93
34:BA:1278:U:H4'	34:BA:1279:A:O4'	1.69	0.93
34:BA:1316:G:N2	34:BA:1319:A:N7	2.16	0.93
34:BA:1440:C:C2	34:BA:1462:G:N2	2.37	0.93
34:BA:273:A:C2	34:BA:274:A:H1'	2.04	0.93
34:BA:994:A:N7	34:BA:1216:G:H4'	1.84	0.93
44:BO:58:PRO:O	44:BO:61:ALA:HB3	1.68	0.93
45:BP:85:ILE:HD11	45:BP:98:TYR:CB	1.99	0.93
46:BQ:81:LEU:HD22	46:BQ:82:MET:N	1.83	0.93
34:BA:237:C:H5''	50:BU:25:ARG:CZ	1.99	0.93
57:BZ:251:VAL:O	57:BZ:261:GLU:HA	1.69	0.93
31:AI:54:ALA:HB1	31:AI:83:TYR:CA	1.99	0.93
1:AA:1063:G:C8	1:AA:1064:C:C5	2.57	0.93
1:AA:2528:U:O2'	1:AA:2529:G:H3'	1.66	0.93
1:AA:2807:G:N3	1:AA:2808:U:C5	2.35	0.93
3:AC:122:ALA:HB1	3:AC:126:LYS:HD3	1.46	0.93
3:AC:67:GLY:N	3:AC:184:LYS:CE	2.31	0.93
1:AA:1813:G:H4'	4:AD:46:GLN:HB2	1.50	0.93
10:AL:7:TYR:CD1	10:AL:7:TYR:N	2.25	0.93
12:AN:27:VAL:HG22	12:AN:28:ALA:N	1.82	0.93
18:AT:11:ARG:HA	18:AT:100:THR:HA	1.50	0.93
34:BA:1084:G:C4	34:BA:1085:U:H5	1.87	0.93
34:BA:1312:G:N1	34:BA:1326:C:C6	2.37	0.93
34:BA:376:G:H2'	34:BA:377:G:H8	1.33	0.93
34:BA:633:G:H2'	34:BA:634:C:H6	1.34	0.93
34:BA:665:A:H2'	34:BA:725:G:H22	1.22	0.93
22:AX:4:LYS:HZ2	56:BE:75:C:C3'	1.81	0.93
36:BG:91:LEU:CD2	36:BG:98:ASN:HA	1.99	0.93
37:BH:98:GLU:HA	37:BH:103:ASN:ND2	1.83	0.93
40:BK:111:ARG:HB2	40:BK:119:ARG:HG2	1.51	0.93
51:BV:72:ARG:O	51:BV:75:ILE:HB	1.68	0.93
57:BZ:13:HIS:HD2	57:BZ:108:GLN:HG2	1.18	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:163:VAL:HG21	57:BZ:173:GLY:O	1.68	0.93
57:BZ:207:MET:HB2	57:BZ:226:ILE:HD12	1.51	0.93
57:BZ:253:LYS:HD2	57:BZ:262:ARG:NE	1.83	0.93
57:BZ:2:ILE:HG21	57:BZ:267:LEU:CD2	1.99	0.93
57:BZ:543:LEU:CG	57:BZ:544:THR:HG23	1.99	0.93
1:AA:1138:G:H21	1:AA:1139:G:H1'	1.33	0.93
1:AA:2571:C:H1'	5:AE:146:THR:HG23	1.51	0.93
1:AA:324:A:H62	1:AA:339:U:H1'	1.32	0.93
12:AN:32:TYR:HB2	12:AN:105:GLU:O	1.67	0.93
1:AA:72:U:H1'	23:AY:56:LEU:HD23	1.50	0.93
34:BA:1100:C:H2'	35:BF:98:LEU:CD1	1.98	0.93
34:BA:1330:U:H5'	46:BQ:70:LEU:HD22	1.46	0.93
34:BA:198:G:H8	34:BA:198:G:OP2	1.52	0.93
34:BA:1125:U:O5'	43:BN:38:ILE:HD11	1.69	0.93
46:BQ:27:LYS:HB2	54:BY:7:ARG:NH1	1.83	0.93
49:BT:75:ARG:CG	49:BT:80:PHE:HB3	1.97	0.93
57:BZ:15:ASP:CG	57:BZ:16:HIS:CE1	2.43	0.93
56:BD:5:G:N3	56:BD:69:G:C8	2.35	0.93
7:AG:91:ARG:HH21	7:AG:91:ARG:CB	1.82	0.93
1:AA:1058:G:C2	1:AA:1059:G:C8	2.57	0.92
1:AA:1264:G:H3'	1:AA:1265:A:C5'	1.98	0.92
1:AA:2161:C:H2'	1:AA:2162:G:H8	1.32	0.92
1:AA:2533:A:C4'	1:AA:2664:G:O2'	2.16	0.92
1:AA:2563:U:H4'	10:AL:28:SER:OG	1.69	0.92
1:AA:280:C:H6	1:AA:280:C:OP2	1.50	0.92
1:AA:371:A:N7	1:AA:424:G:O4'	2.02	0.92
1:AA:954:G:H2'	1:AA:955:C:O4'	1.67	0.92
2:AB:100:G:H2'	2:AB:101:A:C8	2.03	0.92
4:AD:109:ASP:O	4:AD:111:LEU:HD22	1.68	0.92
4:AD:111:LEU:HB3	4:AD:115:GLN:NE2	1.84	0.92
4:AD:133:LEU:C	4:AD:136:ILE:HG13	1.89	0.92
7:AG:16:ARG:HG3	7:AG:16:ARG:HH21	1.32	0.92
1:AA:2659:G:OP1	8:AH:158:HIS:CE1	2.22	0.92
32:AJ:27:LEU:HD11	32:AJ:57:ILE:HB	1.51	0.92
13:AO:33:ARG:HB2	13:AO:113:LEU:HD11	1.51	0.92
13:AO:99:LYS:N	13:AO:99:LYS:HD2	1.83	0.92
15:AQ:11:GLU:H	15:AQ:11:GLU:CD	1.71	0.92
15:AQ:70:VAL:CG2	15:AQ:74:ARG:HD3	1.98	0.92
19:AU:48:LYS:O	19:AU:88:LYS:HG3	1.69	0.92
20:AV:1:MET:N	20:AV:33:LYS:HE3	1.84	0.92
24:AZ:26:LEU:HG	24:AZ:47:VAL:HG22	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1221:G:H5'	52:BW:52:TYR:C	1.89	0.92
34:BA:1229:A:H2'	34:BA:1230:C:C6	2.04	0.92
34:BA:20:U:H5'	34:BA:572:A:N6	1.84	0.92
34:BA:939:G:C5'	40:BK:102:ARG:HH22	1.80	0.92
46:BQ:14:ARG:HD3	46:BQ:41:PRO:HB3	1.48	0.92
46:BQ:15:VAL:HG11	46:BQ:39:ILE:HD11	1.50	0.92
57:BZ:13:HIS:CG	57:BZ:108:GLN:HG3	2.02	0.92
57:BZ:230:LYS:O	57:BZ:265:THR:O	1.86	0.92
57:BZ:560:PRO:CB	57:BZ:562:ARG:HB2	1.99	0.92
31:AI:51:LEU:O	31:AI:53:VAL:N	2.02	0.92
31:AI:53:VAL:HA	31:AI:85:ASP:CA	1.99	0.92
56:BD:7:A:H2	56:BD:67:C:N3	1.66	0.92
57:BZ:575:ASP:O	57:BZ:590:ARG:N	2.00	0.92
57:BZ:411:HIS:CD2	57:BZ:459:THR:HA	2.03	0.92
1:AA:1055:G:N3	1:AA:1084:A:C2	2.36	0.92
1:AA:1656:C:H2'	1:AA:1657:C:C5	2.03	0.92
1:AA:530:G:N1	1:AA:2022:U:OP1	2.03	0.92
1:AA:2211:G:N3	1:AA:2211:G:H3'	1.83	0.92
9:AK:58:ASP:O	9:AK:60:ILE:N	2.02	0.92
19:AU:44:GLU:HG3	19:AU:51:VAL:CG2	1.98	0.92
34:BA:1263:C:H2'	34:BA:1264:C:H6	1.35	0.92
34:BA:1486:G:C2'	34:BA:1487:G:H5''	1.98	0.92
34:BA:266:G:H8	50:BU:67:LYS:HZ3	0.92	0.92
34:BA:858:G:H22	34:BA:869:G:H3'	1.33	0.92
35:BF:102:LEU:HB2	35:BF:176:GLU:OE1	1.69	0.92
37:BH:170:VAL:H	37:BH:176:LEU:HD22	1.34	0.92
39:BJ:10:LEU:H	39:BJ:10:LEU:HD23	1.33	0.92
39:BJ:14:LEU:HD11	39:BJ:19:LEU:N	1.84	0.92
41:BL:24:THR:HG22	41:BL:61:VAL:O	1.68	0.92
57:BZ:206:GLN:CB	57:BZ:227:LYS:HB2	1.99	0.92
57:BZ:250:LYS:HD2	57:BZ:275:ALA:HB2	1.48	0.92
57:BZ:73:VAL:HG22	57:BZ:88:VAL:HG13	1.51	0.92
31:AI:97:ALA:N	31:AI:132:ASP:O	2.02	0.92
1:AA:1222:C:H42	1:AA:1227:A:H62	1.17	0.92
1:AA:2027:G:H1'	1:AA:2037:G:N2	1.83	0.92
1:AA:2405:G:H2'	1:AA:2411:A:N6	1.84	0.92
1:AA:2447:G:N7	1:AA:2500:U:C3'	2.25	0.92
1:AA:2620:C:H4'	5:AE:156:MET:CB	2.00	0.92
1:AA:2627:G:H2'	1:AA:2628:C:H5'	1.48	0.92
1:AA:2252:G:C6	59:AA:3003:8AN:N1	2.27	0.92
2:AB:62:C:H2'	2:AB:63:G:H8	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:5:LYS:HB3	4:AD:82:ILE:HB	1.52	0.92
6:AF:9:ILE:HG12	6:AF:124:LEU:HB2	1.52	0.92
9:AK:45:ASN:O	9:AK:46:VAL:HG23	1.66	0.92
9:AK:89:LYS:HE2	9:AK:89:LYS:N	1.85	0.92
10:AL:10:VAL:HG13	10:AL:11:ALA:N	1.81	0.92
17:AS:18:LEU:HD12	17:AS:66:ARG:HH12	1.33	0.92
2:AB:75:G:N3	21:AW:27:VAL:HG21	1.84	0.92
34:BA:1112:C:H1'	36:BG:179:ARG:CZ	1.99	0.92
34:BA:1261:A:N6	34:BA:1274:G:H1'	1.83	0.92
34:BA:1484:C:H2'	34:BA:1485:U:C5'	1.99	0.92
34:BA:1486:G:O6	34:BA:1487:G:N7	1.95	0.92
34:BA:761:G:H5'	50:BU:102:GLY:CA	1.99	0.92
34:BA:1191:A:OP1	36:BG:4:LYS:HG2	1.69	0.92
39:BJ:3:ARG:HA	39:BJ:67:MET:CE	1.98	0.92
57:BZ:67:ASP:HB3	57:BZ:191:VAL:HG13	0.93	0.92
1:AA:2555:U:O4	57:BZ:547:ARG:CZ	2.17	0.92
56:BD:7:A:C2	56:BD:67:C:C4	2.57	0.92
57:BZ:300:LEU:H	57:BZ:300:LEU:HD12	1.35	0.92
1:AA:1359:A:H62	1:AA:1371:G:H21	1.02	0.92
1:AA:2659:G:H5''	1:AA:2660:A:OP2	1.67	0.92
1:AA:3:U:O2	1:AA:2900:A:H2	1.50	0.92
1:AA:826:U:H5''	1:AA:2428:G:O3'	1.69	0.92
1:AA:899:A:C2	1:AA:900:A:N1	2.36	0.92
2:AB:29:A:H2'	2:AB:30:C:C6	2.04	0.92
4:AD:13:ARG:NH1	4:AD:19:ALA:HB1	1.83	0.92
4:AD:61:LEU:CB	4:AD:86:PRO:HG2	2.00	0.92
7:AG:61:ALA:CB	7:AG:67:LYS:HE2	1.98	0.92
20:AV:47:LYS:HB2	20:AV:49:VAL:HG22	1.51	0.92
34:BA:1062:U:H2'	34:BA:1063:C:C6	2.05	0.92
34:BA:191:G:C4	53:BX:105:SER:HB3	2.04	0.92
34:BA:817:C:O2'	34:BA:818:G:H5''	1.69	0.92
35:BF:14:GLY:HA3	35:BF:209:ARG:HH21	1.33	0.92
36:BG:33:LEU:CD1	47:BR:54:PRO:HD2	1.99	0.92
41:BL:120:THR:O	41:BL:123:GLU:HB3	1.69	0.92
49:BT:19:ILE:HB	49:BT:37:GLY:O	1.69	0.92
50:BU:7:THR:CG2	50:BU:56:VAL:HG12	1.98	0.92
34:BA:1320:C:O3'	52:BW:73:GLU:HB3	1.67	0.92
57:BZ:303:ASP:HB2	57:BZ:343:VAL:O	1.67	0.92
57:BZ:403:VAL:O	57:BZ:465:LEU:HB2	1.68	0.92
45:BP:80:HIS:O	57:BZ:327:THR:HB	1.04	0.92
36:BG:60:ALA:HB2	43:BN:92:THR:OG1	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1071:G:C6	1:AA:1089:G:N2	2.14	0.92
1:AA:1154:G:OP1	16:AR:62:ILE:HD11	1.70	0.92
1:AA:1790:C:H4'	4:AD:213:ARG:NH1	1.84	0.92
1:AA:1906:G:H8	1:AA:1929:G:C8	1.80	0.92
1:AA:2083:G:H2'	1:AA:2084:C:H6	1.35	0.92
1:AA:2213:U:H5'	1:AA:2215:G:C5	2.04	0.92
1:AA:472:A:H2'	1:AA:473:G:C5'	1.99	0.92
1:AA:5:A:C5	1:AA:2899:G:N1	2.37	0.92
1:AA:789:A:H3'	1:AA:789:A:OP1	1.69	0.92
1:AA:807:U:O2'	1:AA:808:G:H5'	1.67	0.92
3:AC:71:GLN:HG2	3:AC:174:PRO:CG	1.99	0.92
4:AD:8:PRO:HD2	4:AD:26:LYS:O	1.69	0.92
1:AA:2636:U:C4'	5:AE:79:ARG:HD3	1.99	0.92
6:AF:131:GLY:HA2	6:AF:138:GLU:CG	1.99	0.92
1:AA:1060:U:OP1	32:AJ:52:ILE:HG21	1.55	0.92
10:AL:89:ASN:ND2	10:AL:91:LEU:HB2	1.85	0.92
12:AN:67:ARG:HB2	12:AN:103:MET:SD	2.09	0.92
12:AN:75:THR:HG22	12:AN:77:LYS:H	1.33	0.92
17:AS:43:GLU:H	17:AS:44:LYS:HZ1	1.05	0.92
24:AZ:10:LYS:HZ3	24:AZ:12:PRO:HG3	1.32	0.92
34:BA:1117:G:N2	34:BA:1184:G:H1'	1.83	0.92
34:BA:275:G:O3'	50:BU:14:LYS:HD3	1.69	0.92
34:BA:538:G:O3'	45:BP:114:LYS:HD3	1.68	0.92
39:BJ:6:VAL:CG2	39:BJ:8:ILE:HD11	1.99	0.92
41:BL:33:GLU:HG2	41:BL:59:LEU:HD11	1.49	0.92
52:BW:9:VAL:C	52:BW:41:VAL:CG2	2.38	0.92
53:BX:13:LEU:N	53:BX:13:LEU:HD12	1.84	0.92
1:AA:1177:A:H2'	1:AA:1178:C:C6	2.03	0.92
1:AA:1448:G:O3'	1:AA:1543:A:N1	2.02	0.92
1:AA:152:G:H22	1:AA:175:G:H1'	1.33	0.92
1:AA:2459:A:C2'	1:AA:2460:U:O4'	2.18	0.92
1:AA:2543:G:C2	1:AA:2765:A:C2	2.57	0.92
1:AA:1638:C:OP1	1:AA:2710:C:O2'	1.87	0.92
1:AA:2:G:C4	1:AA:2902:C:N3	2.36	0.92
1:AA:411:G:H21	1:AA:2408:U:H3	1.12	0.92
1:AA:901:A:C5	1:AA:902:C:C5	2.58	0.92
4:AD:57:GLY:H	4:AD:217:ARG:HD2	1.33	0.92
9:AK:102:ALA:O	9:AK:105:GLY:HA3	1.68	0.92
14:AP:78:LEU:HD13	14:AP:79:ALA:N	1.84	0.92
16:AR:112:ARG:HH12	17:AS:50:PRO:CG	1.83	0.92
16:AR:46:ALA:O	16:AR:50:ARG:HD3	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:781:A:C2'	34:BA:782:A:H5'	1.98	0.92
37:BH:121:VAL:HA	37:BH:126:ILE:HD11	1.52	0.92
46:BQ:65:LYS:CB	46:BQ:69:GLU:HB3	1.98	0.92
46:BQ:81:LEU:HB2	46:BQ:86:CYS:SG	2.09	0.92
50:BU:92:ARG:O	50:BU:95:TYR:HB2	1.69	0.92
57:BZ:240:ILE:HG13	57:BZ:286:ASP:CB	1.89	0.92
56:BD:67:C:C6	56:BD:68:C:C5	2.56	0.92
1:AA:1264:G:H5''	1:AA:1265:A:H5''	1.50	0.92
1:AA:1856:G:H2'	1:AA:1857:G:H5'	1.50	0.92
1:AA:2051:A:C4'	5:AE:141:ILE:HD11	2.00	0.92
1:AA:2076:U:H4'	1:AA:2077:A:OP1	1.70	0.92
1:AA:2132:U:H3'	1:AA:2133:G:H5'	1.48	0.92
5:AE:104:VAL:CG2	5:AE:198:VAL:HG13	1.98	0.92
1:AA:2051:A:H4'	5:AE:141:ILE:HD11	1.50	0.92
32:AJ:27:LEU:CD2	32:AJ:57:ILE:O	2.15	0.92
32:AJ:33:ASN:HB3	32:AJ:63:ARG:CB	1.95	0.92
10:AL:122:LEU:H	15:AQ:70:VAL:CG1	1.81	0.92
12:AN:6:ARG:HB2	12:AN:44:ALA:CB	2.00	0.92
14:AP:69:VAL:O	14:AP:73:LEU:HD13	1.69	0.92
16:AR:74:LEU:HD22	16:AR:78:THR:HG21	1.52	0.92
18:AT:11:ARG:HH21	18:AT:11:ARG:H	1.10	0.92
34:BA:1109:C:H2'	34:BA:1110:A:H8	1.34	0.92
34:BA:1320:C:C6	52:BW:36:ARG:CG	2.51	0.92
34:BA:475:G:H2'	34:BA:476:G:H8	1.26	0.92
56:BE:21:A:N7	56:BE:46:G:C5	2.38	0.92
34:BA:1104:G:H4'	35:BF:111:ARG:HE	1.35	0.92
41:BL:25:ASP:HB3	41:BL:58:TYR:HB3	1.51	0.92
42:BM:16:ARG:HG2	42:BM:18:PHE:CE1	2.05	0.92
57:BZ:547:ARG:HD3	57:BZ:548:ALA:HB1	1.49	0.92
1:AA:1005:C:H5	1:AA:1143:A:OP1	1.51	0.92
1:AA:1160:G:C6	1:AA:1161:C:N4	2.37	0.92
1:AA:1270:C:H4'	1:AA:1271:G:H5'	1.50	0.92
1:AA:1690:A:C2	1:AA:1691:C:H1'	2.04	0.92
1:AA:1812:A:H2'	1:AA:1813:G:O4'	1.70	0.92
1:AA:2266:A:H5'	1:AA:2267:A:N3	1.85	0.92
1:AA:2589:A:O2'	1:AA:2590:A:H5'	1.68	0.92
1:AA:2:G:N9	1:AA:2902:C:C2	2.38	0.92
1:AA:614:U:H3'	1:AA:615:G:H4'	1.48	0.92
4:AD:181:GLU:HA	4:AD:270:ILE:HD12	1.52	0.92
15:AQ:24:PRO:HG2	15:AQ:25:GLY:H	1.33	0.92
23:AY:44:LYS:HG3	23:AY:48:LEU:HD22	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:3:ARG:HH22	24:AZ:59:VAL:HG11	1.35	0.92
34:BA:1111:A:H2'	34:BA:1112:C:C6	2.05	0.92
41:BL:85:ARG:HG2	41:BL:85:ARG:HH11	1.35	0.92
42:BM:74:ILE:HA	42:BM:77:ILE:HD12	1.51	0.92
44:BO:58:PRO:HB3	44:BO:90:GLY:HA3	1.50	0.92
34:BA:1308:U:H5'	46:BQ:110:ARG:NH1	1.76	0.92
50:BU:5:VAL:HG22	50:BU:60:ILE:CA	2.00	0.92
57:BZ:287:THR:O	57:BZ:297:LEU:CD2	2.16	0.92
57:BZ:305:PRO:HB3	57:BZ:361:ARG:CG	1.99	0.92
57:BZ:512:LEU:CD2	57:BZ:518:VAL:HG11	2.00	0.92
31:AI:94:VAL:HA	31:AI:134:LEU:H	1.30	0.92
1:AA:1774:C:C5	1:AA:1775:U:C5	2.57	0.92
1:AA:1906:G:C4	1:AA:1929:G:O6	2.21	0.92
1:AA:2075:U:H2'	1:AA:2076:U:C5'	2.00	0.92
1:AA:2469:A:H5'	1:AA:2469:A:H8	1.34	0.92
1:AA:2507:C:O2	59:AA:3002:8AN:N3	2.02	0.92
3:AC:67:GLY:HA3	3:AC:184:LYS:HZ3	0.75	0.92
4:AD:258:LYS:HA	4:AD:261:LYS:NZ	1.85	0.92
9:AK:107:LEU:HD21	9:AK:113:GLY:HA3	1.51	0.92
1:AA:1453:A:H61	13:AO:63:ARG:HH21	0.98	0.92
16:AR:111:GLU:HA	16:AR:114:LYS:NZ	1.85	0.92
19:AU:27:THR:HB	19:AU:80:ILE:HD12	1.48	0.92
21:AW:176:PRO:HB2	21:AW:179:ASP:CA	1.99	0.92
21:AW:4:ARG:HE	21:AW:44:PHE:HZ	0.94	0.92
34:BA:96:G:H2'	34:BA:97:U:C6	2.05	0.92
1:AA:2602:A:N1	56:BD:74:C:C2'	2.32	0.92
35:BF:115:LEU:HD12	35:BF:118:LEU:HD13	1.50	0.92
40:BK:50:ILE:O	40:BK:54:THR:HG23	1.70	0.92
57:BZ:379:GLU:CG	57:BZ:581:THR:CB	2.40	0.92
57:BZ:512:LEU:HD21	57:BZ:524:ILE:CG2	1.99	0.92
57:BZ:8:ILE:HG23	57:BZ:72:ILE:HD13	1.52	0.92
1:AA:885:C:H3'	1:AA:886:C:C5'	1.99	0.92
46:BQ:71:ARG:O	46:BQ:75:ALA:N	2.03	0.92
1:AA:1309:G:C2'	1:AA:1310:G:H5'	1.99	0.92
1:AA:1697:G:H3'	1:AA:1698:A:H5'	1.52	0.92
1:AA:2261:C:P	22:AX:17:GLN:HB2	2.09	0.92
1:AA:6:A:N6	1:AA:2897:U:O4	2.02	0.92
1:AA:34:C:H2'	1:AA:455:C:N4	1.84	0.92
6:AF:103:LYS:HB3	6:AF:107:LYS:HE3	1.52	0.92
6:AF:176:LEU:HG	6:AF:178:PRO:HD2	1.49	0.92
8:AH:94:TYR:HA	8:AH:106:THR:O	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:7:LYS:HE3	9:AK:8:GLN:N	1.83	0.92
13:AO:86:ARG:NH1	13:AO:86:ARG:HB3	1.85	0.92
21:AW:53:ILE:HG12	21:AW:58:VAL:HG21	1.51	0.92
34:BA:384:G:H2'	34:BA:385:C:H6	1.34	0.92
34:BA:828:A:N1	34:BA:859:A:O4'	2.02	0.92
56:BE:18:G:O2'	56:BE:19:G:OP2	1.88	0.92
35:BF:77:ALA:HA	35:BF:208:ILE:HD11	1.50	0.92
35:BF:56:ARG:HB3	35:BF:56:ARG:HH11	1.33	0.92
36:BG:38:ARG:HH11	36:BG:38:ARG:CB	1.82	0.92
37:BH:20:TYR:HD1	37:BH:21:LEU:H	1.08	0.92
38:BI:70:PRO:HB2	38:BI:143:ARG:HA	1.52	0.92
43:BN:79:ARG:C	43:BN:79:ARG:HD3	1.90	0.92
44:BO:65:ALA:HB1	44:BO:98:LEU:HD23	1.48	0.92
52:BW:32:LYS:HA	52:BW:50:ALA:CB	2.00	0.92
52:BW:3:ARG:NH2	52:BW:64:GLU:O	1.79	0.92
57:BZ:27:GLN:OE1	57:BZ:183:MET:CB	2.18	0.92
57:BZ:487:VAL:HG21	57:BZ:576:GLU:OE2	1.70	0.92
57:BZ:69:ARG:NH1	57:BZ:253:LYS:NZ	2.09	0.92
57:BZ:514:HIS:CG	57:BZ:515:GLY:HA2	2.05	0.92
1:AA:1186:G:C8	1:AA:1187:G:C8	2.58	0.91
1:AA:2209:C:H4'	4:AD:150:LYS:HB3	1.51	0.91
1:AA:2670:A:C2	1:AA:2671:A:C8	2.57	0.91
1:AA:49:A:H5'	1:AA:50:U:OP1	1.71	0.91
1:AA:2152:G:C5'	3:AC:2:LYS:CB	2.43	0.91
3:AC:75:LEU:HD23	3:AC:77:ILE:HD11	1.49	0.91
4:AD:37:LEU:HD11	4:AD:63:ARG:C	1.90	0.91
5:AE:33:VAL:HG22	5:AE:47:VAL:O	1.70	0.91
32:AJ:122:ALA:HA	32:AJ:126:MET:HB2	1.50	0.91
12:AN:67:ARG:NH1	12:AN:103:MET:HB3	1.84	0.91
1:AA:997:G:H5''	16:AR:92:ARG:NH1	1.83	0.91
17:AS:43:GLU:O	17:AS:44:LYS:HD3	1.68	0.91
21:AW:110:GLY:O	21:AW:113:ALA:HB3	1.70	0.91
21:AW:96:VAL:HA	21:AW:128:VAL:HG13	1.52	0.91
34:BA:1180:A:C2'	34:BA:1181:G:H5'	2.00	0.91
34:BA:620:C:C2	37:BH:135:LEU:HD13	2.04	0.91
34:BA:979:C:N4	47:BR:18:VAL:HB	1.85	0.91
39:BJ:8:ILE:CG2	39:BJ:88:VAL:HA	2.00	0.91
45:BP:58:VAL:O	45:BP:65:GLU:HA	1.70	0.91
50:BU:10:VAL:HG23	50:BU:55:ASP:O	1.69	0.91
57:BZ:382:VAL:HG23	57:BZ:578:VAL:HG21	1.52	0.91
31:AI:53:VAL:CA	31:AI:85:ASP:CA	2.48	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1774:C:C5	1:AA:1775:U:H5	1.89	0.91
1:AA:1773:A:C6	1:AA:1829:A:H1'	2.05	0.91
1:AA:2125:G:H5'	3:AC:40:THR:CG2	1.99	0.91
1:AA:2329:G:H1	1:AA:2386:C:N4	1.67	0.91
4:AD:117:VAL:HG22	4:AD:126:GLN:NE2	1.85	0.91
4:AD:202:LYS:HD2	4:AD:202:LYS:N	1.83	0.91
6:AF:89:VAL:CG1	6:AF:90:PHE:H	1.84	0.91
8:AH:153:LYS:N	8:AH:154:PRO:HD2	1.82	0.91
8:AH:38:SER:H	8:AH:41:MET:CE	1.83	0.91
11:AM:91:PHE:H	11:AM:125:VAL:HG11	1.35	0.91
15:AQ:111:ARG:O	15:AQ:114:LEU:HB2	1.70	0.91
16:AR:55:ARG:HB3	16:AR:58:ARG:HE	1.35	0.91
16:AR:83:LEU:HD12	16:AR:83:LEU:H	1.34	0.91
17:AS:34:GLU:HA	17:AS:62:LEU:O	1.69	0.91
23:AY:20:VAL:HA	23:AY:55:LEU:HD23	1.52	0.91
34:BA:1310:G:O6	34:BA:1327:C:N4	2.02	0.91
34:BA:356:A:O3'	34:BA:367:U:H2'	1.70	0.91
34:BA:628:G:H2'	34:BA:629:G:C8	2.05	0.91
34:BA:736:C:H5''	51:BV:72:ARG:NH2	1.82	0.91
34:BA:776:G:H5''	34:BA:777:A:OP1	1.70	0.91
57:BZ:172:ALA:HB1	57:BZ:175:ASP:HA	1.51	0.91
57:BZ:482:GLN:N	57:BZ:573:ASP:CG	2.24	0.91
1:AA:920:G:O2'	1:AA:921:G:H5'	1.70	0.91
1:AA:569:U:H5'	1:AA:946:G:H1'	1.51	0.91
3:AC:51:PRO:HB3	3:AC:165:ASN:HD21	1.35	0.91
3:AC:62:VAL:CB	3:AC:192:PHE:N	2.32	0.91
11:AM:46:LYS:N	11:AM:46:LYS:HE3	1.83	0.91
12:AN:34:LEU:HD11	12:AN:105:GLU:HB2	1.51	0.91
13:AO:79:LEU:HD23	13:AO:80:PHE:CA	1.99	0.91
24:AZ:41:PRO:HA	24:AZ:44:ARG:HH11	1.35	0.91
34:BA:1308:U:H3	34:BA:1309:G:H8	1.11	0.91
34:BA:975:A:O2'	34:BA:1358:U:H1'	1.71	0.91
34:BA:1414:U:O2	34:BA:1487:G:N3	2.03	0.91
34:BA:1441:G:H21	34:BA:1460:A:N6	1.68	0.91
34:BA:1441:G:H21	34:BA:1460:A:H62	0.93	0.91
34:BA:509:A:H2'	34:BA:510:A:C8	2.05	0.91
56:BE:6:G:H3'	56:BE:7:A:H5''	1.51	0.91
36:BG:85:ARG:HH21	36:BG:89:GLU:HB2	1.33	0.91
43:BN:24:VAL:HG22	43:BN:72:VAL:HG13	1.53	0.91
43:BN:30:SER:CB	43:BN:81:THR:HA	1.99	0.91
44:BO:84:VAL:HG21	51:BV:88:LYS:HD3	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:716:A:N3	48:BS:44:LYS:CE	2.33	0.91
52:BW:62:ILE:HD11	52:BW:67:VAL:HA	1.50	0.91
57:BZ:346:ARG:HH11	57:BZ:346:ARG:HG2	1.35	0.91
1:AA:1047:G:H5''	1:AA:1110:G:O6	1.69	0.91
1:AA:532:A:OP1	1:AA:2021:C:N4	2.04	0.91
1:AA:20:C:O2'	1:AA:21:A:H5'	1.70	0.91
1:AA:2533:A:H5'	1:AA:2664:G:O2'	1.70	0.91
4:AD:106:ILE:HD12	4:AD:192:THR:HG21	1.52	0.91
4:AD:129:ASN:O	4:AD:193:VAL:HB	1.69	0.91
8:AH:35:VAL:HG21	8:AH:72:ILE:HG23	1.52	0.91
10:AL:97:ARG:HB2	10:AL:97:ARG:HH21	1.11	0.91
13:AO:87:TYR:OH	13:AO:116:LEU:HB2	1.71	0.91
14:AP:9:ARG:HD3	14:AP:12:PHE:HE2	1.35	0.91
16:AR:102:GLU:O	16:AR:105:VAL:HG12	1.70	0.91
20:AV:29:GLU:OE1	20:AV:32:PRO:HG2	1.70	0.91
34:BA:1417:G:H2'	34:BA:1482:G:H22	1.33	0.91
35:BF:69:LEU:O	35:BF:162:ILE:HA	1.69	0.91
40:BK:111:ARG:NH1	40:BK:112:PRO:HD2	1.85	0.91
34:BA:1048:G:H5''	47:BR:3:ARG:HH11	1.33	0.91
57:BZ:426:LEU:HD21	57:BZ:429:MET:HB3	1.52	0.91
57:BZ:407:VAL:N	57:BZ:436:ARG:HH12	1.59	0.91
56:BD:52:G:C4	56:BD:63:G:C2	2.59	0.91
1:AA:1050:A:H1'	1:AA:2752:C:H5	1.24	0.91
1:AA:1063:G:N7	1:AA:1064:C:H5	1.64	0.91
1:AA:2791:C:H2'	1:AA:2792:G:H8	1.25	0.91
1:AA:529:A:O2'	1:AA:530:G:N7	2.02	0.91
5:AE:154:LYS:HZ3	5:AE:156:MET:HE2	1.33	0.91
5:AE:107:THR:O	5:AE:190:GLY:HA3	1.71	0.91
9:AK:30:ILE:O	9:AK:33:LEU:HB3	1.71	0.91
11:AM:137:LYS:HE3	11:AM:137:LYS:HA	1.49	0.91
15:AQ:52:ILE:HA	15:AQ:66:VAL:CG1	2.01	0.91
16:AR:44:ASN:HD21	17:AS:78:LYS:CG	1.83	0.91
16:AR:89:GLU:CG	17:AS:52:VAL:HG23	2.01	0.91
17:AS:62:LEU:HD12	17:AS:96:ILE:CB	1.98	0.91
19:AU:92:LEU:HD12	19:AU:92:LEU:H	1.34	0.91
34:BA:1490:C:H5	58:BA:1601:NMY:O17	1.53	0.91
56:BE:4:C:N3	56:BE:6:G:N7	2.16	0.91
37:BH:94:LEU:HA	37:BH:97:LEU:CD1	2.00	0.91
38:BI:71:LEU:HD11	38:BI:74:GLY:HA2	1.52	0.91
40:BK:98:SER:O	40:BK:101:LEU:HB3	1.71	0.91
41:BL:5:PRO:O	41:BL:8:ASP:HB3	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:9:VAL:HG22	52:BW:42:PRO:CA	1.99	0.91
57:BZ:54:ILE:HD11	57:BZ:211:GLN:HE22	1.35	0.91
56:BD:52:G:C8	56:BD:63:G:N2	2.39	0.91
1:AA:1543:A:H3'	1:AA:1544:C:C4'	1.99	0.91
1:AA:1303:G:N2	1:AA:1626:G:O2'	2.04	0.91
1:AA:1270:C:O2'	1:AA:1648:C:OP2	1.87	0.91
1:AA:1906:G:C2	1:AA:1907:G:N7	2.38	0.91
1:AA:470:A:OP1	1:AA:470:A:H4'	1.68	0.91
1:AA:904:C:O4'	21:AW:169:GLU:OE1	1.89	0.91
4:AD:95:LEU:HD22	4:AD:96:HIS:N	1.86	0.91
5:AE:7:VAL:HG11	5:AE:196:VAL:HG23	1.52	0.91
8:AH:126:PRO:O	8:AH:127:GLU:HG2	1.69	0.91
14:AP:26:LEU:HD21	14:AP:37:ALA:HB1	1.51	0.91
10:AL:77:ILE:CG2	15:AQ:65:LYS:HE2	2.00	0.91
16:AR:57:PHE:HA	16:AR:60:LEU:CG	2.00	0.91
17:AS:40:LEU:CA	17:AS:54:GLY:HA3	2.00	0.91
19:AU:73:ARG:HG2	19:AU:74:PRO:HD2	1.53	0.91
34:BA:1116:C:N3	34:BA:1184:G:N1	2.16	0.91
1:AA:1916:A:C5	34:BA:1409:C:H4'	2.05	0.91
34:BA:1454:G:C6	34:BA:1455:G:C6	2.58	0.91
34:BA:529:G:H1	45:BP:49:ASN:HB3	1.35	0.91
34:BA:600:C:OP1	41:BL:97:VAL:N	2.04	0.91
55:BC:16:U:C3'	55:BC:17:C:H5'	2.01	0.91
56:BE:1:G:N9	56:BE:72:C:N3	1.75	0.91
42:BM:127:LYS:HB2	56:BE:31:A:C5'	2.00	0.91
35:BF:160:ASP:HB3	35:BF:182:ILE:HG21	1.50	0.91
40:BK:125:MET:HG3	40:BK:126:ASP:H	1.35	0.91
46:BQ:8:GLU:CB	46:BQ:22:ILE:CG1	2.48	0.91
57:BZ:407:VAL:N	57:BZ:436:ARG:NH1	2.08	0.91
57:BZ:377:GLY:CA	57:BZ:582:PRO:CG	2.49	0.91
1:AA:1655:A:H4'	5:AE:113:PHE:O	1.69	0.91
1:AA:1809:A:H4'	1:AA:1809:A:OP1	1.66	0.91
1:AA:2311:A:H3'	1:AA:2312:U:H5	1.34	0.91
1:AA:621:A:N6	1:AA:622:G:N3	2.19	0.91
1:AA:869:G:H2'	1:AA:870:A:C5'	2.01	0.91
1:AA:897:C:O2'	1:AA:898:C:OP1	1.88	0.91
5:AE:133:LYS:HB3	5:AE:137:HIS:NE2	1.84	0.91
6:AF:164:ARG:HB2	6:AF:177:ALA:CB	2.01	0.91
6:AF:33:LEU:O	6:AF:36:VAL:HG12	1.71	0.91
7:AG:61:ALA:HB2	7:AG:67:LYS:CB	2.01	0.91
9:AK:78:TYR:HB3	9:AK:79:PRO:HD2	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:64:ARG:NH1	10:AL:77:ILE:HB	1.85	0.91
12:AN:134:ARG:NH2	12:AN:137:TYR:HD1	1.69	0.91
12:AN:23:GLY:H	12:AN:99:PRO:HG3	1.34	0.91
12:AN:75:THR:HG22	12:AN:77:LYS:HD2	1.50	0.91
10:AL:122:LEU:HA	15:AQ:74:ARG:NH1	1.85	0.91
21:AW:6:LYS:HG2	21:AW:7:ALA:N	1.86	0.91
34:BA:1521:G:H2'	34:BA:1522:U:H6	1.34	0.91
34:BA:449:C:N3	34:BA:450:G:H1'	1.86	0.91
34:BA:720:C:C5	34:BA:721:G:H2'	2.04	0.91
35:BF:118:LEU:HD21	35:BF:142:LEU:HB2	1.52	0.91
36:BG:108:ASN:HD22	36:BG:111:LEU:HD13	1.36	0.91
45:BP:83:VAL:HG23	45:BP:104:VAL:HB	1.52	0.91
52:BW:9:VAL:HA	52:BW:41:VAL:HB	1.51	0.91
1:AA:1291:C:H5'	1:AA:1535:U:O2'	1.71	0.91
1:AA:637:A:C2	1:AA:651:G:H5''	2.05	0.91
1:AA:821:A:H2'	1:AA:946:G:C8	2.06	0.91
3:AC:44:HIS:CE1	3:AC:215:THR:H	1.82	0.91
7:AG:49:ASP:HA	7:AG:53:LEU:CD2	2.00	0.91
8:AH:105:LEU:HB2	8:AH:113:VAL:HG11	1.51	0.91
32:AJ:51:ALA:HA	32:AJ:76:TYR:HD2	1.34	0.91
9:AK:68:GLU:H	9:AK:70:LYS:HZ1	1.01	0.91
10:AL:15:GLY:CA	10:AL:52:VAL:HG21	2.01	0.91
16:AR:88:ILE:N	17:AS:52:VAL:HG22	1.86	0.91
17:AS:68:LYS:O	17:AS:69:LYS:HB2	1.71	0.91
18:AT:5:ALA:HB3	18:AT:105:VAL:O	1.71	0.91
34:BA:186(D):C:H2'	34:BA:186(E):C:C6	2.05	0.91
34:BA:272:C:H2'	34:BA:273:A:H8	1.36	0.91
34:BA:777:A:H2'	34:BA:778:G:H8	1.36	0.91
34:BA:961:U:O2'	34:BA:962:C:H5'	1.70	0.91
56:BE:4:C:C5	56:BE:6:G:N7	2.34	0.91
34:BA:275:G:H5'	50:BU:14:LYS:NZ	1.86	0.91
57:BZ:240:ILE:CG2	57:BZ:286:ASP:HA	2.01	0.91
57:BZ:55:THR:HG1	57:BZ:254:VAL:HG11	1.11	0.91
57:BZ:48:LEU:HD23	57:BZ:50:LYS:HG3	1.51	0.91
37:BH:191:ARG:HD3	37:BH:192:GLU:N	1.86	0.91
1:AA:1059:G:O2'	32:AJ:73:PRO:C	2.08	0.91
1:AA:1075:C:H1'	32:AJ:90:LYS:HD3	0.91	0.91
1:AA:1617:C:H4'	1:AA:1617:C:OP2	1.69	0.91
1:AA:1646:C:C3'	1:AA:1647:G:H5'	2.01	0.91
1:AA:961:C:N4	1:AA:2031:A:N3	2.19	0.91
1:AA:2581:G:H1	1:AA:2610:C:C2'	1.83	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2522:U:O2'	1:AA:2647:U:OP1	1.88	0.91
1:AA:653:A:N6	1:AA:655:A:H1'	1.84	0.91
1:AA:673:C:H2'	1:AA:674:G:H5'	1.53	0.91
4:AD:117:VAL:HG13	4:AD:129:ASN:OD1	1.71	0.91
4:AD:155:LEU:HG	4:AD:157:ARG:NE	1.85	0.91
5:AE:105:THR:CB	5:AE:166:THR:HB	1.99	0.91
7:AG:75:LYS:HB3	7:AG:84:LYS:H	1.35	0.91
1:AA:672:C:H3'	11:AM:38:GLN:HE22	1.35	0.91
13:AO:103:ARG:HB2	13:AO:108:GLY:C	1.90	0.91
14:AP:3:ARG:CG	14:AP:4:LEU:H	1.80	0.91
15:AQ:91:ARG:O	15:AQ:93:ARG:NH2	2.04	0.91
34:BA:1180:A:H2'	34:BA:1181:G:H5'	1.51	0.91
34:BA:1245:A:H2'	34:BA:1246:C:C6	2.06	0.91
34:BA:1317:C:C2	34:BA:1318:A:O4'	2.24	0.91
34:BA:827:U:H4'	41:BL:19:VAL:HG21	1.51	0.91
52:BW:3:ARG:O	52:BW:42:PRO:HD3	1.70	0.91
34:BA:1459:C:OP2	53:BX:31:SER:HB2	1.70	0.91
57:BZ:309:MET:HA	57:BZ:383:SER:HG	0.88	0.91
57:BZ:11:ILE:HD11	57:BZ:95:VAL:HB	1.49	0.91
57:BZ:37:GLU:HA	57:BZ:39:GLN:HB3	1.50	0.91
1:AA:2425:A:OP2	1:AA:2427:C:H5''	1.71	0.91
1:AA:2553:G:H21	1:AA:2554:U:H1'	1.24	0.91
1:AA:390:A:H5''	1:AA:391:G:OP1	1.70	0.91
1:AA:68:G:H2'	1:AA:69:C:H6	1.34	0.91
5:AE:119:ARG:CZ	5:AE:155:LYS:HB3	2.00	0.91
5:AE:117:MET:CG	5:AE:136:ARG:HE	1.84	0.91
5:AE:50:GLY:H	5:AE:76:ARG:HG3	1.34	0.91
1:AA:1059:G:H22	32:AJ:130:SER:HA	1.15	0.91
9:AK:34:LEU:C	9:AK:49:GLY:HA2	1.90	0.91
13:AO:41:ALA:HB1	13:AO:97:VAL:HG13	1.51	0.91
17:AS:15:GLU:HA	17:AS:100:ARG:HH12	1.33	0.91
21:AW:104:PHE:HZ	21:AW:120:ILE:HG22	1.32	0.91
34:BA:1317:C:C2	34:BA:1318:A:C1'	2.53	0.91
34:BA:1459:C:P	53:BX:31:SER:CB	2.59	0.91
34:BA:764:C:H2'	34:BA:765:G:N7	1.84	0.91
34:BA:974:A:OP2	47:BR:31:ARG:HG2	1.70	0.91
35:BF:48:MET:SD	35:BF:48:MET:N	2.44	0.91
37:BH:91:SER:HA	37:BH:94:LEU:HD12	1.53	0.91
41:BL:104:ARG:HG2	41:BL:104:ARG:HH11	1.36	0.91
34:BA:1228:C:OP1	46:BQ:115:LYS:HB3	1.70	0.91
46:BQ:10:PRO:CA	46:BQ:45:VAL:HG11	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:400:TYR:HE1	57:BZ:444:PRO:N	1.65	0.91
57:BZ:502:PHE:CE2	57:BZ:555:VAL:CG1	2.53	0.91
57:BZ:491:ASN:CG	57:BZ:536:ASN:CB	2.18	0.91
1:AA:1005:C:H2'	1:AA:1006:C:H6	1.34	0.90
1:AA:1677:A:H2'	1:AA:1678:G:H8	1.21	0.90
1:AA:1697:G:C8	1:AA:1698:A:H5''	2.06	0.90
1:AA:2341:G:H2'	1:AA:2342:C:C6	2.06	0.90
1:AA:2574:G:H1'	5:AE:143:ASN:HD22	1.33	0.90
1:AA:594:U:H2'	1:AA:595:C:C5	2.06	0.90
5:AE:4:ILE:HD11	5:AE:76:ARG:CZ	2.01	0.90
5:AE:80:GLU:HG2	5:AE:83:ASP:OD2	1.70	0.90
8:AH:24:VAL:HG23	8:AH:35:VAL:HG23	1.50	0.90
9:AK:34:LEU:HA	9:AK:49:GLY:O	1.71	0.90
9:AK:54:VAL:HG12	9:AK:122:VAL:HB	1.52	0.90
14:AP:51:ALA:HB1	14:AP:73:LEU:HG	1.51	0.90
20:AV:12:THR:HA	20:AV:73:ARG:HD2	1.52	0.90
20:AV:74:PRO:HB3	20:AV:101:LYS:C	1.90	0.90
34:BA:1229:A:H2'	34:BA:1230:C:H6	1.33	0.90
34:BA:1311:G:N3	34:BA:1327:C:C1'	2.35	0.90
36:BG:11:ARG:HD3	36:BG:15:THR:HG23	1.53	0.90
38:BI:23:GLY:HA3	38:BI:25:ARG:NH1	1.86	0.90
38:BI:48:ALA:HB1	38:BI:53:LEU:HB3	1.51	0.90
46:BQ:86:CYS:C	52:BW:73:GLU:O	2.08	0.90
51:BV:74:ARG:HA	51:BV:79:LEU:CD1	2.01	0.90
53:BX:73:HIS:H	53:BX:76:ALA:HB3	1.36	0.90
54:BY:14:TRP:HZ3	54:BY:15:ARG:CZ	1.83	0.90
57:BZ:310:PHE:O	57:BZ:384:ARG:N	2.04	0.90
56:BD:4:C:C2'	56:BD:5:G:H5'	2.01	0.90
57:BZ:496:ALA:HB3	57:BZ:514:HIS:HA	1.53	0.90
31:AI:97:ALA:HB2	31:AI:132:ASP:O	1.71	0.90
1:AA:1142:U:H3'	1:AA:1142(A):A:N7	1.86	0.90
1:AA:2128:C:H5''	3:AC:35:ALA:HB1	1.51	0.90
1:AA:2881:C:H2'	1:AA:2882:A:H8	1.35	0.90
1:AA:510:C:P	1:AA:512:G:H1	1.93	0.90
1:AA:979:G:H3'	1:AA:980:A:C5'	1.99	0.90
1:AA:2124:G:N7	3:AC:217:THR:CA	2.31	0.90
6:AF:70:THR:C	6:AF:72:ARG:H	1.70	0.90
7:AG:57:ALA:HA	7:AG:68:PRO:HD2	1.53	0.90
14:AP:49:VAL:HG13	14:AP:76:LYS:HE3	1.50	0.90
18:AT:33:ARG:HE	18:AT:33:ARG:HA	1.35	0.90
34:BA:697:U:H2'	34:BA:698:G:C8	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BE:21:A:C2'	56:BE:22:G:O4'	2.19	0.90
35:BF:69:LEU:HD13	35:BF:92:TYR:HA	1.53	0.90
37:BH:100:ARG:NH2	37:BH:137:SER:HA	1.86	0.90
38:BI:9:LYS:HB2	38:BI:33:VAL:HB	1.51	0.90
46:BQ:14:ARG:HD3	46:BQ:41:PRO:CB	1.98	0.90
47:BR:58:LYS:HD3	47:BR:59:ALA:H	1.33	0.90
57:BZ:310:PHE:N	57:BZ:385:PRO:CD	2.11	0.90
57:BZ:380:LEU:CD1	57:BZ:580:VAL:HG21	2.00	0.90
57:BZ:547:ARG:HH11	57:BZ:548:ALA:HB1	1.35	0.90
46:BQ:48:LEU:CD1	46:BQ:53:VAL:HG22	2.01	0.90
1:AA:1068:G:H1'	1:AA:1096:A:H4'	1.54	0.90
1:AA:1198:U:H2'	1:AA:1199:U:C5	2.07	0.90
1:AA:1863:G:H2'	1:AA:1864:U:C6	2.06	0.90
1:AA:46:C:OP2	1:AA:215:G:H3'	1.71	0.90
1:AA:2332:U:H4'	1:AA:2336:A:N6	1.85	0.90
1:AA:2408:U:O5'	1:AA:2408:U:H6	1.52	0.90
1:AA:2670:A:C2	1:AA:2671:A:C5	2.60	0.90
1:AA:270(I):G:C2	1:AA:270(J):G:H1'	2.07	0.90
1:AA:728:G:HO2'	1:AA:729:G:H8	0.98	0.90
1:AA:917:A:C2'	1:AA:918:A:H5''	2.01	0.90
1:AA:2174:C:C2	3:AC:219:GLY:HA2	2.05	0.90
4:AD:11:PRO:HB2	4:AD:24:ILE:HB	1.53	0.90
5:AE:36:ARG:HD2	5:AE:41:LYS:NZ	1.86	0.90
9:AK:73:THR:HB	9:AK:75:TYR:HE1	1.36	0.90
13:AO:77:ARG:HH11	13:AO:77:ARG:CB	1.84	0.90
14:AP:99:LYS:O	14:AP:102:ALA:HB3	1.69	0.90
14:AP:62:LYS:C	14:AP:64:GLU:N	2.21	0.90
17:AS:69:LYS:HG2	17:AS:70:ILE:HG13	1.52	0.90
34:BA:1135:U:H4'	34:BA:1136:U:H5	1.33	0.90
34:BA:1404:C:O2'	34:BA:1499:A:H2	1.31	0.90
55:BC:16:U:N3	55:BC:19:G:OP2	2.04	0.90
37:BH:143:GLY:HA2	37:BH:185:PHE:HB3	1.50	0.90
37:BH:59:ARG:HA	37:BH:59:ARG:HH11	1.36	0.90
39:BJ:33:TYR:CG	39:BJ:75:LEU:HG	2.06	0.90
39:BJ:76:ALA:HB3	39:BJ:80:ARG:HH22	1.35	0.90
40:BK:69:VAL:HG21	40:BK:104:LEU:CD2	1.99	0.90
41:BL:70:GLN:NE2	41:BL:72:PRO:HD2	1.85	0.90
48:BS:36:ILE:HD11	48:BS:60:VAL:HG13	1.52	0.90
52:BW:45:VAL:HG22	52:BW:67:VAL:HG21	1.53	0.90
57:BZ:422:ARG:NH1	57:BZ:480:VAL:CG2	2.15	0.90
31:AI:51:LEU:CB	31:AI:90:ALA:HB3	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1075:C:H1'	32:AJ:90:LYS:HD2	1.53	0.90
1:AA:1081:U:H4'	32:AJ:125:ARG:CB	2.00	0.90
1:AA:1762:A:H8	1:AA:1762:A:H3'	1.31	0.90
1:AA:2117:A:N6	1:AA:2171:A:N1	2.19	0.90
1:AA:2225:A:H5'	1:AA:2226:C:O4'	1.70	0.90
1:AA:2305:A:H2'	1:AA:2306:C:H5''	1.51	0.90
1:AA:2893:G:O5'	1:AA:2894:G:OP1	1.89	0.90
1:AA:450:G:H5'	6:AF:52:LYS:HD3	1.50	0.90
1:AA:739:G:O3'	1:AA:1784:A:N1	2.04	0.90
1:AA:880:G:C6	1:AA:897:C:O2'	2.15	0.90
3:AC:77:ILE:HG21	3:AC:123:VAL:HG22	1.50	0.90
3:AC:38:ASP:OD2	3:AC:178:ALA:HB3	1.71	0.90
4:AD:37:LEU:CD2	4:AD:64:ILE:HG22	2.01	0.90
5:AE:198:VAL:HG12	5:AE:200:GLU:OE2	1.71	0.90
5:AE:91:VAL:HG22	5:AE:93:VAL:H	1.37	0.90
32:AJ:90:LYS:HB3	32:AJ:91:PRO:CD	2.02	0.90
9:AK:3:THR:O	9:AK:4:TYR:HB2	1.69	0.90
12:AN:71:ASP:OD2	12:AN:95:ALA:HA	1.71	0.90
22:AX:46:LYS:HG2	22:AX:77:ARG:O	1.72	0.90
34:BA:1412:C:N3	34:BA:1489:G:N1	2.17	0.90
34:BA:363:A:OP2	45:BP:34:ARG:HB3	1.71	0.90
34:BA:468:A:H4'	49:BT:82:GLN:HB3	1.53	0.90
34:BA:787:A:H2'	34:BA:788:U:H5'	1.54	0.90
34:BA:911:U:H2'	34:BA:912:C:C6	2.06	0.90
35:BF:102:LEU:HD22	35:BF:176:GLU:HB3	1.51	0.90
46:BQ:37:THR:HG23	46:BQ:39:ILE:HG12	1.50	0.90
57:BZ:207:MET:HE1	57:BZ:209:ILE:HA	1.52	0.90
57:BZ:9:ALA:HB2	57:BZ:73:VAL:HG22	0.91	0.90
57:BZ:21:LEU:CD2	57:BZ:98:VAL:HG21	2.00	0.90
31:AI:54:ALA:CB	31:AI:84:GLU:CA	2.39	0.90
1:AA:1339:G:H5'	19:AU:16:LYS:HD3	1.54	0.90
1:AA:1864:U:H2'	1:AA:1869:G:H5'	1.50	0.90
1:AA:1903:G:H2'	1:AA:1904:G:H8	1.25	0.90
1:AA:1935:G:H1	1:AA:1962:C:H2'	1.36	0.90
1:AA:1981:A:H5''	1:AA:1982:C:OP2	1.71	0.90
1:AA:2151:G:O3'	3:AC:2:LYS:O	1.90	0.90
1:AA:2524:G:H5'	1:AA:2764:A:O2'	1.69	0.90
1:AA:2556:C:H2'	1:AA:2557:G:O4'	1.71	0.90
1:AA:2602:A:O2'	1:AA:2603:G:OP2	1.90	0.90
1:AA:64:A:O2'	1:AA:65:C:H5'	1.72	0.90
6:AF:157:VAL:HG22	6:AF:194:MET:HB3	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:41:LEU:HB2	6:AF:44:ARG:HH11	1.36	0.90
6:AF:74:ARG:NH1	6:AF:75:HIS:HA	1.86	0.90
7:AG:57:ALA:HA	7:AG:68:PRO:N	1.87	0.90
32:AJ:33:ASN:CB	32:AJ:63:ARG:CB	2.49	0.90
32:AJ:74:ALA:O	32:AJ:78:ILE:HG13	1.72	0.90
15:AQ:68:TYR:CE2	15:AQ:70:VAL:HG22	2.05	0.90
1:AA:2848:G:C8	15:AQ:99:LEU:HD11	2.06	0.90
9:AK:4:TYR:CB	16:AR:64:ARG:HH12	1.84	0.90
17:AS:17:GLY:HA3	17:AS:19:LYS:HZ2	1.27	0.90
17:AS:62:LEU:HD11	17:AS:98:GLU:HG2	1.52	0.90
18:AT:16:LYS:CD	18:AT:16:LYS:H	1.84	0.90
1:AA:1325:G:H21	18:AT:86:LEU:HD13	1.35	0.90
21:AW:48:PHE:CZ	21:AW:86:VAL:HG11	2.05	0.90
59:AA:3003:8AN:O2P	22:AX:2:ALA:CB	2.20	0.90
22:AX:37:LEU:HG	22:AX:59:LEU:O	1.72	0.90
34:BA:508:C:HO2'	34:BA:509:A:H8	0.93	0.90
34:BA:571:U:H3'	34:BA:572:A:C5'	1.99	0.90
51:BV:74:ARG:HG3	51:BV:79:LEU:HD22	1.52	0.90
57:BZ:447:GLY:CA	57:BZ:480:VAL:HG21	2.02	0.90
57:BZ:73:VAL:HG21	57:BZ:88:VAL:CG2	2.02	0.90
23:AY:2:ARG:O	23:AY:5:LEU:HB2	1.70	0.90
1:AA:1312:U:H2'	1:AA:1313:U:C6	2.07	0.90
1:AA:1841:U:H2'	1:AA:1842:G:C8	2.06	0.90
1:AA:198:C:O2'	1:AA:199:A:H8	1.54	0.90
1:AA:2122:U:C2'	1:AA:2123:G:H5''	1.99	0.90
1:AA:2468:G:H22	1:AA:2481:G:H2'	1.37	0.90
1:AA:2636:U:H4'	5:AE:79:ARG:HH21	1.36	0.90
1:AA:265:A:H8	1:AA:265:A:C3'	1.84	0.90
1:AA:323:G:H5'	1:AA:324:A:OP1	1.71	0.90
1:AA:893:C:C5	1:AA:894:C:H5	1.89	0.90
1:AA:1820:U:C2	4:AD:202:LYS:HG2	2.07	0.90
6:AF:131:GLY:HA2	6:AF:138:GLU:CB	2.02	0.90
6:AF:4:VAL:O	6:AF:20:LEU:HD13	1.72	0.90
32:AJ:24:GLY:H	32:AJ:35:MET:HE2	0.73	0.90
12:AN:75:THR:HG23	12:AN:91:GLU:OE1	1.69	0.90
14:AP:89:ARG:HH11	14:AP:91:PRO:HA	1.34	0.90
34:BA:707:C:O2'	34:BA:708:C:H5'	1.72	0.90
34:BA:857:C:H2'	34:BA:858:G:O4'	1.71	0.90
56:BE:1:G:C1'	56:BE:72:C:O2	2.18	0.90
46:BQ:85:GLY:O	52:BW:74:PHE:CA	2.19	0.90
53:BX:85:MET:HB2	53:BX:104:LEU:HD21	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:250:LYS:N	57:BZ:275:ALA:HB3	1.81	0.90
57:BZ:81:PHE:HB3	57:BZ:365:HIS:NE2	1.86	0.90
31:AI:54:ALA:N	31:AI:85:ASP:HA	1.86	0.90
1:AA:888:C:H1'	1:AA:889:C:C2	2.06	0.90
1:AA:988:A:H4'	1:AA:1155:A:H2	1.35	0.90
1:AA:1344:G:H4'	1:AA:1384:A:N1	1.86	0.90
1:AA:1775:U:O2'	1:AA:1776:G:H5'	1.72	0.90
1:AA:234:C:H42	1:AA:430:G:N2	1.69	0.90
1:AA:2630:G:N3	1:AA:2894:G:N7	2.19	0.90
1:AA:2651:C:H2'	1:AA:2652:C:H5''	1.53	0.90
1:AA:2754:U:H2'	1:AA:2755:C:H5''	1.51	0.90
1:AA:789:A:H4'	1:AA:790:C:OP1	1.69	0.90
1:AA:997:G:H5''	16:AR:92:ARG:HH11	1.37	0.90
3:AC:156:ILE:HA	3:AC:160:ARG:HB2	0.90	0.90
3:AC:162:GLU:C	3:AC:163:PHE:HD2	1.74	0.90
4:AD:183:ARG:CG	4:AD:268:ARG:HB2	2.01	0.90
8:AH:8:PRO:HB3	8:AH:51:ARG:HH12	1.36	0.90
11:AM:23:PRO:CB	11:AM:29:LYS:H	1.84	0.90
11:AM:93:GLY:HA2	11:AM:112:LEU:CD1	2.01	0.90
13:AO:57:ARG:HE	13:AO:62:ALA:HB2	1.35	0.90
14:AP:62:LYS:HD2	14:AP:64:GLU:CB	2.01	0.90
34:BA:1198:G:H2'	34:BA:1199:U:O4'	1.72	0.90
34:BA:1348:U:H4'	42:BM:120:ARG:NH1	1.85	0.90
34:BA:1454:G:H2'	34:BA:1455:G:N7	1.86	0.90
34:BA:346:G:H2'	34:BA:347:G:O4'	1.72	0.90
44:BO:82:VAL:HB	44:BO:108:ILE:HG12	1.53	0.90
53:BX:13:LEU:HB2	53:BX:17:ARG:HH21	1.33	0.90
57:BZ:15:ASP:OD2	57:BZ:16:HIS:CD2	2.25	0.90
57:BZ:377:GLY:HA2	57:BZ:582:PRO:CB	2.02	0.90
57:BZ:564:THR:HG22	57:BZ:566:GLU:CG	2.02	0.90
57:BZ:6:ARG:HB3	57:BZ:69:ARG:O	1.71	0.90
1:AA:1019:U:OP1	1:AA:1036:G:C1'	2.19	0.90
1:AA:1048:A:C2	1:AA:1113:U:O4'	2.25	0.90
1:AA:1624:G:C2	1:AA:1625:C:N4	2.39	0.90
1:AA:1908:C:H2'	1:AA:1909:C:C6	2.06	0.90
1:AA:2320:A:H5'	1:AA:2321:G:C5	2.06	0.90
1:AA:2731:G:H4'	5:AE:168:MET:SD	2.12	0.90
1:AA:468:G:H2'	1:AA:469:G:O4'	1.72	0.90
1:AA:549:G:H2'	1:AA:550:G:C8	2.06	0.90
1:AA:877:U:O2'	1:AA:899:A:N1	1.92	0.90
1:AA:953:A:C2'	1:AA:954:G:H5'	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:89(A):A:H2'	2:AB:90:C:C5'	2.00	0.90
3:AC:97:GLU:HG2	3:AC:122:ALA:HB3	1.54	0.90
4:AD:120:GLY:O	4:AD:122:ASP:N	2.05	0.90
4:AD:246:PRO:CG	4:AD:250:TRP:HB3	2.02	0.90
5:AE:66:HIS:CD2	5:AE:71:GLY:H	1.89	0.90
6:AF:106:ARG:HG3	6:AF:107:LYS:N	1.87	0.90
6:AF:130:ALA:CB	6:AF:142:TRP:HB2	1.99	0.90
15:AQ:3:ARG:O	15:AQ:7:ILE:HG12	1.70	0.90
16:AR:28:ARG:HB2	16:AR:38:THR:HG21	1.52	0.90
34:BA:789:U:C6	34:BA:790:A:H5''	2.07	0.90
35:BF:82:ARG:N	35:BF:94:ASN:HD21	1.70	0.90
43:BN:50:ILE:CA	43:BN:60:ARG:HG3	2.00	0.90
45:BP:85:ILE:HG13	45:BP:87:GLY:H	1.36	0.90
46:BQ:8:GLU:HG3	46:BQ:22:ILE:HG12	1.32	0.90
47:BR:45:ARG:HB2	47:BR:45:ARG:NH1	1.85	0.90
49:BT:6:LEU:HD23	49:BT:17:TYR:HD2	1.37	0.90
51:BV:18:ARG:HH21	51:BV:21:LYS:HB2	1.36	0.90
53:BX:50:GLU:HG3	53:BX:54:LYS:HE3	1.51	0.90
57:BZ:322:GLU:OE1	57:BZ:581:THR:CB	2.20	0.90
57:BZ:69:ARG:HA	57:BZ:70:ILE:HB	1.53	0.90
57:BZ:502:PHE:HE1	57:BZ:557:LEU:HB3	1.37	0.90
56:BD:52:G:N7	56:BD:63:G:N2	2.19	0.90
1:AA:1034:G:C6	1:AA:1122:G:C6	2.59	0.90
1:AA:1423:G:H2'	1:AA:1424:G:H8	1.35	0.90
1:AA:1764:G:O2'	1:AA:1765:C:H5'	1.71	0.90
1:AA:1789:A:OP1	4:AD:222:ARG:HG2	1.71	0.90
1:AA:1910:G:N2	1:AA:1921:G:N9	2.20	0.90
1:AA:2152:G:H5'	3:AC:2:LYS:O	1.70	0.90
1:AA:2:G:C5	1:AA:2902:C:N4	2.40	0.90
1:AA:2506:U:C3'	59:AA:3002:8AN:HN3'	1.75	0.90
4:AD:211:ARG:O	4:AD:215:LEU:HD12	1.70	0.90
4:AD:246:PRO:HD2	4:AD:250:TRP:CB	2.01	0.90
8:AH:19:VAL:HG12	8:AH:24:VAL:HG12	1.51	0.90
8:AH:7:LEU:CB	8:AH:52:VAL:HG13	2.02	0.90
32:AJ:84:LEU:CD1	32:AJ:86:LYS:HE3	2.02	0.90
10:AL:112:MET:O	10:AL:115:VAL:HB	1.71	0.90
12:AN:39:PRO:HG3	12:AN:127:ILE:HG12	1.54	0.90
21:AW:57:ILE:HG12	21:AW:70:LEU:CB	2.01	0.90
34:BA:362:G:H8	45:BP:34:ARG:HH22	0.98	0.90
35:BF:75:LYS:HA	35:BF:75:LYS:HZ3	1.34	0.90
37:BH:100:ARG:HH22	37:BH:137:SER:HA	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:6:ILE:HG23	41:BL:7:ALA:N	1.86	0.90
47:BR:26:ARG:HB2	47:BR:43:CYS:HB2	1.54	0.90
50:BU:88:TYR:O	50:BU:92:ARG:HB2	1.71	0.90
53:BX:44:ALA:CB	53:BX:91:LEU:HD12	2.02	0.90
57:BZ:13:HIS:HB2	57:BZ:108:GLN:CG	2.01	0.90
57:BZ:81:PHE:HD1	57:BZ:365:HIS:HD2	1.19	0.90
57:BZ:6:ARG:C	57:BZ:69:ARG:HB3	1.92	0.90
57:BZ:575:ASP:HB3	57:BZ:590:ARG:CB	1.72	0.90
1:AA:976:C:C5'	1:AA:1156:A:H62	1.85	0.90
7:AG:8:LYS:NZ	7:AG:103:LEU:HG	1.87	0.90
7:AG:96:ARG:O	7:AG:99:MET:HB2	1.72	0.90
14:AP:62:LYS:HB3	14:AP:65:VAL:H	1.35	0.90
15:AQ:21:GLU:O	15:AQ:23:ARG:HD3	1.72	0.90
19:AU:62:LYS:O	19:AU:63:LYS:HB2	1.69	0.90
21:AW:152:ALA:HA	21:AW:155:LEU:CD1	2.01	0.90
34:BA:191(C):G:H2'	34:BA:191(D):U:C6	2.06	0.90
37:BH:125:HIS:HB3	37:BH:152:SER:HB2	1.52	0.90
39:BJ:23:LYS:HA	39:BJ:26:ILE:HD12	1.53	0.90
34:BA:599:C:C4'	41:BL:130:GLY:HA3	2.01	0.90
45:BP:117:ARG:HG3	45:BP:117:ARG:HH11	1.37	0.90
34:BA:1221:G:O3'	52:BW:53:ASN:O	1.60	0.90
57:BZ:251:VAL:HA	57:BZ:274:VAL:HG22	1.51	0.90
1:AA:1237:A:O2'	1:AA:1238:G:O4'	1.89	0.89
1:AA:1906:G:C8	1:AA:1929:G:C4	2.60	0.89
1:AA:2326:C:N3	1:AA:2389:G:N1	2.19	0.89
1:AA:636:G:H22	11:AM:75:ILE:CD1	1.83	0.89
1:AA:847:U:H3	1:AA:933:A:H2	1.13	0.89
7:AG:16:ARG:HD2	7:AG:20:ILE:HG13	1.54	0.89
32:AJ:14:ALA:CB	32:AJ:48:MET:O	2.20	0.89
9:AK:23:LEU:HD12	9:AK:63:THR:CG2	2.01	0.89
11:AM:76:LYS:HA	11:AM:101:VAL:HG11	1.52	0.89
11:AM:72:PRO:CB	11:AM:111:ARG:HB3	2.00	0.89
20:AV:95:LYS:HG3	20:AV:103:GLY:CA	2.02	0.89
22:AX:68:GLU:HB3	22:AX:80:HIS:O	1.70	0.89
34:BA:573:A:H2'	34:BA:574:A:C8	2.07	0.89
45:BP:84:LEU:CB	45:BP:104:VAL:HG11	2.02	0.89
46:BQ:15:VAL:HB	46:BQ:34:LEU:HD21	1.34	0.89
46:BQ:80:ARG:CB	52:BW:65:ASN:HD22	1.85	0.89
57:BZ:14:VAL:H	57:BZ:108:GLN:HG3	0.73	0.89
1:AA:1044:G:N3	1:AA:1046:A:N7	2.20	0.89
1:AA:1255:U:H5'	1:AA:1256:G:O5'	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1471:A:H62	1:AA:1519:G:N2	1.70	0.89
1:AA:1996:C:H5''	1:AA:1996:C:C6	2.08	0.89
1:AA:2051:A:H5''	1:AA:2578:G:H5''	1.52	0.89
1:AA:2059:A:N1	1:AA:2503:A:N7	2.19	0.89
1:AA:6:A:C2	1:AA:2897:U:H2'	2.08	0.89
1:AA:665:C:H2'	1:AA:666:G:H8	1.35	0.89
1:AA:902:C:H2'	1:AA:903:C:N3	1.87	0.89
1:AA:931:G:H8	1:AA:932:G:H1'	1.27	0.89
2:AB:116:G:C4	2:AB:117:G:H1'	2.07	0.89
3:AC:18:LYS:HG2	3:AC:20:TYR:H	1.38	0.89
1:AA:2670:A:C5'	5:AE:206:LYS:HZ3	1.80	0.89
1:AA:2786:U:O2	5:AE:61:ARG:HG3	1.72	0.89
5:AE:72:VAL:HG23	5:AE:74:PRO:HD3	1.53	0.89
7:AG:44:GLY:O	7:AG:47:LYS:HB3	1.71	0.89
12:AN:106:VAL:CG2	12:AN:107:ALA:H	1.83	0.89
18:AT:11:ARG:HB3	18:AT:11:ARG:NH2	1.88	0.89
21:AW:157:LEU:HD21	21:AW:161:VAL:HA	1.50	0.89
24:AZ:26:LEU:HB2	24:AZ:28:LEU:HD21	1.51	0.89
34:BA:108:G:H5''	34:BA:109:A:H5''	1.52	0.89
34:BA:828:A:H2'	34:BA:829:G:O4'	1.71	0.89
36:BG:108:ASN:ND2	36:BG:110:ASN:HB2	1.87	0.89
39:BJ:81:ILE:HG22	39:BJ:82:ARG:N	1.86	0.89
43:BN:68:HIS:HB3	43:BN:70:ARG:HH21	1.35	0.89
57:BZ:164:TYR:CA	57:BZ:172:ALA:O	2.18	0.89
57:BZ:170:GLY:C	57:BZ:179:MET:CG	2.40	0.89
1:AA:2472:G:OP1	57:BZ:529:ARG:HG2	1.73	0.89
1:AA:1180:C:H3'	1:AA:1180:C:OP2	1.71	0.89
1:AA:1443:G:C2	1:AA:1444:G:H1'	2.07	0.89
1:AA:1524:G:H2'	1:AA:1525:G:H8	1.37	0.89
1:AA:1667:G:H2'	1:AA:1667:G:N3	1.87	0.89
1:AA:1802:A:H2'	1:AA:1802:A:N3	1.87	0.89
1:AA:2176:A:C1'	3:AC:215:THR:HB	2.02	0.89
1:AA:2443:C:H2'	1:AA:2444:G:H8	1.36	0.89
1:AA:2064:C:H1'	1:AA:2450:A:H62	1.36	0.89
1:AA:1954:G:C2	1:AA:2551:C:H5''	2.08	0.89
1:AA:2700:C:H2'	1:AA:2701:C:H5''	1.51	0.89
1:AA:691:C:H1'	4:AD:45:ASN:HD21	1.37	0.89
4:AD:9:TYR:OH	4:AD:91:ARG:NH2	2.04	0.89
1:AA:2618:G:N3	5:AE:150:VAL:HG11	1.86	0.89
5:AE:44:TYR:HB3	5:AE:82:ARG:NH1	1.88	0.89
7:AG:76:SER:O	7:AG:83:ARG:HG3	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:59:LYS:HB2	10:AL:84:ALA:O	1.73	0.89
13:AO:55:ALA:HB2	13:AO:79:LEU:HD11	1.55	0.89
16:AR:97:ASP:C	16:AR:101:ARG:HE	1.75	0.89
16:AR:114:LYS:HG2	16:AR:115:ALA:N	1.86	0.89
18:AT:14:PRO:O	18:AT:17:VAL:HG22	1.73	0.89
21:AW:104:PHE:CZ	21:AW:120:ILE:HG22	2.08	0.89
22:AX:4:LYS:HZ1	56:BE:75:C:C2'	1.70	0.89
34:BA:1270:C:H1'	34:BA:1313:U:H4'	1.54	0.89
34:BA:1455:G:C2'	34:BA:1459:C:H5'	2.02	0.89
35:BF:118:LEU:HD13	35:BF:142:LEU:HD12	1.52	0.89
36:BG:40:ARG:HA	36:BG:43:LEU:HD13	1.55	0.89
39:BJ:76:ALA:HB1	39:BJ:80:ARG:NH1	1.86	0.89
40:BK:63:LYS:HA	40:BK:63:LYS:HE2	1.54	0.89
41:BL:14:ARG:HB3	41:BL:14:ARG:HH11	1.32	0.89
36:BG:30:ARG:HB3	47:BR:36:PHE:O	1.71	0.89
50:BU:75:ARG:HH22	50:BU:77:VAL:HG22	1.35	0.89
1:AA:1083:U:H1'	1:AA:1085:A:C6	2.07	0.89
1:AA:1186:G:H3'	1:AA:1187:G:C8	2.05	0.89
1:AA:2020:A:H2'	1:AA:2021:C:H5''	1.53	0.89
1:AA:365:C:H2'	1:AA:366:C:C6	2.06	0.89
1:AA:586:A:H5'	6:AF:89:VAL:CG2	2.03	0.89
1:AA:988:A:H3'	24:AZ:10:LYS:HZ1	1.35	0.89
7:AG:59:GLU:OE1	7:AG:152:LEU:HD22	1.72	0.89
8:AH:38:SER:H	8:AH:41:MET:HE2	1.35	0.89
8:AH:6:ARG:NH1	8:AH:6:ARG:HA	1.88	0.89
17:AS:11:GLN:NE2	17:AS:24:LYS:HZ3	1.70	0.89
17:AS:68:LYS:HG2	17:AS:95:LEU:HD21	1.52	0.89
18:AT:36:LEU:HD21	18:AT:47:VAL:HB	1.55	0.89
1:AA:64:A:N3	19:AU:66:LEU:HD22	1.87	0.89
21:AW:10:ARG:CZ	21:AW:36:LYS:H	1.86	0.89
19:AU:7:VAL:HG11	23:AY:31:ARG:HH22	1.37	0.89
34:BA:1312:G:C6	34:BA:1326:C:N4	2.40	0.89
34:BA:307:C:C4	34:BA:308:C:H5	1.89	0.89
34:BA:703:G:H4'	34:BA:704:A:O5'	1.70	0.89
34:BA:790:A:N6	34:BA:791:G:C2	2.40	0.89
56:BE:21:A:H2'	56:BE:22:G:C5'	2.02	0.89
40:BK:135:VAL:O	40:BK:138:LYS:HB3	1.71	0.89
41:BL:32:LYS:HG2	41:BL:33:GLU:H	1.37	0.89
34:BA:942:G:H21	42:BM:124:GLN:HE22	1.12	0.89
34:BA:1225:A:H4'	52:BW:78:ARG:HB3	1.51	0.89
57:BZ:240:ILE:CA	57:BZ:286:ASP:HB3	2.00	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:499:PHE:HB2	57:BZ:540:GLY:O	1.71	0.89
1:AA:1036:G:H5'	8:AH:59:ARG:HH22	1.37	0.89
1:AA:1375:C:H2'	1:AA:1376:C:H6	1.36	0.89
1:AA:1475:G:N2	1:AA:1477:A:H62	1.70	0.89
1:AA:1819:A:H1'	1:AA:1821:A:C2	2.07	0.89
1:AA:2329:G:H22	1:AA:2386:C:H42	1.20	0.89
1:AA:554:U:H2'	1:AA:556:G:N7	1.87	0.89
1:AA:751:A:H5'	18:AT:90:ARG:NH2	1.88	0.89
1:AA:848:G:H2'	1:AA:849:A:C8	2.08	0.89
4:AD:206:LEU:HD13	4:AD:206:LEU:N	1.87	0.89
5:AE:53:PRO:HG3	5:AE:75:VAL:HG22	1.54	0.89
6:AF:201:VAL:HG12	6:AF:205:ARG:HE	1.36	0.89
6:AF:5:ALA:C	6:AF:20:LEU:HD13	1.93	0.89
10:AL:77:ILE:HG23	15:AQ:75:ILE:HD12	1.54	0.89
14:AP:20:ARG:HH21	14:AP:20:ARG:CB	1.84	0.89
24:AZ:9:VAL:HG23	24:AZ:10:LYS:N	1.83	0.89
10:AL:116:SER:N	34:BA:345:C:O2	2.05	0.89
34:BA:414:A:H2'	34:BA:415:A:H8	1.37	0.89
35:BF:71:VAL:HG13	35:BF:93:VAL:O	1.71	0.89
36:BG:134:ILE:O	36:BG:138:VAL:HG23	1.71	0.89
38:BI:121:LYS:HZ2	38:BI:122:GLU:N	1.68	0.89
38:BI:121:LYS:NZ	38:BI:122:GLU:N	2.19	0.89
41:BL:83:ILE:HA	41:BL:137:VAL:HG22	1.54	0.89
41:BL:46:LYS:HZ2	41:BL:64:LYS:HA	1.34	0.89
48:BS:28:GLN:O	48:BS:32:LEU:HD23	1.72	0.89
48:BS:34:LEU:HG	48:BS:35:ARG:H	1.37	0.89
49:BT:39:TYR:CZ	49:BT:41:PRO:HG3	2.08	0.89
57:BZ:169:ASN:CG	57:BZ:182:ASP:OD1	2.03	0.89
1:AA:1080:C:O2'	1:AA:1081:U:O4'	1.89	0.89
1:AA:1072:C:C2'	1:AA:1093:G:C6	2.54	0.89
1:AA:1138:G:N2	1:AA:1139:G:H1'	1.86	0.89
1:AA:1454:U:H5'	1:AA:1455:G:OP2	1.72	0.89
1:AA:1614:A:N3	1:AA:1614:A:H3'	1.85	0.89
1:AA:1785:A:OP1	1:AA:1982:C:H5'	1.72	0.89
1:AA:1943:U:N1	1:AA:1945:G:H5''	1.87	0.89
1:AA:223:A:N1	1:AA:407:G:O2'	2.06	0.89
3:AC:116:THR:HA	3:AC:146:GLY:O	1.72	0.89
1:AA:2512:C:H5''	5:AE:120:TRP:CH2	2.07	0.89
5:AE:133:LYS:HB3	5:AE:137:HIS:CE1	2.08	0.89
7:AG:5:VAL:HG12	7:AG:9:ARG:NH2	1.87	0.89
7:AG:62:LEU:HD23	7:AG:143:GLU:CB	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2749:A:H4'	8:AH:62:LYS:HG3	1.53	0.89
9:AK:43:THR:HB	9:AK:44:PRO:HD2	0.91	0.89
10:AL:107:ARG:O	10:AL:109:LYS:HE2	1.72	0.89
11:AM:55:ARG:O	11:AM:56:SER:HB2	1.70	0.89
2:AB:51:G:H5'	14:AP:60:GLY:HA2	1.50	0.89
14:AP:13:ARG:HD3	14:AP:90:GLY:O	1.72	0.89
23:AY:23:LYS:O	23:AY:26:GLU:HB3	1.72	0.89
1:AA:852:G:H5'	24:AZ:45:GLY:HA3	1.54	0.89
34:BA:1126:U:OP1	34:BA:1280:A:H8	1.49	0.89
34:BA:587:G:H1'	34:BA:755:G:H22	1.29	0.89
34:BA:64:G:H4'	34:BA:65:U:C5'	2.02	0.89
56:BD:54:U:C2'	56:BD:55:U:H5'	2.02	0.89
35:BF:82:ARG:HD2	35:BF:92:TYR:OH	1.70	0.89
36:BG:83:ARG:HG3	36:BG:87:LEU:HD11	1.55	0.89
38:BI:102:ALA:HB2	38:BI:120:THR:HG22	1.54	0.89
40:BK:69:VAL:HG22	40:BK:135:VAL:CG2	2.00	0.89
41:BL:37:ARG:HD2	41:BL:38:ILE:HD13	1.55	0.89
46:BQ:36:LYS:CB	46:BQ:56:LEU:HD21	2.01	0.89
57:BZ:122:LYS:CG	57:BZ:158:LEU:O	2.21	0.89
57:BZ:310:PHE:O	57:BZ:383:SER:C	2.10	0.89
57:BZ:514:HIS:CD2	57:BZ:515:GLY:HA2	2.07	0.89
1:AA:1530:G:H2'	1:AA:1531:C:C6	2.06	0.89
1:AA:1788:C:C4	1:AA:1789:A:C8	2.60	0.89
1:AA:1824:G:H21	4:AD:253:GLN:HG2	1.38	0.89
1:AA:30:G:H2'	1:AA:31:C:O4'	1.72	0.89
1:AA:310:A:H2'	1:AA:312:G:N7	1.87	0.89
1:AA:350:U:H2'	1:AA:350:U:O2	1.72	0.89
1:AA:669:G:N3	1:AA:669:G:H2'	1.85	0.89
1:AA:70:G:H5''	1:AA:71:A:OP1	1.73	0.89
3:AC:65:PRO:HD2	3:AC:187:ASP:CG	1.92	0.89
3:AC:91:ALA:HB2	3:AC:153:ILE:HG21	1.53	0.89
1:AA:2227:A:C1'	4:AD:262:ARG:HD2	2.03	0.89
7:AG:110:ALA:HB1	7:AG:139:LEU:HG	1.55	0.89
7:AG:111:LEU:HB3	7:AG:112:PRO:CD	2.02	0.89
7:AG:58:GLN:O	7:AG:61:ALA:HB3	1.71	0.89
32:AJ:19:PRO:HG3	32:AJ:38:VAL:N	1.85	0.89
34:BA:164:U:H2'	34:BA:165:C:H5	1.38	0.89
34:BA:255:G:H4'	50:BU:16:GLN:O	1.71	0.89
34:BA:975:A:O2'	34:BA:976:G:OP2	1.91	0.89
37:BH:20:TYR:O	37:BH:22:LYS:N	2.05	0.89
38:BI:51:VAL:O	38:BI:55:VAL:HG23	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1329:A:P	46:BQ:29:ARG:HG2	2.12	0.89
52:BW:9:VAL:CG1	52:BW:41:VAL:HG23	2.02	0.89
57:BZ:207:MET:HB2	57:BZ:226:ILE:CD1	2.01	0.89
56:BD:72:C:N3	56:BD:73:A:H2	1.71	0.89
1:AA:1019:U:P	1:AA:1036:G:C1'	2.61	0.89
1:AA:1048:A:N1	1:AA:1113:U:H5'	1.88	0.89
1:AA:1637:A:H4'	1:AA:2711:A:O2'	0.71	0.89
1:AA:1725:G:N2	1:AA:1726:G:C1'	2.36	0.89
1:AA:450:G:H5''	1:AA:451:C:OP2	1.73	0.89
1:AA:70:G:H4'	1:AA:71:A:C5'	2.02	0.89
4:AD:156:ALA:O	4:AD:158:ALA:N	2.05	0.89
10:AL:64:ARG:HG3	10:AL:65:THR:H	1.34	0.89
11:AM:113:LYS:NZ	11:AM:115:LEU:HD12	1.88	0.89
12:AN:34:LEU:CB	12:AN:67:ARG:HH22	1.86	0.89
15:AQ:30:VAL:HG23	15:AQ:90:GLN:HA	1.54	0.89
16:AR:85:LYS:HD3	16:AR:116:ALA:O	1.72	0.89
23:AY:27:LEU:CA	23:AY:30:LEU:HG	2.01	0.89
34:BA:1028:C:H2'	34:BA:1028(A):C:C6	2.08	0.89
40:BK:29:LYS:HZ3	40:BK:102:ARG:HB2	1.35	0.89
34:BA:598:U:H4'	41:BL:94:TYR:HD2	1.37	0.89
46:BQ:16:ASP:O	46:BQ:30:ALA:CB	2.20	0.89
48:BS:75:PRO:HA	48:BS:78:TYR:HB3	1.53	0.89
49:BT:3:LYS:HE2	49:BT:24:ALA:HB2	1.52	0.89
34:BA:958:A:C1'	52:BW:55:LYS:HZ2	1.86	0.89
53:BX:12:ALA:N	53:BX:13:LEU:HD12	1.86	0.89
57:BZ:220:VAL:HG23	57:BZ:279:LEU:HB2	1.54	0.89
57:BZ:426:LEU:HD12	57:BZ:441:TYR:CD1	2.06	0.89
57:BZ:382:VAL:CG2	57:BZ:578:VAL:CB	2.50	0.89
1:AA:2103:C:H2'	1:AA:2104:G:C8	2.08	0.89
1:AA:1931:U:C6	1:AA:1932:A:N7	2.41	0.89
1:AA:2028:U:H2'	1:AA:2029:G:C8	2.07	0.89
1:AA:2329:G:N2	1:AA:2386:C:H42	1.69	0.89
1:AA:2564:A:OP1	1:AA:2648:C:O2'	1.89	0.89
1:AA:2597:G:C4'	4:AD:242:ARG:HE	1.85	0.89
1:AA:2681:C:N4	1:AA:2725:A:H62	1.71	0.89
1:AA:640:C:C2'	1:AA:641:C:H5''	2.01	0.89
1:AA:792:G:N2	1:AA:2072:G:H1'	1.88	0.89
3:AC:43:VAL:HG21	3:AC:224:ILE:HD13	0.89	0.89
1:AA:1817:G:P	4:AD:88:ARG:HH12	1.96	0.89
8:AH:45:VAL:HG22	8:AH:50:VAL:HG13	1.55	0.89
8:AH:43:VAL:CG2	8:AH:52:VAL:HA	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:104:VAL:HG12	32:AJ:127:ILE:CG1	1.88	0.89
1:AA:557:U:O2'	9:AK:112:LEU:HD11	1.73	0.89
12:AN:33:GLY:O	12:AN:131:ILE:HG23	1.73	0.89
12:AN:43:THR:HA	12:AN:94:VAL:HG11	1.52	0.89
16:AR:67:ALA:HB1	16:AR:71:GLN:HE22	1.37	0.89
17:AS:49:THR:HG22	17:AS:50:PRO:HD2	1.53	0.89
17:AS:41:GLY:HA2	17:AS:51:VAL:HG22	1.55	0.89
1:AA:95:G:H4'	23:AY:39:LEU:O	1.73	0.89
34:BA:279:A:H1'	34:BA:281:G:C2	2.08	0.89
34:BA:692:U:O2	34:BA:694:A:H3'	1.72	0.89
34:BA:942:G:H21	42:BM:124:GLN:NE2	1.71	0.89
35:BF:139:LYS:HG3	35:BF:140:HIS:N	1.87	0.89
35:BF:80:ILE:HD12	35:BF:208:ILE:HG12	1.53	0.89
38:BI:94:ALA:HB1	38:BI:98:THR:HG21	1.52	0.89
43:BN:50:ILE:HB	47:BR:41:ARG:NE	1.88	0.89
1:AA:1179:C:O2'	1:AA:1180:C:H6	1.56	0.89
1:AA:1265:A:H1'	1:AA:1267:U:C4	2.08	0.89
1:AA:2659:G:C2'	1:AA:2663:G:H22	1.85	0.89
2:AB:51:G:H2'	2:AB:52:A:O5'	1.72	0.89
3:AC:76:ALA:HB2	3:AC:153:ILE:CD1	2.01	0.89
4:AD:177:LEU:HD11	4:AD:268:ARG:NH2	1.87	0.89
4:AD:9:TYR:HH	4:AD:91:ARG:HH21	1.21	0.89
6:AF:121:GLY:HA3	6:AF:191:ARG:HE	1.37	0.89
7:AG:47:LYS:HB2	7:AG:53:LEU:HD11	1.52	0.89
32:AJ:78:ILE:CG2	32:AJ:127:ILE:HG12	2.02	0.89
11:AM:13:ASN:HD22	11:AM:14:LYS:N	1.71	0.89
12:AN:12:GLN:HE21	12:AN:13:GLN:HG2	1.33	0.89
12:AN:42:ILE:HD13	12:AN:43:THR:N	1.88	0.89
12:AN:45:GLN:O	12:AN:48:GLU:HG2	1.73	0.89
20:AV:2:ARG:HD2	20:AV:3:VAL:N	1.86	0.89
21:AW:175:VAL:HG22	21:AW:176:PRO:HD2	1.54	0.89
34:BA:1274:G:N2	34:BA:1275:A:H62	1.71	0.89
34:BA:1346:A:H4'	34:BA:1347:G:O5'	1.72	0.89
34:BA:1390:U:H2'	34:BA:1391:U:C6	2.08	0.89
34:BA:61:G:H2'	34:BA:62:U:C6	2.08	0.89
55:BC:57:G:H2'	55:BC:58:A:H5'	1.54	0.89
35:BF:61:LEU:HD11	35:BF:68:ILE:CD1	2.02	0.89
38:BI:144:THR:HG22	38:BI:146:ALA:N	1.88	0.89
46:BQ:78:ILE:CA	46:BQ:81:LEU:HD11	2.03	0.89
57:BZ:19:THR:HA	57:BZ:21:LEU:H	1.35	0.89
57:BZ:509:LYS:CE	57:BZ:561:ILE:HD13	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:6:G:O6	56:BD:67:C:N4	2.06	0.89
1:AA:1105:U:N3	1:AA:1107:G:C6	2.41	0.88
1:AA:1406:U:H2'	1:AA:1407:C:H6	1.37	0.88
1:AA:2314:C:H2'	1:AA:2315:G:H8	1.37	0.88
1:AA:2636:U:H4'	5:AE:79:ARG:HD3	1.55	0.88
1:AA:716:A:N3	48:BS:44:LYS:HE2	1.88	0.88
1:AA:818:G:O2'	1:AA:819:A:H5''	1.71	0.88
6:AF:110:LEU:CA	6:AF:183:VAL:HG22	2.03	0.88
7:AG:173:LEU:HD12	7:AG:176:LEU:HD12	1.55	0.88
32:AJ:52:ILE:CG1	32:AJ:76:TYR:CD1	2.55	0.88
12:AN:78:PRO:O	12:AN:79:LEU:HD23	1.73	0.88
19:AU:85:PRO:CG	19:AU:87:GLN:HG2	2.01	0.88
34:BA:1261:A:H61	34:BA:1274:G:C1'	1.85	0.88
35:BF:95:GLN:HG3	35:BF:148:TYR:CB	2.02	0.88
36:BG:38:ARG:HB2	36:BG:94:LEU:HD21	1.54	0.88
37:BH:11:LEU:HA	37:BH:14:ARG:HB3	1.53	0.88
41:BL:46:LYS:NZ	41:BL:64:LYS:HA	1.88	0.88
46:BQ:15:VAL:CB	46:BQ:34:LEU:HD21	1.77	0.88
57:BZ:226:ILE:HB	57:BZ:267:LEU:HA	1.55	0.88
31:AI:51:LEU:CB	31:AI:90:ALA:CB	2.50	0.88
1:AA:1081:U:C5'	32:AJ:125:ARG:CB	2.40	0.88
1:AA:1157:G:H3'	1:AA:1157:G:OP2	1.71	0.88
1:AA:1376:C:H2'	1:AA:1377:G:O4'	1.73	0.88
1:AA:1824:G:H2'	1:AA:1825:A:O4'	1.72	0.88
1:AA:1992:G:H1'	1:AA:1993:U:C5	2.07	0.88
1:AA:2405:G:H2'	1:AA:2411:A:H61	1.38	0.88
1:AA:392:C:H2'	1:AA:393:C:H6	1.38	0.88
4:AD:111:LEU:HB3	4:AD:115:GLN:HE22	1.37	0.88
4:AD:13:ARG:CZ	4:AD:19:ALA:HB1	2.03	0.88
17:AS:6:LYS:HE2	17:AS:10:LYS:O	1.73	0.88
22:AX:12:ASN:HA	22:AX:14:ARG:NH2	1.88	0.88
35:BF:130:ARG:HB3	35:BF:131:PRO:HD2	1.53	0.88
35:BF:135:GLN:C	35:BF:139:LYS:HZ2	1.76	0.88
37:BH:105:VAL:HG21	37:BH:121:VAL:CG2	2.03	0.88
39:BJ:26:ILE:O	39:BJ:30:LEU:HG	1.72	0.88
41:BL:51:VAL:HG21	41:BL:60:ARG:HH21	1.37	0.88
46:BQ:13:LYS:HB3	46:BQ:17:VAL:HB	1.55	0.88
46:BQ:10:PRO:C	46:BQ:45:VAL:CG1	2.41	0.88
34:BA:43:C:C5'	49:BT:12:LYS:HB3	2.01	0.88
51:BV:58:LEU:HD22	51:BV:62:GLU:HG3	1.56	0.88
31:AI:51:LEU:HA	31:AI:89:ALA:O	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:5:G:C5	56:BD:69:G:C4	2.61	0.88
1:AA:1585:C:H5''	1:AA:1586:A:OP1	1.74	0.88
1:AA:1206:G:H3'	1:AA:1206:G:C8	2.07	0.88
1:AA:182:A:H2'	1:AA:183:C:C6	2.09	0.88
1:AA:2305:A:H2'	7:AG:154:GLY:HA2	1.52	0.88
1:AA:2660:A:N7	1:AA:2661:G:C5	2.41	0.88
1:AA:2673:G:H2'	1:AA:2674:G:C8	2.08	0.88
1:AA:2781:A:C8	1:AA:2781:A:H3'	2.08	0.88
1:AA:2832:U:C1'	1:AA:2834:G:H21	1.86	0.88
1:AA:2852:G:H2'	1:AA:2853:C:C6	2.08	0.88
1:AA:292:C:H3'	1:AA:293:U:N3	1.89	0.88
1:AA:951:C:O2'	1:AA:952:G:H5'	1.73	0.88
4:AD:133:LEU:O	4:AD:136:ILE:HG13	1.72	0.88
4:AD:161:THR:HG23	4:AD:195:ALA:HB1	1.55	0.88
5:AE:195:LEU:HD13	5:AE:196:VAL:H	1.37	0.88
6:AF:66:PRO:O	6:AF:68:LYS:N	2.06	0.88
7:AG:118:ARG:CG	7:AG:119:GLY:H	1.87	0.88
32:AJ:98:ARG:NH2	32:AJ:101:TRP:CD1	2.41	0.88
9:AK:97:ARG:HA	9:AK:100:GLU:CG	2.03	0.88
13:AO:97:VAL:HA	13:AO:114:VAL:HG13	1.55	0.88
15:AQ:15:VAL:HG13	15:AQ:81:PRO:HB3	1.54	0.88
16:AR:89:GLU:HB3	17:AS:51:VAL:C	1.93	0.88
16:AR:93:LYS:N	17:AS:10:LYS:HZ2	1.69	0.88
21:AW:68:PRO:O	21:AW:90:VAL:HA	1.73	0.88
34:BA:1319:A:C4'	52:BW:70:LYS:NZ	2.07	0.88
36:BG:53:ALA:HB2	36:BG:115:LEU:HD21	1.56	0.88
36:BG:38:ARG:HB2	36:BG:94:LEU:HD11	1.52	0.88
57:BZ:512:LEU:CD2	57:BZ:518:VAL:CG1	2.51	0.88
57:BZ:4:LYS:O	57:BZ:68:TYR:CG	2.27	0.88
1:AA:883:G:H2'	1:AA:884:C:H5''	1.54	0.88
1:AA:1055:G:O6	1:AA:1056:G:N2	2.04	0.88
1:AA:1470:G:H21	1:AA:1522:G:H1	0.92	0.88
1:AA:1920:C:H6	58:AA:3001:NMY:HO4	1.17	0.88
1:AA:1910:G:C8	1:AA:1921:G:N2	2.41	0.88
1:AA:2253:G:N2	56:BE:75:C:H1'	1.87	0.88
1:AA:2331:G:O3'	22:AX:43:THR:HB	1.73	0.88
1:AA:2357:U:H2'	1:AA:2358:G:H5''	1.55	0.88
1:AA:2361:A:H3'	1:AA:2362:G:H8	1.36	0.88
1:AA:2244:U:H1'	1:AA:2434:A:C5	2.07	0.88
1:AA:2551:C:H2'	1:AA:2552:U:H6	1.39	0.88
1:AA:259:G:H2'	1:AA:260:G:C8	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:6:A:N6	1:AA:2897:U:C4	2.42	0.88
1:AA:728:G:C2	1:AA:762:U:H3'	2.06	0.88
1:AA:893:C:H2'	1:AA:894:C:C6	2.09	0.88
1:AA:914:C:H3'	1:AA:914:C:C6	2.09	0.88
3:AC:44:HIS:O	3:AC:213:TYR:CD1	1.93	0.88
1:AA:2637:U:C5'	5:AE:81:ILE:HD11	2.03	0.88
7:AG:116:ASP:HB3	7:AG:118:ARG:HH21	1.37	0.88
7:AG:7:LEU:HD22	7:AG:11:TYR:HE1	1.38	0.88
7:AG:41:GLN:HE22	7:AG:155:MET:CG	1.87	0.88
9:AK:67:LEU:H	9:AK:87:LEU:HD21	1.35	0.88
12:AN:137:TYR:OH	21:AW:124:ILE:HD11	1.73	0.88
16:AR:108:GLU:OE1	16:AR:109:LEU:HG	1.73	0.88
19:AU:64:LYS:O	19:AU:70:LEU:HG	1.72	0.88
34:BA:1455:G:H2'	34:BA:1459:C:H5'	1.56	0.88
34:BA:1509:C:O2'	34:BA:1510:U:H5'	1.73	0.88
34:BA:650:G:O2'	34:BA:651:C:H5'	1.74	0.88
56:BD:54:U:H2'	56:BD:55:U:H5'	1.54	0.88
56:BE:6:G:H3'	56:BE:7:A:C5'	2.04	0.88
35:BF:115:LEU:HD13	35:BF:145:LEU:HB3	1.56	0.88
35:BF:223:ILE:O	35:BF:226:ARG:HB3	1.74	0.88
37:BH:20:TYR:N	37:BH:33:MET:SD	2.47	0.88
38:BI:43:LEU:HD23	38:BI:44:GLY:N	1.88	0.88
41:BL:88:LYS:H	41:BL:88:LYS:HZ2	1.16	0.88
49:BT:23:ASP:OD2	49:BT:33:ILE:HD11	1.71	0.88
57:BZ:18:LYS:CB	60:BZ:701:GCP:PB	2.52	0.88
1:AA:1036:G:C2	1:AA:1120:G:N1	2.40	0.88
1:AA:1241:A:C2	1:AA:1241:A:H5''	2.08	0.88
1:AA:1996:C:O2'	5:AE:123:ALA:HB3	1.72	0.88
1:AA:2239:G:C3'	1:AA:2240:C:H5''	2.03	0.88
1:AA:2447:G:H8	1:AA:2500:U:C3'	1.73	0.88
1:AA:2468:G:H3'	1:AA:2476:A:C2	2.08	0.88
1:AA:197:A:N6	1:AA:248:G:N2	2.21	0.88
1:AA:2507:C:N1	59:AA:3002:8AN:C1'	2.19	0.88
1:AA:2809:A:H4'	1:AA:2811:G:N7	1.89	0.88
4:AD:17:THR:O	4:AD:19:ALA:N	2.07	0.88
10:AL:96:THR:HG22	10:AL:97:ARG:N	1.86	0.88
11:AM:107:LYS:HZ1	11:AM:110:TYR:HB3	1.36	0.88
12:AN:25:ASP:HB3	12:AN:102:VAL:HG12	1.54	0.88
12:AN:22:LYS:HD2	12:AN:99:PRO:CG	2.04	0.88
18:AT:69:LEU:HD12	18:AT:109:GLU:OE1	1.72	0.88
20:AV:82:PRO:CD	20:AV:97:ARG:H	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:151:HIS:HB3	21:AW:170:THR:N	1.89	0.88
21:AW:151:HIS:CB	21:AW:170:THR:H	1.86	0.88
21:AW:24:LEU:O	21:AW:39:VAL:CB	2.21	0.88
34:BA:1154:G:H2'	34:BA:1155:G:H8	1.38	0.88
34:BA:1499:A:C8	34:BA:1500:A:C8	2.61	0.88
34:BA:299:G:H2'	34:BA:300:A:N7	1.89	0.88
34:BA:7:G:N2	38:BI:121:LYS:HG3	1.88	0.88
42:BM:127:LYS:CG	56:BE:31:A:OP1	2.22	0.88
56:BE:2:C:C6	56:BE:70:G:C6	2.60	0.88
34:BA:1346:A:C2	40:BK:10:ARG:HD3	2.08	0.88
41:BL:45:ILE:HD11	41:BL:48:TYR:HB3	1.54	0.88
45:BP:54:LYS:HB3	45:BP:70:ILE:HB	1.54	0.88
52:BW:11:VAL:CG1	52:BW:15:LEU:HB2	2.03	0.88
57:BZ:220:VAL:HG21	57:BZ:279:LEU:HB3	1.49	0.88
57:BZ:400:TYR:CD1	57:BZ:444:PRO:N	2.42	0.88
1:AA:1064:C:H3'	1:AA:1065:U:C5	2.09	0.88
1:AA:1672:C:H3'	1:AA:1673:U:H5''	1.56	0.88
1:AA:2287:A:N7	1:AA:2289:G:C5	2.42	0.88
1:AA:2674:G:O2'	1:AA:2675:A:H5'	1.74	0.88
1:AA:2723:C:O2'	13:AO:2:ARG:HA	1.72	0.88
1:AA:370:G:C2	1:AA:424:G:N7	2.42	0.88
1:AA:612:G:N2	1:AA:617:G:O6	2.06	0.88
3:AC:33:ALA:O	3:AC:39:GLU:HB2	1.72	0.88
9:AK:127:ASP:H	9:AK:129:PRO:HD2	1.37	0.88
13:AO:97:VAL:HA	13:AO:114:VAL:HG22	1.55	0.88
16:AR:114:LYS:HG2	16:AR:115:ALA:H	1.39	0.88
18:AT:76:VAL:HG23	18:AT:103:ILE:HA	1.53	0.88
1:AA:748:G:H5'	18:AT:88:ARG:NH1	1.88	0.88
34:BA:1106:G:H2'	34:BA:1107:C:H6	1.30	0.88
34:BA:1238:A:H62	34:BA:1301:U:H3	1.21	0.88
34:BA:1440:C:O2	34:BA:1462:G:N2	2.06	0.88
34:BA:1461:G:H2'	34:BA:1462:G:C8	2.08	0.88
34:BA:27:G:N2	34:BA:557:G:H1'	1.89	0.88
34:BA:655:A:H2'	34:BA:656:C:C6	2.09	0.88
37:BH:13:ARG:HH21	37:BH:40:PRO:HA	1.39	0.88
46:BQ:37:THR:HA	46:BQ:56:LEU:HB2	1.53	0.88
52:BW:20:LEU:O	52:BW:22:LEU:N	2.05	0.88
57:BZ:499:PHE:CA	57:BZ:540:GLY:HA2	2.04	0.88
57:BZ:499:PHE:CB	57:BZ:540:GLY:O	2.22	0.88
37:BH:191:ARG:NH2	37:BH:194:LEU:O	2.07	0.88
18:AT:95:ILE:HD12	18:AT:95:ILE:H	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1492:G:N2	1:AA:1499:C:C4	2.41	0.88
1:AA:1971:A:N3	4:AD:240:ALA:N	2.21	0.88
1:AA:2207:C:H3'	1:AA:2208:U:H5''	1.56	0.88
1:AA:2629:A:H3'	1:AA:2895:U:C5	2.06	0.88
1:AA:2788:C:H4'	1:AA:2810:A:H5'	1.54	0.88
1:AA:7:G:N1	1:AA:2896:C:H2'	1.88	0.88
1:AA:853:G:H2'	1:AA:854:G:C8	2.09	0.88
1:AA:2746:U:H5'	8:AH:139:GLN:HA	1.54	0.88
1:AA:1046:A:C5	31:AI:9:LEU:O	2.27	0.88
11:AM:95:VAL:O	11:AM:97:PRO:HD2	1.74	0.88
13:AO:74:LYS:O	13:AO:78:LYS:HB2	1.74	0.88
13:AO:97:VAL:HG13	13:AO:114:VAL:HG21	1.56	0.88
15:AQ:34:VAL:HG11	15:AQ:78:LEU:HD11	1.56	0.88
20:AV:26:LYS:HB2	20:AV:38:ILE:HD11	1.55	0.88
20:AV:2:ARG:HH21	20:AV:4:LYS:HB2	1.37	0.88
20:AV:65:ALA:HB3	20:AV:66:PRO:HD3	1.55	0.88
21:AW:48:PHE:HD2	21:AW:54:HIS:HE2	1.21	0.88
34:BA:322:C:O2'	34:BA:323:U:H5'	1.73	0.88
35:BF:15:VAL:HG22	35:BF:209:ARG:NE	1.88	0.88
36:BG:156:ARG:HB3	36:BG:193:TYR:HD1	1.39	0.88
42:BM:26:VAL:O	42:BM:32:ASP:HA	1.73	0.88
43:BN:79:ARG:HH22	43:BN:82:ILE:HD12	1.37	0.88
57:BZ:17:GLY:HA2	60:BZ:701:GCP:O1A	1.73	0.88
57:BZ:495:LYS:CA	57:BZ:517:GLU:HA	2.04	0.88
1:AA:1443:G:N2	1:AA:1444:G:H1'	1.87	0.88
1:AA:2514:U:H2'	1:AA:2515:C:C6	2.08	0.88
1:AA:2755:C:HO2'	1:AA:2756:U:H6	0.88	0.88
1:AA:481:G:H1	1:AA:509:C:H42	1.21	0.88
1:AA:574:C:O2'	1:AA:575:A:OP2	1.91	0.88
1:AA:613:U:H5'	1:AA:614:U:C5	2.08	0.88
1:AA:775:G:H4'	1:AA:777:A:C4	2.09	0.88
1:AA:84:A:H5''	20:AV:8:LYS:HG3	1.56	0.88
3:AC:119:VAL:O	3:AC:123:VAL:HG23	1.74	0.88
3:AC:117:PRO:HD3	3:AC:146:GLY:C	1.93	0.88
5:AE:147:PRO:HG2	5:AE:149:ARG:CD	2.04	0.88
7:AG:47:LYS:CE	7:AG:73:ALA:HB3	2.04	0.88
32:AJ:72:PRO:CG	32:AJ:77:LEU:HD22	1.49	0.88
34:BA:1066:C:H3'	34:BA:1067:A:C8	2.08	0.88
34:BA:1101:A:H4'	34:BA:1102:A:O5'	1.73	0.88
34:BA:1413:A:H2	34:BA:1487:G:N2	1.43	0.88
34:BA:1455:G:OP1	53:BX:32:ALA:CA	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:866:C:H5	34:BA:867:G:H1'	1.39	0.88
35:BF:69:LEU:HB3	35:BF:162:ILE:HG22	1.56	0.88
35:BF:74:LYS:CE	35:BF:76:GLN:HB2	2.04	0.88
50:BU:59:ILE:HD12	50:BU:72:ARG:O	1.74	0.88
51:BV:73:ALA:O	51:BV:79:LEU:HD11	1.73	0.88
51:BV:70:ILE:HG22	51:BV:74:ARG:NE	1.89	0.88
57:BZ:11:ILE:CG2	57:BZ:112:VAL:CG1	2.42	0.88
57:BZ:579:GLU:OE1	57:BZ:586:ARG:NH2	2.07	0.88
1:AA:1153:C:C2	1:AA:1154:G:N7	2.42	0.88
1:AA:1657:C:H2'	1:AA:1658:C:H6	1.37	0.88
1:AA:1814:G:OP1	4:AD:43:ARG:HB2	1.73	0.88
1:AA:1996:C:H6	1:AA:1996:C:C5'	1.86	0.88
1:AA:28:A:H1'	1:AA:513:A:C2	2.09	0.88
1:AA:662:G:H4'	11:AM:18:ARG:N	1.87	0.88
1:AA:832:G:H2'	1:AA:833:U:C5	2.09	0.88
1:AA:966:G:C1'	1:AA:2267:A:N6	2.36	0.88
3:AC:157:LYS:CA	3:AC:159:GLY:N	2.37	0.88
6:AF:65:TRP:HE1	6:AF:73:ALA:HB3	1.35	0.88
8:AH:111:HIS:O	8:AH:113:VAL:HG23	1.73	0.88
8:AH:25:LYS:HZ3	8:AH:32:GLU:HB2	1.36	0.88
32:AJ:123:ALA:HA	32:AJ:127:ILE:CG1	2.03	0.88
9:AK:96:GLU:O	9:AK:100:GLU:HG2	1.73	0.88
9:AK:99:LEU:HD12	9:AK:100:GLU:N	1.89	0.88
9:AK:57:ALA:HB3	9:AK:124:ALA:HA	1.53	0.88
17:AS:18:LEU:HD23	17:AS:18:LEU:H	1.37	0.88
18:AT:25:ARG:HD3	18:AT:74:ALA:HB3	1.55	0.88
20:AV:28:LYS:N	20:AV:28:LYS:HE2	1.88	0.88
34:BA:1192:C:C6	34:BA:1192:C:H3'	2.09	0.88
34:BA:1315:U:O4'	34:BA:1361:G:H5'	1.73	0.88
34:BA:1310:G:N1	34:BA:1327:C:C6	1.92	0.88
34:BA:1338:G:H2'	34:BA:1339:A:C8	2.08	0.88
34:BA:1413:A:O2'	34:BA:1414:U:H5'	1.74	0.88
34:BA:1499:A:C2'	34:BA:1500:A:H5'	2.03	0.88
34:BA:901:A:C2	34:BA:902:G:C1'	2.57	0.88
38:BI:109:ILE:HD13	38:BI:135:THR:HB	1.53	0.88
38:BI:109:ILE:CG2	38:BI:135:THR:HG21	2.04	0.88
46:BQ:20:THR:CA	46:BQ:26:GLY:H	1.85	0.88
57:BZ:405:LEU:CG	57:BZ:463:GLY:CA	2.51	0.88
57:BZ:560:PRO:HA	57:BZ:561:ILE:CB	2.03	0.88
57:BZ:580:VAL:HG12	57:BZ:585:ILE:HG23	1.56	0.88
1:AA:1024:G:N2	1:AA:1139:G:N1	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1479:G:H2'	1:AA:1480:G:C8	2.09	0.88
1:AA:1479:G:H2'	1:AA:1480:G:H8	1.37	0.88
1:AA:2298:A:H2'	1:AA:2299:G:O4'	1.73	0.88
1:AA:2672:G:O2'	1:AA:2673:G:H5'	1.74	0.88
1:AA:6:A:N1	1:AA:2897:U:N3	2.22	0.88
1:AA:722:A:H2'	1:AA:723:G:H8	1.39	0.88
1:AA:943:U:O4'	1:AA:943:U:OP1	1.92	0.88
3:AC:71:GLN:HE21	3:AC:174:PRO:CD	1.87	0.88
1:AA:2787:C:O5'	5:AE:64:LYS:HD2	1.74	0.88
8:AH:125:VAL:HA	8:AH:131:VAL:CG2	2.04	0.88
32:AJ:72:PRO:CG	32:AJ:77:LEU:HD21	1.52	0.88
10:AL:79:PHE:HB2	15:AQ:73:GLU:CG	2.04	0.88
11:AM:81:GLN:HG2	11:AM:86:LYS:HE3	1.56	0.88
14:AP:3:ARG:HG2	14:AP:4:LEU:N	1.89	0.88
15:AQ:53:ARG:HH22	15:AQ:101:PHE:N	1.72	0.88
16:AR:93:LYS:HG2	17:AS:10:LYS:NZ	1.89	0.88
34:BA:1258:G:H2'	34:BA:1259:C:C6	2.09	0.88
34:BA:1309:G:C6	34:BA:1328:C:N4	2.42	0.88
34:BA:770:C:C1'	34:BA:900:A:H2	1.87	0.88
35:BF:97:TRP:HZ2	35:BF:102:LEU:HD13	1.38	0.88
40:BK:69:VAL:CG2	40:BK:104:LEU:HD11	2.04	0.88
40:BK:115:ARG:HB2	40:BK:118:VAL:CG2	2.04	0.88
42:BM:25:LYS:O	42:BM:61:ALA:HB3	1.73	0.88
34:BA:1329:A:O2'	46:BQ:70:LEU:HD13	1.72	0.88
50:BU:86:GLU:OE2	50:BU:89:LEU:HD12	1.74	0.88
44:BO:110:ASP:HB2	51:BV:88:LYS:HB2	1.56	0.88
53:BX:72:LEU:HD13	53:BX:77:ALA:HB2	1.54	0.88
57:BZ:2:ILE:HG21	57:BZ:267:LEU:HD23	1.53	0.88
1:AA:924:C:H2'	1:AA:925:C:H6	1.38	0.88
1:AA:1052:C:N3	1:AA:1108:U:O2	2.06	0.87
1:AA:1082:U:N3	1:AA:1086:A:C2	2.41	0.87
1:AA:1047:G:N3	1:AA:1110:G:H3'	1.89	0.87
1:AA:2346:A:H4'	1:AA:2383:G:H5''	1.56	0.87
1:AA:2581:G:N1	1:AA:2610:C:C6	2.42	0.87
1:AA:2583:G:H2'	1:AA:2584:U:C2	2.08	0.87
1:AA:2650:U:H2'	1:AA:2651:C:C6	2.09	0.87
1:AA:640:C:H2'	1:AA:641:C:H5''	1.55	0.87
2:AB:43:C:H6	2:AB:43:C:O5'	1.56	0.87
4:AD:234:GLY:H	4:AD:241:PRO:HG2	1.38	0.87
4:AD:252:TRP:H	4:AD:255:LYS:NZ	1.73	0.87
5:AE:36:ARG:HG3	5:AE:79:ARG:NH1	1.89	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:74:TYR:CZ	12:AN:94:VAL:HG22	2.09	0.87
20:AV:14:LEU:HD13	20:AV:20:TYR:C	1.95	0.87
23:AY:20:VAL:O	23:AY:24:LYS:HG3	1.73	0.87
34:BA:1048:G:H5''	47:BR:3:ARG:NH1	1.87	0.87
34:BA:1465:C:C2'	34:BA:1466:C:H5'	2.04	0.87
34:BA:1499:A:N7	34:BA:1500:A:N7	2.21	0.87
34:BA:66:G:H4'	34:BA:173:U:C5	2.10	0.87
41:BL:14:ARG:HA	41:BL:17:THR:OG1	1.72	0.87
45:BP:71:PRO:HD2	45:BP:100:ILE:HG12	1.56	0.87
49:BT:9:PHE:CZ	49:BT:18:ARG:HG3	2.09	0.87
57:BZ:239:ILE:HG12	57:BZ:244:GLY:CA	2.04	0.87
57:BZ:250:LYS:H	57:BZ:275:ALA:HB3	1.38	0.87
57:BZ:383:SER:H	57:BZ:384:ARG:HG2	1.35	0.87
57:BZ:402:ASN:CB	57:BZ:441:TYR:C	2.42	0.87
55:BC:6:G:H2'	55:BC:7:A:H5'	1.55	0.87
1:AA:1084:A:N7	1:AA:1085:A:C2	2.41	0.87
1:AA:1255:U:C5'	1:AA:1256:G:H5''	2.04	0.87
1:AA:1775:U:C6	4:AD:208:LYS:HD2	2.09	0.87
1:AA:1931:U:C5	1:AA:1932:A:N7	2.41	0.87
1:AA:1956:U:H2'	1:AA:1957:C:H6	1.32	0.87
1:AA:198:C:HO2'	1:AA:199:A:H8	0.91	0.87
1:AA:2175:C:N1	3:AC:219:GLY:C	2.17	0.87
3:AC:43:VAL:HG21	3:AC:189:ILE:CD1	2.04	0.87
4:AD:89:SER:OG	4:AD:158:ALA:HB1	1.71	0.87
6:AF:156:LEU:HD12	6:AF:167:ALA:CB	2.03	0.87
8:AH:155:SER:HB2	8:AH:158:HIS:O	1.73	0.87
15:AQ:39:ARG:HG3	15:AQ:42:ILE:HD12	1.56	0.87
15:AQ:51:ARG:C	15:AQ:66:VAL:HG12	1.95	0.87
17:AS:62:LEU:HB2	17:AS:64:HIS:CE1	2.10	0.87
20:AV:52:SER:HB3	20:AV:56:PRO:CB	2.03	0.87
21:AW:57:ILE:CG2	21:AW:58:VAL:N	2.37	0.87
34:BA:1158:C:C4	34:BA:1160:G:H1'	2.10	0.87
34:BA:1188:A:H5'	43:BN:61:GLU:OE2	1.73	0.87
34:BA:1309:G:N1	34:BA:1328:C:N4	2.22	0.87
34:BA:958:A:H1'	52:BW:55:LYS:HZ2	1.02	0.87
35:BF:115:LEU:HD23	35:BF:149:LEU:HD22	1.55	0.87
37:BH:31:CYS:SG	37:BH:31:CYS:O	2.32	0.87
38:BI:43:LEU:H	38:BI:65:ASN:ND2	1.72	0.87
38:BI:89:ILE:HG12	38:BI:131:ILE:CD1	2.03	0.87
46:BQ:14:ARG:HB3	46:BQ:41:PRO:C	1.79	0.87
57:BZ:395:ARG:CA	57:BZ:474:ASP:HB2	1.96	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:526:ILE:HG12	57:BZ:571:PHE:HZ	1.07	0.87
1:AA:1605:C:H2'	1:AA:1606:G:O4'	1.72	0.87
1:AA:1789:A:H3'	1:AA:1790:C:O4'	1.73	0.87
1:AA:2124:G:H5''	3:AC:71:GLN:NE2	1.88	0.87
1:AA:2161:C:H2'	1:AA:2162:G:C8	2.09	0.87
1:AA:2178:C:C3'	3:AC:46:LYS:HZ3	1.83	0.87
1:AA:2570:G:H5'	1:AA:2571:C:OP2	1.75	0.87
1:AA:2690:C:H3'	1:AA:2690:C:H6	1.37	0.87
1:AA:592:G:H5'	1:AA:593:G:OP2	1.73	0.87
1:AA:670:A:H2'	11:AM:41:ARG:CZ	2.04	0.87
2:AB:12:C:H5''	22:AX:74:ARG:HG2	1.56	0.87
3:AC:6:ARG:HD2	3:AC:6:ARG:C	1.95	0.87
5:AE:100:GLU:H	5:AE:172:VAL:CG2	1.86	0.87
7:AG:181:ARG:H	7:AG:181:ARG:HD2	1.38	0.87
7:AG:74:LYS:HD3	7:AG:87:PRO:HG3	1.53	0.87
8:AH:115:VAL:HG13	8:AH:116:GLU:H	1.35	0.87
32:AJ:33:ASN:CB	32:AJ:63:ARG:HB3	2.04	0.87
10:AL:10:VAL:H	10:AL:17:ARG:HG2	1.36	0.87
1:AA:670:A:H2'	11:AM:41:ARG:NH1	1.89	0.87
18:AT:13:SER:O	18:AT:17:VAL:HG13	1.73	0.87
18:AT:25:ARG:HH21	18:AT:74:ALA:H	0.88	0.87
19:AU:4:ALA:HB3	23:AY:21:ARG:HH12	1.39	0.87
23:AY:27:LEU:HD13	23:AY:52:ILE:HD11	1.56	0.87
34:BA:1308:U:OP2	46:BQ:99:ARG:N	2.07	0.87
34:BA:429:U:H4'	34:BA:430:A:O5'	1.70	0.87
34:BA:545:C:O2'	34:BA:546:G:H5'	1.74	0.87
41:BL:14:ARG:O	41:BL:17:THR:HB	1.73	0.87
41:BL:38:ILE:HG13	41:BL:118:VAL:CG1	2.03	0.87
45:BP:86:ARG:NH1	45:BP:119:LYS:HG3	1.88	0.87
48:BS:7:GLU:HA	48:BS:10:LYS:HD3	1.54	0.87
51:BV:68:LYS:O	51:BV:71:LYS:HB2	1.74	0.87
57:BZ:251:VAL:CG1	57:BZ:273:ILE:CA	1.84	0.87
57:BZ:562:ARG:CG	57:BZ:563:MET:HE2	2.03	0.87
56:BD:7:A:N1	56:BD:66:U:C2	2.42	0.87
57:BZ:258:LEU:HD22	57:BZ:260:LEU:HD13	1.54	0.87
1:AA:1069:A:H4'	1:AA:1070:A:C5'	2.04	0.87
1:AA:2075:U:H2'	1:AA:2076:U:H5''	1.57	0.87
1:AA:2206:C:H2'	1:AA:2207:C:C6	2.09	0.87
1:AA:2841:C:H2'	1:AA:2842:G:C8	2.09	0.87
1:AA:2900:A:H2'	1:AA:2901:C:C6	2.09	0.87
1:AA:612:G:H4'	1:AA:616:A:C6	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:728:G:N1	1:AA:762:U:H3'	1.88	0.87
1:AA:988:A:H62	24:AZ:13:ILE:CG1	1.86	0.87
3:AC:46:LYS:O	3:AC:210:ARG:HB2	1.75	0.87
4:AD:76:PRO:HA	4:AD:118:VAL:CG2	2.05	0.87
7:AG:47:LYS:HE2	7:AG:73:ALA:HB3	1.55	0.87
34:BA:1339:A:C2'	34:BA:1340:A:H5'	2.03	0.87
34:BA:1401:G:H2'	34:BA:1402:C:O4'	1.74	0.87
34:BA:1462:G:O2'	34:BA:1463:C:H5'	1.75	0.87
35:BF:213:LEU:HD22	35:BF:214:ILE:CD1	2.04	0.87
38:BI:147:ASP:HA	38:BI:150:ARG:HB2	1.56	0.87
57:BZ:164:TYR:CZ	57:BZ:175:ASP:OD2	2.01	0.87
57:BZ:509:LYS:CE	57:BZ:561:ILE:CD1	2.53	0.87
1:AA:1046:A:C1'	31:AI:11:ALA:HB2	2.05	0.87
1:AA:1063:G:C8	1:AA:1064:C:H5	1.92	0.87
1:AA:1790:C:H2'	1:AA:1791:A:N7	1.90	0.87
1:AA:1814:G:H2'	1:AA:1815:A:C8	2.09	0.87
1:AA:1954:G:O2'	1:AA:1955:U:H5'	1.74	0.87
1:AA:2244:U:H1'	1:AA:2434:A:C6	2.09	0.87
1:AA:2507:C:C5'	1:AA:2573:C:H41	1.87	0.87
1:AA:1782:C:H42	1:AA:2587:A:N6	1.73	0.87
1:AA:647:G:H2'	1:AA:648:G:C8	2.09	0.87
5:AE:66:HIS:ND1	5:AE:67:PHE:N	2.23	0.87
1:AA:606:U:OP1	6:AF:103:LYS:N	2.06	0.87
6:AF:36:VAL:HG11	6:AF:183:VAL:CB	2.04	0.87
7:AG:47:LYS:HD2	7:AG:49:ASP:OD2	1.74	0.87
32:AJ:72:PRO:CD	32:AJ:77:LEU:HG	2.04	0.87
9:AK:39:ARG:HB3	9:AK:48:MET:CG	2.05	0.87
10:AL:24:VAL:HG13	10:AL:30:ALA:HB1	1.56	0.87
11:AM:96:THR:HG21	11:AM:112:LEU:HD13	1.53	0.87
12:AN:101:ARG:HG3	12:AN:101:ARG:HH11	1.39	0.87
22:AX:68:GLU:OE2	22:AX:82:ARG:HB2	1.74	0.87
34:BA:105:G:H2'	34:BA:106:C:C6	2.08	0.87
34:BA:557:G:H3'	34:BA:558:G:C8	2.09	0.87
35:BF:146:GLN:NE2	35:BF:150:SER:HB2	1.89	0.87
37:BH:78:LEU:HD22	37:BH:96:LEU:HD13	1.56	0.87
41:BL:50:ARG:HG2	41:BL:50:ARG:HH11	1.39	0.87
44:BO:95:ILE:HA	44:BO:98:LEU:HG	1.54	0.87
46:BQ:14:ARG:HH21	46:BQ:42:ALA:CA	1.87	0.87
57:BZ:565:LEU:HD21	57:BZ:585:ILE:HG21	1.56	0.87
1:AA:1418:G:H1'	1:AA:1581:G:H21	1.38	0.87
19:AU:19:ALA:O	19:AU:22:ALA:HB3	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1081:U:H5	1:AA:1082:U:C4	1.92	0.87
1:AA:152:G:C2'	1:AA:153:C:C5'	2.53	0.87
1:AA:231:C:N4	1:AA:232:G:N2	2.21	0.87
1:AA:2667:C:H3'	1:AA:2668:G:C8	2.10	0.87
1:AA:2651:C:C2	1:AA:2670:A:C2	2.61	0.87
1:AA:6:A:H2	1:AA:2897:U:C2'	1.88	0.87
1:AA:482:A:N3	1:AA:482:A:H2'	1.88	0.87
1:AA:974:G:H3'	1:AA:974(A):C:C5'	2.04	0.87
2:AB:50:G:H4'	14:AP:61:ASN:OD1	1.73	0.87
3:AC:43:VAL:CG1	3:AC:213:TYR:C	2.42	0.87
5:AE:100:GLU:O	5:AE:172:VAL:HG13	1.73	0.87
10:AL:68:GLU:HG3	10:AL:68:GLU:O	1.73	0.87
11:AM:55:ARG:CB	11:AM:55:ARG:HH21	1.87	0.87
16:AR:59:ARG:HA	16:AR:62:ILE:HD12	1.55	0.87
20:AV:12:THR:HG21	20:AV:71:LYS:C	1.95	0.87
22:AX:49:LYS:H	22:AX:80:HIS:CE1	1.92	0.87
35:BF:186:ALA:O	35:BF:201:ILE:HB	1.74	0.87
35:BF:212:GLN:HB3	35:BF:235:SER:OG	1.74	0.87
38:BI:50:GLU:O	38:BI:53:LEU:HB2	1.74	0.87
46:BQ:14:ARG:HG3	46:BQ:17:VAL:HG23	1.56	0.87
52:BW:6:LYS:CB	52:BW:41:VAL:CG1	2.47	0.87
57:BZ:26:LEU:C	57:BZ:28:GLN:HB3	1.93	0.87
1:AA:1793:C:N4	1:AA:1825:A:H61	1.71	0.87
1:AA:2864:G:H2'	1:AA:2865:U:C6	2.09	0.87
1:AA:6:A:C2	1:AA:2897:U:O2	2.27	0.87
59:AA:3003:8AN:P	22:AX:2:ALA:CB	2.63	0.87
1:AA:546:C:H2'	1:AA:547:A:C8	2.10	0.87
1:AA:746:A:N7	1:AA:2612:C:P	2.48	0.87
1:AA:2121:G:C2'	3:AC:167:LYS:HE2	2.04	0.87
5:AE:165:VAL:HG12	5:AE:166:THR:H	1.39	0.87
8:AH:11:VAL:HG23	8:AH:50:VAL:HG21	1.56	0.87
21:AW:78:LYS:HE2	21:AW:84:GLU:OE2	1.75	0.87
23:AY:27:LEU:HA	23:AY:30:LEU:CG	2.05	0.87
24:AZ:10:LYS:HZ3	24:AZ:12:PRO:CG	1.85	0.87
34:BA:1117:G:N2	34:BA:1184:G:N9	2.23	0.87
34:BA:1263:C:H2'	34:BA:1264:C:C6	2.09	0.87
34:BA:197:A:N6	34:BA:221:C:H5'	1.90	0.87
34:BA:256:U:H2'	34:BA:257:G:O4'	1.73	0.87
34:BA:533:A:H2'	34:BA:535:A:OP2	1.74	0.87
39:BJ:10:LEU:N	39:BJ:10:LEU:HD23	1.89	0.87
34:BA:598:U:H4'	41:BL:94:TYR:CD2	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:117:ARG:NH2	45:BP:124:LYS:HA	1.90	0.87
46:BQ:15:VAL:CG2	46:BQ:39:ILE:HD13	1.39	0.87
57:BZ:247:ARG:O	57:BZ:276:ILE:HB	1.72	0.87
57:BZ:129:LYS:HZ3	60:BZ:701:GCP:C4	1.85	0.87
55:BC:31:A:C2'	55:BC:32:U:H5'	2.04	0.87
55:BC:34:G:C2'	55:BC:35:A:H5'	2.05	0.87
1:AA:1024:G:C5	1:AA:1025:G:C8	2.62	0.87
1:AA:1326:U:C2'	1:AA:1327:C:H5'	2.03	0.87
1:AA:1470:G:N2	1:AA:1522:G:H1	1.73	0.87
1:AA:152:G:N2	1:AA:175:G:H1'	1.89	0.87
1:AA:152:G:H2'	1:AA:153:C:H5'	1.56	0.87
1:AA:1838:C:H2'	1:AA:1898:U:C4	2.10	0.87
1:AA:2177:C:H5''	3:AC:223:ARG:HH12	1.37	0.87
1:AA:2210:G:C8	4:AD:68:LYS:HD3	2.10	0.87
1:AA:64:A:C2'	1:AA:65:C:H5'	2.05	0.87
1:AA:704:G:H21	1:AA:725:G:N2	1.72	0.87
1:AA:775:G:H2'	1:AA:794:G:C5	2.08	0.87
3:AC:177:LYS:HB2	3:AC:180:PHE:HB2	1.57	0.87
4:AD:145:VAL:HG13	4:AD:191:ALA:HB2	1.57	0.87
32:AJ:44:ALA:HB2	32:AJ:66:THR:HG22	1.57	0.87
11:AM:105:LEU:O	11:AM:106:LEU:HG	1.74	0.87
14:AP:16:ASN:O	14:AP:20:ARG:HG2	1.74	0.87
14:AP:57:LYS:HZ2	14:AP:65:VAL:HA	1.38	0.87
16:AR:40:PHE:HB3	17:AS:78:LYS:HD2	1.56	0.87
16:AR:8:VAL:O	16:AR:11:ARG:HG2	1.75	0.87
22:AX:37:LEU:HD11	22:AX:59:LEU:HB3	1.55	0.87
34:BA:1068:G:O2'	34:BA:1069:C:H5'	1.75	0.87
34:BA:1302:U:OP2	46:BQ:21:TYR:CE2	2.28	0.87
34:BA:713:G:H21	34:BA:777:A:C1'	1.88	0.87
34:BA:735:C:H2'	34:BA:736:C:H6	1.37	0.87
37:BH:60:GLU:CD	37:BH:202:LEU:HD12	1.95	0.87
37:BH:58:LEU:HD13	37:BH:59:ARG:HH11	1.38	0.87
38:BI:78:HIS:CB	41:BL:107:LEU:HD21	2.04	0.87
34:BA:1125:U:H5''	43:BN:38:ILE:CD1	1.90	0.87
46:BQ:37:THR:CB	46:BQ:56:LEU:CG	2.30	0.87
36:BG:12:LEU:CD2	47:BR:57:ARG:HG3	2.05	0.87
50:BU:43:LEU:O	50:BU:43:LEU:HD13	1.75	0.87
57:BZ:95:VAL:CG2	57:BZ:123:PRO:HA	2.05	0.87
57:BZ:153:ALA:HB1	57:BZ:156:GLU:HB3	1.56	0.87
57:BZ:141:VAL:HG23	57:BZ:164:TYR:HH	1.38	0.87
57:BZ:483:ARG:CG	57:BZ:573:ASP:HB2	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:488:LEU:HD21	57:BZ:526:ILE:C	1.94	0.87
1:AA:1039:G:H3'	1:AA:1039:G:P	2.15	0.87
1:AA:1637:A:O2'	1:AA:2711:A:H1'	1.74	0.87
1:AA:1810:A:H2'	1:AA:1811:G:H5'	1.57	0.87
1:AA:2009:G:OP1	18:AT:41:LYS:HD2	1.75	0.87
1:AA:2218:G:H4'	4:AD:186:HIS:CE1	2.09	0.87
1:AA:51:G:H1'	1:AA:118:A:N6	1.89	0.87
1:AA:957:A:O3'	1:AA:958:U:H4'	1.75	0.87
2:AB:51:G:C5'	14:AP:60:GLY:HA2	2.05	0.87
1:AA:2125:G:H5'	3:AC:40:THR:HG22	1.57	0.87
3:AC:50:ASP:OD1	3:AC:52:ARG:HG2	1.75	0.87
4:AD:246:PRO:HG3	4:AD:252:TRP:HE3	1.36	0.87
2:AB:42:C:C2	7:AG:93:THR:HB	2.10	0.87
9:AK:128:HIS:N	9:AK:129:PRO:HD2	1.89	0.87
10:AL:70:LYS:NZ	10:AL:102:VAL:HG13	1.89	0.87
10:AL:7:TYR:CA	10:AL:18:LYS:HE3	2.04	0.87
11:AM:55:ARG:HH21	11:AM:55:ARG:HB3	1.40	0.87
12:AN:42:ILE:HD12	12:AN:47:ILE:CG1	2.03	0.87
16:AR:111:GLU:HA	16:AR:114:LYS:CE	2.05	0.87
24:AZ:10:LYS:HE2	24:AZ:31:LEU:HD21	1.55	0.87
34:BA:287:U:H2'	34:BA:287:U:O2	1.74	0.87
37:BH:26:CYS:O	37:BH:33:MET:HG3	1.75	0.87
41:BL:86:ILE:CG2	41:BL:133:LEU:HB2	2.04	0.87
41:BL:18:ARG:HH11	41:BL:18:ARG:HA	1.40	0.87
34:BA:878:G:C5'	41:BL:89:PRO:HG2	2.04	0.87
43:BN:10:GLY:HA3	43:BN:94:VAL:HG22	1.57	0.87
44:BO:80:VAL:O	44:BO:106:LYS:HB3	1.75	0.87
48:BS:29:VAL:HG21	48:BS:81:LEU:HD11	1.55	0.87
49:BT:20:VAL:HG13	49:BT:34:GLU:O	1.74	0.87
34:BA:1321:C:C2	52:BW:36:ARG:NH1	2.43	0.87
57:BZ:5:LEU:CG	57:BZ:269:GLU:HG3	1.72	0.87
56:BD:3:C:N3	56:BD:70:G:O6	2.08	0.87
1:AA:1071:G:O6	1:AA:1072:C:N4	2.07	0.86
1:AA:1143:A:H2'	1:AA:1144:G:C8	2.09	0.86
1:AA:1155:A:C2'	1:AA:1156:A:H5''	2.04	0.86
1:AA:1513:C:C4	1:AA:1514:U:O4	2.28	0.86
1:AA:1291:C:H5''	1:AA:1536:A:H5'	1.52	0.86
1:AA:1725:G:H22	1:AA:1726:G:H1'	1.39	0.86
1:AA:2174:C:C2	3:AC:219:GLY:CA	2.58	0.86
1:AA:2209:C:C2'	1:AA:2210:G:H3'	2.05	0.86
1:AA:263:C:H2'	1:AA:263:C:O2	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:511:U:H5	1:AA:512:G:N3	1.71	0.86
1:AA:64:A:O2'	19:AU:71:GLY:HA3	1.72	0.86
1:AA:858:U:HO2'	1:AA:2268:A:H2'	1.40	0.86
4:AD:181:GLU:CA	4:AD:270:ILE:HD12	2.05	0.86
1:AA:2593:U:O4	4:AD:239:ARG:NH1	2.08	0.86
4:AD:80:ALA:HB3	4:AD:94:LEU:O	1.73	0.86
5:AE:58:ARG:NH2	5:AE:58:ARG:HB2	1.90	0.86
6:AF:108:LYS:O	6:AF:111:ALA:HB3	1.75	0.86
6:AF:63:LYS:HA	6:AF:76:GLY:O	1.75	0.86
7:AG:57:ALA:C	7:AG:67:LYS:HB2	1.94	0.86
7:AG:57:ALA:HB2	7:AG:68:PRO:O	1.75	0.86
32:AJ:23:VAL:HG12	32:AJ:37:PHE:HD1	1.31	0.86
9:AK:86:PRO:O	9:AK:89:LYS:HE3	1.74	0.86
10:AL:64:ARG:HH12	10:AL:77:ILE:CB	1.84	0.86
17:AS:32:THR:CA	17:AS:64:HIS:O	2.21	0.86
19:AU:54:VAL:HG22	19:AU:81:VAL:HG23	1.55	0.86
34:BA:1318:A:C2'	52:BW:37:ARG:N	2.38	0.86
34:BA:1461:G:O2'	34:BA:1462:G:H5'	1.74	0.86
34:BA:559:A:H4'	34:BA:560:U:H5'	0.92	0.86
34:BA:944:G:H21	34:BA:1339:A:N6	1.72	0.86
1:AA:2169:A:C2	55:BC:56:C:C4	2.52	0.86
35:BF:42:ILE:HG12	35:BF:43:ASP:H	1.38	0.86
42:BM:106:ALA:O	42:BM:107:ARG:HG3	1.75	0.86
42:BM:49:PRO:HD3	42:BM:78:LYS:HG2	1.56	0.86
34:BA:1308:U:C3'	46:BQ:92:HIS:HE2	1.84	0.86
51:BV:74:ARG:N	51:BV:79:LEU:HD21	1.89	0.86
34:BA:1319:A:H5''	52:BW:70:LYS:HZ2	0.80	0.86
57:BZ:156:GLU:HA	57:BZ:158:LEU:H	1.40	0.86
1:AA:187:G:H2'	1:AA:1365:A:H2	1.38	0.86
1:AA:2296:U:H6	1:AA:2296:U:H3'	1.39	0.86
1:AA:2492:U:H2'	1:AA:2492:U:O2	1.75	0.86
1:AA:2532:G:O3'	1:AA:2657:A:H2	1.52	0.86
1:AA:2673:G:O2'	1:AA:2674:G:H5'	1.74	0.86
1:AA:2710:C:H2'	1:AA:2711:A:H5''	1.56	0.86
1:AA:2791:C:C4	1:AA:2893:G:C8	0.88	0.86
3:AC:180:PHE:HZ	3:AC:184:LYS:CD	1.84	0.86
4:AD:134:ARG:C	4:AD:168:ARG:HH22	1.78	0.86
5:AE:101:ARG:HH21	5:AE:171:GLU:HG2	1.40	0.86
5:AE:23:VAL:HG23	5:AE:184:VAL:HG23	1.56	0.86
6:AF:41:LEU:O	6:AF:44:ARG:HG3	1.75	0.86
7:AG:101:ILE:O	7:AG:104:GLU:HB3	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:17:ALA:CA	32:AJ:41:PHE:CB	2.41	0.86
10:AL:62:VAL:CG2	10:AL:83:ALA:HA	2.05	0.86
1:AA:910:A:C6	12:AN:17:LEU:HD11	2.10	0.86
13:AO:45:ARG:O	13:AO:49:ASP:HB2	1.75	0.86
14:AP:26:LEU:O	14:AP:88:ASP:HB2	1.74	0.86
24:AZ:3:ARG:HH11	24:AZ:3:ARG:HB3	1.34	0.86
34:BA:1330:U:C4'	46:BQ:70:LEU:HD21	2.04	0.86
34:BA:1336:C:H4'	34:BA:1337:G:C2	2.10	0.86
34:BA:529:G:C8	34:BA:529:G:H3'	2.10	0.86
34:BA:907:A:H2'	34:BA:908:A:H8	1.40	0.86
35:BF:20:GLU:CD	35:BF:189:ASP:OD2	2.13	0.86
35:BF:219:VAL:O	35:BF:223:ILE:HG13	1.75	0.86
40:BK:31:MET:HG2	40:BK:32:ARG:H	1.40	0.86
57:BZ:165:ALA:CA	57:BZ:171:ILE:CG2	2.51	0.86
55:BC:37:A:O2'	55:BC:38:A:H5'	1.75	0.86
1:AA:1080:C:H5''	32:AJ:128:ALA:CA	2.06	0.86
1:AA:1935:G:O2'	1:AA:1937:A:H2	1.56	0.86
1:AA:2821:A:H3'	1:AA:2821:A:OP2	1.76	0.86
1:AA:764:A:H1'	4:AD:214:TRP:CD1	2.10	0.86
1:AA:586:A:C2	1:AA:809:G:N2	2.43	0.86
1:AA:893:C:O2'	1:AA:894:C:H5'	1.74	0.86
2:AB:103:U:C2'	2:AB:104:A:H5'	2.04	0.86
1:AA:2127:G:C8	3:AC:36:LYS:HG2	2.10	0.86
32:AJ:17:ALA:HB3	32:AJ:42:ASN:ND2	1.89	0.86
9:AK:23:LEU:CD1	9:AK:63:THR:N	2.38	0.86
15:AQ:28:VAL:O	15:AQ:52:ILE:HG13	1.74	0.86
17:AS:18:LEU:HB2	17:AS:66:ARG:HH22	1.39	0.86
34:BA:1425:U:H2'	34:BA:1426:C:C6	2.08	0.86
34:BA:1459:C:O2'	34:BA:1460:A:H5'	1.75	0.86
34:BA:1484:C:O2'	34:BA:1485:U:H5'	1.75	0.86
34:BA:1516:G:H22	34:BA:1518:A:H3'	1.41	0.86
56:BE:3:C:N3	56:BE:70:G:C2'	2.37	0.86
35:BF:145:LEU:O	35:BF:149:LEU:HB2	1.75	0.86
1:AA:2471:C:C5'	57:BZ:529:ARG:HH22	1.86	0.86
46:BQ:48:LEU:HD22	46:BQ:53:VAL:CG2	2.06	0.86
56:BD:63:G:O2'	56:BD:64:A:H5'	1.75	0.86
1:AA:1581:G:H2'	1:AA:1582:C:O4'	1.73	0.86
1:AA:1061:U:O5'	32:AJ:52:ILE:CD1	2.24	0.86
1:AA:1202:C:H2'	1:AA:1203:G:H4'	1.57	0.86
1:AA:1341:U:O2	1:AA:1341:U:H2'	1.73	0.86
1:AA:154:G:O2'	1:AA:155:C:H5'	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1567:A:H4'	1:AA:1568:G:C2	2.10	0.86
1:AA:2162:G:H2'	1:AA:2163:C:H5'	1.55	0.86
1:AA:2332:U:C4'	1:AA:2336:A:N6	2.37	0.86
1:AA:2646:C:C4	1:AA:2647:U:C4	2.63	0.86
1:AA:2799:A:O4'	1:AA:2802:G:N1	2.08	0.86
1:AA:472:A:C2'	1:AA:473:G:H5''	2.06	0.86
1:AA:931:G:H3'	1:AA:932:G:O4'	1.74	0.86
2:AB:97:G:H2'	2:AB:98:G:H5'	1.55	0.86
5:AE:173:VAL:HG22	5:AE:174:ASP:N	1.90	0.86
6:AF:122:LYS:HA	6:AF:122:LYS:NZ	1.90	0.86
6:AF:74:ARG:NE	6:AF:75:HIS:N	2.23	0.86
1:AA:1078:U:P	32:AJ:137:GLU:OE1	2.33	0.86
9:AK:68:GLU:H	9:AK:70:LYS:NZ	1.72	0.86
12:AN:81:VAL:HG12	12:AN:82:ARG:N	1.90	0.86
14:AP:62:LYS:C	14:AP:64:GLU:H	1.77	0.86
20:AV:71:LYS:HD2	20:AV:71:LYS:H	1.38	0.86
34:BA:389:A:C6	34:BA:390:C:H1'	2.10	0.86
34:BA:47:C:H4'	34:BA:48:C:C5'	2.04	0.86
34:BA:819:A:H5''	34:BA:820:U:OP2	1.75	0.86
35:BF:82:ARG:HA	35:BF:92:TYR:CE1	2.11	0.86
46:BQ:81:LEU:CD2	46:BQ:89:GLY:HA3	2.03	0.86
50:BU:43:LEU:HD13	50:BU:43:LEU:C	1.94	0.86
50:BU:45:HIS:O	50:BU:73:VAL:HG23	1.75	0.86
44:BO:110:ASP:HB2	51:BV:88:LYS:CB	2.05	0.86
53:BX:72:LEU:HD22	53:BX:77:ALA:N	1.89	0.86
57:BZ:67:ASP:HB3	57:BZ:191:VAL:CB	2.04	0.86
57:BZ:482:GLN:N	57:BZ:573:ASP:OD2	2.08	0.86
31:AI:53:VAL:HA	31:AI:85:ASP:C	1.96	0.86
1:AA:1179:C:O2'	1:AA:1180:C:O5'	1.93	0.86
1:AA:1920:C:O2'	1:AA:1921:G:H3'	1.75	0.86
1:AA:228:A:H2'	1:AA:229:A:H5'	1.55	0.86
1:AA:247:G:H5'	1:AA:386:G:H3'	1.57	0.86
1:AA:2539:C:O2'	1:AA:2540:C:H5'	1.76	0.86
1:AA:270(Z):U:N3	1:AA:271(C):U:H1'	1.90	0.86
1:AA:2749:A:C5	1:AA:2750:A:N7	2.43	0.86
1:AA:29:U:H2'	1:AA:30:G:C8	2.10	0.86
2:AB:55:U:O2'	2:AB:56:G:H5'	1.74	0.86
5:AE:8:LYS:HD3	5:AE:9:VAL:N	1.90	0.86
7:AG:53:LEU:HG	7:AG:72:ARG:CD	2.04	0.86
1:AA:1075:C:C1'	32:AJ:90:LYS:NZ	2.38	0.86
12:AN:56:ARG:CZ	12:AN:57:HIS:HB2	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:111:GLU:HA	16:AR:114:LYS:HZ1	1.41	0.86
20:AV:23:ARG:HD2	20:AV:39:VAL:HG22	1.56	0.86
1:AA:95:G:H2'	23:AY:43:HIS:NE2	1.91	0.86
23:AY:52:ILE:O	23:AY:56:LEU:HD22	1.72	0.86
34:BA:1128:C:O2	34:BA:1130:A:N6	2.08	0.86
34:BA:21:G:H2'	34:BA:22:G:C8	2.10	0.86
34:BA:20:U:H5'	34:BA:572:A:H61	1.38	0.86
34:BA:938:A:O2'	34:BA:939:G:H5'	1.75	0.86
37:BH:59:ARG:C	37:BH:63:LYS:HZ2	1.79	0.86
41:BL:111:ILE:HD12	41:BL:111:ILE:N	1.90	0.86
42:BM:50:LEU:HD22	42:BM:51:ARG:HH12	1.40	0.86
50:BU:91:ARG:HA	50:BU:94:ASN:HD22	1.40	0.86
57:BZ:396:LYS:CA	57:BZ:474:ASP:CA	2.54	0.86
57:BZ:547:ARG:CB	57:BZ:548:ALA:HB2	2.01	0.86
1:AA:1064:C:C5	1:AA:1065:U:C4	2.63	0.86
1:AA:1105:U:O4'	1:AA:1106:G:O5'	1.93	0.86
1:AA:1444:G:H3'	1:AA:1445:C:C5	2.10	0.86
1:AA:1454:U:H2'	1:AA:1454:U:O2	1.75	0.86
1:AA:1697:G:C3'	1:AA:1698:A:H5'	2.05	0.86
1:AA:1786:A:O2'	1:AA:1787:A:H5'	1.75	0.86
1:AA:2174:C:N3	3:AC:219:GLY:N	2.24	0.86
1:AA:2348:U:O4	1:AA:2382:G:N2	2.08	0.86
1:AA:270(I):G:N3	1:AA:270(J):G:H1'	1.90	0.86
1:AA:39:C:H2'	1:AA:40:C:C6	2.11	0.86
1:AA:780:G:H2'	1:AA:782:A:N7	1.89	0.86
1:AA:851:U:H5''	24:AZ:49:LYS:HD2	1.58	0.86
1:AA:948:G:C1'	1:AA:984:A:C2	2.58	0.86
4:AD:112:GLN:H	4:AD:115:GLN:NE2	1.74	0.86
4:AD:130:ALA:HA	4:AD:193:VAL:HG23	1.55	0.86
5:AE:33:VAL:HG13	5:AE:48:GLN:HA	1.54	0.86
32:AJ:21:PRO:CD	32:AJ:22:PRO:HD3	2.05	0.86
10:AL:19:ILE:O	10:AL:19:ILE:HD12	1.75	0.86
12:AN:8:LYS:HZ2	12:AN:93:TYR:HD2	0.90	0.86
16:AR:65:ILE:CD1	16:AR:96:ALA:HB2	2.05	0.86
17:AS:5:VAL:N	17:AS:12:TYR:HD2	1.74	0.86
59:AA:3003:8AN:C8	22:AX:4:LYS:NZ	2.39	0.86
24:AZ:9:VAL:HG13	24:AZ:54:VAL:HA	1.56	0.86
34:BA:1310:G:O6	34:BA:1327:C:C5	2.26	0.86
34:BA:38:G:N2	34:BA:397:A:C5	2.43	0.86
34:BA:854:G:H3'	34:BA:871:U:O4	1.76	0.86
55:BC:20:U:H2'	55:BC:21:A:H4'	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:134:GLU:O	35:BF:138:LEU:HG	1.74	0.86
38:BI:11:ILE:HB	38:BI:31:LEU:HD22	1.58	0.86
34:BA:1307:U:OP1	46:BQ:101:GLN:CD	2.13	0.86
49:BT:39:TYR:CB	49:BT:49:LEU:HD13	2.04	0.86
57:BZ:122:LYS:HE2	57:BZ:155:ASP:O	1.74	0.86
57:BZ:253:LYS:HE3	57:BZ:269:GLU:HB3	1.55	0.86
1:AA:1176:G:H2'	1:AA:1177:A:H5'	1.56	0.86
1:AA:1265:A:OP2	1:AA:2615:U:OP1	1.93	0.86
1:AA:1476:C:N4	1:AA:1517:G:C8	2.44	0.86
1:AA:1798:U:H5'	4:AD:257:LEU:HD12	1.57	0.86
1:AA:570:G:H1	1:AA:2498:C:H4'	1.34	0.86
1:AA:2652:C:C6	1:AA:2669:G:N2	2.19	0.86
1:AA:2670:A:C4	1:AA:2671:A:N7	2.43	0.86
1:AA:389:G:C8	1:AA:2413:G:H4'	2.11	0.86
1:AA:901:A:N7	1:AA:902:C:C4	2.43	0.86
3:AC:157:LYS:N	3:AC:159:GLY:N	2.23	0.86
1:AA:2176:A:N3	3:AC:44:HIS:CD2	2.43	0.86
4:AD:118:VAL:H	4:AD:129:ASN:ND2	1.74	0.86
4:AD:27:THR:HG22	4:AD:29:PRO:HD2	1.56	0.86
31:AI:152:VAL:C	31:AI:155:GLY:HA3	1.95	0.86
32:AJ:74:ALA:HB1	32:AJ:126:MET:HE2	1.57	0.86
17:AS:67:GLY:O	17:AS:68:LYS:HB2	1.73	0.86
21:AW:111:VAL:CG2	21:AW:117:LEU:HG	2.06	0.86
59:AA:3003:8AN:H8	22:AX:4:LYS:NZ	1.90	0.86
23:AY:33:GLN:O	23:AY:35:SER:N	2.08	0.86
34:BA:1137:C:H4'	34:BA:1138:G:N2	1.89	0.86
34:BA:1404:C:O2'	34:BA:1499:A:C2	2.20	0.86
10:AL:116:SER:CB	34:BA:345:C:C2	2.58	0.86
10:AL:116:SER:CA	34:BA:345:C:O2	2.24	0.86
55:BC:16:U:O4	55:BC:18:G:C3'	2.20	0.86
35:BF:200:ILE:O	35:BF:202:PRO:HD3	1.75	0.86
41:BL:12:ARG:HD3	41:BL:26:VAL:CG2	2.04	0.86
46:BQ:19:LEU:HB2	46:BQ:25:ILE:HG21	1.57	0.86
51:BV:76:LEU:H	51:BV:76:LEU:HD22	1.41	0.86
52:BW:18:LYS:HE2	52:BW:22:LEU:CD1	2.06	0.86
53:BX:89:ARG:O	53:BX:93:GLU:HG3	1.74	0.86
57:BZ:258:LEU:HB3	57:BZ:260:LEU:H	1.39	0.86
1:AA:1059:G:C2'	32:AJ:75:SER:N	2.33	0.86
1:AA:1687:G:C6	1:AA:1688:U:H5	1.92	0.86
1:AA:764:A:N6	1:AA:1776:G:H1'	1.91	0.86
1:AA:1969:A:H4'	1:AA:1970:A:H5'	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2129:C:C4'	3:AC:6:ARG:CG	2.09	0.86
1:AA:2399:G:C2	1:AA:2400:G:H1'	2.11	0.86
1:AA:269:U:H3	1:AA:270:A:N6	1.73	0.86
1:AA:729:G:C4	1:AA:730:C:H1'	2.11	0.86
2:AB:78:A:C5	2:AB:99:A:N6	2.43	0.86
1:AA:2178:C:H5'	3:AC:46:LYS:CB	2.05	0.86
1:AA:1901:A:H4'	4:AD:244:ARG:HH12	1.40	0.86
5:AE:5:LEU:HD21	5:AE:196:VAL:HB	1.55	0.86
6:AF:122:LYS:HA	6:AF:122:LYS:HZ3	1.37	0.86
7:AG:75:LYS:O	7:AG:83:ARG:HA	1.75	0.86
9:AK:115:ARG:O	9:AK:118:LYS:HB2	1.74	0.86
9:AK:74:ARG:HG2	9:AK:74:ARG:O	1.74	0.86
16:AR:53:ARG:HA	16:AR:56:ASP:CG	1.95	0.86
21:AW:118:GLN:HE21	21:AW:120:ILE:HG23	1.39	0.86
34:BA:1309:G:N2	34:BA:1328:C:C4	2.43	0.86
34:BA:1400:C:H4'	34:BA:1401:G:OP2	1.75	0.86
35:BF:219:VAL:HG12	35:BF:223:ILE:CD1	2.03	0.86
40:BK:45:ASP:HA	40:BK:48:LYS:NZ	1.90	0.86
42:BM:19:LEU:HD21	42:BM:59:PHE:CB	2.01	0.86
42:BM:55:ALA:HB1	42:BM:58:HIS:ND1	1.90	0.86
46:BQ:29:ARG:HD3	46:BQ:64:TRP:HH2	1.30	0.86
48:BS:51:HIS:O	48:BS:54:ARG:HB3	1.74	0.86
34:BA:1220:G:OP1	52:BW:34:TRP:CB	2.15	0.86
57:BZ:157:GLN:HG2	57:BZ:158:LEU:CD1	2.05	0.86
57:BZ:41:ARG:CA	57:BZ:42:VAL:HG13	2.04	0.86
1:AA:1527:G:H1'	1:AA:1528:A:C2	2.09	0.86
1:AA:1655:A:H61	1:AA:2005:A:H1'	1.41	0.86
1:AA:2171:A:H4'	1:AA:2172:U:OP1	1.73	0.86
1:AA:2353:G:H4'	22:AX:32:ARG:NH2	1.90	0.86
1:AA:2456:C:O2'	1:AA:2457:U:H5'	1.75	0.86
1:AA:2544:G:H2'	1:AA:2545:G:O4'	1.75	0.86
1:AA:298:G:O5'	1:AA:298:G:H8	1.58	0.86
1:AA:392:C:H2'	1:AA:393:C:C6	2.10	0.86
1:AA:429:A:H2'	1:AA:430:G:C8	2.11	0.86
1:AA:503:A:H4'	1:AA:504:U:C5'	2.05	0.86
1:AA:76:C:H2'	1:AA:77:C:H5'	1.55	0.86
1:AA:95:G:O5'	23:AY:39:LEU:HB3	1.76	0.86
4:AD:5:LYS:HZ3	4:AD:31:LYS:HZ1	0.86	0.86
32:AJ:83:GLY:O	32:AJ:85:GLU:N	2.09	0.86
10:AL:52:VAL:HG22	10:AL:53:LYS:N	1.86	0.86
10:AL:12:ASP:OD2	10:AL:85:VAL:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:65:LYS:HD3	15:AQ:75:ILE:HD13	1.56	0.86
18:AT:47:VAL:O	18:AT:51:LEU:HD13	1.76	0.86
22:AX:21:LEU:HG	22:AX:22:GLY:H	1.40	0.86
22:AX:5:LYS:HG2	22:AX:6:GLY:N	1.89	0.86
34:BA:522:C:H5'	45:BP:120:TYR:OH	1.76	0.86
34:BA:797:C:O2'	34:BA:798:G:H5'	1.75	0.86
34:BA:983:A:H3'	34:BA:983:A:N3	1.91	0.86
48:BS:53:HIS:O	48:BS:57:LEU:HD13	1.76	0.86
49:BT:3:LYS:HB3	49:BT:3:LYS:HZ2	1.39	0.86
57:BZ:95:VAL:HG23	57:BZ:123:PRO:CA	2.05	0.86
57:BZ:604:PRO:CB	57:BZ:605:LYS:HB3	2.03	0.86
1:AA:273(B):C:H2'	1:AA:273(C):C:C6	2.11	0.86
1:AA:83:G:O6	1:AA:102:G:H1'	1.76	0.86
1:AA:1151:G:H2'	1:AA:1152:C:C6	2.11	0.86
1:AA:1902:C:H5'	4:AD:244:ARG:NE	1.91	0.86
1:AA:2138:C:H2'	1:AA:2139:C:C6	2.10	0.86
1:AA:2493:U:H3'	1:AA:2493:U:C6	2.11	0.86
1:AA:292:C:H2'	1:AA:293:U:O2	1.75	0.86
1:AA:7:G:C6	1:AA:2896:C:C2	2.62	0.86
4:AD:181:GLU:HB3	4:AD:268:ARG:HE	1.37	0.86
5:AE:136:ARG:O	5:AE:137:HIS:ND1	2.09	0.86
7:AG:75:LYS:CG	7:AG:84:LYS:HB2	2.05	0.86
11:AM:128:HIS:HA	11:AM:147:LEU:CD2	2.06	0.86
11:AM:91:PHE:O	11:AM:95:VAL:HB	1.75	0.86
17:AS:5:VAL:HG13	17:AS:38:LEU:O	1.76	0.86
18:AT:11:ARG:HB2	18:AT:98:LYS:CE	2.05	0.86
20:AV:64:GLU:HA	20:AV:64:GLU:OE2	1.74	0.86
34:BA:952:U:C5'	34:BA:972:C:H41	1.88	0.86
35:BF:115:LEU:CD2	35:BF:149:LEU:HD13	2.06	0.86
35:BF:176:GLU:O	35:BF:180:LEU:HG	1.76	0.86
35:BF:54:THR:O	35:BF:58:ILE:HG13	1.76	0.86
36:BG:67:THR:HA	36:BG:102:ASN:HB2	1.56	0.86
34:BA:691:G:O6	44:BO:55:LYS:HE2	1.75	0.86
46:BQ:10:PRO:O	46:BQ:45:VAL:HG11	1.69	0.86
49:BT:55:ARG:HA	49:BT:55:ARG:HE	1.41	0.86
53:BX:83:ARG:O	53:BX:86:ARG:HG2	1.75	0.86
57:BZ:236:GLN:CG	57:BZ:237:VAL:H	1.88	0.86
57:BZ:491:ASN:OD1	57:BZ:536:ASN:HB2	1.75	0.86
1:AA:1052:C:O2'	1:AA:1053:C:H5'	1.76	0.85
1:AA:1651:G:H2'	1:AA:1652:A:C8	2.11	0.85
1:AA:1934:C:C5'	1:AA:1974:C:H4'	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2207:C:H2'	1:AA:2208:U:H4'	1.57	0.85
1:AA:2644:G:H8	1:AA:2644:G:O5'	1.59	0.85
1:AA:270(B):A:H1'	1:AA:270(C):C:C5	2.11	0.85
1:AA:2748:A:H1'	8:AH:67:LEU:CD2	2.06	0.85
1:AA:280:C:N4	1:AA:283:A:H62	1.73	0.85
1:AA:725:G:H2'	1:AA:726:G:O4'	1.76	0.85
2:AB:88:C:N4	2:AB:89:G:N3	2.23	0.85
3:AC:43:VAL:HG21	3:AC:189:ILE:HD13	1.57	0.85
3:AC:22:ILE:HD11	3:AC:226:PRO:CA	2.05	0.85
5:AE:12:THR:HG23	5:AE:21:VAL:HB	1.56	0.85
5:AE:49:LEU:HG	5:AE:74:PRO:CG	2.04	0.85
6:AF:158:THR:HG21	6:AF:195:ASP:HB2	1.56	0.85
8:AH:103:LEU:HB2	8:AH:115:VAL:CB	2.05	0.85
8:AH:43:VAL:HG22	8:AH:52:VAL:CA	2.03	0.85
9:AK:116:LEU:HD23	9:AK:116:LEU:O	1.76	0.85
10:AL:37:ASP:H	10:AL:61:VAL:HB	1.40	0.85
10:AL:97:ARG:CZ	10:AL:97:ARG:HB2	2.04	0.85
14:AP:51:ALA:CB	14:AP:73:LEU:HG	2.06	0.85
14:AP:8:GLU:O	14:AP:9:ARG:C	2.11	0.85
18:AT:74:ALA:CB	18:AT:105:VAL:HG23	2.04	0.85
22:AX:51:VAL:HG11	22:AX:79:VAL:CG2	2.06	0.85
34:BA:607:A:H2'	34:BA:608:A:O4'	1.75	0.85
34:BA:611:A:H61	34:BA:629:G:H1	0.88	0.85
34:BA:713:G:H2'	34:BA:714:G:C8	2.11	0.85
34:BA:851:G:N2	34:BA:852:G:H1'	1.91	0.85
35:BF:115:LEU:HD22	35:BF:149:LEU:HD13	1.56	0.85
35:BF:46:LYS:HA	35:BF:46:LYS:HE2	1.56	0.85
37:BH:133:VAL:HG11	37:BH:138:TYR:CD1	2.11	0.85
38:BI:107:ARG:O	38:BI:111:GLU:HG3	1.76	0.85
39:BJ:7:ASN:ND2	39:BJ:62:TRP:HD1	1.73	0.85
40:BK:29:LYS:HD2	40:BK:101:LEU:HD22	1.57	0.85
42:BM:98:PRO:C	42:BM:100:GLY:H	1.79	0.85
44:BO:58:PRO:HB3	44:BO:90:GLY:CA	2.06	0.85
34:BA:562:C:HO2'	45:BP:15:ARG:HD3	1.41	0.85
34:BA:562:C:O2'	45:BP:15:ARG:HD3	1.76	0.85
46:BQ:100:GLY:CA	46:BQ:101:GLN:HG2	2.05	0.85
57:BZ:8:ILE:CG2	57:BZ:72:ILE:HD13	1.93	0.85
56:BD:51:U:N3	56:BD:63:G:C2	2.43	0.85
1:AA:1044:G:N3	31:AI:6:ASN:CA	2.39	0.85
1:AA:1275:A:N3	13:AO:12:ARG:NH2	2.24	0.85
1:AA:1491:G:C2'	1:AA:1492:G:H4'	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1799:G:H1	4:AD:157:ARG:NH1	1.73	0.85
1:AA:1906:G:N9	1:AA:1929:G:C5	2.34	0.85
1:AA:2121:G:H1'	3:AC:167:LYS:HE2	1.53	0.85
1:AA:2331:G:N2	1:AA:2385:C:N4	2.24	0.85
1:AA:2390:U:O2'	1:AA:2391:G:H5'	1.75	0.85
1:AA:2447:G:N7	1:AA:2500:U:C2'	2.39	0.85
1:AA:2055:C:H2'	1:AA:2504:U:H5'	1.59	0.85
4:AD:89:SER:O	4:AD:159:ALA:HB2	1.76	0.85
4:AD:8:PRO:O	4:AD:25:THR:CA	2.17	0.85
32:AJ:98:ARG:NH1	32:AJ:100:THR:HA	1.91	0.85
9:AK:109:LYS:HZ2	9:AK:110:GLY:N	1.74	0.85
11:AM:122:PRO:HG3	11:AM:137:LYS:C	1.97	0.85
12:AN:112:GLU:HA	12:AN:115:MET:CG	2.06	0.85
13:AO:61:HIS:HA	13:AO:64:ARG:HD3	1.59	0.85
19:AU:21:PHE:HE2	19:AU:27:THR:H	1.19	0.85
20:AV:31:LEU:HB3	20:AV:32:PRO:CD	2.06	0.85
34:BA:1226:C:C6	46:BQ:104:ARG:HA	2.12	0.85
34:BA:309:G:O2'	34:BA:310:G:H5'	1.75	0.85
34:BA:728:A:H8	48:BS:54:ARG:CZ	1.88	0.85
34:BA:576:G:N7	34:BA:881:G:H1'	1.89	0.85
37:BH:70:ILE:HD12	37:BH:100:ARG:HH21	1.41	0.85
37:BH:145:GLU:HB3	37:BH:184:LYS:HG2	1.57	0.85
38:BI:105:VAL:HG11	38:BI:131:ILE:HG22	1.58	0.85
41:BL:18:ARG:HG3	41:BL:18:ARG:HH11	1.41	0.85
34:BA:1347:G:H8	42:BM:107:ARG:HB3	1.41	0.85
44:BO:33:THR:HA	44:BO:39:PRO:HA	1.58	0.85
44:BO:68:ALA:HA	44:BO:71:LYS:HD2	1.55	0.85
45:BP:88:GLY:HA3	45:BP:99:HIS:NE2	1.91	0.85
46:BQ:22:ILE:CG1	46:BQ:25:ILE:HD12	2.05	0.85
34:BA:1454:G:P	53:BX:39:LYS:HD3	2.15	0.85
57:BZ:62:ALA:HB3	57:BZ:63:ALA:C	1.96	0.85
57:BZ:6:ARG:CA	57:BZ:69:ARG:O	2.18	0.85
57:BZ:81:PHE:O	57:BZ:361:ARG:HB2	1.76	0.85
1:AA:1579:A:N6	1:AA:1581:G:N2	2.24	0.85
34:BA:800:G:H8	34:BA:800:G:O5'	1.59	0.85
1:AA:1658:C:OP1	5:AE:134:ILE:HB	1.76	0.85
1:AA:2416:C:H2'	1:AA:2417:C:C5'	2.05	0.85
1:AA:2881:C:H2'	1:AA:2882:A:C8	2.10	0.85
1:AA:587:C:H5	11:AM:30:THR:HG21	1.41	0.85
1:AA:61:G:H2'	1:AA:62:C:C6	2.11	0.85
1:AA:714:U:H2'	1:AA:715:G:C8	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:100:ILE:HD11	3:AC:123:VAL:HG22	1.56	0.85
4:AD:227:ASN:O	4:AD:229:VAL:HG12	1.75	0.85
32:AJ:72:PRO:CD	32:AJ:77:LEU:CG	2.40	0.85
9:AK:35:ARG:N	9:AK:49:GLY:HA2	1.91	0.85
9:AK:70:LYS:HD2	9:AK:86:PRO:HG3	1.57	0.85
10:AL:64:ARG:HH22	10:AL:77:ILE:HA	1.41	0.85
17:AS:49:THR:CB	17:AS:50:PRO:HD2	2.04	0.85
34:BA:1342:C:O2'	42:BM:124:GLN:HB2	1.77	0.85
34:BA:1350:A:OP2	42:BM:118:LYS:HG3	1.76	0.85
34:BA:1413:A:N1	34:BA:1488:G:C4	2.24	0.85
34:BA:520:A:N6	34:BA:529:G:H21	1.73	0.85
34:BA:722:A:H2'	34:BA:724:G:C8	2.10	0.85
35:BF:217:ARG:O	35:BF:220:ASP:HB2	1.76	0.85
37:BH:126:ILE:O	37:BH:149:ALA:HB2	1.76	0.85
40:BK:69:VAL:HG11	40:BK:104:LEU:HG	1.58	0.85
34:BA:363:A:N7	45:BP:30:ALA:HB1	1.91	0.85
48:BS:36:ILE:CD1	48:BS:63:ARG:HD3	2.07	0.85
52:BW:12:ASP:O	52:BW:14:HIS:N	2.09	0.85
57:BZ:181:GLU:OE2	57:BZ:183:MET:HG2	1.76	0.85
56:BD:1:G:C2	56:BD:2:C:C2	2.64	0.85
1:AA:1743:G:H3'	1:AA:1746:G:H8	1.42	0.85
1:AA:1924:C:H2'	1:AA:1925:C:H6	1.42	0.85
1:AA:2174:C:O2	3:AC:219:GLY:C	2.14	0.85
1:AA:858:U:H2'	1:AA:2268:A:C8	2.11	0.85
1:AA:2447:G:O2'	1:AA:2448:A:OP2	1.93	0.85
1:AA:2658:C:H2'	1:AA:2659:G:O4'	1.74	0.85
1:AA:326:G:H2'	1:AA:327:G:C8	2.10	0.85
1:AA:451:C:H5	1:AA:453:C:H5'	1.41	0.85
1:AA:740:U:O2'	1:AA:741:G:P	2.33	0.85
1:AA:88:G:H5'	1:AA:89:G:OP2	1.75	0.85
4:AD:9:TYR:HH	4:AD:91:ARG:NH2	1.74	0.85
8:AH:126:PRO:HG2	8:AH:132:ARG:HH22	1.41	0.85
32:AJ:123:ALA:CA	32:AJ:127:ILE:HG13	2.05	0.85
32:AJ:28:GLY:O	57:BZ:431:PRO:HG2	1.76	0.85
32:AJ:86:LYS:HD2	32:AJ:87:GLY:N	1.91	0.85
10:AL:10:VAL:CG1	10:AL:17:ARG:HA	2.06	0.85
10:AL:47:ILE:HD11	10:AL:52:VAL:HG13	1.57	0.85
12:AN:28:ALA:O	12:AN:29:PHE:HB2	1.76	0.85
16:AR:49:HIS:CD2	16:AR:52:ARG:NH2	2.44	0.85
17:AS:67:GLY:HA2	17:AS:93:GLU:O	1.77	0.85
18:AT:12:ILE:HG12	18:AT:101:SER:HB2	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:127:LYS:HD2	21:AW:163:LEU:CA	2.06	0.85
34:BA:1288:A:N1	34:BA:1371:G:H1'	1.92	0.85
34:BA:1268:A:C2	34:BA:1311:G:H1'	2.06	0.85
34:BA:731:G:H2'	34:BA:732:C:H6	1.39	0.85
44:BO:99:GLN:HB3	44:BO:105:VAL:HG11	1.56	0.85
46:BQ:12:ASN:CA	46:BQ:44:ARG:O	2.25	0.85
50:BU:44:ALA:HB1	50:BU:72:ARG:HA	1.57	0.85
52:BW:16:LEU:O	52:BW:19:VAL:HG12	1.75	0.85
54:BY:9:ARG:HH12	54:BY:21:TYR:HD2	1.21	0.85
57:BZ:220:VAL:CG2	57:BZ:279:LEU:HB3	1.73	0.85
57:BZ:382:VAL:CG2	57:BZ:569:LEU:HG	2.06	0.85
57:BZ:395:ARG:CG	57:BZ:474:ASP:CG	2.30	0.85
23:AY:4:GLN:HA	23:AY:7:GLU:OE1	1.77	0.85
57:BZ:601:ASN:HA	57:BZ:602:ARG:O	1.77	0.85
1:AA:1308:A:C2	1:AA:1309:G:H1'	2.10	0.85
1:AA:1527:G:H1'	1:AA:1528:A:N3	1.91	0.85
1:AA:1695:G:H2'	1:AA:1696:G:H5'	1.57	0.85
1:AA:2213:U:H3'	1:AA:2213:U:O2	1.75	0.85
1:AA:242:G:H2'	1:AA:254:G:C6	2.11	0.85
1:AA:2650:U:O2'	1:AA:2651:C:H5'	1.76	0.85
1:AA:628:G:H8	1:AA:628:G:O5'	1.56	0.85
1:AA:903:C:O2'	1:AA:904:C:H5'	1.77	0.85
3:AC:42:GLU:C	3:AC:214:VAL:C	2.24	0.85
1:AA:1820:U:C2'	4:AD:202:LYS:HG3	2.06	0.85
5:AE:158:GLY:O	5:AE:160:TYR:HD1	1.59	0.85
10:AL:106:LEU:HD22	15:AQ:39:ARG:NH1	1.90	0.85
10:AL:4:PRO:HG2	10:AL:5:GLN:N	1.91	0.85
2:AB:7:G:H4'	14:AP:29:PHE:HE2	1.37	0.85
18:AT:55:ALA:O	18:AT:58:ALA:HB3	1.76	0.85
19:AU:17:ALA:HB1	19:AU:27:THR:OG1	1.76	0.85
22:AX:38:VAL:HB	22:AX:59:LEU:HD12	1.56	0.85
34:BA:1293:G:H2'	34:BA:1294:G:H8	1.41	0.85
34:BA:1298:C:C5	40:BK:114:ARG:HD3	2.11	0.85
34:BA:1455:G:P	53:BX:32:ALA:O	2.34	0.85
34:BA:118:U:O4	34:BA:288:A:H2'	1.74	0.85
36:BG:191:THR:OG1	36:BG:196:LEU:HD11	1.75	0.85
45:BP:106:ASP:CA	57:BZ:329:ARG:NE	2.39	0.85
34:BA:1286:A:H5'	54:BY:25:LYS:CG	2.06	0.85
1:AA:2797:U:H4'	1:AA:2798:C:C4'	2.05	0.85
1:AA:1144:G:H2'	1:AA:1145:C:H6	1.38	0.85
1:AA:1204:A:H5'	1:AA:1206:G:OP1	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1406:U:H2'	1:AA:1407:C:C6	2.11	0.85
1:AA:1351:C:O2'	1:AA:1571:A:H1'	1.77	0.85
1:AA:2061:G:O2'	1:AA:2062:A:H5''	1.76	0.85
1:AA:2173:A:C4	3:AC:218:MET:HE3	2.11	0.85
1:AA:2176:A:N3	3:AC:44:HIS:HD2	1.73	0.85
3:AC:64:LEU:CD1	3:AC:161:ILE:HG12	2.05	0.85
4:AD:107:ALA:H	4:AD:108:PRO:HD3	1.39	0.85
4:AD:136:ILE:HD13	4:AD:173:VAL:HG11	1.59	0.85
4:AD:9:TYR:CZ	4:AD:25:THR:HG21	2.11	0.85
6:AF:44:ARG:HG3	6:AF:45:ARG:H	1.41	0.85
1:AA:1257:C:H4'	6:AF:83:PHE:CD1	2.11	0.85
1:AA:2748:A:N3	8:AH:67:LEU:CD2	2.38	0.85
12:AN:44:ALA:CA	12:AN:47:ILE:HD12	2.07	0.85
12:AN:7:MET:H	12:AN:70:PRO:CG	1.89	0.85
13:AO:20:LEU:C	13:AO:20:LEU:HD13	1.97	0.85
16:AR:15:LYS:CA	16:AR:18:LEU:HD23	2.07	0.85
16:AR:55:ARG:O	16:AR:58:ARG:HB3	1.75	0.85
1:AA:1154:G:H5''	16:AR:58:ARG:HD3	1.59	0.85
18:AT:48:ALA:O	18:AT:51:LEU:HB2	1.75	0.85
34:BA:1100:C:O2	34:BA:1102:A:H5'	1.76	0.85
34:BA:939:G:H2'	34:BA:940:C:C6	2.11	0.85
35:BF:187:LEU:HD21	35:BF:203:GLY:O	1.76	0.85
35:BF:7:VAL:HG23	35:BF:8:LYS:H	1.42	0.85
39:BJ:95:GLU:H	39:BJ:96:PRO:CD	1.88	0.85
40:BK:23:VAL:HG13	40:BK:43:PHE:CZ	2.12	0.85
40:BK:74:GLU:O	40:BK:88:PRO:HA	1.75	0.85
46:BQ:15:VAL:HG22	46:BQ:39:ILE:HD13	0.92	0.85
34:BA:668:G:H4'	48:BS:48:LYS:O	1.77	0.85
57:BZ:236:GLN:HG2	57:BZ:237:VAL:N	1.89	0.85
56:BD:1:G:C2	56:BD:2:C:N3	2.44	0.85
56:BD:5:G:O6	56:BD:69:G:C6	2.30	0.85
1:AA:1078:U:H5''	32:AJ:137:GLU:CD	1.96	0.85
1:AA:1353:A:H2'	1:AA:1354:A:C8	2.12	0.85
1:AA:2010:G:H2'	1:AA:2011:U:H5'	1.57	0.85
1:AA:2514:U:H2'	1:AA:2515:C:H6	1.41	0.85
1:AA:271(B):G:H5''	1:AA:271(C):U:O4'	1.77	0.85
1:AA:2507:C:C2'	59:AA:3002:8AN:N3	2.39	0.85
1:AA:295:G:C2	1:AA:344:G:H1'	2.12	0.85
3:AC:97:GLU:HG3	3:AC:119:VAL:HB	1.56	0.85
5:AE:101:ARG:HD2	5:AE:169:ASN:HD21	1.42	0.85
6:AF:36:VAL:HG21	6:AF:183:VAL:CG2	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:19:GLU:HB2	9:AK:56:ASN:CB	2.05	0.85
9:AK:68:GLU:N	9:AK:70:LYS:HZ1	1.74	0.85
1:AA:2674:G:H4'	10:AL:26:LYS:NZ	1.91	0.85
11:AM:76:LYS:O	11:AM:115:LEU:HB2	1.75	0.85
11:AM:81:GLN:HA	11:AM:86:LYS:HE3	1.56	0.85
14:AP:99:LYS:HG2	14:AP:103:GLU:OE1	1.76	0.85
14:AP:11:LYS:C	14:AP:14:VAL:HB	1.97	0.85
14:AP:93:LYS:HE2	14:AP:95:HIS:HB3	1.57	0.85
21:AW:78:LYS:HZ2	21:AW:78:LYS:HB3	1.41	0.85
23:AY:45:ILE:HG13	23:AY:46:ARG:H	1.41	0.85
34:BA:1253:G:N1	34:BA:1285:A:N6	2.16	0.85
34:BA:595:G:C8	34:BA:641:U:C4	2.64	0.85
34:BA:1158:C:C1'	35:BF:133:LYS:NZ	2.40	0.85
37:BH:12:CYS:HB3	37:BH:33:MET:HE3	1.58	0.85
41:BL:28:ALA:C	41:BL:32:LYS:HD2	1.97	0.85
46:BQ:22:ILE:O	46:BQ:25:ILE:HG13	1.76	0.85
34:BA:1329:A:OP1	46:BQ:29:ARG:CG	2.25	0.85
34:BA:1453:G:O2'	53:BX:36:LEU:HD13	1.75	0.85
57:BZ:15:ASP:OD2	57:BZ:16:HIS:NE2	2.10	0.85
57:BZ:520:GLU:OE1	57:BZ:593:THR:N	2.10	0.85
57:BZ:496:ALA:N	57:BZ:515:GLY:O	2.09	0.85
55:BC:69:G:C2'	55:BC:70:G:H5''	2.06	0.85
1:AA:987:G:O2'	1:AA:1000:A:H1'	1.77	0.85
1:AA:1061:U:H3	32:AJ:11:GLN:HE22	1.20	0.85
1:AA:1534:G:H21	1:AA:1537:C:H5	1.21	0.85
1:AA:1662:C:H2'	1:AA:1663:C:C6	2.11	0.85
1:AA:1936:A:H5'	1:AA:1937:A:N3	1.92	0.85
1:AA:2246:G:H2'	1:AA:2247:A:C8	2.11	0.85
1:AA:2691:C:C4	1:AA:2719:G:N2	2.45	0.85
1:AA:2714:G:C2'	1:AA:2715:C:H5'	2.07	0.85
1:AA:2124:G:H5''	3:AC:71:GLN:HE22	1.39	0.85
4:AD:234:GLY:N	4:AD:241:PRO:HG2	1.90	0.85
5:AE:8:LYS:HE2	5:AE:8:LYS:CA	2.06	0.85
7:AG:32:PRO:HB2	7:AG:163:ALA:HA	1.59	0.85
32:AJ:99:ILE:O	32:AJ:100:THR:OG1	1.93	0.85
10:AL:52:VAL:CG2	10:AL:53:LYS:N	2.39	0.85
10:AL:57:VAL:HG21	10:AL:85:VAL:HG13	1.58	0.85
16:AR:50:ARG:HH11	16:AR:50:ARG:HB2	1.39	0.85
16:AR:91:ASP:O	16:AR:95:LEU:HD21	1.76	0.85
20:AV:47:LYS:HZ2	20:AV:51:VAL:HG21	1.41	0.85
34:BA:1143:G:H2'	34:BA:1144:G:C8	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1516:G:N2	34:BA:1518:A:H3'	1.92	0.85
34:BA:21:G:H2'	34:BA:22:G:H8	1.38	0.85
34:BA:43:C:H5''	49:BT:12:LYS:CB	2.01	0.85
34:BA:496:A:H4'	34:BA:497:U:OP1	1.74	0.85
36:BG:150:LYS:HA	36:BG:169:ALA:HB2	1.58	0.85
39:BJ:85:VAL:HG11	39:BJ:88:VAL:HG13	1.58	0.85
42:BM:4:TYR:HE1	42:BM:59:PHE:HE2	1.22	0.85
43:BN:61:GLU:HG2	43:BN:62:HIS:H	1.42	0.85
53:BX:63:ILE:HD13	53:BX:80:ARG:HB3	1.56	0.85
56:BD:5:G:H2'	56:BD:6:G:H8	1.38	0.85
1:AA:1057:A:N6	1:AA:1086:A:O2'	2.09	0.85
1:AA:1105:U:H4'	1:AA:1106:G:H5''	1.57	0.85
1:AA:1270:C:C5'	1:AA:1271:G:H5''	2.07	0.85
1:AA:1526:G:H5''	1:AA:1527:G:OP1	1.76	0.85
1:AA:2027:G:H2'	1:AA:2028:U:H6	1.41	0.85
1:AA:2123:G:H4'	3:AC:172:HIS:CE1	2.10	0.85
1:AA:2553:G:H21	1:AA:2554:U:HO2'	1.23	0.85
1:AA:449:A:H2'	1:AA:450:G:O4'	1.77	0.85
1:AA:51:G:H5'	1:AA:52:A:OP1	1.76	0.85
1:AA:587:C:C5	11:AM:30:THR:HG21	2.11	0.85
1:AA:893:C:C2'	1:AA:894:C:H5'	2.07	0.85
1:AA:919:G:H2'	1:AA:920:G:H8	1.39	0.85
2:AB:27:C:N4	2:AB:56:G:N1	2.24	0.85
6:AF:110:LEU:HD11	6:AF:181:LEU:HD23	1.57	0.85
7:AG:135:LEU:HD22	7:AG:136:ARG:N	1.92	0.85
7:AG:74:LYS:HG2	7:AG:75:LYS:HD2	1.58	0.85
7:AG:92:VAL:HG11	7:AG:94:LEU:HD22	1.58	0.85
8:AH:136:ILE:HG23	8:AH:137:ASP:H	1.42	0.85
12:AN:35:VAL:HG23	12:AN:101:ARG:O	1.76	0.85
13:AO:102:GLU:CD	13:AO:103:ARG:H	1.80	0.85
13:AO:51:LEU:HD21	13:AO:70:LEU:HD21	1.59	0.85
14:AP:11:LYS:HD3	14:AP:11:LYS:H	1.42	0.85
14:AP:97:ARG:O	14:AP:100:ALA:HB3	1.77	0.85
14:AP:9:ARG:CA	14:AP:9:ARG:HH11	1.90	0.85
19:AU:39:ILE:HG21	19:AU:54:VAL:HG13	1.57	0.85
22:AX:44:ARG:O	22:AX:77:ARG:HB2	1.76	0.85
34:BA:1165:C:O2'	34:BA:1166:G:H5'	1.75	0.85
34:BA:1229:A:H4'	56:BE:29:G:O3'	1.74	0.85
34:BA:1302:U:H5	46:BQ:13:LYS:HZ2	1.22	0.85
34:BA:1405:G:O6	34:BA:1496:C:N4	2.09	0.85
34:BA:684:A:H2'	34:BA:685:G:C8	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BE:18:G:OP2	56:BE:60:U:O2'	1.92	0.85
35:BF:39:ILE:HG23	35:BF:41:ILE:HD11	1.55	0.85
35:BF:61:LEU:HD23	35:BF:62:ALA:N	1.91	0.85
35:BF:78:GLN:HE22	35:BF:96:ARG:HH12	1.25	0.85
40:BK:138:LYS:HE2	40:BK:142:GLU:OE1	1.75	0.85
41:BL:18:ARG:CA	41:BL:18:ARG:HH11	1.90	0.85
41:BL:21:LYS:O	41:BL:63:LEU:HB3	1.76	0.85
44:BO:78:GLN:O	44:BO:104:GLN:HB3	1.76	0.85
49:BT:35:LYS:NZ	49:BT:37:GLY:H	1.73	0.85
52:BW:30:LEU:HA	52:BW:49:ILE:HA	1.58	0.85
53:BX:43:LEU:HD22	53:BX:48:LYS:HB2	1.58	0.85
57:BZ:13:HIS:NE2	57:BZ:106:MET:CA	2.40	0.85
57:BZ:422:ARG:CZ	57:BZ:480:VAL:O	2.24	0.85
57:BZ:83:GLY:O	57:BZ:85:VAL:N	2.10	0.85
1:AA:1241:A:C3'	1:AA:1241:A:N3	2.39	0.85
1:AA:411:G:N2	1:AA:2408:U:N3	2.24	0.85
1:AA:2659:G:HO2'	1:AA:2663:G:N2	1.73	0.85
1:AA:319:C:H2'	1:AA:320:A:C8	2.11	0.85
1:AA:70:G:O2'	1:AA:71:A:H5'	1.75	0.85
1:AA:976:C:O2'	1:AA:977:G:H5'	1.76	0.85
4:AD:67:PHE:HD1	4:AD:153:ALA:HB3	1.42	0.85
6:AF:4:VAL:C	6:AF:20:LEU:CD1	2.45	0.85
32:AJ:33:ASN:HB3	32:AJ:63:ARG:N	1.92	0.85
10:AL:96:THR:O	10:AL:97:ARG:HB3	1.74	0.85
16:AR:102:GLU:HB3	16:AR:105:VAL:HB	1.58	0.85
18:AT:74:ALA:HB1	18:AT:105:VAL:HG23	1.58	0.85
34:BA:1164:G:O2'	34:BA:1165:C:H5'	1.76	0.85
34:BA:1312:G:O6	34:BA:1326:C:N4	2.10	0.85
34:BA:186(B):C:H4'	53:BX:89:ARG:NH1	1.92	0.85
34:BA:451:A:N6	34:BA:480:U:H2'	1.92	0.85
56:BE:21:A:HO2'	56:BE:22:G:C1'	1.89	0.85
7:AG:82:LEU:CD2	56:BE:52:G:OP2	2.25	0.85
47:BR:13:THR:HG22	47:BR:15:LYS:HB2	1.59	0.85
53:BX:25:ARG:HG2	53:BX:29:LYS:HE3	1.59	0.85
57:BZ:250:LYS:C	57:BZ:273:ILE:HD12	1.97	0.85
57:BZ:378:PHE:N	57:BZ:582:PRO:CG	2.39	0.85
57:BZ:400:TYR:O	57:BZ:442:VAL:HG13	1.77	0.85
57:BZ:545:ASN:CB	57:BZ:546:MET:HA	2.06	0.85
57:BZ:546:MET:HG2	57:BZ:547:ARG:NE	1.90	0.85
1:AA:1582:C:H3'	1:AA:1583:A:H5''	1.59	0.85
1:AA:1037:G:N1	1:AA:1119:C:N3	2.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1667:G:N2	1:AA:1991:U:C4	2.44	0.84
1:AA:1784:A:O2'	1:AA:1785:A:P	2.35	0.84
1:AA:1788:C:H2'	4:AD:222:ARG:CZ	2.06	0.84
1:AA:1941:C:H2'	1:AA:1942:C:O5'	1.77	0.84
1:AA:1996:C:H2'	1:AA:1997:G:H4'	1.59	0.84
1:AA:2124:G:O2'	3:AC:216:THR:HG22	1.76	0.84
1:AA:443:A:H4'	1:AA:1201:C:H5'	1.58	0.84
1:AA:723:G:N2	1:AA:724:U:H1'	1.92	0.84
1:AA:756:C:H2'	1:AA:757:U:H5'	1.59	0.84
2:AB:114:G:H1'	14:AP:38:GLN:NE2	1.92	0.84
2:AB:75:G:H4'	21:AW:36:LYS:HE2	1.56	0.84
4:AD:72:LYS:O	4:AD:74:GLY:N	2.10	0.84
6:AF:18:ARG:C	6:AF:19:GLU:HG3	1.98	0.84
7:AG:36:LYS:CE	7:AG:38:VAL:HG13	2.06	0.84
7:AG:39:ILE:HG23	7:AG:157:ILE:CB	2.05	0.84
8:AH:7:LEU:H	8:AH:8:PRO:CD	1.90	0.84
9:AK:57:ALA:HB3	9:AK:124:ALA:CA	2.07	0.84
11:AM:108:LYS:HD3	11:AM:109:GLY:H	1.40	0.84
1:AA:672:C:O5'	11:AM:38:GLN:NE2	2.10	0.84
12:AN:43:THR:O	12:AN:47:ILE:HG13	1.77	0.84
13:AO:59:ASP:O	13:AO:63:ARG:HG3	1.77	0.84
34:BA:955:U:H1'	34:BA:1227:A:N6	1.90	0.84
34:BA:1310:G:C5	34:BA:1327:C:C4	2.65	0.84
34:BA:1388:C:H2'	34:BA:1389:C:H6	1.42	0.84
34:BA:453:A:C6	34:BA:454:C:N4	2.45	0.84
35:BF:80:ILE:CD1	35:BF:208:ILE:HG23	2.08	0.84
36:BG:21:ARG:HB2	36:BG:58:GLU:HG2	1.59	0.84
48:BS:62:GLN:HA	48:BS:65:ARG:CZ	2.07	0.84
34:BA:266:G:H2'	50:BU:67:LYS:NZ	1.91	0.84
52:BW:30:LEU:HD21	52:BW:50:ALA:HB2	1.59	0.84
52:BW:41:VAL:HB	52:BW:42:PRO:CD	2.07	0.84
57:BZ:398:GLU:OE2	57:BZ:444:PRO:CB	2.24	0.84
57:BZ:29:SER:OG	57:BZ:60:ASN:OD1	1.94	0.84
57:BZ:502:PHE:CE2	57:BZ:555:VAL:CA	2.60	0.84
1:AA:2142:C:H2'	1:AA:2143:C:C6	2.11	0.84
1:AA:1062:G:H1'	1:AA:1063:G:H5'	1.59	0.84
1:AA:1113:U:H2'	1:AA:1114:G:H8	1.41	0.84
1:AA:1137:G:O2'	9:AK:105:GLY:HA3	1.77	0.84
1:AA:1213:A:N6	1:AA:1236:G:H1'	1.92	0.84
1:AA:1814:G:H2'	1:AA:1815:A:N7	1.93	0.84
1:AA:1906:G:C6	1:AA:1929:G:N1	2.45	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2020:A:OP2	16:AR:27:LEU:HD13	1.76	0.84
1:AA:2034:U:H3'	1:AA:2035:G:C5'	2.04	0.84
1:AA:2533:A:H1'	1:AA:2664:G:H4'	1.57	0.84
1:AA:239:U:H1'	1:AA:259:G:N2	1.90	0.84
1:AA:2657:A:H2'	1:AA:2658:C:H5'	1.57	0.84
1:AA:365:C:H2'	1:AA:366:C:H6	1.41	0.84
1:AA:501:A:H8	1:AA:501:A:O5'	1.59	0.84
4:AD:142:VAL:C	4:AD:163:ALA:HB3	1.96	0.84
5:AE:22:PRO:HA	5:AE:185:LYS:HA	1.60	0.84
5:AE:196:VAL:HG12	5:AE:197:ILE:N	1.91	0.84
7:AG:114:ILE:HD12	7:AG:115:ARG:H	1.42	0.84
19:AU:8:ILE:HD11	19:AU:42:ALA:HB2	1.59	0.84
20:AV:86:ARG:HG2	20:AV:91:GLU:HB3	1.59	0.84
22:AX:21:LEU:HD12	22:AX:39:ARG:HB3	1.59	0.84
34:BA:1251:A:H2'	34:BA:1252:A:C8	2.11	0.84
34:BA:859:A:H2'	34:BA:860:A:O4'	1.77	0.84
34:BA:949:A:H3'	46:BQ:102:ARG:CZ	2.04	0.84
39:BJ:98:LEU:HD22	39:BJ:101:ALA:HB2	1.57	0.84
41:BL:26:VAL:HG22	41:BL:27:PRO:CD	2.06	0.84
48:BS:56:LEU:O	48:BS:60:VAL:HG23	1.77	0.84
50:BU:76:LEU:HD11	50:BU:79:SER:OG	1.77	0.84
53:BX:40:ALA:HA	53:BX:55:ILE:CD1	2.06	0.84
34:BA:1244:C:OP2	54:BY:9:ARG:HD3	1.74	0.84
57:BZ:81:PHE:CA	57:BZ:365:HIS:CD2	2.60	0.84
1:AA:1033:U:O3'	1:AA:1034:G:P	2.34	0.84
1:AA:1135:C:H2'	1:AA:1136:G:H8	1.42	0.84
1:AA:578:A:C2'	1:AA:2018:G:H5''	2.07	0.84
1:AA:2453:A:H4'	1:AA:2572:A:O2'	1.76	0.84
1:AA:2581:G:H1	1:AA:2610:C:H6	1.20	0.84
1:AA:2043:C:N4	1:AA:2777:G:N3	2.25	0.84
1:AA:2789:C:H2'	1:AA:2893:G:N2	1.92	0.84
1:AA:6:A:C4	1:AA:2898:U:C2	2.65	0.84
1:AA:511:U:C5	1:AA:512:G:N3	2.46	0.84
1:AA:705:A:H2'	1:AA:705:A:N3	1.91	0.84
1:AA:724:U:O2'	1:AA:725:G:H5'	1.77	0.84
1:AA:727:A:N1	1:AA:729:G:C6	2.45	0.84
6:AF:118:ALA:HB2	6:AF:122:LYS:HE2	1.59	0.84
8:AH:28:GLY:HA3	8:AH:79:VAL:HB	1.56	0.84
9:AK:37:LYS:HA	9:AK:42:TRP:HB2	1.59	0.84
11:AM:52:GLU:HA	11:AM:55:ARG:HG3	1.60	0.84
15:AQ:44:ASP:O	15:AQ:46:GLU:N	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:27:THR:HB	15:AQ:93:ARG:O	1.78	0.84
21:AW:152:ALA:O	21:AW:155:LEU:HD22	1.77	0.84
34:BA:1220:G:N3	52:BW:55:LYS:HA	1.92	0.84
34:BA:979:C:H42	47:BR:18:VAL:HB	1.39	0.84
36:BG:84:ILE:HG13	36:BG:101:LEU:HD22	1.59	0.84
37:BH:20:TYR:CD1	37:BH:21:LEU:N	2.45	0.84
41:BL:126:LYS:NZ	41:BL:127:LEU:HD23	1.91	0.84
41:BL:12:ARG:HD3	41:BL:26:VAL:HG22	1.58	0.84
43:BN:24:VAL:HA	43:BN:34:VAL:HG21	1.59	0.84
46:BQ:87:TYR:OH	52:BW:75:ALA:CB	2.25	0.84
49:BT:53:VAL:O	49:BT:56:ALA:HB3	1.77	0.84
51:BV:53:ARG:HA	51:BV:63:GLN:NE2	1.92	0.84
57:BZ:373:MET:CE	57:BZ:380:LEU:CD2	2.56	0.84
57:BZ:481:GLY:HA2	57:BZ:482:GLN:HB2	1.57	0.84
1:AA:1359:A:H2'	1:AA:1360:A:H5'	1.56	0.84
1:AA:1540:G:C5	1:AA:1541:U:H1'	2.12	0.84
1:AA:1541:U:H2'	1:AA:1541:U:O2	1.77	0.84
1:AA:1543:A:OP2	1:AA:1544:C:C6	2.31	0.84
1:AA:1559:G:C4	1:AA:1559:G:H3'	2.11	0.84
1:AA:1742:C:H3'	1:AA:1743:G:H5''	1.58	0.84
1:AA:1904:G:H2'	1:AA:1905:C:H5'	1.58	0.84
1:AA:2001:A:H2'	1:AA:2002:G:H8	1.42	0.84
1:AA:2323:G:H2'	1:AA:2324:C:C6	2.11	0.84
1:AA:2646:C:H2'	1:AA:2647:U:C6	2.11	0.84
1:AA:31:C:O2'	1:AA:32:C:H5'	1.78	0.84
1:AA:483:A:O3'	20:AV:48:ALA:HB2	1.77	0.84
1:AA:5:A:N1	1:AA:2899:G:C4	2.44	0.84
2:AB:46:A:H2'	2:AB:47:C:H6	1.41	0.84
4:AD:175:LEU:HD22	4:AD:176:ARG:N	1.92	0.84
4:AD:7:LYS:HE2	4:AD:25:THR:HB	1.59	0.84
5:AE:136:ARG:O	5:AE:136:ARG:NH2	2.11	0.84
1:AA:2787:C:H1'	5:AE:61:ARG:HD2	1.60	0.84
6:AF:40:GLN:O	6:AF:44:ARG:HG2	1.75	0.84
7:AG:84:LYS:NZ	56:BE:54:U:C6	2.45	0.84
8:AH:121:ILE:HD11	8:AH:123:PHE:CE1	2.12	0.84
10:AL:2:ILE:HG21	10:AL:32:TYR:HB3	1.58	0.84
12:AN:81:VAL:CG1	12:AN:82:ARG:H	1.87	0.84
13:AO:77:ARG:HB2	13:AO:77:ARG:NH1	1.92	0.84
14:AP:37:ALA:O	14:AP:51:ALA:CB	2.25	0.84
17:AS:11:GLN:O	17:AS:21:ARG:HD2	1.78	0.84
20:AV:82:PRO:CG	20:AV:97:ARG:H	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1271:G:OP1	34:BA:1314:C:H5''	1.77	0.84
34:BA:1510:U:H2'	34:BA:1511:G:C8	2.12	0.84
34:BA:448:A:H2'	34:BA:449:C:H6	1.39	0.84
34:BA:872:A:O2'	34:BA:873:A:H5''	1.76	0.84
35:BF:167:PRO:O	35:BF:169:LYS:N	2.09	0.84
35:BF:91:PRO:HB3	35:BF:152:PHE:CD1	2.12	0.84
40:BK:69:VAL:HG21	40:BK:104:LEU:HD11	1.58	0.84
44:BO:84:VAL:HG22	44:BO:109:VAL:O	1.77	0.84
46:BQ:40:ASN:OD1	46:BQ:42:ALA:HB3	1.77	0.84
49:BT:8:ARG:HH12	49:BT:11:SER:N	1.75	0.84
34:BA:1327:C:OP1	54:BY:20:LYS:HB3	1.76	0.84
57:BZ:238:THR:O	57:BZ:288:VAL:HA	1.75	0.84
57:BZ:373:MET:SD	57:BZ:380:LEU:CD2	2.65	0.84
57:BZ:400:TYR:CE1	57:BZ:444:PRO:CA	2.59	0.84
57:BZ:560:PRO:HB2	57:BZ:562:ARG:CB	2.07	0.84
32:AJ:95:LYS:HE2	32:AJ:95:LYS:HA	1.57	0.84
1:AA:2111:C:H6	1:AA:2111:C:OP2	1.60	0.84
1:AA:1079:C:H41	1:AA:1088:A:H5'	1.40	0.84
1:AA:1263:U:C2	1:AA:1264:G:N2	2.46	0.84
1:AA:1448:G:H4'	1:AA:1543:A:N6	1.91	0.84
1:AA:1458:C:H4'	1:AA:1459:G:C8	2.12	0.84
1:AA:2065:C:H2'	1:AA:2066:C:O4'	1.76	0.84
1:AA:2132:U:H3'	1:AA:2133:G:H5''	1.58	0.84
1:AA:2584:U:H2'	1:AA:2585:U:C6	2.12	0.84
4:AD:232:PRO:HG2	4:AD:247:ALA:HA	1.57	0.84
5:AE:127:ASP:HB2	5:AE:135:HIS:CA	2.07	0.84
5:AE:173:VAL:HG22	5:AE:174:ASP:H	1.40	0.84
7:AG:139:LEU:HB3	7:AG:142:PRO:HB3	1.60	0.84
32:AJ:122:ALA:O	32:AJ:126:MET:HB3	1.78	0.84
32:AJ:55:VAL:HB	32:AJ:56:GLU:HA	1.59	0.84
12:AN:96:VAL:HG12	12:AN:98:LYS:NZ	1.92	0.84
21:AW:79:ARG:HB2	21:AW:80:ARG:NH1	1.92	0.84
34:BA:1231:G:OP1	42:BM:127:LYS:HG2	1.78	0.84
34:BA:327:A:H4'	34:BA:328:C:OP1	1.77	0.84
34:BA:363:A:O2'	34:BA:364:A:H5'	1.76	0.84
34:BA:399:G:H2'	34:BA:400:C:H6	1.42	0.84
34:BA:610:G:O2'	34:BA:611:A:H5'	1.76	0.84
34:BA:6:G:H1	38:BI:96:PRO:HG2	1.38	0.84
34:BA:817:C:O2'	34:BA:818:G:C5'	2.26	0.84
34:BA:910:C:O2'	34:BA:911:U:H5'	1.78	0.84
34:BA:1158:C:C2'	35:BF:133:LYS:HZ1	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:213:LEU:CD2	35:BF:214:ILE:HD13	2.08	0.84
40:BK:15:ASP:CG	40:BK:23:VAL:HG11	1.96	0.84
42:BM:63:ILE:N	42:BM:63:ILE:HD12	1.92	0.84
57:BZ:146:ASP:HA	57:BZ:149:VAL:HG12	1.58	0.84
57:BZ:15:ASP:OD1	57:BZ:106:MET:CG	2.24	0.84
1:AA:1700:A:H3'	1:AA:1701:A:H8	1.41	0.84
1:AA:1971:A:H3'	1:AA:1971:A:H8	1.41	0.84
1:AA:2652:C:C2	1:AA:2670:A:H1'	2.12	0.84
1:AA:1638:C:H5''	1:AA:2710:C:O2'	1.78	0.84
1:AA:2714:G:C6	1:AA:2715:C:C4	2.65	0.84
1:AA:34:C:H2'	1:AA:455:C:H41	1.40	0.84
1:AA:860:U:C5	1:AA:2267:A:H4'	2.12	0.84
1:AA:873:G:H4'	12:AN:65:PHE:CE2	2.12	0.84
2:AB:32:C:H2'	2:AB:33:G:C8	2.13	0.84
3:AC:180:PHE:CZ	3:AC:184:LYS:CD	2.55	0.84
4:AD:175:LEU:O	4:AD:182:LEU:HA	1.78	0.84
4:AD:61:LEU:HD13	4:AD:86:PRO:HD3	1.58	0.84
5:AE:133:LYS:HD2	5:AE:137:HIS:CG	2.13	0.84
5:AE:91:VAL:CG1	5:AE:93:VAL:HG22	2.08	0.84
1:AA:673:C:H4'	6:AF:82:ILE:CD1	2.07	0.84
1:AA:1059:G:C4'	32:AJ:74:ALA:H	1.89	0.84
19:AU:63:LYS:HE2	19:AU:63:LYS:N	1.91	0.84
21:AW:166:SER:OG	21:AW:167:PRO:HD2	1.76	0.84
21:AW:122:ARG:HG2	21:AW:171:ILE:HA	1.56	0.84
34:BA:1064:G:H1'	34:BA:1066:C:N3	1.91	0.84
34:BA:1129:C:N4	34:BA:1139:G:C6	2.45	0.84
34:BA:1378:C:N3	34:BA:1379:G:H1'	1.91	0.84
34:BA:1472:U:O2'	34:BA:1473:A:H5'	1.77	0.84
34:BA:163:C:H2'	34:BA:164:U:O4'	1.77	0.84
34:BA:310:G:H2'	34:BA:311:C:C6	2.12	0.84
10:AL:119:PRO:CB	34:BA:347:G:OP2	2.26	0.84
56:BE:7:A:C4	56:BE:49:C:OP2	2.31	0.84
35:BF:180:LEU:O	35:BF:181:PHE:HB2	1.78	0.84
35:BF:222:ILE:HB	35:BF:226:ARG:HH21	1.42	0.84
35:BF:95:GLN:NE2	35:BF:148:TYR:HB3	1.90	0.84
37:BH:127:THR:C	37:BH:146:ILE:HG22	1.98	0.84
38:BI:31:LEU:HD12	38:BI:129:ILE:CG2	2.07	0.84
41:BL:97:VAL:HG22	41:BL:98:LYS:H	1.41	0.84
42:BM:8:GLY:O	42:BM:76:ALA:HB1	1.77	0.84
51:BV:47:THR:H	51:BV:49:LYS:HZ3	1.25	0.84
57:BZ:230:LYS:HB2	57:BZ:265:THR:HB	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:311:PHE:H	57:BZ:356:PHE:N	1.75	0.84
57:BZ:400:TYR:HB2	57:BZ:442:VAL:CG1	2.04	0.84
57:BZ:62:ALA:HB1	57:BZ:187:TYR:CD2	2.07	0.84
57:BZ:10:ILE:N	57:BZ:74:ASP:N	1.90	0.84
57:BZ:82:GLY:O	57:BZ:111:PHE:CE2	2.31	0.84
1:AA:885:C:N4	1:AA:890:A:O5'	2.10	0.84
1:AA:1144:G:H2'	1:AA:1145:C:C5	2.11	0.84
1:AA:1222:C:H42	1:AA:1227:A:H61	1.23	0.84
1:AA:2226:C:H2'	1:AA:2226:C:O2	1.76	0.84
1:AA:2530:A:C3'	1:AA:2531:A:H5''	2.07	0.84
1:AA:269:U:H3	1:AA:270:A:H62	1.20	0.84
1:AA:2794:C:N3	1:AA:2799:A:N3	2.25	0.84
1:AA:896:A:C2	1:AA:897:C:N1	2.42	0.84
1:AA:901:A:C6	1:AA:902:C:C4	2.64	0.84
3:AC:75:LEU:HD22	3:AC:110:PHE:CZ	2.12	0.84
4:AD:226:MET:HE1	4:AD:237:GLU:O	1.77	0.84
32:AJ:34:ILE:HD13	32:AJ:35:MET:N	1.90	0.84
9:AK:39:ARG:HB3	9:AK:48:MET:HG3	1.60	0.84
10:AL:12:ASP:HB3	10:AL:93:PRO:HG2	1.59	0.84
13:AO:38:VAL:HB	13:AO:39:PRO:CD	2.06	0.84
17:AS:27:ALA:O	17:AS:33:VAL:HG21	1.78	0.84
18:AT:14:PRO:CD	18:AT:78:GLU:OE1	2.26	0.84
20:AV:16:ALA:HB3	20:AV:68:HIS:ND1	1.91	0.84
20:AV:95:LYS:HG3	20:AV:103:GLY:HA3	1.59	0.84
21:AW:51:ALA:C	21:AW:53:ILE:N	2.24	0.84
21:AW:39:VAL:HG21	21:AW:86:VAL:HG23	1.59	0.84
34:BA:1348:U:H4'	42:BM:120:ARG:HH11	1.43	0.84
34:BA:524:G:H2'	34:BA:525:C:C6	2.13	0.84
34:BA:65:U:H4'	34:BA:66:G:C5'	2.06	0.84
36:BG:84:ILE:HA	36:BG:87:LEU:HD12	1.59	0.84
43:BN:60:ARG:HH11	43:BN:60:ARG:N	1.76	0.84
49:BT:3:LYS:HB3	49:BT:3:LYS:NZ	1.92	0.84
50:BU:4:LYS:HE2	50:BU:5:VAL:O	1.78	0.84
51:BV:45:SER:HB3	51:BV:51:LEU:HD11	1.56	0.84
51:BV:74:ARG:HG2	51:BV:74:ARG:HH11	1.43	0.84
53:BX:56:MET:HG2	53:BX:88:VAL:HG21	1.55	0.84
54:BY:18:TYR:HB3	54:BY:22:ARG:O	1.76	0.84
56:BD:25:C:H2'	56:BD:26:A:H8	1.40	0.84
57:BZ:300:LEU:HB2	57:BZ:301:SER:HA	1.59	0.84
1:AA:1006:C:O2'	9:AK:106:MET:HB3	1.78	0.84
1:AA:1006:C:O2	9:AK:106:MET:HG2	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1196:C:H2'	1:AA:1197:G:C8	2.13	0.84
1:AA:1542:G:H1'	1:AA:1543:A:N1	1.91	0.84
1:AA:1660:C:N4	1:AA:2001:A:N6	2.26	0.84
1:AA:530:G:H22	1:AA:2021:C:H3'	1.41	0.84
1:AA:2176:A:H1'	3:AC:215:THR:CB	2.06	0.84
1:AA:2809:A:C4'	1:AA:2811:G:N7	2.41	0.84
1:AA:2821:A:H5''	5:AE:110:GLY:HA3	1.58	0.84
1:AA:514:A:H2	1:AA:515:A:N9	1.75	0.84
1:AA:6:A:H4'	9:AK:132:ALA:O	1.78	0.84
3:AC:163:PHE:HZ	3:AC:192:PHE:CA	1.81	0.84
3:AC:64:LEU:HD12	3:AC:188:ASN:ND2	1.92	0.84
4:AD:117:VAL:HG22	4:AD:126:GLN:HE21	1.40	0.84
4:AD:147:LEU:CG	4:AD:154:LYS:HD2	2.07	0.84
4:AD:108:PRO:HA	4:AD:195:ALA:O	1.76	0.84
6:AF:4:VAL:O	6:AF:20:LEU:HD12	1.76	0.84
8:AH:121:ILE:HG13	8:AH:133:VAL:HG21	1.59	0.84
8:AH:97:ARG:HB3	8:AH:104:GLU:HG3	1.60	0.84
11:AM:138:LEU:HD21	11:AM:145:PRO:HD3	1.58	0.84
1:AA:813:U:OP2	11:AM:26:GLY:HA2	1.77	0.84
11:AM:72:PRO:HG3	11:AM:110:TYR:CD2	2.11	0.84
16:AR:94:ASN:ND2	17:AS:6:LYS:HE3	1.92	0.84
18:AT:64:MET:HG2	18:AT:109:GLU:CG	2.08	0.84
20:AV:81:LYS:HG2	20:AV:96:ILE:HG23	1.60	0.84
21:AW:73:GLN:O	21:AW:87:ASP:HB2	1.77	0.84
22:AX:7:LEU:N	56:BE:74:C:N4	2.25	0.84
24:AZ:26:LEU:HG	24:AZ:35:ARG:NH1	1.91	0.84
24:AZ:54:VAL:HG22	24:AZ:55:ARG:H	1.38	0.84
34:BA:1311:G:N3	34:BA:1327:C:N1	2.25	0.84
34:BA:1270:C:C2'	34:BA:1313:U:H4'	2.06	0.84
34:BA:1327:C:H5''	54:BY:20:LYS:CD	2.07	0.84
34:BA:915:A:C2'	34:BA:916:G:H5'	2.08	0.84
34:BA:959:A:H2'	34:BA:960:U:H4'	1.59	0.84
7:AG:82:LEU:HD22	56:BE:52:G:P	2.16	0.84
37:BH:20:TYR:CA	37:BH:33:MET:SD	2.66	0.84
37:BH:13:ARG:NH2	37:BH:40:PRO:HA	1.92	0.84
57:BZ:11:ILE:HD13	57:BZ:95:VAL:HB	1.60	0.84
57:BZ:8:ILE:C	57:BZ:72:ILE:CG2	2.46	0.84
31:AI:54:ALA:CA	31:AI:84:GLU:C	2.38	0.84
55:BC:27:G:H2'	55:BC:28:G:C8	2.13	0.84
1:AA:1106:G:C6	1:AA:1107:G:C6	2.64	0.84
1:AA:1312:U:H2'	1:AA:1313:U:H6	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2052:G:H1'	5:AE:149:ARG:C	1.97	0.84
1:AA:2122:U:C4'	3:AC:166:ASP:CG	2.46	0.84
1:AA:665:C:H2'	1:AA:666:G:C8	2.12	0.84
1:AA:704:G:N2	1:AA:726:G:O2'	2.10	0.84
1:AA:892:G:O2'	1:AA:893:C:O4'	1.96	0.84
1:AA:917:A:H2'	1:AA:918:A:H5''	1.58	0.84
3:AC:182:PRO:HG2	3:AC:183:GLU:OE2	1.76	0.84
9:AK:33:LEU:HD13	9:AK:34:LEU:HG	1.60	0.84
16:AR:13:LYS:O	16:AR:17:ILE:HG12	1.78	0.84
24:AZ:7:LYS:O	24:AZ:54:VAL:HG23	1.76	0.84
34:BA:1109:C:O2'	34:BA:1110:A:H5'	1.78	0.84
41:BL:95:VAL:CG2	41:BL:133:LEU:HD21	2.07	0.84
53:BX:75:ASN:O	53:BX:78:ALA:HB3	1.78	0.84
57:BZ:396:LYS:HB2	57:BZ:474:ASP:O	1.77	0.84
57:BZ:502:PHE:CE2	57:BZ:555:VAL:C	2.51	0.84
57:BZ:499:PHE:HB2	57:BZ:540:GLY:HA2	1.58	0.84
1:AA:1064:C:C4	1:AA:1065:U:N3	2.46	0.84
1:AA:1068:G:C5'	1:AA:1096:A:H1'	2.07	0.84
1:AA:1085:A:O5'	1:AA:1106:G:P	2.31	0.84
1:AA:1178:C:H2'	1:AA:1179:C:H6	1.37	0.84
1:AA:1180:C:H2'	1:AA:1181:C:C6	2.12	0.84
1:AA:1342:A:H2'	1:AA:1345:C:H41	1.42	0.84
1:AA:1625:C:H2'	1:AA:1626:G:C4'	2.03	0.84
1:AA:1626:G:N2	1:AA:1634:A:H1'	1.92	0.84
1:AA:2197:U:H2'	1:AA:2224:G:H22	1.42	0.84
1:AA:2327:A:C2'	1:AA:2328:A:H8	1.90	0.84
1:AA:2498:C:H2'	1:AA:2499:C:H5''	1.59	0.84
1:AA:2533:A:O4'	1:AA:2664:G:O2'	1.96	0.84
1:AA:221:A:N6	1:AA:265:A:H62	1.74	0.84
1:AA:2667:C:H2'	1:AA:2668:G:H5'	1.59	0.84
1:AA:371:A:H5''	1:AA:423:A:C8	2.12	0.84
1:AA:775:G:N2	1:AA:787:U:C2'	2.41	0.84
1:AA:806:C:H2'	1:AA:807:U:C6	2.12	0.84
2:AB:102:G:C2'	21:AW:73:GLN:HE21	1.91	0.84
3:AC:171:ILE:HD13	3:AC:192:PHE:HE2	1.07	0.84
4:AD:140:THR:O	4:AD:165:ILE:HD13	1.77	0.84
5:AE:41:LYS:C	5:AE:43:GLY:H	1.81	0.84
6:AF:82:ILE:N	6:AF:82:ILE:HD13	1.93	0.84
1:AA:2305:A:O2'	7:AG:136:ARG:HA	1.77	0.84
12:AN:40:ALA:HA	12:AN:98:LYS:HG3	1.60	0.84
13:AO:8:ARG:NE	13:AO:10:LEU:HD11	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:46:GLY:C	13:AO:49:ASP:HB3	1.97	0.84
14:AP:12:PHE:CD1	14:AP:13:ARG:N	2.45	0.84
24:AZ:17:LYS:HA	24:AZ:20:LYS:CE	2.08	0.84
34:BA:1308:U:N3	34:BA:1309:G:C8	2.43	0.84
34:BA:34:C:O2'	34:BA:35:G:H5'	1.77	0.84
34:BA:482:A:N3	34:BA:482:A:H2'	1.93	0.84
34:BA:52:G:H2'	34:BA:53:A:H8	1.43	0.84
34:BA:734:G:H2'	34:BA:735:C:C6	2.13	0.84
34:BA:754:C:H3'	34:BA:754:C:O2	1.78	0.84
36:BG:33:LEU:O	36:BG:36:ASP:HB3	1.77	0.84
38:BI:102:ALA:CB	38:BI:106:PRO:HB2	2.07	0.84
42:BM:55:ALA:CB	42:BM:58:HIS:HE1	1.78	0.84
43:BN:34:VAL:HA	43:BN:74:ILE:HG12	1.59	0.84
44:BO:58:PRO:HB2	44:BO:93:GLN:CB	2.07	0.84
46:BQ:64:TRP:CE2	46:BQ:66:LEU:HD22	2.13	0.84
49:BT:4:ILE:N	49:BT:4:ILE:HD13	1.92	0.84
49:BT:74:LEU:O	49:BT:77:ALA:HB3	1.77	0.84
52:BW:15:LEU:HD11	52:BW:71:LEU:HD12	1.58	0.84
55:BC:6:G:C2'	55:BC:7:A:H5'	2.07	0.84
1:AA:1438:U:C2'	1:AA:1439:A:H5'	2.08	0.83
1:AA:2369:A:H2'	1:AA:2370:G:H8	1.39	0.83
1:AA:2399:G:N2	1:AA:2400:G:H1'	1.93	0.83
1:AA:718:A:H3'	1:AA:719:C:H6	1.42	0.83
1:AA:90:U:O2'	1:AA:91:A:H5''	1.77	0.83
2:AB:13:A:H2	2:AB:69:G:H21	1.24	0.83
3:AC:62:VAL:HB	3:AC:191:ALA:C	1.98	0.83
3:AC:44:HIS:HE1	3:AC:215:THR:O	1.59	0.83
6:AF:157:VAL:O	6:AF:194:MET:HB2	1.78	0.83
8:AH:125:VAL:HA	8:AH:131:VAL:HG22	1.59	0.83
8:AH:124:GLU:OE1	8:AH:133:VAL:HA	1.78	0.83
32:AJ:106:GLU:HA	32:AJ:109:LYS:HG3	1.58	0.83
10:AL:64:ARG:CG	10:AL:64:ARG:HH21	1.90	0.83
10:AL:7:TYR:H	10:AL:7:TYR:HD1	0.88	0.83
1:AA:2416:C:OP1	11:AM:59:LEU:CA	2.25	0.83
13:AO:83:ILE:HD12	13:AO:86:ARG:HE	1.42	0.83
15:AQ:112:ARG:CZ	34:BA:1464:G:P	2.66	0.83
10:AL:77:ILE:HD13	15:AQ:65:LYS:HE2	1.60	0.83
15:AQ:6:LEU:HD23	15:AQ:7:ILE:H	1.39	0.83
16:AR:55:ARG:NH1	16:AR:55:ARG:HG2	1.87	0.83
17:AS:49:THR:CG2	17:AS:50:PRO:HD2	2.08	0.83
17:AS:96:ILE:HD12	17:AS:96:ILE:O	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AX:54:GLY:O	22:AX:56:ASP:N	2.10	0.83
34:BA:1073:U:H2'	34:BA:1074:G:H8	1.41	0.83
34:BA:1268:A:N3	34:BA:1311:G:N3	2.25	0.83
34:BA:1269:A:C4'	34:BA:1312:G:H21	1.89	0.83
34:BA:1415:G:O6	34:BA:1486:G:O6	1.95	0.83
34:BA:1494:G:OP2	34:BA:1494:G:H3'	1.77	0.83
34:BA:474:G:H5'	49:BT:81:ARG:HG3	1.60	0.83
34:BA:944:G:C3'	34:BA:945:G:H5''	2.08	0.83
34:BA:949:A:H3'	46:BQ:102:ARG:HH11	1.42	0.83
35:BF:215:LEU:O	35:BF:218:ALA:HB3	1.78	0.83
35:BF:219:VAL:HG13	35:BF:222:ILE:HD11	1.60	0.83
35:BF:88:ALA:CB	35:BF:219:VAL:HG22	2.05	0.83
37:BH:57:ARG:HG3	37:BH:202:LEU:O	1.77	0.83
43:BN:30:SER:HB3	43:BN:80:LYS:HG3	1.59	0.83
43:BN:94:VAL:HG12	43:BN:95:GLU:N	1.93	0.83
45:BP:83:VAL:CG2	45:BP:104:VAL:HB	2.07	0.83
48:BS:64:ARG:HA	48:BS:67:LEU:HD12	1.58	0.83
52:BW:11:VAL:O	52:BW:15:LEU:HG	1.77	0.83
57:BZ:204:PRO:O	57:BZ:228:ARG:C	2.16	0.83
57:BZ:210:SER:CA	57:BZ:284:ILE:HG23	2.06	0.83
57:BZ:426:LEU:HD13	57:BZ:441:TYR:HE1	1.09	0.83
1:AA:2660:A:N1	57:BZ:453:SER:O	2.11	0.83
57:BZ:75:THR:CG2	57:BZ:84:GLU:OE1	2.26	0.83
56:BD:47:U:H2'	56:BD:47:U:OP1	1.78	0.83
57:BZ:39:GLN:N	57:BZ:40:GLU:HA	1.92	0.83
1:AA:1061:U:O5'	32:AJ:52:ILE:HD11	1.77	0.83
1:AA:1066:U:H1'	1:AA:1069:A:OP2	1.77	0.83
1:AA:1068:G:O4'	1:AA:1096:A:C1'	2.18	0.83
1:AA:1794:U:O2'	1:AA:1795:C:H5'	1.78	0.83
1:AA:2052:G:H2'	1:AA:2053:G:H8	1.41	0.83
1:AA:2533:A:C5'	1:AA:2664:G:O2'	2.26	0.83
1:AA:422:A:N3	1:AA:422:A:H2'	1.92	0.83
1:AA:775:G:H5'	1:AA:777:A:H1'	1.59	0.83
4:AD:172:TYR:HB3	4:AD:184:LYS:HG2	1.60	0.83
5:AE:131:ALA:HB1	5:AE:134:ILE:HG13	1.60	0.83
8:AH:29:PRO:HD3	8:AH:79:VAL:O	1.78	0.83
8:AH:66:GLY:O	8:AH:69:ARG:HG2	1.79	0.83
10:AL:7:TYR:HB3	10:AL:18:LYS:HZ1	1.43	0.83
14:AP:106:ARG:HH22	14:AP:110:LEU:HD13	1.39	0.83
14:AP:11:LYS:HA	14:AP:14:VAL:CG2	2.08	0.83
1:AA:533:G:OP2	16:AR:25:TRP:HB2	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:13:ILE:HG23	24:AZ:14:GLY:N	1.93	0.83
24:AZ:40:THR:HG22	24:AZ:42:ALA:H	1.41	0.83
24:AZ:8:LEU:HD12	24:AZ:31:LEU:O	1.78	0.83
34:BA:1058:G:H2'	34:BA:1059:C:O4'	1.75	0.83
34:BA:1085:U:H5'	34:BA:1094:G:N2	1.93	0.83
34:BA:1466:C:H3'	34:BA:1467:G:C8	2.12	0.83
34:BA:317:G:O2'	34:BA:318:G:H5'	1.78	0.83
34:BA:789:U:H6	34:BA:790:A:H5''	1.43	0.83
34:BA:872:A:C2'	34:BA:873:A:H5''	2.08	0.83
41:BL:40:ALA:CA	41:BL:45:ILE:HG23	2.08	0.83
41:BL:41:ARG:NH1	41:BL:41:ARG:HB3	1.93	0.83
34:BA:37:U:OP2	45:BP:123:LYS:HD2	1.76	0.83
46:BQ:15:VAL:HB	46:BQ:34:LEU:CG	2.05	0.83
39:BJ:97:PHE:CD2	51:BV:31:LEU:HD13	2.13	0.83
57:BZ:572:ILE:HA	57:BZ:576:GLU:OE1	1.76	0.83
1:AA:1028:A:OP2	1:AA:1126:A:N6	2.11	0.83
1:AA:1315:C:H2'	1:AA:1316:U:C6	2.13	0.83
1:AA:1349:A:H2	1:AA:1598:C:N3	1.75	0.83
1:AA:1375:C:H2'	1:AA:1376:C:C6	2.13	0.83
1:AA:1783:A:H5''	1:AA:1784:A:OP1	1.78	0.83
1:AA:2334:G:H22	2:AB:12:C:H42	1.23	0.83
1:AA:2658:C:N4	1:AA:2664:G:N2	2.25	0.83
1:AA:2847:U:H3'	15:AQ:99:LEU:HD11	1.59	0.83
1:AA:2847:U:H3'	15:AQ:99:LEU:HD12	1.58	0.83
1:AA:414:C:H1'	1:AA:1864:U:H1'	1.61	0.83
1:AA:640:C:H2'	1:AA:641:C:H5'	1.58	0.83
1:AA:702:G:O2'	1:AA:703:U:H5'	1.78	0.83
1:AA:775:G:C2'	1:AA:794:G:N7	2.41	0.83
1:AA:784:A:OP1	1:AA:2588:G:H5''	1.78	0.83
1:AA:996:A:H2'	1:AA:997:G:H8	1.43	0.83
4:AD:54:ARG:C	4:AD:219:PRO:HD2	1.99	0.83
5:AE:118:LYS:HE2	5:AE:118:LYS:CA	2.08	0.83
7:AG:163:ALA:HB2	7:AG:172:LEU:CD2	2.08	0.83
1:AA:558:G:P	9:AK:112:LEU:HG	2.18	0.83
9:AK:18:ALA:HB3	9:AK:55:VAL:O	1.77	0.83
1:AA:811:U:C4	11:AM:22:GLY:HA3	2.13	0.83
14:AP:57:LYS:HZ2	14:AP:65:VAL:CA	1.90	0.83
15:AQ:15:VAL:HG12	15:AQ:16:ARG:O	1.78	0.83
16:AR:32:PHE:O	16:AR:35:ALA:HB3	1.78	0.83
1:AA:456:C:H5	19:AU:68:ARG:NH1	1.76	0.83
34:BA:1394:A:H62	34:BA:1501:C:H5'	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:91:C:H2'	34:BA:92:G:C8	2.13	0.83
56:BE:18:G:OP2	56:BE:61:C:O5'	1.96	0.83
36:BG:11:ARG:HG3	36:BG:16:ARG:HH21	1.40	0.83
37:BH:197:PRO:O	37:BH:198:VAL:HG13	1.78	0.83
41:BL:75:ARG:HB2	41:BL:75:ARG:CZ	2.07	0.83
46:BQ:19:LEU:CG	46:BQ:30:ALA:HA	2.07	0.83
46:BQ:70:LEU:O	46:BQ:70:LEU:HD12	1.77	0.83
49:BT:21:VAL:HG13	49:BT:36:ILE:CD1	2.07	0.83
52:BW:11:VAL:HG12	52:BW:15:LEU:HB2	1.58	0.83
57:BZ:122:LYS:CE	57:BZ:155:ASP:O	2.26	0.83
57:BZ:239:ILE:HG12	57:BZ:244:GLY:HA2	1.58	0.83
32:AJ:15:GLY:H	32:AJ:45:THR:CB	1.88	0.83
34:BA:233:C:O2'	34:BA:234:C:H5'	1.78	0.83
1:AA:1156:A:OP1	16:AR:55:ARG:CZ	2.26	0.83
1:AA:1312:U:H5''	19:AU:62:LYS:HB3	1.59	0.83
1:AA:1692:U:H1'	1:AA:1696:G:N2	1.93	0.83
1:AA:2026:C:O2'	1:AA:2027:G:H5'	1.79	0.83
1:AA:2152:G:OP1	3:AC:3:HIS:CA	2.27	0.83
1:AA:2557:G:H2'	1:AA:2558:C:H6	1.43	0.83
1:AA:2675:A:O2'	1:AA:2676:C:H5'	1.78	0.83
1:AA:2808:U:C3'	1:AA:2809:A:H5''	2.08	0.83
1:AA:281:G:N2	1:AA:282:A:N7	2.25	0.83
3:AC:43:VAL:HG13	3:AC:224:ILE:HG12	1.59	0.83
4:AD:221:VAL:O	4:AD:222:ARG:HG3	1.77	0.83
6:AF:103:LYS:CA	6:AF:106:ARG:HG2	2.08	0.83
6:AF:41:LEU:HA	6:AF:44:ARG:NE	1.92	0.83
7:AG:169:ALA:O	7:AG:172:LEU:HB3	1.78	0.83
9:AK:104:LYS:HA	9:AK:117:PHE:CZ	2.13	0.83
9:AK:23:LEU:CD2	9:AK:61:ARG:O	2.26	0.83
1:AA:623:G:C8	11:AM:105:LEU:HD13	2.14	0.83
13:AO:18:LEU:HB3	13:AO:22:ARG:HH21	1.42	0.83
15:AQ:48:ILE:HD13	15:AQ:50:ILE:CD1	2.09	0.83
15:AQ:5:ALA:O	15:AQ:9:LEU:HG	1.79	0.83
20:AV:50:ARG:HG3	20:AV:54:LYS:HB2	1.60	0.83
34:BA:628:G:H2'	34:BA:629:G:H8	1.42	0.83
34:BA:915:A:H2'	34:BA:916:G:H5'	1.59	0.83
35:BF:188:ALA:HB1	35:BF:192:SER:OG	1.78	0.83
38:BI:72:GLN:NE2	38:BI:144:THR:HG23	1.93	0.83
40:BK:69:VAL:HG21	40:BK:104:LEU:CD1	2.09	0.83
40:BK:155:ARG:HA	40:BK:155:ARG:NH1	1.93	0.83
44:BO:126:ARG:HB3	44:BO:126:ARG:NH1	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:40:ILE:N	44:BO:40:ILE:HD13	1.93	0.83
50:BU:29:HIS:ND1	50:BU:31:LEU:N	2.26	0.83
34:BA:564:C:C5	50:BU:31:LEU:HD21	2.14	0.83
51:BV:53:ARG:HH22	51:BV:60:ALA:N	1.76	0.83
34:BA:1221:G:P	52:BW:52:TYR:O	2.36	0.83
57:BZ:13:HIS:HB3	57:BZ:109:THR:CG2	2.09	0.83
57:BZ:170:GLY:O	57:BZ:179:MET:HB2	1.75	0.83
57:BZ:240:ILE:HB	57:BZ:286:ASP:CG	1.96	0.83
57:BZ:379:GLU:HA	57:BZ:580:VAL:O	1.77	0.83
1:AA:883:G:H2'	1:AA:884:C:C5'	2.07	0.83
7:AG:91:ARG:HB2	7:AG:91:ARG:NH2	1.91	0.83
1:AA:1139:G:H2'	1:AA:1140:C:H5''	1.59	0.83
1:AA:1775:U:H2'	1:AA:1776:G:O4'	1.78	0.83
1:AA:1971:A:H3'	1:AA:1971:A:C8	2.13	0.83
1:AA:2329:G:H22	1:AA:2386:C:N4	1.75	0.83
1:AA:2791:C:P	1:AA:2791:C:H3'	2.18	0.83
3:AC:44:HIS:CE1	3:AC:215:THR:O	2.31	0.83
4:AD:51:VAL:HB	4:AD:52:ARG:NE	1.93	0.83
6:AF:18:ARG:HG2	6:AF:18:ARG:HH11	1.43	0.83
6:AF:38:ARG:NH1	11:AM:10:PRO:HA	1.93	0.83
8:AH:11:VAL:CG2	8:AH:50:VAL:HG21	2.07	0.83
8:AH:175:LYS:HG3	8:AH:176:ALA:H	1.42	0.83
32:AJ:75:SER:HA	32:AJ:130:SER:HB3	1.60	0.83
32:AJ:37:PHE:HZ	32:AJ:63:ARG:HD3	1.04	0.83
32:AJ:99:ILE:CG2	32:AJ:103:GLN:OE1	2.26	0.83
9:AK:3:THR:HG22	9:AK:4:TYR:H	1.42	0.83
9:AK:70:LYS:NZ	9:AK:86:PRO:HB3	1.93	0.83
9:AK:78:TYR:O	9:AK:79:PRO:C	2.17	0.83
15:AQ:30:VAL:HG21	15:AQ:90:GLN:HA	1.59	0.83
16:AR:99:ALA:HA	16:AR:106:PHE:CG	2.14	0.83
17:AS:9:GLY:O	17:AS:10:LYS:HB2	1.76	0.83
17:AS:27:ALA:HB1	17:AS:33:VAL:CG1	2.09	0.83
18:AT:59:VAL:CA	18:AT:63:ASP:HA	2.07	0.83
21:AW:113:ALA:HB1	21:AW:145:GLU:OE1	1.79	0.83
21:AW:177:PRO:HG2	21:AW:178:GLU:H	1.44	0.83
1:AA:931:G:H21	24:AZ:24:LYS:HB3	1.39	0.83
34:BA:186(A):C:H1'	53:BX:104:LEU:HD23	1.59	0.83
55:BC:16:U:H3'	55:BC:17:C:C5'	2.08	0.83
35:BF:209:ARG:NH1	35:BF:213:LEU:HD12	1.94	0.83
35:BF:71:VAL:HG22	35:BF:93:VAL:HB	1.60	0.83
36:BG:190:ARG:HE	36:BG:190:ARG:HA	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:111:ARG:HD2	40:BK:123:GLU:HB2	1.60	0.83
46:BQ:25:ILE:CD1	46:BQ:66:LEU:HD21	2.08	0.83
46:BQ:87:TYR:N	52:BW:73:GLU:O	1.99	0.83
46:BQ:91:ARG:CB	46:BQ:98:VAL:HA	2.08	0.83
57:BZ:52:ARG:HA	57:BZ:52:ARG:NE	1.92	0.83
1:AA:1046:A:N3	31:AI:11:ALA:HB3	1.92	0.83
1:AA:1069:A:O2'	1:AA:1071:G:OP1	1.96	0.83
1:AA:1460:A:H5'	1:AA:1461:G:OP2	1.79	0.83
1:AA:1559:G:N1	1:AA:1560:G:C4'	2.39	0.83
1:AA:2089:U:H2'	1:AA:2090:G:H8	1.42	0.83
1:AA:2438:U:H4'	1:AA:2440:C:OP1	1.78	0.83
1:AA:197:A:H62	1:AA:248:G:H22	1.24	0.83
1:AA:2862:G:H2'	1:AA:2863:C:C6	2.12	0.83
1:AA:949:C:H2'	1:AA:950:G:H8	1.42	0.83
4:AD:106:ILE:HG13	4:AD:108:PRO:HD3	1.58	0.83
4:AD:21:PHE:O	4:AD:205:VAL:HG22	1.79	0.83
4:AD:51:VAL:CB	4:AD:52:ARG:CZ	2.53	0.83
7:AG:52:ILE:HG12	7:AG:148:MET:SD	2.19	0.83
8:AH:7:LEU:HG	8:AH:51:ARG:NH2	1.93	0.83
10:AL:121:VAL:HG12	15:AQ:70:VAL:O	1.78	0.83
1:AA:2416:C:C5'	11:AM:59:LEU:HB2	2.05	0.83
13:AO:20:LEU:HD21	13:AO:24:GLN:CG	2.07	0.83
23:AY:12:SER:HB3	23:AY:13:PRO:CD	2.09	0.83
34:BA:1454:G:C4	34:BA:1455:G:N7	2.47	0.83
34:BA:228:A:H2'	34:BA:229:U:H5'	1.61	0.83
34:BA:370:C:O2'	34:BA:371:G:H5'	1.78	0.83
36:BG:73:PRO:HB3	36:BG:105:GLU:OE1	1.78	0.83
36:BG:12:LEU:CG	47:BR:57:ARG:HG3	2.08	0.83
37:BH:31:CYS:O	37:BH:33:MET:HG2	1.78	0.83
37:BH:7:PRO:O	37:BH:10:ARG:HB3	1.77	0.83
39:BJ:50:TYR:OH	51:BV:77:GLY:HA2	1.77	0.83
48:BS:39:LEU:CD2	48:BS:56:LEU:HD22	2.08	0.83
57:BZ:153:ALA:CB	57:BZ:156:GLU:HB3	2.07	0.83
56:BD:4:C:N4	56:BD:69:G:C6	2.41	0.83
1:AA:1068:G:O2'	1:AA:1096:A:O3'	1.95	0.83
1:AA:1113:U:H2'	1:AA:1114:G:C8	2.12	0.83
1:AA:1041:C:O2	1:AA:1115:G:C6	2.32	0.83
1:AA:1202:C:C4	1:AA:1203:G:C1'	2.57	0.83
1:AA:1700:A:H2'	1:AA:1701:A:C5'	2.07	0.83
1:AA:2176:A:OP1	3:AC:222:VAL:CG2	2.25	0.83
1:AA:2253:G:N2	56:BE:75:C:C1'	2.17	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2305:A:H8	1:AA:2306:C:C5'	1.91	0.83
1:AA:251:A:H2'	1:AA:252:G:C4'	2.08	0.83
1:AA:24:G:H2'	1:AA:25:U:C6	2.13	0.83
1:AA:270(A):A:H5'	1:AA:270(B):A:OP2	1.78	0.83
1:AA:824:A:H5''	1:AA:825:C:OP2	1.78	0.83
1:AA:904:C:O2'	1:AA:905:U:H5'	1.77	0.83
4:AD:232:PRO:CD	4:AD:247:ALA:HA	2.08	0.83
6:AF:52:LYS:O	6:AF:53:THR:HG23	1.78	0.83
7:AG:53:LEU:HD23	7:AG:71:THR:N	1.92	0.83
12:AN:112:GLU:HA	12:AN:115:MET:HG3	1.60	0.83
14:AP:73:LEU:HD13	14:AP:73:LEU:H	1.44	0.83
18:AT:4:LYS:HA	18:AT:106:ILE:CD1	2.08	0.83
18:AT:18:ARG:HD3	18:AT:76:VAL:HG12	1.59	0.83
34:BA:1247:U:H2'	34:BA:1248:A:H8	1.42	0.83
34:BA:1342:C:H4'	42:BM:125:TYR:HB2	1.57	0.83
34:BA:1405:G:N2	34:BA:1517:G:N2	2.22	0.83
34:BA:279:A:C5'	34:BA:280:C:H3'	2.08	0.83
34:BA:761:G:C5'	50:BU:102:GLY:HA3	2.07	0.83
56:BE:15:G:C2	56:BE:16:U:C5	2.67	0.83
56:BE:2:C:C6	56:BE:71:G:C6	2.67	0.83
35:BF:165:VAL:HG23	35:BF:166:ASP:H	1.43	0.83
37:BH:18:LYS:HA	37:BH:33:MET:CE	2.07	0.83
37:BH:29:PRO:HA	37:BH:34:GLU:HG2	1.59	0.83
38:BI:115:VAL:HG21	38:BI:118:ILE:HD12	1.61	0.83
40:BK:99:LEU:O	40:BK:103:TRP:HB2	1.76	0.83
49:BT:72:ARG:HH21	49:BT:73:LEU:HD23	1.43	0.83
57:BZ:13:HIS:CB	57:BZ:108:GLN:CG	2.55	0.83
57:BZ:163:VAL:HG12	57:BZ:164:TYR:N	1.91	0.83
1:AA:111:A:H2'	1:AA:112:U:C6	2.14	0.83
1:AA:1359:A:N6	1:AA:1371:G:H21	1.76	0.83
1:AA:1530:G:H22	1:AA:1541:U:H2'	1.43	0.83
1:AA:1299:G:N2	1:AA:1640:C:H5'	1.94	0.83
1:AA:1943:U:C1'	1:AA:1945:G:H5''	2.09	0.83
1:AA:2037:G:H2'	1:AA:2038:G:C8	2.13	0.83
1:AA:2670:A:C2	1:AA:2671:A:C4	2.67	0.83
1:AA:606:U:O5'	1:AA:606:U:H6	1.60	0.83
1:AA:727:A:N3	1:AA:727:A:H2'	1.91	0.83
2:AB:12:C:C5'	22:AX:74:ARG:HG2	2.08	0.83
3:AC:183:GLU:H	3:AC:183:GLU:CD	1.80	0.83
6:AF:128:ALA:HA	6:AF:142:TRP:CH2	2.14	0.83
6:AF:157:VAL:CG1	6:AF:176:LEU:HD23	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:77:ILE:CA	7:AG:83:ARG:HE	1.91	0.83
10:AL:43:VAL:HG11	10:AL:54:GLU:CD	1.99	0.83
12:AN:53:ALA:O	12:AN:56:ARG:HG3	1.79	0.83
14:AP:57:LYS:HZ3	14:AP:62:LYS:HG3	1.43	0.83
18:AT:33:ARG:HH12	18:AT:48:ALA:HB2	1.43	0.83
18:AT:6:ILE:CG1	18:AT:104:THR:HA	2.08	0.83
21:AW:127:LYS:HD3	21:AW:165:VAL:HG23	1.60	0.83
2:AB:75:G:H2'	21:AW:85:HIS:HE1	1.43	0.83
23:AY:28:MET:HA	23:AY:31:ARG:HG3	1.61	0.83
34:BA:179:A:H3'	34:BA:180:U:C5	2.13	0.83
34:BA:264:U:H2'	34:BA:264:U:O2	1.78	0.83
10:AL:116:SER:HB3	34:BA:345:C:C2	2.14	0.83
34:BA:570:G:N1	34:BA:866:C:N4	2.26	0.83
34:BA:657:G:H2'	34:BA:658:G:H5'	1.61	0.83
35:BF:82:ARG:HB2	35:BF:94:ASN:ND2	1.94	0.83
38:BI:136:MET:O	38:BI:139:LEU:HB2	1.79	0.83
44:BO:41:THR:OG1	44:BO:71:LYS:HD3	1.78	0.83
44:BO:95:ILE:HA	44:BO:98:LEU:CD1	2.08	0.83
36:BG:12:LEU:HD21	47:BR:57:ARG:CG	2.07	0.83
50:BU:25:ARG:NH2	50:BU:40:LYS:HD3	1.92	0.83
52:BW:9:VAL:HG21	52:BW:43:GLU:N	1.93	0.83
34:BA:1225:A:C4'	52:BW:78:ARG:CB	2.54	0.83
57:BZ:564:THR:HG22	57:BZ:566:GLU:CD	1.99	0.83
57:BZ:40:GLU:N	57:BZ:41:ARG:O	2.11	0.83
1:AA:1079:C:OP1	32:AJ:137:GLU:OE2	1.97	0.83
1:AA:1266:G:N7	18:AT:16:LYS:HD2	1.93	0.83
1:AA:1547:C:O2'	1:AA:1548:C:H5'	1.77	0.83
1:AA:176:G:H2'	1:AA:177:G:C8	2.13	0.83
1:AA:1983:C:O2'	1:AA:1984:G:H5'	1.79	0.83
1:AA:2756:U:N3	1:AA:2758:A:C6	2.46	0.83
1:AA:576:U:H2'	1:AA:577:G:C8	2.13	0.83
1:AA:806:C:H2'	1:AA:807:U:H6	1.41	0.83
1:AA:811:U:O4	11:AM:22:GLY:CA	2.25	0.83
1:AA:873:G:C5	1:AA:874:G:C8	2.67	0.83
4:AD:118:VAL:O	4:AD:129:ASN:HA	1.79	0.83
4:AD:5:LYS:HB3	4:AD:29:PRO:HD3	1.59	0.83
4:AD:96:HIS:CE1	4:AD:102:LYS:HD3	2.12	0.83
5:AE:12:THR:HG21	5:AE:19:ARG:NH2	1.93	0.83
5:AE:49:LEU:HD13	5:AE:76:ARG:CG	2.09	0.83
7:AG:68:PRO:CB	7:AG:72:ARG:HH22	1.90	0.83
11:AM:107:LYS:HZ3	11:AM:110:TYR:HB3	1.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:92:GLU:OE1	11:AM:126:VAL:HG13	1.79	0.83
12:AN:42:ILE:CG2	12:AN:95:ALA:HB3	2.09	0.83
12:AN:96:VAL:HG12	12:AN:98:LYS:HZ3	1.42	0.83
10:AL:77:ILE:HD13	15:AQ:65:LYS:CE	2.09	0.83
18:AT:90:ARG:NH2	18:AT:90:ARG:H	1.76	0.83
20:AV:74:PRO:HG2	20:AV:76:CYS:HB3	1.61	0.83
21:AW:42:VAL:HG12	21:AW:46:LYS:NZ	1.93	0.83
2:AB:76:G:H4'	21:AW:85:HIS:HB2	1.58	0.83
35:BF:81:VAL:HG12	35:BF:92:TYR:CD1	2.13	0.83
39:BJ:48:LEU:HD12	39:BJ:50:TYR:O	1.79	0.83
41:BL:33:GLU:HA	41:BL:36:LEU:HD21	1.61	0.83
34:BA:523:A:H61	45:BP:53:ARG:HH22	1.23	0.83
46:BQ:60:VAL:HG12	46:BQ:64:TRP:CD1	2.14	0.83
49:BT:20:VAL:HA	49:BT:36:ILE:CG1	2.08	0.83
50:BU:75:ARG:NH2	50:BU:77:VAL:HG22	1.94	0.83
57:BZ:406:ASP:HA	57:BZ:407:VAL:CB	2.08	0.83
57:BZ:447:GLY:HA3	57:BZ:480:VAL:HG21	1.60	0.83
57:BZ:379:GLU:CB	57:BZ:581:THR:HG22	2.08	0.83
57:BZ:499:PHE:CB	57:BZ:540:GLY:C	2.47	0.83
1:AA:1913:A:C4'	1:AA:1914:C:H5'	2.08	0.83
1:AA:1075:C:H1'	32:AJ:90:LYS:NZ	1.94	0.83
1:AA:2091:U:C2'	1:AA:2092:U:H5'	2.09	0.83
1:AA:2246:G:C2	1:AA:2247:A:C5	2.67	0.83
1:AA:1864:U:H4'	1:AA:2409:G:H22	1.44	0.83
1:AA:2446:G:O2'	1:AA:2448:A:H5''	1.79	0.83
1:AA:2602:A:N3	22:AX:1:MET:HA	1.91	0.83
1:AA:2688:U:H2'	1:AA:2688:U:O2	1.78	0.83
1:AA:295:G:O2'	1:AA:296:C:H5'	1.78	0.83
1:AA:448:U:O2	1:AA:448:U:H2'	1.79	0.83
1:AA:576:U:H2'	1:AA:577:G:H8	1.42	0.83
1:AA:895:U:O3'	1:AA:897:C:OP2	1.97	0.83
1:AA:960:A:H5''	1:AA:961:C:OP1	1.79	0.83
2:AB:12:C:O4'	22:AX:74:ARG:NE	2.10	0.83
1:AA:2152:G:H5'	3:AC:2:LYS:HB2	1.61	0.83
3:AC:46:LYS:HG3	3:AC:211:SER:CA	2.07	0.83
5:AE:14:ILE:H	5:AE:14:ILE:HD12	1.42	0.83
5:AE:154:LYS:NZ	5:AE:156:MET:HB2	1.94	0.83
5:AE:91:VAL:HG11	5:AE:93:VAL:HG22	1.61	0.83
6:AF:9:ILE:HG21	6:AF:124:LEU:HB3	1.60	0.83
7:AG:84:LYS:HZ3	56:BE:54:U:H5	1.25	0.83
7:AG:87:PRO:O	7:AG:88:ILE:HG13	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:115:VAL:HG12	34:BA:345:C:C2'	2.09	0.83
11:AM:117:GLU:O	11:AM:121:LYS:HG2	1.77	0.83
16:AR:81:HIS:O	16:AR:84:LYS:HB2	1.78	0.83
18:AT:14:PRO:C	18:AT:16:LYS:HZ1	1.82	0.83
20:AV:2:ARG:CD	20:AV:3:VAL:H	1.91	0.83
34:BA:1344:C:H4'	42:BM:120:ARG:HB3	1.59	0.83
34:BA:713:G:N2	34:BA:777:A:H1'	1.93	0.83
35:BF:168:THR:OG1	35:BF:192:SER:HA	1.79	0.83
36:BG:3:ASN:ND2	36:BG:4:LYS:H	1.77	0.83
42:BM:47:LEU:HD12	42:BM:51:ARG:NH2	1.93	0.83
44:BO:84:VAL:HG21	44:BO:110:ASP:HA	1.61	0.83
49:BT:21:VAL:HG21	49:BT:59:TRP:HE1	1.43	0.83
57:BZ:150:ASN:ND2	57:BZ:151:LEU:HD22	1.94	0.83
57:BZ:15:ASP:HB3	57:BZ:16:HIS:CE1	2.08	0.83
57:BZ:6:ARG:HH12	57:BZ:196:ALA:HB2	1.44	0.83
57:BZ:403:VAL:O	57:BZ:465:LEU:CB	2.26	0.83
57:BZ:67:ASP:CG	57:BZ:68:TYR:HA	1.99	0.83
57:BZ:604:PRO:HB2	57:BZ:605:LYS:CB	2.04	0.83
55:BC:31:A:H2'	55:BC:32:U:H5'	1.61	0.83
14:AP:33:LYS:HE2	14:AP:54:LEU:HD21	1.60	0.83
1:AA:1451:C:H5'	1:AA:1453:A:OP2	1.79	0.82
1:AA:1299:G:H21	1:AA:1640:C:H6	1.27	0.82
1:AA:1966:A:H1'	1:AA:2593:U:C5'	2.08	0.82
1:AA:216:A:H2'	1:AA:217:G:C8	2.13	0.82
1:AA:239:U:O2'	1:AA:240:G:H5'	1.79	0.82
1:AA:2525:G:N2	1:AA:2539:C:C4	2.46	0.82
1:AA:2790:A:C4'	1:AA:2893:G:N2	2.41	0.82
1:AA:2629:A:C5'	1:AA:2895:U:C6	2.62	0.82
1:AA:336:C:C2'	1:AA:337:C:H5'	2.09	0.82
3:AC:181:PRO:HD2	3:AC:184:LYS:HD2	1.59	0.82
5:AE:173:VAL:CG2	5:AE:174:ASP:N	2.42	0.82
5:AE:4:ILE:O	5:AE:27:LEU:HD22	1.78	0.82
7:AG:55:LYS:HE3	7:AG:152:LEU:HD21	1.59	0.82
9:AK:109:LYS:NZ	9:AK:110:GLY:N	2.27	0.82
10:AL:43:VAL:HG11	10:AL:54:GLU:HA	1.61	0.82
6:AF:38:ARG:HH12	11:AM:10:PRO:HA	1.44	0.82
12:AN:25:ASP:CB	12:AN:102:VAL:H	1.92	0.82
16:AR:88:ILE:HD13	16:AR:88:ILE:N	1.94	0.82
16:AR:88:ILE:O	17:AS:52:VAL:HA	1.79	0.82
18:AT:88:ARG:HA	18:AT:88:ARG:NE	1.92	0.82
21:AW:127:LYS:HB3	21:AW:162:GLU:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:10:LYS:HG2	24:AZ:12:PRO:HD3	1.60	0.82
34:BA:1100:C:H2'	35:BF:98:LEU:HD11	1.59	0.82
34:BA:1202:G:C4	47:BR:42:ILE:HD13	2.13	0.82
34:BA:1271:G:OP1	34:BA:1314:C:C5'	2.26	0.82
34:BA:1339:A:H4'	56:BE:41:C:C4'	1.99	0.82
34:BA:1481:U:H2'	34:BA:1482:G:C8	2.13	0.82
34:BA:1483:A:O5'	34:BA:1483:A:H8	1.61	0.82
34:BA:1486:G:H2'	34:BA:1487:G:C4'	2.09	0.82
35:BF:102:LEU:H	35:BF:102:LEU:HD12	1.43	0.82
42:BM:6:GLY:HA3	42:BM:80:GLY:O	1.79	0.82
43:BN:27:ALA:HB2	43:BN:85:LEU:CG	2.08	0.82
45:BP:32:PHE:HB2	45:BP:84:LEU:HD11	1.61	0.82
34:BA:128:G:H5''	50:BU:2:PRO:HA	1.61	0.82
34:BA:1226:C:C1'	52:BW:80:TYR:CE2	2.57	0.82
57:BZ:54:ILE:HD11	57:BZ:211:GLN:NE2	1.93	0.82
57:BZ:422:ARG:HH12	57:BZ:480:VAL:HG22	1.42	0.82
57:BZ:496:ALA:HB3	57:BZ:513:GLY:O	1.78	0.82
1:AA:2185:C:H2'	1:AA:2186:G:H8	1.43	0.82
1:AA:1909:C:C2	1:AA:1922:G:N1	2.30	0.82
1:AA:190:A:H2'	1:AA:191:A:C8	2.14	0.82
1:AA:2434:A:O2'	1:AA:2435:A:H5''	1.78	0.82
1:AA:2468:G:N2	1:AA:2481:G:H2'	1.94	0.82
1:AA:2658:C:N4	1:AA:2664:G:H1	1.74	0.82
1:AA:270(P):C:H2'	1:AA:270(Q):C:C6	2.15	0.82
1:AA:570:G:H1	1:AA:2498:C:C4'	1.92	0.82
1:AA:672:C:H2'	1:AA:673:C:C6	2.14	0.82
3:AC:180:PHE:CE2	3:AC:184:LYS:HD2	2.14	0.82
3:AC:43:VAL:HG22	3:AC:224:ILE:CG2	2.10	0.82
4:AD:63:ARG:NH1	4:AD:87:ASN:HD21	1.75	0.82
5:AE:179:GLU:HB2	5:AE:181:LEU:HD11	1.61	0.82
5:AE:13:ARG:CG	5:AE:22:PRO:HD3	2.07	0.82
3:AC:11:LEU:HD22	5:AE:35:GLN:OE1	192.07	0.82
5:AE:44:TYR:HB3	5:AE:82:ARG:HH11	1.41	0.82
6:AF:139:PHE:O	6:AF:142:TRP:HB3	1.78	0.82
9:AK:37:LYS:HD2	9:AK:43:THR:HA	1.58	0.82
12:AN:43:THR:HA	12:AN:94:VAL:CG1	2.07	0.82
14:AP:103:GLU:O	14:AP:106:ARG:HB3	1.79	0.82
16:AR:88:ILE:CG1	17:AS:52:VAL:HG13	2.08	0.82
16:AR:112:ARG:HH22	17:AS:49:THR:HG22	1.43	0.82
19:AU:4:ALA:HB3	23:AY:21:ARG:NH1	1.94	0.82
24:AZ:19:GLN:NE2	24:AZ:50:VAL:HA	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:174:C:H2'	34:BA:175:C:C6	2.14	0.82
34:BA:42:G:H2'	34:BA:43:C:C6	2.14	0.82
34:BA:762:C:H2'	34:BA:763:G:C8	2.14	0.82
56:BE:72:C:H2'	56:BE:73:A:H5''	1.61	0.82
35:BF:102:LEU:CD2	35:BF:176:GLU:HB3	2.09	0.82
38:BI:94:ALA:CB	38:BI:98:THR:HG21	2.07	0.82
40:BK:64:GLN:HG3	40:BK:128:ALA:O	1.77	0.82
48:BS:67:LEU:O	48:BS:70:LEU:HB3	1.79	0.82
50:BU:19:VAL:HG21	50:BU:46:ASP:HB2	1.58	0.82
50:BU:31:LEU:O	50:BU:32:TYR:HD2	1.62	0.82
39:BJ:89:MET:HB2	51:BV:76:LEU:HD11	1.60	0.82
57:BZ:407:VAL:O	57:BZ:436:ARG:HA	1.79	0.82
56:BD:16:U:H3'	56:BD:17:C:H5'	1.62	0.82
1:AA:1334:G:H5''	19:AU:65:ARG:NH1	1.93	0.82
1:AA:1394:U:H4'	1:AA:1603:A:H4'	1.60	0.82
1:AA:1791:A:O4'	4:AD:209:ALA:HB2	1.80	0.82
1:AA:1826:G:H2'	1:AA:1827:C:H5'	1.61	0.82
1:AA:1943:U:H4'	1:AA:1944:U:O5'	1.78	0.82
1:AA:2660:A:N7	57:BZ:457:THR:HG23	1.94	0.82
1:AA:1922:G:O6	58:AA:3001:NMY:H62	1.79	0.82
1:AA:752:A:N6	1:AA:1781:C:H1'	1.94	0.82
1:AA:876:C:O2'	1:AA:877:U:H5'	1.77	0.82
1:AA:901:A:N6	1:AA:902:C:N3	2.26	0.82
1:AA:2597:G:C1'	4:AD:242:ARG:HH21	1.93	0.82
5:AE:124:GLY:HA3	5:AE:136:ARG:CB	2.10	0.82
5:AE:77:ILE:HG12	5:AE:78:LEU:N	1.94	0.82
1:AA:2415:G:OP1	11:AM:61:ARG:HD2	1.78	0.82
12:AN:8:LYS:NZ	12:AN:93:TYR:HD2	1.76	0.82
19:AU:27:THR:CB	19:AU:80:ILE:HD12	2.09	0.82
20:AV:82:PRO:HG3	20:AV:97:ARG:H	1.43	0.82
24:AZ:37:LEU:HD21	24:AZ:39:ASP:HA	1.60	0.82
34:BA:50:A:H5''	34:BA:51:A:C5'	2.06	0.82
56:BE:21:A:C3'	56:BE:22:G:H5''	2.09	0.82
37:BH:30:LYS:N	37:BH:34:GLU:HB3	1.95	0.82
41:BL:103:VAL:HB	41:BL:108:GLY:CA	2.08	0.82
41:BL:22:GLU:O	41:BL:62:TYR:HA	1.79	0.82
44:BO:95:ILE:HA	44:BO:98:LEU:CG	2.09	0.82
48:BS:60:VAL:HA	48:BS:63:ARG:HD3	1.62	0.82
48:BS:17:ARG:NH1	48:BS:77:ARG:HD3	1.94	0.82
49:BT:14:ASN:HA	49:BT:42:ARG:CZ	2.10	0.82
50:BU:10:VAL:HG21	50:BU:55:ASP:HB2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:64:ASP:O	53:BX:67:ALA:N	2.12	0.82
57:BZ:165:ALA:H	57:BZ:172:ALA:C	1.81	0.82
57:BZ:180:ALA:HB3	57:BZ:181:GLU:HB3	1.59	0.82
57:BZ:27:GLN:CA	57:BZ:28:GLN:HB2	1.97	0.82
57:BZ:546:MET:HG2	57:BZ:547:ARG:CZ	2.08	0.82
1:AA:150:C:H2'	1:AA:150:C:O2	1.79	0.82
1:AA:1802:A:H3'	1:AA:1803:A:C8	2.15	0.82
1:AA:1842:G:H2'	1:AA:1843:C:C6	2.12	0.82
1:AA:2275:C:H4'	1:AA:2276:G:O5'	1.77	0.82
1:AA:269:U:H5''	1:AA:270(Y):G:C2'	2.08	0.82
1:AA:2781:A:H2'	1:AA:2782:G:O2'	1.78	0.82
1:AA:2807:G:C5	1:AA:2808:U:C5	2.67	0.82
1:AA:2875:C:H4'	15:AQ:4:GLY:H	1.44	0.82
1:AA:898:C:H2'	1:AA:899:A:C4'	2.09	0.82
1:AA:2178:C:C5'	3:AC:46:LYS:CB	2.57	0.82
3:AC:56:GLN:O	3:AC:58:VAL:HG22	1.80	0.82
4:AD:106:ILE:HD12	4:AD:192:THR:CG2	2.08	0.82
4:AD:133:LEU:HD11	4:AD:185:VAL:CG1	2.08	0.82
5:AE:44:TYR:HD2	5:AE:45:THR:N	1.76	0.82
7:AG:50:ALA:N	7:AG:70:VAL:HG13	1.93	0.82
8:AH:149:ARG:CZ	8:AH:164:TYR:HD1	1.91	0.82
8:AH:163:TYR:HB3	8:AH:166:GLY:HA2	1.62	0.82
32:AJ:72:PRO:CG	32:AJ:77:LEU:CD2	0.83	0.82
9:AK:23:LEU:CD1	9:AK:63:THR:HG23	2.09	0.82
10:AL:97:ARG:HG3	10:AL:117:LEU:CD2	2.10	0.82
1:AA:627:A:H5''	11:AM:75:ILE:HB	1.59	0.82
12:AN:63:LYS:HD3	12:AN:64:ILE:N	1.94	0.82
12:AN:8:LYS:HZ3	12:AN:11:LYS:NZ	1.78	0.82
15:AQ:3:ARG:O	15:AQ:6:LEU:HD23	1.79	0.82
9:AK:4:TYR:OH	16:AR:101:ARG:HB3	1.80	0.82
19:AU:60:ARG:HD3	19:AU:62:LYS:NZ	1.93	0.82
34:BA:319:G:O2'	34:BA:320:C:H5'	1.79	0.82
34:BA:761:G:H5'	50:BU:103:GLY:H	1.40	0.82
56:BE:5:G:C4'	56:BE:6:G:H5'	2.08	0.82
35:BF:224:GLN:HG2	35:BF:229:VAL:HG21	1.61	0.82
38:BI:32:VAL:O	38:BI:43:LEU:HG	1.77	0.82
34:BA:932:C:C3'	40:BK:3:ARG:HG3	2.10	0.82
34:BA:684:A:C4'	44:BO:12:ARG:HH22	1.89	0.82
44:BO:54:ARG:HH11	44:BO:54:ARG:HG3	1.44	0.82
45:BP:28:LYS:HE3	45:BP:33:ARG:HH12	1.43	0.82
46:BQ:29:ARG:CD	46:BQ:64:TRP:CH2	2.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:3:ARG:NE	52:BW:45:VAL:CG1	2.39	0.82
34:BA:1327:C:C5'	54:BY:20:LYS:HD3	2.08	0.82
57:BZ:488:LEU:CG	57:BZ:525:GLY:C	2.48	0.82
57:BZ:62:ALA:HB3	57:BZ:64:ILE:HG13	1.60	0.82
57:BZ:6:ARG:HB2	57:BZ:68:TYR:O	1.79	0.82
57:BZ:327:THR:O	57:BZ:331:ILE:HG13	1.80	0.82
56:BD:50:U:C4	56:BD:64:A:C2	2.67	0.82
1:AA:1183:G:H1'	1:AA:1184:G:C8	2.13	0.82
1:AA:1423:G:H2'	1:AA:1424:G:C8	2.14	0.82
1:AA:1493:C:N4	1:AA:1499:C:N3	2.26	0.82
1:AA:1642:G:O2'	1:AA:1643:G:H5'	1.79	0.82
1:AA:1716:U:O2	1:AA:1716:U:H2'	1.77	0.82
1:AA:221:A:N6	1:AA:265:A:N6	2.27	0.82
1:AA:2286:A:H4'	1:AA:2287:A:C1'	2.08	0.82
1:AA:2384:G:H8	1:AA:2384:G:OP2	1.63	0.82
1:AA:2497:A:H2'	1:AA:2498:C:OP2	1.79	0.82
1:AA:2690:C:C5	13:AO:14:SER:HB2	2.15	0.82
2:AB:102:G:N3	21:AW:73:GLN:NE2	2.27	0.82
1:AA:783:A:H3'	4:AD:227:ASN:ND2	1.94	0.82
5:AE:147:PRO:HG2	5:AE:149:ARG:HD3	1.60	0.82
5:AE:173:VAL:HG22	5:AE:183:LEU:O	1.80	0.82
10:AL:21:CYS:HA	10:AL:41:ALA:HB2	1.62	0.82
11:AM:114:ILE:HG12	11:AM:130:PHE:HA	1.60	0.82
1:AA:833:U:O4'	11:AM:48:PRO:HD2	1.78	0.82
12:AN:42:ILE:HG12	12:AN:46:GLN:NE2	1.93	0.82
12:AN:69:PHE:HB3	12:AN:71:ASP:OD1	1.79	0.82
15:AQ:30:VAL:HG22	15:AQ:32:TYR:CZ	2.13	0.82
16:AR:69:CYS:SG	16:AR:70:ARG:HG3	2.20	0.82
17:AS:26:ASP:O	17:AS:29:PRO:HD2	1.79	0.82
22:AX:19:LYS:O	22:AX:20:ARG:HD2	1.79	0.82
34:BA:1075:C:H4'	34:BA:1101:A:N6	1.93	0.82
34:BA:1314:C:H42	34:BA:1324:A:N6	1.77	0.82
34:BA:1318:A:O3'	52:BW:38:SER:HA	1.69	0.82
34:BA:296:U:H2'	34:BA:297:G:C8	2.13	0.82
34:BA:854:G:H5''	34:BA:871:U:H3	1.42	0.82
35:BF:150:SER:HA	35:BF:153:ARG:CB	2.09	0.82
40:BK:109:ASN:O	40:BK:119:ARG:CZ	2.28	0.82
42:BM:52:ALA:O	42:BM:95:LYS:HD2	1.80	0.82
45:BP:60:LEU:N	45:BP:60:LEU:CD1	2.42	0.82
45:BP:93:LEU:CD1	45:BP:96:VAL:HG21	2.08	0.82
52:BW:6:LYS:HE3	52:BW:10:PHE:CB	2.07	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:58:LYS:O	53:BX:61:SER:OG	1.97	0.82
57:BZ:2:ILE:HG21	57:BZ:199:VAL:CG1	2.10	0.82
57:BZ:400:TYR:CE1	57:BZ:444:PRO:HG3	2.14	0.82
1:AA:1046:A:N1	31:AI:9:LEU:N	2.28	0.82
1:AA:1056:G:H4'	1:AA:1057:A:H5'	1.62	0.82
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.15	0.82
1:AA:1206:G:H2'	1:AA:1207:C:C1'	2.09	0.82
1:AA:2572:A:C4'	1:AA:2573:C:H5''	2.08	0.82
1:AA:2074:U:O2'	1:AA:2598:A:H1'	1.80	0.82
1:AA:2659:G:H1'	1:AA:2663:G:H22	1.44	0.82
1:AA:2789:C:O2'	1:AA:2893:G:N2	2.11	0.82
1:AA:678:C:H2'	1:AA:679:C:H6	1.42	0.82
1:AA:864:G:H2'	1:AA:865:C:C1'	2.08	0.82
1:AA:917:A:C3'	1:AA:917:A:C8	2.62	0.82
2:AB:24:G:N3	2:AB:27:C:N4	2.27	0.82
5:AE:8:LYS:O	5:AE:192:ASN:HB2	1.79	0.82
8:AH:102:ALA:C	8:AH:115:VAL:HG12	2.00	0.82
8:AH:26:VAL:HG12	8:AH:79:VAL:HG11	1.62	0.82
9:AK:37:LYS:CD	9:AK:43:THR:HA	2.10	0.82
13:AO:100:LEU:HB2	13:AO:112:ALA:HA	1.61	0.82
13:AO:53:HIS:O	13:AO:56:LYS:HG3	1.80	0.82
14:AP:11:LYS:HA	14:AP:14:VAL:HG21	1.60	0.82
17:AS:18:LEU:HB2	17:AS:66:ARG:NH2	1.95	0.82
17:AS:88:ARG:O	17:AS:90:PRO:HD3	1.79	0.82
18:AT:76:VAL:HG22	18:AT:77:ASP:H	1.44	0.82
19:AU:43:VAL:CG1	19:AU:51:VAL:HG22	2.09	0.82
21:AW:48:PHE:HB3	21:AW:54:HIS:HE1	1.42	0.82
19:AU:7:VAL:HG21	23:AY:31:ARG:NH2	1.94	0.82
24:AZ:3:ARG:HH12	24:AZ:59:VAL:CB	1.91	0.82
34:BA:1005:A:H5''	34:BA:1006:C:C6	2.13	0.82
34:BA:166:G:O2'	34:BA:167:G:H5'	1.80	0.82
34:BA:37:U:C3'	34:BA:37:U:C6	2.59	0.82
34:BA:1339:A:C5'	56:BE:41:C:H4'	2.09	0.82
56:BE:41:C:C3'	56:BE:42:C:H5''	2.09	0.82
35:BF:181:PHE:CD1	41:BL:71:GLY:HA3	2.15	0.82
41:BL:36:LEU:HD12	41:BL:48:TYR:HB2	1.60	0.82
50:BU:62:SER:HB3	50:BU:72:ARG:HE	1.40	0.82
51:BV:55:ARG:HH11	51:BV:55:ARG:HB3	1.44	0.82
57:BZ:305:PRO:CG	57:BZ:360:GLY:O	2.23	0.82
57:BZ:502:PHE:HZ	57:BZ:555:VAL:C	1.83	0.82
32:AJ:64:SER:CB	32:AJ:65:PHE:HB3	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1062:G:C8	1:AA:1063:G:N7	2.47	0.82
1:AA:1264:G:O6	1:AA:1265:A:N7	2.13	0.82
1:AA:1355:G:N2	1:AA:1377:G:H1'	1.95	0.82
1:AA:2208:U:H4'	4:AD:151:LYS:NZ	1.94	0.82
1:AA:2234:G:O2'	1:AA:2235:G:H5'	1.79	0.82
1:AA:2277:G:C3'	1:AA:2278:A:H5''	2.09	0.82
1:AA:2607:G:C2'	1:AA:2608:G:H5'	2.08	0.82
1:AA:1906:G:C6	58:AA:3001:NMV:H7	2.15	0.82
1:AA:574:C:C2	1:AA:2055:C:H5	1.98	0.82
1:AA:704:G:N2	1:AA:725:G:N2	2.27	0.82
1:AA:783:A:H2'	1:AA:784:A:C4'	2.09	0.82
1:AA:997:G:C5'	16:AR:92:ARG:HH11	1.93	0.82
1:AA:2152:G:P	3:AC:3:HIS:HA	2.20	0.82
3:AC:89:ALA:HA	3:AC:154:ARG:HG3	1.60	0.82
4:AD:169:GLU:HB3	4:AD:184:LYS:NZ	1.94	0.82
1:AA:247:G:N2	5:AE:8:LYS:HD2	118.43	0.82
6:AF:25:PRO:O	6:AF:28:ILE:HG22	1.78	0.82
7:AG:118:ARG:HG3	7:AG:119:GLY:H	1.43	0.82
7:AG:6:ALA:HA	7:AG:9:ARG:NH2	1.94	0.82
8:AH:17:VAL:HG22	8:AH:45:VAL:HG21	1.61	0.82
32:AJ:19:PRO:CG	32:AJ:38:VAL:N	2.42	0.82
1:AA:2012:G:OP1	18:AT:98:LYS:HG3	1.80	0.82
1:AA:75:G:H4'	23:AY:50:ARG:NH1	1.94	0.82
34:BA:1135:U:H4'	34:BA:1136:U:C5	2.13	0.82
1:AA:1960:A:C4'	34:BA:1483:A:H2	1.80	0.82
34:BA:1404:C:HO2'	34:BA:1499:A:H2	0.82	0.82
34:BA:246:A:O2'	34:BA:247:G:O4'	1.97	0.82
34:BA:218:C:H5'	34:BA:466:C:N4	1.94	0.82
35:BF:187:LEU:HD22	35:BF:188:ALA:N	1.95	0.82
36:BG:11:ARG:HB3	36:BG:15:THR:O	1.78	0.82
36:BG:15:THR:O	36:BG:16:ARG:HB3	1.79	0.82
37:BH:166:LYS:HE2	37:BH:178:VAL:HG12	1.62	0.82
37:BH:200:GLU:O	37:BH:204:ILE:HD12	1.80	0.82
45:BP:12:ARG:NH1	45:BP:12:ARG:HB3	1.95	0.82
57:BZ:57:LEU:HD12	57:BZ:255:LEU:CA	2.09	0.82
57:BZ:383:SER:CB	57:BZ:384:ARG:HA	2.10	0.82
57:BZ:398:GLU:HA	57:BZ:472:TYR:CE1	2.14	0.82
57:BZ:379:GLU:OE1	57:BZ:581:THR:CB	2.26	0.82
57:BZ:6:ARG:CG	57:BZ:68:TYR:O	2.26	0.82
1:AA:1523:U:C2	1:AA:1524:G:C8	2.67	0.82
1:AA:2333:A:N3	1:AA:2333:A:H2'	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1906:G:O6	58:AA:3001:NMY:H7	1.79	0.82
1:AA:697:C:H2'	1:AA:698:C:H5''	1.62	0.82
1:AA:2123:G:C4'	3:AC:172:HIS:ND1	2.22	0.82
1:AA:2177:C:O2'	3:AC:211:SER:HB2	1.80	0.82
4:AD:5:LYS:NZ	4:AD:31:LYS:NZ	2.27	0.82
11:AM:101:VAL:HG23	11:AM:112:LEU:HD22	1.61	0.82
11:AM:15:ARG:NH2	11:AM:16:ARG:HB2	1.94	0.82
6:AF:34:TRP:CD2	11:AM:8:PRO:HB2	2.15	0.82
16:AR:93:LYS:HA	16:AR:93:LYS:HZ2	1.40	0.82
19:AU:12:VAL:HG23	19:AU:28:PHE:HA	1.61	0.82
21:AW:129:SER:HB3	21:AW:133:ILE:HG22	1.59	0.82
34:BA:1014:A:H1'	52:BW:34:TRP:HH2	1.01	0.82
34:BA:1459:C:H2'	34:BA:1460:A:H8	1.42	0.82
34:BA:410:G:N3	34:BA:432:A:N6	2.28	0.82
34:BA:764:C:C2'	34:BA:765:G:C8	2.61	0.82
56:BE:5:G:O2'	56:BE:7:A:O4'	1.97	0.82
35:BF:17:PHE:O	35:BF:42:ILE:HG22	1.79	0.82
35:BF:16:HIS:O	35:BF:204:ASN:HB2	1.79	0.82
36:BG:48:TYR:HA	36:BG:52:LEU:HD22	1.59	0.82
46:BQ:14:ARG:NH2	46:BQ:42:ALA:HA	1.93	0.82
34:BA:1329:A:HO2'	46:BQ:70:LEU:HD22	1.43	0.82
57:BZ:123:PRO:CD	57:BZ:156:GLU:OE2	2.27	0.82
57:BZ:244:GLY:HA2	57:BZ:245:LYS:CB	2.09	0.82
57:BZ:543:LEU:HB3	57:BZ:544:THR:OG1	1.78	0.82
57:BZ:374:ARG:O	57:BZ:582:PRO:HB3	1.80	0.82
1:AA:1487:G:O2'	1:AA:1488:G:H5'	1.79	0.82
1:AA:1300:U:H4'	1:AA:1301:A:O5'	1.79	0.82
1:AA:1324:G:C3'	1:AA:1325:G:H4'	2.07	0.82
1:AA:1708:C:H2'	1:AA:1709:U:H5''	1.61	0.82
1:AA:1910:G:N9	1:AA:1921:G:C2	2.37	0.82
1:AA:2297:C:H2'	1:AA:2298:A:C8	2.15	0.82
1:AA:241:A:H1'	1:AA:243:U:C1'	2.10	0.82
1:AA:572:A:H2'	1:AA:573:G:H1'	1.62	0.82
1:AA:931:G:N2	24:AZ:24:LYS:HB3	1.93	0.82
1:AA:1813:G:O2'	4:AD:52:ARG:NH2	2.12	0.82
9:AK:70:LYS:HZ2	9:AK:86:PRO:HB3	1.44	0.82
2:AB:9:G:H4'	14:AP:43:GLU:OE2	1.80	0.82
20:AV:98:VAL:O	20:AV:100:ALA:O	1.98	0.82
23:AY:51:GLN:HA	23:AY:54:ARG:NE	1.94	0.82
34:BA:1108:G:O2'	34:BA:1109:C:H5'	1.78	0.82
34:BA:132:C:H5'	34:BA:262:A:C1'	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:399:G:H2'	34:BA:400:C:C6	2.15	0.82
34:BA:451:A:H1'	34:BA:452:A:C4	2.15	0.82
34:BA:917:G:O2'	34:BA:918:A:H5'	1.80	0.82
56:BE:73:A:N3	56:BE:73:A:H5'	1.94	0.82
40:BK:35:LYS:HZ1	40:BK:38:LEU:HD22	1.39	0.82
41:BL:18:ARG:CA	41:BL:18:ARG:NH1	2.43	0.82
57:BZ:250:LYS:H	57:BZ:275:ALA:CB	1.89	0.82
32:AJ:25:PRO:CB	57:BZ:429:MET:HE2	2.00	0.82
31:AI:53:VAL:HA	31:AI:86:PRO:N	1.94	0.82
57:BZ:539:THR:HA	57:BZ:541:LYS:N	1.95	0.82
56:BD:28:G:H1	56:BD:42:C:N4	1.76	0.82
1:AA:1341:U:OP2	1:AA:1397:U:N3	2.13	0.82
1:AA:141:A:C2	1:AA:1596:A:O2'	2.32	0.82
1:AA:1431:U:H2'	1:AA:1432:C:O4'	1.80	0.82
1:AA:1742:C:H2'	1:AA:1743:G:H4'	1.61	0.82
1:AA:764:A:N6	1:AA:1789:A:C2	2.47	0.82
1:AA:2055:C:H4'	1:AA:2056:G:H5''	1.62	0.82
1:AA:2232:U:O2'	1:AA:2233:U:H5'	1.78	0.82
1:AA:2409:G:N2	1:AA:2410:G:H1'	1.95	0.82
1:AA:2459:A:C5	1:AA:2493:U:O4	2.33	0.82
1:AA:2537:U:H2'	1:AA:2538:C:C6	2.15	0.82
1:AA:2548:G:H8	1:AA:2548:G:H5'	1.43	0.82
1:AA:2576:G:H5''	1:AA:2577:A:OP1	1.78	0.82
1:AA:541:C:H2'	1:AA:542:C:C6	2.14	0.82
3:AC:130:ILE:N	3:AC:130:ILE:HD12	1.94	0.82
1:AA:729:G:P	4:AD:13:ARG:HH22	2.03	0.82
5:AE:11:MET:O	5:AE:21:VAL:HG23	1.79	0.82
5:AE:4:ILE:HG13	5:AE:27:LEU:HD13	1.62	0.82
13:AO:88:ARG:CB	13:AO:88:ARG:HH11	1.88	0.82
17:AS:6:LYS:HG2	17:AS:12:TYR:N	1.93	0.82
20:AV:49:VAL:CG2	20:AV:51:VAL:HB	2.10	0.82
2:AB:76:G:H5'	21:AW:85:HIS:ND1	1.95	0.82
34:BA:1226:C:C5	46:BQ:104:ARG:CG	2.59	0.82
34:BA:1414:U:H2'	34:BA:1415:G:H8	1.44	0.82
34:BA:389:A:H2'	34:BA:390:C:C5'	2.10	0.82
55:BC:56:C:H2'	55:BC:57:G:O4'	1.79	0.82
35:BF:134:GLU:HG3	35:BF:138:LEU:HD11	1.62	0.82
37:BH:132:ARG:HG2	37:BH:132:ARG:NH1	1.92	0.82
41:BL:103:VAL:HB	41:BL:108:GLY:HA3	1.58	0.82
38:BI:151:LEU:HD21	41:BL:67:PRO:HG3	1.60	0.82
43:BN:8:LEU:HD13	43:BN:16:LEU:HD13	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:91:ARG:HD3	46:BQ:98:VAL:C	2.01	0.82
50:BU:97:SER:O	50:BU:98:LEU:HD22	1.80	0.82
49:BT:44:THR:HG23	49:BT:45:THR:N	1.93	0.82
1:AA:1045:A:H1'	1:AA:1047:G:C8	2.14	0.81
1:AA:1179:C:HO2'	1:AA:1180:C:H6	0.84	0.81
1:AA:1475:G:H21	1:AA:1476:C:C5'	1.93	0.81
1:AA:1670:C:H3'	1:AA:1671:U:C6	2.15	0.81
1:AA:174:C:H2'	1:AA:175:G:H5'	1.62	0.81
1:AA:1770:G:O2'	1:AA:1771:C:H5'	1.79	0.81
1:AA:189:G:H2'	1:AA:205:G:H22	1.42	0.81
1:AA:2330:G:H1	1:AA:2385:C:N4	1.78	0.81
1:AA:2375:G:N2	1:AA:2378:A:N6	2.26	0.81
1:AA:2402:C:H5''	1:AA:2403:C:OP1	1.79	0.81
1:AA:2590:A:H2'	1:AA:2591:C:C6	2.15	0.81
1:AA:24:G:H2'	1:AA:25:U:H6	1.42	0.81
1:AA:450:G:C5'	6:AF:52:LYS:HD3	2.10	0.81
3:AC:108:MET:HE3	3:AC:136:LEU:HD12	1.61	0.81
4:AD:57:GLY:N	4:AD:217:ARG:HD2	1.94	0.81
1:AA:1813:G:H4'	4:AD:46:GLN:HB3	1.60	0.81
5:AE:170:LEU:N	5:AE:170:LEU:HD23	1.95	0.81
5:AE:81:ILE:HG22	5:AE:82:ARG:N	1.95	0.81
8:AH:42:ARG:O	8:AH:53:GLU:HG2	1.78	0.81
10:AL:122:LEU:HG	15:AQ:71:GLY:O	1.80	0.81
10:AL:24:VAL:CG2	10:AL:26:LYS:HG2	2.10	0.81
11:AM:47:ASP:HB3	11:AM:48:PRO:CD	2.09	0.81
11:AM:72:PRO:O	11:AM:111:ARG:HB3	1.80	0.81
15:AQ:54:ARG:HD3	15:AQ:55:ASN:ND2	1.94	0.81
16:AR:13:LYS:O	16:AR:16:LYS:HB3	1.80	0.81
17:AS:6:LYS:HZ3	17:AS:10:LYS:HB3	1.44	0.81
16:AR:89:GLU:OE1	17:AS:50:PRO:HB3	1.79	0.81
21:AW:24:LEU:HD23	21:AW:25:PRO:HD2	1.62	0.81
34:BA:1316:G:O2'	34:BA:1318:A:N6	2.12	0.81
37:BH:21:LEU:HD13	37:BH:67:ILE:HG22	1.62	0.81
38:BI:109:ILE:HD13	38:BI:135:THR:CG2	2.09	0.81
42:BM:97:LYS:NZ	42:BM:102:LEU:HD13	1.95	0.81
45:BP:8:ASN:H	45:BP:8:ASN:ND2	1.77	0.81
46:BQ:25:ILE:HD11	46:BQ:66:LEU:HD21	1.62	0.81
46:BQ:88:ARG:N	52:BW:73:GLU:OE1	2.13	0.81
49:BT:26:ARG:HD2	49:BT:31:LYS:N	1.94	0.81
52:BW:9:VAL:C	52:BW:41:VAL:HG23	2.00	0.81
52:BW:9:VAL:HG13	52:BW:41:VAL:O	1.75	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:7:ASN:HB3	57:BZ:71:ASN:O	1.80	0.81
1:AA:2102:U:H2'	1:AA:2103:C:C6	2.15	0.81
1:AA:924:C:H2'	1:AA:925:C:C6	2.14	0.81
1:AA:1123:C:H2'	1:AA:1124:C:H6	1.45	0.81
1:AA:1203:G:C2'	1:AA:1203:G:N3	2.42	0.81
1:AA:1312:U:C2'	1:AA:1313:U:O4'	2.23	0.81
1:AA:1819:A:H1'	1:AA:1821:A:N3	1.94	0.81
1:AA:1924:C:C6	1:AA:1925:C:H5	1.98	0.81
1:AA:1960:A:C4'	34:BA:1483:A:C2	2.62	0.81
1:AA:2123:G:C1'	3:AC:215:THR:HG21	2.05	0.81
1:AA:2345:G:O2'	1:AA:2346:A:OP2	1.98	0.81
1:AA:2063:C:H1'	1:AA:2451:A:H2	1.43	0.81
1:AA:2715:C:H2'	1:AA:2716:U:C6	2.13	0.81
1:AA:2767:C:C2	1:AA:2768:C:C5	2.68	0.81
1:AA:880:G:H3'	1:AA:881:G:H4'	1.61	0.81
3:AC:150:GLY:O	3:AC:154:ARG:HB2	1.80	0.81
7:AG:8:LYS:HZ1	7:AG:176:LEU:HD11	1.44	0.81
7:AG:82:LEU:CD2	56:BE:52:G:P	2.68	0.81
10:AL:70:LYS:HZ3	10:AL:102:VAL:HG13	1.42	0.81
13:AO:74:LYS:HB2	13:AO:74:LYS:HZ2	1.45	0.81
14:AP:74:ALA:HB1	14:AP:108:GLY:HA3	1.61	0.81
34:BA:1003:G:C5	34:BA:1004:A:H1'	2.15	0.81
34:BA:1145:C:H1'	34:BA:1146:A:C8	2.15	0.81
34:BA:114:U:H2'	34:BA:115:G:C8	2.15	0.81
34:BA:795:C:C4'	34:BA:1506:U:O2	2.28	0.81
34:BA:82:U:H2'	34:BA:85:U:C5	2.13	0.81
35:BF:223:ILE:CG2	35:BF:229:VAL:HA	2.08	0.81
36:BG:182:ILE:HG23	36:BG:202:ILE:O	1.79	0.81
37:BH:26:CYS:HA	37:BH:31:CYS:HB3	1.61	0.81
42:BM:117:HIS:O	42:BM:119:ALA:N	2.12	0.81
43:BN:9:ARG:O	43:BN:94:VAL:HG13	1.79	0.81
46:BQ:19:LEU:O	46:BQ:25:ILE:HG21	1.78	0.81
31:AI:54:ALA:HB2	31:AI:84:GLU:N	1.79	0.81
56:BD:6:G:N2	56:BD:67:C:C2	2.48	0.81
20:AV:41:GLY:HA3	20:AV:61:ILE:O	1.79	0.81
1:AA:1510:A:H2'	1:AA:1511:A:C2	2.15	0.81
1:AA:1077:A:N6	1:AA:1088:A:O2'	2.13	0.81
1:AA:1153:C:H2'	1:AA:1154:G:H8	1.45	0.81
1:AA:1464:C:H5'	1:AA:1528:A:O2'	1.78	0.81
1:AA:1664:A:H3'	1:AA:1664:A:H8	1.44	0.81
1:AA:1780:A:C3'	1:AA:1781:C:H5'	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2269:A:OP1	1:AA:2269:A:H3'	1.81	0.81
1:AA:2555:U:O4	57:BZ:547:ARG:NH1	2.13	0.81
1:AA:2709:G:C2'	1:AA:2710:C:H5'	2.09	0.81
1:AA:2747:G:O6	1:AA:2755:C:H5'	1.80	0.81
1:AA:2880:C:H4'	13:AO:90:ARG:HD2	1.62	0.81
1:AA:303:U:H2'	1:AA:304:G:O4'	1.78	0.81
1:AA:47:C:O5'	1:AA:47:C:H6	1.64	0.81
1:AA:535:C:H5'	16:AR:49:HIS:CB	2.10	0.81
1:AA:746:A:O2'	1:AA:747:U:P	2.37	0.81
1:AA:2227:A:H4'	4:AD:262:ARG:HG3	1.61	0.81
5:AE:52:LEU:HB2	5:AE:73:GLU:O	1.81	0.81
5:AE:51:PHE:CE1	5:AE:53:PRO:HD3	2.14	0.81
7:AG:92:VAL:HG13	7:AG:94:LEU:CD1	2.09	0.81
8:AH:118:PRO:HG3	8:AH:144:VAL:HG21	1.61	0.81
32:AJ:104:VAL:HG12	32:AJ:127:ILE:HD11	0.82	0.81
1:AA:1058:G:C1'	32:AJ:116:ASN:ND2	2.43	0.81
32:AJ:44:ALA:CB	32:AJ:66:THR:HG22	2.09	0.81
1:AA:1059:G:C1'	32:AJ:75:SER:H	1.92	0.81
9:AK:91:LEU:HD23	9:AK:98:VAL:HG21	1.61	0.81
13:AO:54:LEU:HA	13:AO:57:ARG:HG3	1.61	0.81
19:AU:84:ALA:HB3	19:AU:85:PRO:HD3	1.62	0.81
21:AW:152:ALA:HB3	21:AW:168:GLU:CA	2.10	0.81
24:AZ:22:ALA:O	24:AZ:26:LEU:HD22	1.81	0.81
35:BF:59:GLU:CB	35:BF:221:LEU:HD21	2.09	0.81
39:BJ:3:ARG:HG3	39:BJ:65:VAL:O	1.78	0.81
44:BO:57:THR:HG23	44:BO:60:ALA:N	1.95	0.81
45:BP:77:LEU:HD11	45:BP:107:ALA:HB2	1.61	0.81
50:BU:4:LYS:HD2	50:BU:5:VAL:N	1.95	0.81
57:BZ:13:HIS:CB	57:BZ:109:THR:CG2	2.58	0.81
57:BZ:283:ASN:O	57:BZ:285:SER:N	2.11	0.81
1:AA:1430:C:H2'	1:AA:1431:U:C6	2.15	0.81
1:AA:1531:C:H2'	1:AA:1532:C:C5	2.15	0.81
1:AA:1555:G:OP2	1:AA:1555:G:H3'	1.80	0.81
1:AA:1834:U:H1'	1:AA:1969:A:C2	2.14	0.81
1:AA:1944:U:H1'	1:AA:1955:U:C1'	2.09	0.81
1:AA:2059:A:N1	1:AA:2503:A:C5	2.48	0.81
1:AA:2135:A:H4'	1:AA:2136:C:H5	1.43	0.81
1:AA:2458:G:N7	1:AA:2490:G:C6	2.47	0.81
1:AA:457:A:H1'	1:AA:459:U:N3	1.94	0.81
1:AA:972:G:H5''	1:AA:973:A:O3'	1.80	0.81
6:AF:158:THR:CG2	6:AF:196:LEU:H	1.88	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:44:GLY:O	7:AG:72:ARG:HB3	1.80	0.81
1:AA:2659:G:OP1	8:AH:158:HIS:NE2	2.13	0.81
8:AH:94:TYR:C	8:AH:95:ARG:HD2	2.01	0.81
9:AK:10:GLU:OE2	9:AK:39:ARG:HD2	1.79	0.81
20:AV:7:VAL:HG13	20:AV:71:LYS:HB3	1.59	0.81
34:BA:1118:C:P	42:BM:103:THR:HG23	2.19	0.81
34:BA:1202:G:H2'	34:BA:1203:C:C6	2.15	0.81
34:BA:1323:G:H2'	34:BA:1324:A:C8	2.15	0.81
34:BA:1435:G:C2	34:BA:1436:U:C4	2.69	0.81
56:BE:21:A:C2	56:BE:46:G:C2	2.68	0.81
35:BF:150:SER:CA	35:BF:153:ARG:HB2	2.09	0.81
34:BA:1112:C:H1'	36:BG:179:ARG:HH22	1.45	0.81
38:BI:121:LYS:HZ2	38:BI:122:GLU:H	0.83	0.81
41:BL:82:HIS:O	41:BL:137:VAL:HG13	1.80	0.81
46:BQ:98:VAL:HG23	46:BQ:110:ARG:NH1	1.95	0.81
48:BS:33:THR:O	48:BS:36:ILE:HG22	1.79	0.81
51:BV:78:LEU:C	51:BV:79:LEU:HD12	2.00	0.81
52:BW:18:LYS:CA	52:BW:18:LYS:HE3	2.10	0.81
53:BX:21:LYS:HA	53:BX:24:LEU:HD12	1.63	0.81
53:BX:77:ALA:O	53:BX:80:ARG:HB2	1.79	0.81
57:BZ:397:GLN:CB	57:BZ:472:TYR:O	2.28	0.81
57:BZ:499:PHE:HB3	57:BZ:540:GLY:C	2.00	0.81
55:BC:36:A:H2'	55:BC:37:A:O4'	1.81	0.81
34:BA:232:G:H2'	34:BA:233:C:H6	1.45	0.81
1:AA:1114:G:C2	1:AA:1115:G:H1'	2.15	0.81
1:AA:1319:G:O2'	1:AA:1320:C:H5'	1.80	0.81
1:AA:146:G:H3'	1:AA:147:U:H5''	1.61	0.81
1:AA:1790:C:H2'	1:AA:1791:A:C8	2.15	0.81
1:AA:2637:U:H5''	5:AE:81:ILE:CD1	2.09	0.81
1:AA:880:G:C2'	1:AA:881:G:H4'	2.10	0.81
1:AA:2129:C:C5'	3:AC:6:ARG:HG3	2.10	0.81
4:AD:157:ARG:HB3	4:AD:160:GLY:O	1.80	0.81
5:AE:197:ILE:N	5:AE:197:ILE:HD12	1.95	0.81
7:AG:78:SER:HB2	7:AG:82:LEU:CB	2.10	0.81
1:AA:558:G:H5'	9:AK:112:LEU:CD1	2.09	0.81
10:AL:10:VAL:HG12	10:AL:17:ARG:HA	1.60	0.81
1:AA:2876:G:H4'	15:AQ:1:MET:N	1.95	0.81
15:AQ:51:ARG:O	15:AQ:66:VAL:HA	1.80	0.81
17:AS:41:GLY:CA	17:AS:51:VAL:HG22	2.09	0.81
17:AS:5:VAL:HG22	17:AS:39:LEU:HA	1.61	0.81
19:AU:55:ASN:HD22	19:AU:55:ASN:N	1.76	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:127:LYS:HZ2	21:AW:165:VAL:HB	1.44	0.81
22:AX:19:LYS:C	22:AX:20:ARG:HD2	2.01	0.81
34:BA:1117:G:N1	34:BA:1184:G:C4	2.44	0.81
34:BA:1507:A:O2'	34:BA:1508:G:H5'	1.79	0.81
34:BA:1514:C:H2'	34:BA:1515:C:C6	2.15	0.81
34:BA:129(A):G:N2	34:BA:191(A):G:C5	2.49	0.81
34:BA:55:A:C2'	34:BA:56:U:H5'	2.09	0.81
34:BA:659:U:H2'	34:BA:660:G:H8	1.42	0.81
34:BA:87:A:N7	34:BA:88:C:C4	2.48	0.81
56:BE:5:G:H4'	56:BE:6:G:C5'	2.11	0.81
34:BA:1104:G:C4'	35:BF:111:ARG:HE	1.93	0.81
36:BG:120:VAL:O	36:BG:123:GLN:HB2	1.79	0.81
46:BQ:16:ASP:H	46:BQ:34:LEU:CD2	1.94	0.81
47:BR:24:CYS:HB2	47:BR:39:LEU:C	2.01	0.81
48:BS:75:PRO:CA	48:BS:78:TYR:HB3	2.11	0.81
49:BT:56:ALA:HB3	49:BT:79:VAL:HG11	1.62	0.81
52:BW:9:VAL:HG11	52:BW:41:VAL:O	1.79	0.81
34:BA:1454:G:P	53:BX:39:LYS:CD	2.68	0.81
57:BZ:400:TYR:CZ	57:BZ:444:PRO:HG3	2.14	0.81
45:BP:80:HIS:CD2	57:BZ:326:VAL:CA	2.59	0.81
1:AA:1503:U:H2'	1:AA:1504:C:C6	2.15	0.81
57:BZ:258:LEU:HD13	57:BZ:260:LEU:HD22	1.60	0.81
1:AA:1105:U:C6	1:AA:1107:G:O6	2.33	0.81
1:AA:2195:C:H2'	1:AA:2196:C:O4'	1.81	0.81
1:AA:2289:G:H5'	1:AA:2384:G:H1'	1.61	0.81
1:AA:2459:A:H2	1:AA:2492:U:O4	1.62	0.81
1:AA:2740:A:H2'	1:AA:2741:A:C8	2.15	0.81
1:AA:2630:G:N3	1:AA:2894:G:C8	2.47	0.81
1:AA:386:G:N3	1:AA:386:G:H2'	1.95	0.81
1:AA:607:U:O2	1:AA:607:U:H2'	1.78	0.81
1:AA:759:G:H2'	1:AA:760:G:C8	2.16	0.81
1:AA:970:C:H2'	1:AA:971:C:C6	2.15	0.81
2:AB:11:C:H3'	22:AX:74:ARG:CZ	2.11	0.81
2:AB:30:C:H2'	2:AB:31:C:H5'	1.61	0.81
2:AB:40:U:H1'	2:AB:45:A:H62	1.44	0.81
1:AA:2121:G:C1'	3:AC:167:LYS:HE2	2.11	0.81
3:AC:89:ALA:HB1	3:AC:154:ARG:CA	2.10	0.81
4:AD:155:LEU:HD23	4:AD:155:LEU:O	1.81	0.81
4:AD:60:ARG:HD3	4:AD:62:TYR:CE2	2.15	0.81
5:AE:104:VAL:HG12	5:AE:105:THR:N	1.94	0.81
5:AE:33:VAL:HG21	5:AE:77:ILE:CD1	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:104:LYS:HG3	6:AF:108:LYS:NZ	1.94	0.81
9:AK:87:LEU:C	9:AK:90:MET:HB2	2.00	0.81
1:AA:663:G:H4'	11:AM:18:ARG:HH11	1.45	0.81
11:AM:29:LYS:C	11:AM:30:THR:HG23	2.00	0.81
11:AM:65:ARG:NH1	11:AM:68:GLN:NE2	2.28	0.81
16:AR:108:GLU:HB2	16:AR:111:GLU:CD	2.01	0.81
18:AT:64:MET:O	18:AT:66:GLU:N	2.13	0.81
34:BA:1117:G:H21	34:BA:1184:G:H1'	1.46	0.81
34:BA:1313:U:C4	34:BA:1325:C:C2	2.69	0.81
34:BA:1237:C:O2	34:BA:1335:C:H5'	1.80	0.81
34:BA:582:U:H5'	48:BS:64:ARG:HH21	1.43	0.81
34:BA:677:U:H2'	34:BA:678:U:C6	2.13	0.81
34:BA:761:G:H5'	50:BU:103:GLY:N	1.96	0.81
34:BA:859:A:O2'	34:BA:860:A:H5'	1.81	0.81
34:BA:988:G:H2'	34:BA:989:C:O4'	1.80	0.81
35:BF:97:TRP:CH2	35:BF:176:GLU:HG3	2.15	0.81
35:BF:74:LYS:HE2	35:BF:76:GLN:HB2	1.59	0.81
41:BL:14:ARG:CB	41:BL:14:ARG:HH11	1.94	0.81
44:BO:80:VAL:H	44:BO:104:GLN:NE2	1.77	0.81
45:BP:27:LEU:O	45:BP:29:GLY:N	2.12	0.81
48:BS:6:GLU:HG2	48:BS:7:GLU:N	1.94	0.81
50:BU:8:GLY:O	50:BU:56:VAL:HG13	1.80	0.81
53:BX:51:GLU:HB3	53:BX:54:LYS:NZ	1.95	0.81
53:BX:62:LEU:HA	53:BX:65:LYS:CG	2.10	0.81
57:BZ:82:GLY:O	57:BZ:111:PHE:HE2	1.64	0.81
57:BZ:17:GLY:CA	57:BZ:20:THR:HG21	2.10	0.81
57:BZ:19:THR:N	57:BZ:20:THR:OG1	2.13	0.81
57:BZ:2:ILE:HG21	57:BZ:199:VAL:HB	1.62	0.81
46:BQ:48:LEU:HD13	46:BQ:53:VAL:CG2	2.11	0.81
1:AA:1048:A:N1	1:AA:1112:G:O2'	2.14	0.81
1:AA:1203:G:N1	1:AA:1241:A:H8	1.78	0.81
1:AA:1302:A:H5''	1:AA:1303:G:OP2	1.79	0.81
1:AA:1778:U:H2'	1:AA:1779:U:C6	2.15	0.81
1:AA:2226:C:H2'	1:AA:2227:A:O4'	1.80	0.81
1:AA:2756:U:N3	1:AA:2758:A:N6	2.29	0.81
1:AA:2629:A:C4'	1:AA:2895:U:C6	2.62	0.81
1:AA:871:U:H5''	12:AN:9:TYR:CZ	2.16	0.81
3:AC:11:LEU:HD13	5:AE:35:GLN:HE22	193.57	0.81
1:AA:2125:G:OP1	3:AC:71:GLN:HB2	1.79	0.81
1:AA:2620:C:H4'	5:AE:156:MET:HB3	1.62	0.81
6:AF:156:LEU:HG	6:AF:173:VAL:HG23	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:11:TYR:O	7:AG:15:VAL:HG13	1.81	0.81
7:AG:138:GLN:HB2	7:AG:155:MET:HE1	1.62	0.81
7:AG:49:ASP:CA	7:AG:53:LEU:HD22	2.09	0.81
8:AH:11:VAL:HG12	8:AH:11:VAL:O	1.80	0.81
32:AJ:98:ARG:HH12	32:AJ:101:TRP:H	1.28	0.81
32:AJ:103:GLN:O	32:AJ:106:GLU:HG3	1.78	0.81
1:AA:1079:C:O2	32:AJ:132:ARG:HB2	1.32	0.81
32:AJ:51:ALA:O	32:AJ:76:TYR:HB3	1.81	0.81
9:AK:107:LEU:C	9:AK:107:LEU:HD23	2.00	0.81
10:AL:18:LYS:HE2	10:AL:44:LYS:HD3	1.60	0.81
10:AL:67:LYS:HA	10:AL:67:LYS:HE2	1.61	0.81
1:AA:2394:C:OP1	11:AM:57:THR:HA	1.81	0.81
17:AS:62:LEU:HD22	17:AS:99:ILE:N	1.96	0.81
18:AT:44:ALA:O	18:AT:47:VAL:HG23	1.79	0.81
24:AZ:35:ARG:HH12	24:AZ:47:VAL:HG22	1.45	0.81
34:BA:1151:A:N6	34:BA:1152:A:C5	2.48	0.81
34:BA:1164:G:C5	34:BA:1165:C:C4	2.68	0.81
34:BA:423:G:H2'	34:BA:424:G:O4'	1.80	0.81
34:BA:520:A:H62	34:BA:529:G:N2	1.79	0.81
34:BA:55:A:O2'	34:BA:56:U:H5'	1.81	0.81
37:BH:129:ASN:OD1	37:BH:144:ASP:HB3	1.79	0.81
40:BK:29:LYS:HE3	40:BK:101:LEU:HD13	1.62	0.81
42:BM:19:LEU:HD23	42:BM:60:ASP:O	1.81	0.81
46:BQ:65:LYS:HD3	46:BQ:65:LYS:N	1.95	0.81
46:BQ:97:PRO:CG	46:BQ:101:GLN:HG3	2.11	0.81
34:BA:994:A:C2	47:BR:5:ALA:HA	2.16	0.81
51:BV:74:ARG:NH1	51:BV:74:ARG:HG2	1.95	0.81
57:BZ:205:PHE:HD1	57:BZ:229:GLY:C	1.83	0.81
57:BZ:382:VAL:HG23	57:BZ:578:VAL:CB	2.10	0.81
57:BZ:397:GLN:CB	57:BZ:472:TYR:HB3	2.00	0.81
57:BZ:526:ILE:CG1	57:BZ:571:PHE:HZ	1.90	0.81
1:AA:1343:G:H1'	1:AA:1597:A:C2	2.15	0.81
1:AA:1299:G:O6	1:AA:1639:U:H5''	1.80	0.81
1:AA:860:U:C6	1:AA:2267:A:H4'	2.15	0.81
1:AA:220:G:H4'	1:AA:234:C:C4'	2.09	0.81
1:AA:2627:G:C2'	1:AA:2628:C:H5'	2.11	0.81
1:AA:2629:A:N1	1:AA:2801:A:C2	2.49	0.81
1:AA:281:G:N2	1:AA:283:A:H5''	1.96	0.81
1:AA:339:U:H2'	1:AA:340:A:C8	2.16	0.81
1:AA:508:G:O2'	1:AA:509:C:H5''	1.81	0.81
1:AA:620:G:H5'	1:AA:621:A:OP1	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:987:G:OP1	24:AZ:13:ILE:HG21	1.81	0.81
8:AH:7:LEU:HB2	8:AH:52:VAL:HG13	1.61	0.81
32:AJ:108:ALA:N	32:AJ:109:LYS:HB2	1.96	0.81
32:AJ:53:VAL:HG13	32:AJ:71:THR:H	1.45	0.81
9:AK:33:LEU:O	9:AK:35:ARG:N	2.13	0.81
10:AL:117:LEU:HD23	10:AL:118:ALA:N	1.96	0.81
12:AN:85:LYS:C	12:AN:87:LYS:H	1.81	0.81
13:AO:104:ARG:HB2	13:AO:111:LEU:HD11	1.61	0.81
15:AQ:111:ARG:HA	15:AQ:114:LEU:CD1	2.10	0.81
15:AQ:7:ILE:HG13	15:AQ:8:LYS:N	1.96	0.81
16:AR:88:ILE:HG22	17:AS:55:ALA:CB	2.10	0.81
34:BA:1104:G:H4'	35:BF:111:ARG:NE	1.95	0.81
34:BA:1155:G:N2	34:BA:1179:A:H61	1.77	0.81
34:BA:450:G:O6	34:BA:481:G:H2'	1.81	0.81
34:BA:558:G:H2'	34:BA:559:A:H2	1.45	0.81
34:BA:558:G:H3'	34:BA:559:A:C5'	2.09	0.81
55:BC:16:U:O4	55:BC:18:G:H3'	1.80	0.81
35:BF:61:LEU:HA	35:BF:64:ARG:HD3	1.61	0.81
37:BH:13:ARG:HE	37:BH:40:PRO:HB3	1.45	0.81
37:BH:61:LYS:HG3	37:BH:207:TYR:HE1	1.45	0.81
57:BZ:73:VAL:CG1	57:BZ:88:VAL:HG22	2.11	0.81
1:AA:1508:A:H5''	1:AA:1510:A:C5	2.16	0.81
1:AA:1049:C:C5	1:AA:2751:G:O6	2.16	0.81
1:AA:1062:G:N7	1:AA:1063:G:N7	2.29	0.81
1:AA:1142(A):A:H3'	1:AA:1143:A:C5'	2.11	0.81
1:AA:1238:G:O2'	1:AA:1239:G:H5'	1.80	0.81
1:AA:1312:U:C3'	1:AA:1313:U:C6	2.63	0.81
1:AA:269:U:C5'	1:AA:270(Y):G:H2'	2.09	0.81
1:AA:2733:A:H2'	1:AA:2734:A:O5'	1.81	0.81
1:AA:287:C:C2'	1:AA:288:C:C5	2.64	0.81
1:AA:336:C:H2'	1:AA:337:C:H5'	1.62	0.81
1:AA:270:A:C2	1:AA:370:G:H1'	2.14	0.81
1:AA:464:U:O5'	1:AA:464:U:H6	1.63	0.81
1:AA:663:G:H4'	11:AM:18:ARG:NH1	1.96	0.81
1:AA:963:U:H1'	1:AA:2250:G:H21	1.44	0.81
4:AD:177:LEU:HD23	4:AD:181:GLU:O	1.81	0.81
5:AE:92:THR:H	5:AE:95:ILE:HD13	1.43	0.81
8:AH:99:VAL:CG2	8:AH:104:GLU:HG2	2.11	0.81
10:AL:11:ALA:HB3	10:AL:97:ARG:HH12	1.43	0.81
11:AM:16:ARG:CD	11:AM:19:VAL:HG22	2.10	0.81
12:AN:26:TYR:HD1	12:AN:27:VAL:N	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:42:ILE:CD1	12:AN:47:ILE:HG13	2.10	0.81
1:AA:2839:G:H4'	13:AO:49:ASP:OD1	1.81	0.81
1:AA:564:C:H1'	16:AR:37:GLU:CD	2.01	0.81
22:AX:32:ARG:NH1	22:AX:32:ARG:HB2	1.95	0.81
22:AX:7:LEU:H	56:BE:74:C:N4	1.79	0.81
23:AY:52:ILE:O	23:AY:55:LEU:HB2	1.80	0.81
24:AZ:22:ALA:HB1	24:AZ:46:ASN:OD1	1.80	0.81
34:BA:1135:U:H2'	34:BA:1137:C:C6	2.16	0.81
34:BA:867:G:H2'	34:BA:868:C:C6	2.16	0.81
35:BF:104:ASN:OD1	35:BF:108:ILE:HG12	1.80	0.81
35:BF:80:ILE:HD12	35:BF:208:ILE:CG1	2.11	0.81
35:BF:84:GLU:CG	35:BF:234:PRO:HD2	2.10	0.81
37:BH:155:LEU:HD23	37:BH:158:ILE:HD11	1.61	0.81
41:BL:14:ARG:HG2	41:BL:18:ARG:HE	1.46	0.81
43:BN:6:ILE:CG2	43:BN:98:ILE:HG13	2.11	0.81
44:BO:18:ARG:HA	44:BO:80:VAL:HG23	1.63	0.81
57:BZ:206:GLN:O	57:BZ:227:LYS:CG	2.28	0.81
57:BZ:27:GLN:OE1	57:BZ:183:MET:HB2	1.79	0.81
57:BZ:309:MET:CG	57:BZ:358:VAL:HB	2.10	0.81
57:BZ:538:LEU:HB2	57:BZ:539:THR:CB	2.11	0.81
32:AJ:92:GLY:HA3	32:AJ:93:ARG:CB	2.07	0.81
1:AA:1416:G:C2	1:AA:1583:A:N6	2.49	0.81
1:AA:1062:G:H1'	1:AA:1063:G:C5'	2.10	0.81
1:AA:1958:C:O2'	1:AA:1959:G:H5'	1.81	0.81
1:AA:2021:C:H2'	1:AA:2022:U:OP1	1.80	0.81
1:AA:2022:U:H5'	1:AA:2023:G:OP2	1.81	0.81
1:AA:2352:A:H2'	1:AA:2353:G:O4'	1.81	0.81
1:AA:2447:G:C5'	1:AA:2500:U:OP2	2.28	0.81
1:AA:2734:A:N6	1:AA:2770:G:H1'	1.96	0.81
1:AA:2865:U:C4	1:AA:2866:U:C5	2.69	0.81
1:AA:292:C:H2'	1:AA:293:U:C2	2.16	0.81
1:AA:477:A:H2'	1:AA:478:A:C8	2.15	0.81
1:AA:894:C:C2'	1:AA:895:U:H5'	2.10	0.81
1:AA:935:C:H2'	1:AA:936:C:H6	1.46	0.81
1:AA:2597:G:H5'	4:AD:242:ARG:HG2	1.62	0.81
4:AD:258:LYS:HA	4:AD:261:LYS:CE	2.11	0.81
5:AE:104:VAL:HG22	5:AE:198:VAL:CG1	2.10	0.81
5:AE:91:VAL:CG2	5:AE:93:VAL:HG13	2.09	0.81
32:AJ:108:ALA:HB2	32:AJ:111:LYS:HB3	1.63	0.81
32:AJ:75:SER:HB3	32:AJ:130:SER:CA	2.10	0.81
9:AK:42:TRP:O	9:AK:43:THR:HG23	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:89:LYS:HG2	9:AK:90:MET:N	1.96	0.81
10:AL:116:SER:CB	34:BA:345:C:O2	2.29	0.81
11:AM:16:ARG:HD3	11:AM:19:VAL:HG22	1.62	0.81
1:AA:1453:A:N6	13:AO:63:ARG:HH21	1.77	0.81
17:AS:35:LEU:H	17:AS:61:VAL:HG13	1.45	0.81
17:AS:73:SER:OG	17:AS:89:GLN:HB2	1.80	0.81
18:AT:41:LYS:HB3	18:AT:41:LYS:NZ	1.94	0.81
20:AV:12:THR:HG23	20:AV:73:ARG:HG3	1.63	0.81
22:AX:72:ARG:HG3	22:AX:78:TYR:HB2	1.63	0.81
24:AZ:31:LEU:HD12	24:AZ:32:GLN:NE2	1.95	0.81
34:BA:1433:A:H2'	34:BA:1434:A:O4'	1.81	0.81
34:BA:1480:G:O2'	34:BA:1481:U:H5'	1.81	0.81
34:BA:29:G:H5'	34:BA:296:U:OP1	1.80	0.81
34:BA:573:A:N3	34:BA:883:C:O2'	2.13	0.81
35:BF:208:ILE:HA	35:BF:211:ILE:HB	1.63	0.81
35:BF:234:PRO:HA	35:BF:238:LEU:HD13	1.60	0.81
36:BG:181:ASN:ND2	36:BG:206:GLU:HG2	1.96	0.81
39:BJ:48:LEU:N	39:BJ:48:LEU:HD23	1.94	0.81
44:BO:87:THR:HA	44:BO:91:ARG:NH1	1.96	0.81
51:BV:49:LYS:H	51:BV:49:LYS:HE3	1.43	0.81
51:BV:55:ARG:NH1	51:BV:55:ARG:HB3	1.96	0.81
53:BX:51:GLU:HA	53:BX:54:LYS:HD2	1.61	0.81
56:BD:51:U:N3	56:BD:64:A:C6	2.47	0.81
56:BD:7:A:N1	56:BD:67:C:C4	2.48	0.81
57:BZ:507:ARG:C	57:BZ:528:SER:OG	2.20	0.81
1:AA:1001:A:H2'	1:AA:1002:G:O4'	1.81	0.81
1:AA:1624:G:H2'	1:AA:1625:C:H5	1.46	0.81
1:AA:1964:G:C2	1:AA:1967:C:C5	2.69	0.81
1:AA:2331:G:N2	1:AA:2385:C:C4	2.49	0.81
1:AA:245:G:N2	1:AA:254:G:H1'	1.96	0.81
1:AA:2715:C:O2'	1:AA:2716:U:H5'	1.80	0.81
1:AA:2788:C:C4	1:AA:2789:C:C5	2.68	0.81
1:AA:2789:C:O2'	1:AA:2791:C:H5''	1.80	0.81
1:AA:2816:C:O2'	1:AA:2817:G:H5'	1.80	0.81
1:AA:728:G:C6	1:AA:762:U:H2'	2.16	0.81
1:AA:828:U:C2'	1:AA:829:A:H8	1.90	0.81
1:AA:930:U:O5'	1:AA:930:U:C6	2.35	0.81
3:AC:29:VAL:HA	3:AC:32:LEU:HD12	1.61	0.81
4:AD:258:LYS:HA	4:AD:261:LYS:HZ2	1.46	0.81
7:AG:26:GLN:NE2	7:AG:31:VAL:HG21	1.96	0.81
10:AL:97:ARG:C	10:AL:97:ARG:NE	2.34	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:38:GLN:C	11:AM:40:SER:N	2.33	0.81
13:AO:17:ARG:HG3	13:AO:18:LEU:N	1.96	0.81
1:AA:531:C:N4	16:AR:38:THR:HA	1.95	0.81
17:AS:20:LEU:HD13	17:AS:68:LYS:NZ	1.96	0.81
19:AU:47:PHE:CE2	19:AU:89:ILE:HA	2.14	0.81
21:AW:102:LEU:HD13	21:AW:137:ILE:O	1.80	0.81
34:BA:1037:C:H2'	34:BA:1038:C:C6	2.16	0.81
34:BA:1117:G:N1	34:BA:1184:G:C8	2.49	0.81
34:BA:1277:C:H4'	34:BA:1282:C:C1'	2.11	0.81
34:BA:692:U:H1'	34:BA:694:A:C8	2.16	0.81
34:BA:9:G:H5''	38:BI:126:ARG:CD	2.10	0.81
35:BF:10:LEU:HD23	35:BF:11:LEU:CD2	2.11	0.81
36:BG:156:ARG:HD2	36:BG:163:ALA:HB2	1.63	0.81
36:BG:24:ALA:HB1	36:BG:28:GLN:OE1	1.80	0.81
39:BJ:6:VAL:HG22	39:BJ:8:ILE:CD1	2.11	0.81
45:BP:105:TYR:O	57:BZ:329:ARG:NH1	2.14	0.81
48:BS:31:LEU:HA	48:BS:34:LEU:CD2	2.09	0.81
48:BS:42:HIS:CG	48:BS:43:LEU:N	2.48	0.81
34:BA:582:U:H5'	48:BS:64:ARG:NH2	1.96	0.81
57:BZ:26:LEU:HD12	57:BZ:29:SER:HB3	1.61	0.81
57:BZ:63:ALA:HB1	57:BZ:65:LYS:CG	2.11	0.81
57:BZ:82:GLY:CA	57:BZ:361:ARG:HB3	2.11	0.81
57:BZ:491:ASN:OD1	57:BZ:536:ASN:CB	2.27	0.81
43:BN:96:ILE:HG13	43:BN:96:ILE:O	1.79	0.81
1:AA:1064:C:H3'	1:AA:1065:U:H5	1.45	0.80
1:AA:1161:C:H1'	17:AS:22:VAL:HG11	1.60	0.80
1:AA:120:U:O2'	1:AA:121:G:H5''	1.81	0.80
1:AA:1387:C:H2'	1:AA:1388:G:C8	2.16	0.80
1:AA:1460:A:N1	1:AA:1732:A:N1	2.28	0.80
1:AA:2177:C:O2'	3:AC:211:SER:CB	2.29	0.80
1:AA:2254:C:H2'	1:AA:2255:G:C5'	2.11	0.80
1:AA:2394:C:N4	1:AA:2422:A:H61	1.79	0.80
1:AA:2453:A:O2'	1:AA:2572:A:H1'	1.80	0.80
1:AA:2468:G:O2'	1:AA:2469:A:H5'	1.79	0.80
1:AA:2553:G:N2	1:AA:2554:U:C1'	2.35	0.80
1:AA:2820:A:H5'	1:AA:2821:A:N7	1.95	0.80
1:AA:312:G:N3	1:AA:312:G:H2'	1.95	0.80
1:AA:609:A:C6	1:AA:609(A):G:O6	2.35	0.80
1:AA:624:C:H3'	1:AA:624:C:C6	2.15	0.80
1:AA:775:G:N2	1:AA:787:U:H2'	1.95	0.80
2:AB:82:G:H2'	2:AB:83:G:H8	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:102:PHE:CD2	7:AG:106:LEU:HD12	2.15	0.80
7:AG:36:LYS:HB2	7:AG:95:ARG:HD3	1.61	0.80
8:AH:41:MET:SD	8:AH:68:THR:OG1	2.38	0.80
10:AL:10:VAL:C	10:AL:17:ARG:HG3	2.01	0.80
14:AP:95:HIS:HA	14:AP:99:LYS:HD2	1.63	0.80
20:AV:45:VAL:HG12	20:AV:57:GLN:OE1	1.81	0.80
34:BA:1068:G:N7	34:BA:1094:G:C8	2.49	0.80
34:BA:1151:A:C6	34:BA:1152:A:C5	2.68	0.80
34:BA:1154:G:O2'	34:BA:1155:G:H5'	1.80	0.80
34:BA:1317:C:C4	34:BA:1318:A:C5	2.68	0.80
34:BA:265:G:H2'	34:BA:267:C:C5	2.14	0.80
34:BA:280:C:H5''	34:BA:281:G:OP2	1.81	0.80
34:BA:333:G:H4'	53:BX:16:HIS:CD2	2.16	0.80
45:BP:85:ILE:HD11	45:BP:98:TYR:HB2	1.63	0.80
34:BA:449:C:O2	49:BT:42:ARG:HG2	1.81	0.80
57:BZ:20:THR:N	57:BZ:23:ASP:OD1	2.14	0.80
57:BZ:406:ASP:CA	57:BZ:407:VAL:HG13	2.11	0.80
57:BZ:499:PHE:HB3	57:BZ:540:GLY:CA	2.10	0.80
32:AJ:16:LYS:O	32:AJ:45:THR:OG1	1.98	0.80
1:AA:1609:A:C8	1:AA:1616:A:H1'	2.16	0.80
1:AA:2415:G:H5''	11:AM:61:ARG:HD2	1.62	0.80
1:AA:2519:U:H5''	1:AA:2520:C:OP1	1.81	0.80
1:AA:2776:A:H4'	1:AA:2777:G:C5'	2.12	0.80
1:AA:371:A:O2'	1:AA:372:G:OP1	1.99	0.80
1:AA:855:G:H21	22:AX:27:GLU:CB	1.93	0.80
1:AA:917:A:H3'	1:AA:918:A:H5''	1.62	0.80
3:AC:30:LYS:HG2	3:AC:178:ALA:O	1.81	0.80
3:AC:175:VAL:HG12	3:AC:189:ILE:CA	2.04	0.80
3:AC:43:VAL:HG13	3:AC:213:TYR:C	2.02	0.80
3:AC:75:LEU:HD11	3:AC:99:ILE:HD13	1.60	0.80
6:AF:43:LYS:HA	6:AF:97:TYR:O	1.81	0.80
6:AF:64:ILE:HD13	6:AF:65:TRP:H	1.43	0.80
7:AG:113:ARG:HD3	7:AG:139:LEU:CD2	2.11	0.80
7:AG:53:LEU:HB3	7:AG:69:ALA:O	1.80	0.80
7:AG:59:GLU:OE2	7:AG:152:LEU:HD13	1.80	0.80
8:AH:103:LEU:HG	8:AH:105:LEU:HD11	1.62	0.80
32:AJ:27:LEU:HB3	32:AJ:59:ILE:HG23	1.63	0.80
32:AJ:27:LEU:HD11	32:AJ:57:ILE:CB	2.11	0.80
9:AK:100:GLU:O	9:AK:103:VAL:HG13	1.82	0.80
11:AM:88:LEU:HD11	11:AM:124:LYS:HZ1	1.47	0.80
12:AN:51:ARG:HD3	12:AN:52:VAL:N	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:36:THR:O	13:AO:111:LEU:HB3	1.80	0.80
16:AR:31:SER:O	16:AR:32:PHE:C	2.19	0.80
21:AW:144:LEU:CB	21:AW:174:VAL:HG11	2.10	0.80
24:AZ:23:LEU:O	24:AZ:28:LEU:HG	1.81	0.80
34:BA:112:G:O2'	34:BA:113:G:H5'	1.81	0.80
34:BA:1256:A:N1	34:BA:1278:U:O2'	2.13	0.80
34:BA:1255:G:H21	34:BA:1276:G:N2	1.79	0.80
34:BA:1405:G:C6	34:BA:1497:G:C6	2.69	0.80
34:BA:262:A:H2'	34:BA:263:A:N7	1.97	0.80
34:BA:477:G:H2'	34:BA:478:A:C8	2.16	0.80
34:BA:952:U:O2'	34:BA:965:A:N6	2.14	0.80
35:BF:97:TRP:HZ2	35:BF:102:LEU:CD1	1.94	0.80
35:BF:196:LEU:HD12	35:BF:197:VAL:N	1.97	0.80
35:BF:97:TRP:HH2	35:BF:176:GLU:CD	1.84	0.80
37:BH:127:THR:O	37:BH:146:ILE:HA	1.81	0.80
43:BN:49:VAL:HG13	47:BR:41:ARG:CD	2.11	0.80
45:BP:9:GLN:HA	45:BP:12:ARG:HH12	1.46	0.80
51:BV:45:SER:OG	51:BV:51:LEU:HD11	1.80	0.80
53:BX:23:ARG:HA	53:BX:26:ASN:OD1	1.81	0.80
57:BZ:169:ASN:HD21	57:BZ:183:MET:HB3	1.46	0.80
57:BZ:240:ILE:HD13	57:BZ:287:THR:HG23	0.84	0.80
57:BZ:2:ILE:CG2	57:BZ:199:VAL:CB	2.58	0.80
57:BZ:6:ARG:HG2	57:BZ:68:TYR:O	1.81	0.80
1:AA:1068:G:H5'	1:AA:1096:A:H1'	1.61	0.80
1:AA:1542:G:C1'	1:AA:1543:A:C6	2.63	0.80
1:AA:1617:C:O2	1:AA:1617:C:H2'	1.79	0.80
1:AA:1638:C:H5''	1:AA:2710:C:H1'	1.63	0.80
1:AA:1664:A:H2'	1:AA:1665:A:C8	2.15	0.80
1:AA:1889:A:H2'	1:AA:1890:A:C8	2.16	0.80
1:AA:2123:G:O4'	3:AC:172:HIS:CB	2.28	0.80
1:AA:825:C:H1'	1:AA:2428:G:N2	1.96	0.80
1:AA:2676:C:H2'	1:AA:2677:G:H8	1.45	0.80
1:AA:475:U:H4'	1:AA:510:C:OP2	1.80	0.80
2:AB:24:G:H2'	2:AB:56:G:O6	1.81	0.80
3:AC:62:VAL:HB	3:AC:192:PHE:HA	1.63	0.80
4:AD:172:TYR:O	4:AD:184:LYS:HE2	1.80	0.80
1:AA:2051:A:H4'	5:AE:141:ILE:CD1	2.11	0.80
6:AF:171:PRO:HB2	6:AF:172:TRP:HE3	1.46	0.80
7:AG:131:TYR:CZ	7:AG:157:ILE:O	2.34	0.80
7:AG:141:PHE:C	7:AG:143:GLU:H	1.81	0.80
7:AG:55:LYS:HE2	7:AG:151:ALA:HB1	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:73:ALA:N	7:AG:88:ILE:HD11	1.96	0.80
32:AJ:12:LEU:HD11	32:AJ:41:PHE:CZ	2.14	0.80
9:AK:85:ILE:HB	9:AK:90:MET:CE	2.11	0.80
10:AL:59:LYS:HE2	10:AL:59:LYS:N	1.96	0.80
11:AM:37:GLY:C	11:AM:40:SER:HB3	2.00	0.80
12:AN:74:TYR:N	12:AN:74:TYR:HD2	1.78	0.80
13:AO:54:LEU:O	13:AO:57:ARG:HB2	1.80	0.80
15:AQ:32:TYR:N	15:AQ:32:TYR:CD1	2.48	0.80
18:AT:3:ALA:HB3	18:AT:107:LEU:HB3	1.62	0.80
18:AT:40:ASN:OD1	18:AT:41:LYS:HG3	1.81	0.80
20:AV:8:LYS:HA	20:AV:28:LYS:HD2	1.60	0.80
21:AW:4:ARG:O	21:AW:5:LEU:HD23	1.81	0.80
21:AW:79:ARG:C	21:AW:80:ARG:HD2	2.02	0.80
34:BA:1239:A:H4'	34:BA:1240:U:C5'	2.11	0.80
34:BA:1308:U:H5'	46:BQ:110:ARG:HH11	1.41	0.80
34:BA:263:A:H2'	34:BA:264:U:C5'	2.07	0.80
34:BA:270:A:H2'	34:BA:271:C:H6	1.45	0.80
34:BA:37:U:O4	34:BA:38:G:C4	2.34	0.80
41:BL:80:ILE:CD1	41:BL:80:ILE:H	1.94	0.80
42:BM:9:ARG:O	42:BM:104:ARG:HG2	1.81	0.80
42:BM:29:ASN:OD1	42:BM:64:THR:HA	1.82	0.80
43:BN:72:VAL:O	43:BN:73:ASP:HB2	1.78	0.80
45:BP:87:GLY:HA2	45:BP:98:TYR:HB3	1.63	0.80
46:BQ:86:CYS:O	52:BW:73:GLU:O	1.99	0.80
34:BA:1308:U:O3'	46:BQ:92:HIS:CE1	2.34	0.80
57:BZ:373:MET:CE	57:BZ:380:LEU:HD23	2.11	0.80
57:BZ:502:PHE:CZ	57:BZ:556:VAL:N	2.50	0.80
1:AA:1039:G:O2'	1:AA:1040:C:O5'	1.98	0.80
11:AM:149:GLU:CD	11:AM:150:ALA:H	1.84	0.80
1:AA:1037:G:C2	1:AA:1119:C:O2	2.33	0.80
1:AA:1930:G:N2	1:AA:1969:A:OP2	2.13	0.80
1:AA:2468:G:H3'	1:AA:2476:A:N1	1.96	0.80
1:AA:2647:U:HO2'	1:AA:2648:C:H6	1.27	0.80
1:AA:2652:C:O2'	1:AA:2653:U:OP1	1.98	0.80
1:AA:2687:U:C2	1:AA:2688:U:H6	2.00	0.80
1:AA:875:G:N2	1:AA:902:C:H1'	1.95	0.80
1:AA:90:U:H4'	1:AA:91:A:O5'	1.80	0.80
3:AC:73:ARG:HG2	3:AC:92:ASP:OD2	1.82	0.80
4:AD:119:ALA:HB1	4:AD:130:ALA:O	1.79	0.80
6:AF:12:LEU:O	6:AF:14:PRO:HD3	1.81	0.80
6:AF:153:SER:HA	6:AF:172:TRP:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1131:G:OP1	9:AK:79:PRO:HD3	1.80	0.80
10:AL:105:GLU:O	10:AL:111:PHE:CZ	2.31	0.80
10:AL:9:GLU:HA	10:AL:17:ARG:O	1.80	0.80
14:AP:89:ARG:CG	14:AP:90:GLY:H	1.94	0.80
15:AQ:21:GLU:HG3	15:AQ:88:ILE:HD13	1.64	0.80
16:AR:55:ARG:H	16:AR:55:ARG:HD2	1.46	0.80
17:AS:57:VAL:HG12	17:AS:58:VAL:N	1.96	0.80
19:AU:40:LYS:HA	19:AU:51:VAL:HG11	1.63	0.80
21:AW:57:ILE:HG22	21:AW:58:VAL:N	1.96	0.80
34:BA:1037:C:H2'	34:BA:1038:C:H6	1.45	0.80
34:BA:1045:C:H2'	34:BA:1046:A:H8	1.43	0.80
34:BA:1145:C:H1'	34:BA:1146:A:N7	1.95	0.80
34:BA:1117:G:N1	34:BA:1184:G:N7	2.28	0.80
34:BA:913:A:O2'	34:BA:914:A:O4'	1.98	0.80
36:BG:48:TYR:HA	36:BG:52:LEU:CD2	2.11	0.80
34:BA:619:U:O2	37:BH:135:LEU:HD11	1.82	0.80
41:BL:18:ARG:CG	41:BL:18:ARG:HH11	1.95	0.80
34:BA:1347:G:H8	42:BM:107:ARG:CB	1.93	0.80
46:BQ:20:THR:HA	46:BQ:26:GLY:H	0.99	0.80
46:BQ:36:LYS:NZ	46:BQ:59:TYR:HB3	1.95	0.80
47:BR:39:LEU:HD13	47:BR:44:LEU:HA	1.62	0.80
48:BS:65:ARG:O	48:BS:68:ARG:HB3	1.81	0.80
50:BU:66:SER:CB	50:BU:69:LYS:HZ3	1.94	0.80
52:BW:51:VAL:HG11	52:BW:75:ALA:CB	2.11	0.80
57:BZ:18:LYS:O	57:BZ:21:LEU:HG	1.81	0.80
56:BD:4:C:C1'	56:BD:70:G:H22	1.90	0.80
1:AA:1222:C:C4	1:AA:1223:C:H5	1.99	0.80
1:AA:1259:G:H2'	1:AA:1260:G:C8	2.16	0.80
1:AA:1639:U:H2'	1:AA:1640:C:H5''	1.64	0.80
1:AA:1906:G:C8	1:AA:1929:G:N9	2.48	0.80
1:AA:2538:C:O2	1:AA:2539:C:C5	2.34	0.80
1:AA:2568:C:C2'	1:AA:2569:G:H5'	2.10	0.80
1:AA:2631:G:N7	1:AA:2894:G:C8	2.49	0.80
1:AA:2835:A:H1'	1:AA:2836:U:H5	1.46	0.80
1:AA:374:A:H3'	1:AA:375:C:H6	1.46	0.80
1:AA:642:G:N2	1:AA:644:A:C2	2.49	0.80
1:AA:67:U:H2'	1:AA:68:G:C8	2.16	0.80
2:AB:35:U:H2'	2:AB:35:U:O2	1.80	0.80
3:AC:10:LEU:HD11	3:AC:32:LEU:HB3	1.62	0.80
3:AC:68:LEU:HD23	3:AC:69:GLY:N	1.95	0.80
4:AD:181:GLU:HG3	4:AD:270:ILE:CB	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:7:VAL:CG2	5:AE:192:ASN:HA	2.10	0.80
7:AG:181:ARG:N	7:AG:181:ARG:HD2	1.95	0.80
8:AH:101:ARG:HD3	8:AH:117:PRO:HG3	1.64	0.80
32:AJ:105:LEU:CD2	32:AJ:123:ALA:HB1	2.11	0.80
10:AL:106:LEU:HB2	15:AQ:39:ARG:NH2	1.95	0.80
10:AL:47:ILE:CD1	10:AL:52:VAL:HG13	2.11	0.80
12:AN:16:ARG:NE	12:AN:73:PRO:HD3	1.96	0.80
12:AN:34:LEU:HD12	12:AN:67:ARG:NH2	1.97	0.80
14:AP:14:VAL:HG12	14:AP:15:ARG:N	1.96	0.80
20:AV:32:PRO:HB2	20:AV:34:LYS:HG3	1.64	0.80
20:AV:37:VAL:HG12	20:AV:64:GLU:HG2	1.63	0.80
20:AV:72:VAL:HG21	20:AV:96:ILE:HG12	1.60	0.80
34:BA:1270:C:O2'	34:BA:1313:U:C3'	2.28	0.80
34:BA:1436:U:H2'	34:BA:1437:C:C6	2.16	0.80
34:BA:186(D):C:H2'	34:BA:186(E):C:H6	1.43	0.80
34:BA:620:C:H2'	34:BA:621:A:O4'	1.81	0.80
34:BA:858:G:H1	34:BA:869:G:H3'	1.44	0.80
34:BA:973:G:H1'	43:BN:55:LYS:H	1.47	0.80
35:BF:157:ARG:C	35:BF:158:LEU:HD23	2.02	0.80
36:BG:46:GLU:HB3	36:BG:47:LEU:HD22	1.62	0.80
34:BA:541:G:H4'	37:BH:42:GLN:HB2	1.63	0.80
37:BH:94:LEU:HA	37:BH:97:LEU:HD12	1.64	0.80
39:BJ:14:LEU:HD13	39:BJ:18:GLN:HB3	1.63	0.80
42:BM:47:LEU:HD11	42:BM:56:LEU:HG	1.62	0.80
45:BP:84:LEU:HB3	45:BP:104:VAL:CG1	2.10	0.80
36:BG:8:ILE:HG21	47:BR:50:LYS:O	1.81	0.80
48:BS:49:ASP:O	48:BS:49:ASP:CG	2.18	0.80
1:AA:1580:A:H2'	1:AA:1581:G:N9	1.96	0.80
1:AA:1252:G:H3'	1:AA:1253:A:O4'	1.81	0.80
1:AA:152:G:HO2'	1:AA:153:C:H5'	1.47	0.80
1:AA:2493:U:H6	1:AA:2493:U:H3'	1.46	0.80
4:AD:108:PRO:HB2	4:AD:111:LEU:HD21	1.62	0.80
4:AD:80:ALA:HB2	4:AD:96:HIS:HD1	1.45	0.80
5:AE:154:LYS:HZ3	5:AE:156:MET:CE	1.94	0.80
5:AE:100:GLU:H	5:AE:172:VAL:HG21	1.44	0.80
5:AE:60:ASN:HA	5:AE:63:LEU:HD12	1.64	0.80
6:AF:42:ALA:O	6:AF:45:ARG:HB2	1.82	0.80
8:AH:98:LEU:CG	8:AH:123:PHE:HB2	2.11	0.80
8:AH:77:LYS:O	8:AH:80:SER:OG	2.00	0.80
32:AJ:81:ALA:O	32:AJ:99:ILE:CG2	2.30	0.80
20:AV:75:ILE:HG22	20:AV:100:ALA:CB	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:24:LEU:HD13	21:AW:83:PRO:HD2	1.64	0.80
23:AY:20:VAL:HG21	23:AY:56:LEU:HD11	1.61	0.80
34:BA:1113:C:O2'	34:BA:1114:C:H5'	1.81	0.80
34:BA:495:A:H1'	34:BA:496:A:N7	1.97	0.80
56:BE:3:C:H2'	56:BE:4:C:C5	2.17	0.80
35:BF:164:VAL:HG12	35:BF:186:ALA:HB2	1.64	0.80
35:BF:60:ASP:HB3	35:BF:64:ARG:HH12	1.47	0.80
35:BF:90:MET:SD	35:BF:91:PRO:HD2	2.21	0.80
50:BU:7:THR:HG23	50:BU:57:VAL:O	1.81	0.80
50:BU:80:GLY:O	50:BU:82:MET:HG2	1.80	0.80
57:BZ:131:ASP:OD1	57:BZ:166:SER:CA	2.28	0.80
57:BZ:311:PHE:N	57:BZ:356:PHE:H	1.78	0.80
57:BZ:564:THR:HB	57:BZ:566:GLU:O	1.82	0.80
57:BZ:526:ILE:CG1	57:BZ:571:PHE:CZ	2.58	0.80
55:BC:40:C:H2'	55:BC:41:C:H6	1.46	0.80
1:AA:1022:G:N2	1:AA:1023:U:O4	2.14	0.80
1:AA:1087:G:H2'	1:AA:1089:G:C4'	2.11	0.80
1:AA:1299:G:H22	1:AA:1640:C:H5'	1.46	0.80
1:AA:1943:U:C2	1:AA:1945:G:H5''	2.17	0.80
1:AA:776:G:H1'	1:AA:793:A:N1	1.97	0.80
1:AA:846:C:O2'	1:AA:847:U:OP2	1.98	0.80
1:AA:850:C:O2'	1:AA:851:U:H5'	1.82	0.80
1:AA:880:G:H2'	1:AA:881:G:H4'	1.64	0.80
1:AA:2152:G:OP1	3:AC:3:HIS:N	2.13	0.80
4:AD:133:LEU:O	4:AD:135:PHE:N	2.14	0.80
1:AA:781:A:C1'	4:AD:222:ARG:HH12	1.91	0.80
4:AD:232:PRO:CG	4:AD:247:ALA:HA	2.12	0.80
4:AD:64:ILE:O	4:AD:65:ILE:HD13	1.82	0.80
7:AG:55:LYS:O	7:AG:59:GLU:HG2	1.81	0.80
8:AH:105:LEU:N	8:AH:105:LEU:HD23	1.96	0.80
32:AJ:105:LEU:CA	32:AJ:123:ALA:HB1	2.12	0.80
32:AJ:19:PRO:CG	32:AJ:37:PHE:N	2.40	0.80
1:AA:1059:G:C2'	32:AJ:74:ALA:N	2.44	0.80
10:AL:39:ILE:C	10:AL:59:LYS:NZ	2.35	0.80
10:AL:97:ARG:CZ	10:AL:98:VAL:N	2.44	0.80
12:AN:124:LYS:CB	12:AN:124:LYS:HZ2	1.89	0.80
15:AQ:53:ARG:CZ	15:AQ:102:ILE:HG12	2.11	0.80
10:AL:121:VAL:HG13	15:AQ:68:TYR:OH	1.82	0.80
16:AR:38:THR:O	16:AR:41:ALA:HB3	1.81	0.80
16:AR:8:VAL:HG23	16:AR:9:VAL:N	1.97	0.80
21:AW:104:PHE:HA	21:AW:139:VAL:O	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1005:A:H3'	34:BA:1006:C:C6	2.14	0.80
34:BA:1114:C:H1'	34:BA:1187:G:N2	1.97	0.80
34:BA:1406:U:O2	34:BA:1406:U:H2'	1.80	0.80
34:BA:1459:C:H2'	34:BA:1460:A:C8	2.16	0.80
34:BA:551:U:H2'	34:BA:552:U:C5	2.16	0.80
36:BG:20:SER:HB2	36:BG:40:ARG:NH2	1.95	0.80
34:BA:1189:C:H5"	36:BG:5:ILE:HG12	1.63	0.80
37:BH:18:LYS:HA	37:BH:33:MET:HE2	1.63	0.80
38:BI:29:GLY:HA2	38:BI:46:GLY:O	1.80	0.80
38:BI:60:TYR:O	38:BI:64:ARG:HG2	1.82	0.80
40:BK:28:ASN:O	40:BK:31:MET:HB3	1.80	0.80
44:BO:84:VAL:HG21	51:BV:88:LYS:CD	2.11	0.80
46:BQ:20:THR:OG1	46:BQ:26:GLY:CA	2.23	0.80
51:BV:70:ILE:O	51:BV:74:ARG:HD2	1.81	0.80
53:BX:62:LEU:CA	53:BX:65:LYS:HG2	2.12	0.80
57:BZ:127:ILE:HB	57:BZ:164:TYR:CA	2.12	0.80
57:BZ:124:ILE:HA	57:BZ:161:ALA:CB	2.12	0.80
57:BZ:406:ASP:CA	57:BZ:407:VAL:HG22	2.10	0.80
57:BZ:75:THR:HG21	57:BZ:84:GLU:OE1	1.80	0.80
31:AI:52:PHE:O	31:AI:86:PRO:CA	2.29	0.80
56:BD:2:C:N3	56:BD:71:G:C2	2.49	0.80
57:BZ:539:THR:HA	57:BZ:541:LYS:H	1.47	0.80
1:AA:1488:G:H2'	1:AA:1489:U:C5'	2.10	0.80
37:BH:194:LEU:HD22	37:BH:194:LEU:N	1.95	0.80
57:BZ:258:LEU:HB3	57:BZ:260:LEU:N	1.97	0.80
1:AA:2187:G:H2'	1:AA:2188:C:H6	1.47	0.80
1:AA:1143:A:H2'	1:AA:1144:G:H8	1.42	0.80
1:AA:1155:A:H2'	1:AA:1156:A:C5'	2.11	0.80
1:AA:1325:G:N2	18:AT:86:LEU:HD13	1.96	0.80
1:AA:1527:G:C8	1:AA:1527:G:H3'	2.17	0.80
1:AA:193:U:H4'	1:AA:803:U:C4'	2.12	0.80
1:AA:2072:G:C4	1:AA:2073:C:C5	2.70	0.80
1:AA:2129:C:H5"	3:AC:6:ARG:HG3	1.63	0.80
1:AA:2269:A:C2	1:AA:2270:G:H1'	2.16	0.80
1:AA:2673:G:C2	1:AA:2674:G:C5	2.69	0.80
1:AA:2771:C:H2'	1:AA:2772:C:C6	2.17	0.80
1:AA:49:A:H1'	1:AA:118:A:N6	1.96	0.80
1:AA:616:A:H4'	1:AA:617:G:OP1	1.82	0.80
1:AA:718:A:H5"	1:AA:719:C:C5	2.17	0.80
1:AA:970:C:H2'	1:AA:971:C:H6	1.45	0.80
1:AA:2125:G:N3	3:AC:218:MET:CA	2.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:97:GLU:CA	3:AC:100:ILE:HD12	2.10	0.80
5:AE:43:GLY:O	5:AE:45:THR:HG22	1.82	0.80
5:AE:5:LEU:HD13	5:AE:196:VAL:O	1.80	0.80
6:AF:157:VAL:HG12	6:AF:176:LEU:HD23	1.63	0.80
7:AG:125:PHE:HB2	7:AG:131:TYR:O	1.82	0.80
8:AH:169:VAL:O	8:AH:171:LEU:HG	1.82	0.80
10:AL:4:PRO:CG	10:AL:5:GLN:H	1.88	0.80
11:AM:81:GLN:HB3	11:AM:86:LYS:HG3	1.64	0.80
13:AO:73:VAL:HG23	13:AO:74:LYS:H	1.47	0.80
16:AR:98:LEU:HB3	16:AR:105:VAL:CG1	2.11	0.80
19:AU:63:LYS:H	19:AU:72:LYS:HG2	1.46	0.80
22:AX:21:LEU:HG	22:AX:39:ARG:O	1.81	0.80
34:BA:1161:C:N3	34:BA:1162:C:N4	2.29	0.80
34:BA:11:G:H2'	34:BA:12:U:O4'	1.81	0.80
34:BA:1486:G:O6	34:BA:1487:G:C6	2.35	0.80
34:BA:251:G:H22	34:BA:272:C:N4	1.80	0.80
34:BA:518:C:O2'	34:BA:519:C:OP2	2.00	0.80
34:BA:775:G:N3	34:BA:776:G:N7	2.29	0.80
36:BG:10:PHE:HD1	36:BG:178:LEU:HD22	1.44	0.80
37:BH:155:LEU:H	37:BH:158:ILE:HG13	1.45	0.80
37:BH:15:GLU:HG2	37:BH:63:LYS:HB3	1.64	0.80
37:BH:55:ALA:O	37:BH:59:ARG:CG	2.28	0.80
41:BL:68:ARG:HD3	41:BL:69:ARG:N	1.96	0.80
42:BM:27:THR:HB	42:BM:62:TYR:CD1	2.17	0.80
45:BP:24:VAL:HG22	45:BP:98:TYR:CZ	2.17	0.80
46:BQ:16:ASP:CA	46:BQ:34:LEU:HD11	2.00	0.80
46:BQ:73:GLU:O	46:BQ:77:ASN:CG	2.20	0.80
53:BX:11:SER:HA	53:BX:13:LEU:CD1	2.11	0.80
57:BZ:407:VAL:N	57:BZ:408:GLU:HG3	1.97	0.80
57:BZ:28:GLN:O	57:BZ:60:ASN:CB	2.30	0.80
57:BZ:73:VAL:HG21	57:BZ:88:VAL:HG11	1.62	0.80
23:AY:1:MET:HB3	23:AY:4:GLN:HB2	1.61	0.80
23:AY:5:LEU:O	23:AY:8:ALA:HB3	1.82	0.80
1:AA:1037:G:N2	1:AA:1119:C:H1'	1.97	0.80
1:AA:973:A:H1'	1:AA:1188:U:O4	1.82	0.80
1:AA:1691:C:O2'	1:AA:1692:U:H5'	1.82	0.80
1:AA:1937:A:N6	1:AA:1939:U:C5	2.50	0.80
1:AA:1953:A:N3	1:AA:2560:C:H1'	1.97	0.80
1:AA:2672:G:H2'	1:AA:2673:G:H8	1.45	0.80
1:AA:604:G:C6	1:AA:605:C:N4	2.50	0.80
1:AA:72:U:O4	1:AA:112:U:H1'	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:8:ARG:HH11	3:AC:11:LEU:HD23	1.46	0.80
4:AD:181:GLU:HA	4:AD:270:ILE:HG21	1.61	0.80
4:AD:169:GLU:CB	4:AD:184:LYS:HZ1	1.92	0.80
4:AD:181:GLU:CB	4:AD:268:ARG:HH21	1.94	0.80
5:AE:38:THR:OG1	5:AE:44:TYR:HB2	1.80	0.80
7:AG:60:LEU:O	7:AG:63:ILE:HG22	1.81	0.80
9:AK:76:SER:C	9:AK:78:TYR:H	1.85	0.80
9:AK:99:LEU:HD21	9:AK:122:VAL:HG21	1.63	0.80
10:AL:18:LYS:HE2	10:AL:44:LYS:CD	2.12	0.80
11:AM:93:GLY:HA2	11:AM:112:LEU:HD11	1.61	0.80
11:AM:45:LEU:HB3	11:AM:46:LYS:HE2	1.62	0.80
13:AO:42:LYS:O	13:AO:45:ARG:HB3	1.80	0.80
14:AP:67:ARG:O	14:AP:71:ARG:HG3	1.82	0.80
15:AQ:52:ILE:N	15:AQ:66:VAL:HG12	1.97	0.80
17:AS:40:LEU:HD11	17:AS:55:ALA:HA	1.62	0.80
18:AT:36:LEU:HD23	18:AT:51:LEU:CD2	2.11	0.80
34:BA:1269:A:H1'	34:BA:1312:G:C2	2.17	0.80
34:BA:1347:G:H4'	34:BA:1348:U:O5'	1.82	0.80
34:BA:1394:A:O2'	34:BA:1395:C:OP1	2.00	0.80
34:BA:1395:C:H3'	34:BA:1395:C:OP2	1.80	0.80
34:BA:1519:A:H2'	34:BA:1520:G:H5'	1.64	0.80
34:BA:412:A:O2'	34:BA:413:G:H5''	1.82	0.80
34:BA:477:G:H2'	34:BA:478:A:H8	1.45	0.80
35:BF:167:PRO:HG2	35:BF:168:THR:H	1.46	0.80
36:BG:55:VAL:HG22	36:BG:68:VAL:HG13	1.62	0.80
37:BH:135:LEU:O	37:BH:137:SER:N	2.11	0.80
38:BI:11:ILE:HG22	38:BI:12:LEU:N	1.97	0.80
37:BH:88:VAL:HG22	38:BI:97:GLY:N	1.96	0.80
40:BK:75:VAL:HG13	40:BK:87:VAL:O	1.82	0.80
42:BM:50:LEU:HD13	42:BM:56:LEU:HG	1.64	0.80
45:BP:35:GLY:O	45:BP:82:VAL:HG13	1.82	0.80
46:BQ:16:ASP:O	46:BQ:30:ALA:HB1	1.80	0.80
52:BW:9:VAL:C	52:BW:41:VAL:HG21	1.99	0.80
57:BZ:314:ASN:HD21	57:BZ:379:GLU:C	1.85	0.80
57:BZ:398:GLU:OE2	57:BZ:444:PRO:HB2	1.82	0.80
1:AA:2660:A:C2	57:BZ:457:THR:N	2.50	0.80
34:BA:232:G:H2'	34:BA:233:C:C5	2.16	0.80
1:AA:1511:A:H2'	1:AA:1512:G:C5'	2.10	0.80
57:BZ:414:SER:O	57:BZ:458:MET:SD	2.39	0.80
1:AA:1113:U:O5'	1:AA:1113:U:H6	1.65	0.80
1:AA:1387:C:H2'	1:AA:1388:G:H8	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1494:A:H2'	1:AA:1494:A:N3	1.97	0.80
1:AA:1566:A:H2'	1:AA:1567:A:H5'	1.64	0.80
1:AA:1759:A:H5'	1:AA:2715:C:O4'	1.82	0.80
1:AA:1950:G:N7	1:AA:1951:U:C5	2.50	0.80
1:AA:2453:A:H61	1:AA:2500:U:H3	1.29	0.80
1:AA:2780:G:O2'	1:AA:2781:A:H5''	1.82	0.80
1:AA:4:C:C4	1:AA:2900:A:N1	2.42	0.80
1:AA:355:G:H2'	1:AA:356:G:H8	1.46	0.80
2:AB:27:C:N4	2:AB:56:G:H1	1.79	0.80
2:AB:83:G:O2'	2:AB:84:C:H5'	1.82	0.80
3:AC:62:VAL:HG22	3:AC:63:SER:H	1.46	0.80
5:AE:174:ASP:O	5:AE:182:LEU:HG	1.82	0.80
6:AF:201:VAL:HG12	6:AF:205:ARG:NE	1.96	0.80
7:AG:41:GLN:NE2	7:AG:155:MET:HA	1.97	0.80
7:AG:1:MET:HB3	7:AG:2:PRO:CD	2.12	0.80
8:AH:7:LEU:HD13	8:AH:65:HIS:NE2	1.97	0.80
12:AN:12:GLN:NE2	12:AN:13:GLN:HE21	1.78	0.80
12:AN:36:ALA:O	12:AN:37:LEU:HG	1.81	0.80
15:AQ:7:ILE:HG13	15:AQ:8:LYS:H	1.46	0.80
19:AU:16:LYS:H	19:AU:16:LYS:HE2	1.44	0.80
20:AV:5:MET:SD	20:AV:33:LYS:HE2	2.22	0.80
20:AV:35:TYR:O	20:AV:64:GLU:HB3	1.82	0.80
20:AV:74:PRO:C	20:AV:76:CYS:H	1.86	0.80
22:AX:19:LYS:HG2	22:AX:20:ARG:H	1.45	0.80
34:BA:474:G:C5'	49:BT:81:ARG:HG3	2.12	0.80
34:BA:520:A:H3'	34:BA:521:G:H5''	1.64	0.80
34:BA:657:G:C2'	34:BA:658:G:H5'	2.12	0.80
35:BF:101:MET:HA	35:BF:108:ILE:HG13	1.64	0.80
38:BI:109:ILE:HD13	38:BI:135:THR:CB	2.11	0.80
41:BL:109:ILE:HG12	41:BL:137:VAL:O	1.81	0.80
45:BP:86:ARG:HH12	45:BP:119:LYS:CG	1.90	0.80
49:BT:67:THR:O	49:BT:70:ALA:HB3	1.82	0.80
57:BZ:165:ALA:HA	57:BZ:171:ILE:CG2	2.12	0.80
57:BZ:403:VAL:HB	57:BZ:465:LEU:HB2	1.63	0.80
1:AA:1418:G:OP1	1:AA:1588:C:H4'	1.82	0.80
1:AA:1582:C:H3'	1:AA:1583:A:C5'	2.12	0.80
1:AA:1064:C:C4	1:AA:1065:U:C2	2.70	0.79
1:AA:1334:G:H5''	19:AU:65:ARG:HH12	1.44	0.79
1:AA:1685:C:O2'	1:AA:1686:C:H5'	1.82	0.79
1:AA:1706:U:H3	1:AA:1757:U:H5''	1.46	0.79
1:AA:1743:G:H4'	1:AA:1743:G:OP1	1.78	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1800:C:H6	1:AA:1800:C:H3'	1.45	0.79
1:AA:209:C:C2'	1:AA:210:C:H5'	2.10	0.79
1:AA:2233:U:H2'	1:AA:2234:G:H8	1.46	0.79
1:AA:2308:G:OP1	1:AA:2308:G:H4'	1.82	0.79
1:AA:2447:G:H3'	1:AA:2499:C:P	2.21	0.79
1:AA:2597:G:C5'	4:AD:242:ARG:HE	1.94	0.79
1:AA:2630:G:O2'	1:AA:2894:G:P	2.41	0.79
1:AA:2746:U:N3	1:AA:2756:U:O4	2.15	0.79
1:AA:2788:C:N3	1:AA:2789:C:N4	2.26	0.79
1:AA:2:G:N1	1:AA:2902:C:C5	2.50	0.79
1:AA:640:C:C2'	1:AA:641:C:C5'	2.59	0.79
1:AA:2176:A:C1'	3:AC:44:HIS:CD2	2.65	0.79
4:AD:232:PRO:HD2	4:AD:247:ALA:HA	1.65	0.79
5:AE:137:HIS:HB2	5:AE:138:PRO:HD2	1.64	0.79
6:AF:9:ILE:HG21	6:AF:124:LEU:CB	2.12	0.79
7:AG:110:ALA:HB1	7:AG:139:LEU:CG	2.11	0.79
7:AG:171:ALA:HA	7:AG:174:GLU:OE1	1.81	0.79
8:AH:117:PRO:HA	8:AH:121:ILE:HD13	1.64	0.79
8:AH:167:GLU:O	8:AH:169:VAL:HG13	1.81	0.79
1:AA:2747:G:O2'	8:AH:67:LEU:HD13	1.82	0.79
1:AA:1046:A:H1'	31:AI:11:ALA:HB2	1.64	0.79
9:AK:91:LEU:O	9:AK:95:PRO:HD3	1.82	0.79
11:AM:46:LYS:HB3	11:AM:49:ARG:NH2	1.96	0.79
13:AO:99:LYS:HA	13:AO:112:ALA:HB2	1.63	0.79
16:AR:15:LYS:HA	16:AR:18:LEU:CD2	2.09	0.79
19:AU:12:VAL:HG23	19:AU:28:PHE:CA	2.12	0.79
34:BA:133:U:H3	34:BA:229:U:H3	1.26	0.79
34:BA:731:G:H2'	34:BA:732:C:C6	2.18	0.79
34:BA:907:A:H2'	34:BA:908:A:C8	2.17	0.79
37:BH:141:ARG:CD	37:BH:142:PRO:HD2	2.12	0.79
38:BI:13:ILE:HD12	38:BI:13:ILE:N	1.96	0.79
34:BA:964:A:H1'	43:BN:55:LYS:HZ2	1.47	0.79
34:BA:375:U:H4'	49:BT:17:TYR:CE2	2.17	0.79
39:BJ:46:ARG:HH22	51:BV:37:VAL:CG2	1.94	0.79
57:BZ:23:ASP:O	57:BZ:24:LYS:HG2	1.82	0.79
57:BZ:2:ILE:CG2	57:BZ:199:VAL:CG1	2.60	0.79
57:BZ:512:LEU:HD21	57:BZ:524:ILE:HG21	1.63	0.79
57:BZ:493:GLN:HA	57:BZ:518:VAL:O	1.81	0.79
56:BD:2:C:C2'	56:BD:3:C:H5'	2.12	0.79
1:AA:1048:A:C6	1:AA:1112:G:O2'	2.35	0.79
1:AA:1188:U:H2'	1:AA:1188:U:O2	1.80	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1493:C:H2'	1:AA:1493:C:O2	1.82	0.79
1:AA:1496:A:C2	1:AA:1498:C:N4	2.50	0.79
1:AA:1638:C:C5'	1:AA:2710:C:H1'	2.12	0.79
1:AA:2450:A:O2'	1:AA:2451:A:H5'	1.83	0.79
1:AA:1782:C:N4	1:AA:2587:A:N6	2.30	0.79
1:AA:2610:C:H4'	1:AA:2611:U:O5'	1.81	0.79
1:AA:2788:C:N3	1:AA:2789:C:N3	2.30	0.79
1:AA:76:C:C2'	1:AA:77:C:H5'	2.12	0.79
3:AC:77:ILE:HG22	3:AC:119:VAL:HG21	1.64	0.79
4:AD:147:LEU:HG	4:AD:154:LYS:CD	2.10	0.79
4:AD:90:ALA:HA	4:AD:91:ARG:NH1	1.98	0.79
5:AE:105:THR:OG1	5:AE:165:VAL:O	2.00	0.79
5:AE:5:LEU:HD11	5:AE:196:VAL:HG12	1.63	0.79
5:AE:47:VAL:HG22	5:AE:79:ARG:HB2	1.63	0.79
32:AJ:62:ASP:HB3	32:AJ:63:ARG:C	2.03	0.79
10:AL:69:VAL:N	10:AL:104:ARG:NH2	2.29	0.79
15:AQ:58:ASN:N	15:AQ:61:PHE:CD2	2.51	0.79
18:AT:17:VAL:CG2	18:AT:76:VAL:HG11	2.12	0.79
20:AV:75:ILE:H	20:AV:100:ALA:HB1	1.46	0.79
20:AV:35:TYR:O	20:AV:64:GLU:CB	2.30	0.79
34:BA:1178:G:H2'	34:BA:1180:A:OP2	1.82	0.79
34:BA:1317:C:C5	34:BA:1318:A:C5	2.70	0.79
34:BA:1309:G:N2	34:BA:1328:C:C5	2.50	0.79
34:BA:1495:U:H2'	34:BA:1496:C:H5'	1.65	0.79
34:BA:225:C:H2'	34:BA:226:G:H5'	1.64	0.79
34:BA:22:G:H5'	34:BA:885:G:O4'	1.83	0.79
34:BA:270:A:O2'	34:BA:271:C:H5'	1.82	0.79
34:BA:751:U:H2'	34:BA:752:G:O4'	1.82	0.79
34:BA:888:G:N2	34:BA:909:A:N6	2.24	0.79
35:BF:95:GLN:CG	35:BF:148:TYR:HB3	2.13	0.79
35:BF:16:HIS:HA	35:BF:204:ASN:HB2	1.62	0.79
50:BU:11:VAL:HG23	50:BU:21:VAL:HA	1.63	0.79
51:BV:21:LYS:HD2	51:BV:22:VAL:H	1.47	0.79
51:BV:74:ARG:CG	51:BV:81:PHE:HB3	2.09	0.79
52:BW:18:LYS:HE2	52:BW:22:LEU:HD12	1.61	0.79
34:BA:1320:C:O2	52:BW:75:ALA:O	2.01	0.79
53:BX:13:LEU:HB2	53:BX:17:ARG:NH2	1.97	0.79
1:AA:1041:C:O2	1:AA:1115:G:C5	2.35	0.79
1:AA:1312:U:C2'	1:AA:1313:U:C6	2.65	0.79
1:AA:1352:U:H1'	1:AA:1570:A:H2	1.46	0.79
1:AA:1475:G:H1	1:AA:1477:A:H62	1.20	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1602:U:H3'	1:AA:1602:U:C6	2.17	0.79
1:AA:1324:G:C1'	1:AA:1616:A:N6	2.45	0.79
1:AA:2051:A:O4'	1:AA:2051:A:OP2	2.01	0.79
1:AA:2262:U:H4'	1:AA:2328:A:C2	2.17	0.79
1:AA:2447:G:C3'	1:AA:2499:C:P	2.70	0.79
1:AA:816:C:H6	1:AA:816:C:H5'	1.45	0.79
1:AA:865:C:O2'	1:AA:866:A:N7	2.15	0.79
1:AA:935:C:H2'	1:AA:936:C:C6	2.17	0.79
3:AC:68:LEU:HD13	3:AC:159:GLY:HA2	0.87	0.79
4:AD:77:ALA:HB1	4:AD:95:LEU:CD2	2.12	0.79
4:AD:87:ASN:N	4:AD:87:ASN:ND2	2.27	0.79
5:AE:104:VAL:CG1	5:AE:197:ILE:O	2.30	0.79
8:AH:11:VAL:CB	8:AH:50:VAL:HG21	2.11	0.79
10:AL:39:ILE:N	10:AL:39:ILE:HD13	1.98	0.79
10:AL:85:VAL:O	10:AL:93:PRO:CD	2.31	0.79
1:AA:662:G:H5''	11:AM:19:VAL:HG13	1.62	0.79
11:AM:49:ARG:HG2	11:AM:49:ARG:HH21	1.48	0.79
11:AM:49:ARG:O	11:AM:52:GLU:HG2	1.82	0.79
1:AA:244:A:O2'	11:AM:66:GLY:HA2	1.83	0.79
15:AQ:53:ARG:NE	15:AQ:53:ARG:CA	2.45	0.79
17:AS:64:HIS:ND1	17:AS:96:ILE:HG22	1.96	0.79
21:AW:144:LEU:C	21:AW:174:VAL:HG21	2.01	0.79
21:AW:53:ILE:O	21:AW:54:HIS:ND1	2.16	0.79
1:AA:2261:C:OP2	22:AX:17:GLN:HB2	1.81	0.79
22:AX:33:ALA:HA	22:AX:61:ALA:O	1.82	0.79
24:AZ:50:VAL:HG13	24:AZ:53:LEU:CD1	2.11	0.79
34:BA:1154:G:H2'	34:BA:1155:G:C8	2.16	0.79
34:BA:261:U:H2'	34:BA:263:A:OP2	1.83	0.79
34:BA:303:A:H2'	34:BA:304:U:O4'	1.83	0.79
34:BA:37:U:C3'	34:BA:37:U:H6	1.94	0.79
56:BE:2:C:O2	56:BE:71:G:O4'	2.00	0.79
42:BM:101:PHE:C	42:BM:102:LEU:HD23	2.01	0.79
42:BM:127:LYS:CB	56:BE:31:A:OP1	2.26	0.79
42:BM:97:LYS:HB3	42:BM:98:PRO:HD3	1.62	0.79
50:BU:12:SER:N	50:BU:20:THR:OG1	2.14	0.79
53:BX:85:MET:HA	53:BX:88:VAL:HG23	1.63	0.79
57:BZ:101:ALA:CB	57:BZ:130:VAL:HG12	2.12	0.79
57:BZ:551:ALA:CB	57:BZ:552:ASP:HB2	2.10	0.79
56:BD:67:C:C3'	56:BD:68:C:H5'	2.11	0.79
55:BC:38:A:H2'	55:BC:39:U:C4'	2.12	0.79
55:BC:5:G:H2'	55:BC:6:G:C8	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1290:C:H2'	1:AA:1291:C:C6	2.18	0.79
1:AA:1394:U:H5''	1:AA:1604:C:P	2.22	0.79
1:AA:1472:A:H1'	1:AA:1473:G:N7	1.96	0.79
1:AA:1657:C:O5'	1:AA:1657:C:H6	1.66	0.79
1:AA:1954:G:OP2	1:AA:1954:G:H8	1.65	0.79
1:AA:2877:G:H3'	1:AA:2878:U:C6	2.17	0.79
1:AA:997:G:C8	1:AA:997:G:OP2	2.35	0.79
3:AC:77:ILE:HD12	3:AC:123:VAL:HG13	1.62	0.79
1:AA:2123:G:N2	3:AC:216:THR:N	2.30	0.79
4:AD:5:LYS:NZ	4:AD:31:LYS:HZ1	1.74	0.79
5:AE:98:PRO:HD3	5:AE:175:VAL:HG11	1.65	0.79
1:AA:618:G:OP1	6:AF:106:ARG:HD2	1.83	0.79
7:AG:139:LEU:HD13	7:AG:142:PRO:HA	1.65	0.79
32:AJ:12:LEU:HG	32:AJ:57:ILE:CG2	2.11	0.79
10:AL:115:VAL:CG1	34:BA:345:C:H2'	2.11	0.79
20:AV:37:VAL:O	20:AV:39:VAL:HG23	1.81	0.79
12:AN:137:TYR:CZ	21:AW:124:ILE:HD11	2.16	0.79
21:AW:37:VAL:O	21:AW:38:TYR:HD2	1.64	0.79
22:AX:19:LYS:HZ1	22:AX:41:ARG:HE	1.28	0.79
34:BA:1307:U:OP1	46:BQ:101:GLN:NE2	2.15	0.79
34:BA:1316:G:C5'	34:BA:1360:A:C5	2.66	0.79
34:BA:279:A:H1'	34:BA:281:G:N3	1.98	0.79
34:BA:397:A:H2	34:BA:548:G:O6	1.66	0.79
40:BK:106:GLN:HE21	40:BK:106:GLN:CA	1.95	0.79
40:BK:115:ARG:CB	40:BK:118:VAL:HG23	2.11	0.79
43:BN:30:SER:CB	43:BN:80:LYS:HG3	2.12	0.79
46:BQ:23:TYR:O	46:BQ:66:LEU:HG	1.83	0.79
34:BA:1216:G:H5''	47:BR:5:ALA:HB1	1.64	0.79
53:BX:19:SER:O	53:BX:23:ARG:HB3	1.81	0.79
53:BX:50:GLU:H	53:BX:99:LEU:CD1	1.92	0.79
57:BZ:309:MET:HG3	57:BZ:358:VAL:HB	1.62	0.79
1:AA:2556:C:C2	57:BZ:546:MET:CE	2.60	0.79
57:BZ:64:ILE:CG2	57:BZ:188:GLN:OE1	2.30	0.79
57:BZ:8:ILE:O	57:BZ:72:ILE:O	2.00	0.79
1:AA:1142(A):A:N1	1:AA:1143:A:C8	2.50	0.79
1:AA:1403:C:H4'	1:AA:1471:A:H5'	1.62	0.79
1:AA:1543:A:C3'	1:AA:1544:C:H4'	2.09	0.79
1:AA:1772:G:C2'	1:AA:1773:A:H4'	2.11	0.79
1:AA:1846:G:N2	1:AA:1895:C:C2	2.50	0.79
1:AA:1935:G:C2'	1:AA:1962:C:H42	1.95	0.79
1:AA:205:G:O2'	1:AA:206:U:P	2.40	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2063:C:C3'	1:AA:2064:C:H5''	2.10	0.79
1:AA:2333:A:H1'	1:AA:2335:A:C4	2.16	0.79
1:AA:2471:C:H5''	57:BZ:529:ARG:NH1	1.96	0.79
1:AA:280:C:C4	1:AA:283:A:N7	2.50	0.79
1:AA:819:A:H2'	1:AA:820:A:C8	2.17	0.79
1:AA:996:A:H2'	1:AA:997:G:C8	2.18	0.79
3:AC:77:ILE:HD12	3:AC:123:VAL:CG1	2.12	0.79
4:AD:131:LEU:HG	4:AD:135:PHE:CD2	2.18	0.79
1:AA:1788:C:C2	4:AD:222:ARG:NH2	2.51	0.79
1:AA:1803:A:C4'	4:AD:257:LEU:HD13	2.12	0.79
5:AE:169:ASN:ND2	5:AE:170:LEU:H	1.80	0.79
32:AJ:14:ALA:HA	32:AJ:48:MET:O	1.82	0.79
32:AJ:23:VAL:CG1	32:AJ:37:PHE:HB2	2.11	0.79
9:AK:11:PRO:HB2	9:AK:13:TRP:HZ3	1.43	0.79
10:AL:96:THR:CA	10:AL:117:LEU:HD11	2.12	0.79
10:AL:117:LEU:C	10:AL:117:LEU:HD23	2.03	0.79
10:AL:16:ALA:HB3	10:AL:45:GLU:HB2	1.64	0.79
12:AN:25:ASP:HB3	12:AN:102:VAL:N	1.97	0.79
15:AQ:78:LEU:HD21	15:AQ:84:GLN:OE1	1.82	0.79
34:BA:1308:U:O2	34:BA:1309:G:C5'	2.18	0.79
34:BA:130:A:C5	34:BA:264:U:H1'	2.18	0.79
34:BA:1486:G:C2'	34:BA:1487:G:C5'	2.57	0.79
34:BA:600:C:O2'	34:BA:601:C:H5'	1.83	0.79
34:BA:674:G:H2'	34:BA:675:A:C8	2.17	0.79
34:BA:947:G:O2'	34:BA:948:C:H5'	1.82	0.79
35:BF:192:SER:C	35:BF:194:PRO:HD3	2.03	0.79
35:BF:44:LEU:O	35:BF:48:MET:SD	2.41	0.79
38:BI:43:LEU:N	38:BI:65:ASN:HD22	1.81	0.79
49:BT:6:LEU:HD23	49:BT:17:TYR:CD2	2.17	0.79
57:BZ:141:VAL:CG2	57:BZ:164:TYR:HH	1.90	0.79
57:BZ:239:ILE:HB	57:BZ:244:GLY:HA3	1.63	0.79
57:BZ:426:LEU:HD12	57:BZ:441:TYR:CE1	2.10	0.79
57:BZ:576:GLU:HA	57:BZ:588:ARG:O	1.82	0.79
34:BA:727:G:H3'	34:BA:727:G:C8	2.17	0.79
1:AA:1214:A:H2'	1:AA:1215:G:C8	2.17	0.79
1:AA:192:C:H2'	1:AA:192:C:O2	1.80	0.79
1:AA:2687:U:O2	1:AA:2687:U:H2'	1.81	0.79
1:AA:270(B):A:H5'	1:AA:366:C:O4'	1.82	0.79
1:AA:2786:U:O2'	1:AA:2787:C:H5'	1.81	0.79
1:AA:901:A:H2'	1:AA:902:C:H5'	1.62	0.79
1:AA:975:G:N1	1:AA:976:C:C6	2.50	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:17:C:H2'	2:AB:18:G:O4'	1.83	0.79
4:AD:143:HIS:C	4:AD:145:VAL:H	1.86	0.79
8:AH:103:LEU:CG	8:AH:105:LEU:HD11	2.12	0.79
32:AJ:108:ALA:HB2	32:AJ:111:LYS:CB	2.13	0.79
1:AA:1058:G:C2'	32:AJ:116:ASN:ND2	2.44	0.79
9:AK:93:THR:HG22	9:AK:94:HIS:CD2	2.18	0.79
10:AL:64:ARG:HG3	10:AL:64:ARG:NH2	1.89	0.79
12:AN:42:ILE:CD1	12:AN:46:GLN:HB3	2.13	0.79
13:AO:72:ASP:O	13:AO:76:VAL:HG23	1.83	0.79
14:AP:92:TYR:CZ	14:AP:93:LYS:HB3	2.18	0.79
21:AW:153:SER:HB3	21:AW:168:GLU:HB2	1.64	0.79
34:BA:1035:A:H2'	34:BA:1036:G:H5'	1.63	0.79
34:BA:1224:G:H1	34:BA:1362(A):C:N4	1.80	0.79
34:BA:1435:G:C2	34:BA:1436:U:O4	2.35	0.79
34:BA:1499:A:C2	34:BA:1519:A:O2'	2.35	0.79
34:BA:1521:G:H2'	34:BA:1522:U:C6	2.18	0.79
34:BA:279:A:H1'	34:BA:281:G:C4	2.17	0.79
34:BA:607:A:C2	34:BA:608:A:H1'	2.17	0.79
35:BF:67:THR:HB	35:BF:155:LEU:HD21	1.65	0.79
36:BG:116:VAL:HG11	36:BG:141:VAL:HG21	1.64	0.79
38:BI:91:LEU:HD23	38:BI:91:LEU:O	1.80	0.79
39:BJ:65:VAL:HG23	39:BJ:66:GLU:N	1.96	0.79
39:BJ:75:LEU:HD22	39:BJ:79:LEU:CD2	2.11	0.79
40:BK:137:LYS:HA	40:BK:140:ASP:OD2	1.82	0.79
41:BL:86:ILE:HB	41:BL:133:LEU:O	1.82	0.79
45:BP:47:LYS:N	45:BP:48:PRO:HD3	1.98	0.79
46:BQ:15:VAL:CG2	46:BQ:34:LEU:HD23	2.12	0.79
49:BT:31:LYS:HB3	49:BT:31:LYS:NZ	1.98	0.79
51:BV:67:ALA:HA	51:BV:70:ILE:CD1	2.13	0.79
51:BV:67:ALA:HA	51:BV:70:ILE:HD12	1.64	0.79
54:BY:6:ARG:HB3	54:BY:15:ARG:HH21	1.46	0.79
57:BZ:322:GLU:CD	57:BZ:581:THR:HB	2.02	0.79
1:AA:2185:C:H2'	1:AA:2186:G:C8	2.17	0.79
1:AA:1799:G:H5''	4:AD:264:LYS:CE	2.12	0.79
1:AA:2135:A:H4'	1:AA:2136:C:C6	2.17	0.79
1:AA:2312:U:H5'	7:AG:43:LEU:HD21	1.65	0.79
1:AA:2533:A:C1'	1:AA:2664:G:H4'	2.12	0.79
1:AA:2507:C:O3'	1:AA:2573:C:N4	2.15	0.79
1:AA:2666:C:H2'	1:AA:2667:C:H5''	1.65	0.79
1:AA:568:U:N3	1:AA:571:A:OP2	2.15	0.79
1:AA:641:C:C2'	1:AA:642:G:H5'	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:763:G:C2'	1:AA:764:A:H5''	2.11	0.79
2:AB:68:C:H3'	2:AB:69:G:H8	1.48	0.79
5:AE:108:SER:OG	5:AE:164:ARG:CA	2.31	0.79
5:AE:196:VAL:CG1	5:AE:197:ILE:N	2.44	0.79
5:AE:203:LYS:HD3	5:AE:203:LYS:O	1.83	0.79
6:AF:93:LYS:HE2	6:AF:95:ARG:HG2	1.65	0.79
7:AG:12:TYR:HA	7:AG:15:VAL:HG22	1.65	0.79
7:AG:131:TYR:CE1	7:AG:157:ILE:O	2.35	0.79
7:AG:148:MET:CG	7:AG:151:ALA:HA	2.07	0.79
7:AG:30:GLU:HA	7:AG:33:ARG:HG2	1.63	0.79
8:AH:83:TYR:O	8:AH:135:GLY:N	2.16	0.79
32:AJ:12:LEU:HB3	32:AJ:13:PRO:CD	2.13	0.79
10:AL:18:LYS:CE	10:AL:44:LYS:HD3	2.12	0.79
11:AM:74:GLU:HA	11:AM:107:LYS:HD3	1.62	0.79
13:AO:44:LEU:CD1	13:AO:48:VAL:HG21	2.13	0.79
14:AP:62:LYS:HB3	14:AP:65:VAL:N	1.96	0.79
10:AL:122:LEU:HG	15:AQ:71:GLY:CA	2.13	0.79
16:AR:57:PHE:CA	16:AR:60:LEU:HG	2.12	0.79
16:AR:98:LEU:CD1	16:AR:105:VAL:HG21	2.12	0.79
18:AT:90:ARG:HH21	18:AT:90:ARG:H	1.27	0.79
22:AX:23:VAL:HA	22:AX:38:VAL:HG13	1.62	0.79
34:BA:1375:A:C2	34:BA:1376:U:C2	2.70	0.79
34:BA:1520:G:HO2'	34:BA:1521:G:H8	1.31	0.79
34:BA:313:A:H2'	34:BA:314:C:C5	2.16	0.79
34:BA:979:C:H2'	34:BA:980:C:H5'	1.65	0.79
35:BF:47:THR:OG1	35:BF:202:PRO:HG2	1.82	0.79
40:BK:104:LEU:HD23	40:BK:134:ALA:CB	2.13	0.79
41:BL:109:ILE:HD11	41:BL:137:VAL:HB	1.64	0.79
46:BQ:19:LEU:HB2	46:BQ:25:ILE:CG2	2.12	0.79
52:BW:10:PHE:O	52:BW:41:VAL:CG2	2.30	0.79
52:BW:36:ARG:O	52:BW:71:LEU:HB2	1.83	0.79
34:BA:1225:A:O4'	52:BW:78:ARG:HB3	1.82	0.79
57:BZ:234:ASN:HB2	57:BZ:248:ASN:O	1.82	0.79
57:BZ:6:ARG:HD2	57:BZ:194:VAL:HG11	1.64	0.79
57:BZ:21:LEU:HD11	57:BZ:98:VAL:CG2	2.13	0.79
55:BC:36:A:H2'	55:BC:37:A:H5''	1.65	0.79
1:AA:1036:G:C5'	8:AH:59:ARG:HH22	1.95	0.79
1:AA:1419:A:H3'	1:AA:1420:U:C2	2.18	0.79
1:AA:203:C:H3'	1:AA:204:A:H8	1.47	0.79
1:AA:2165:G:H2'	1:AA:2166:G:O4'	1.83	0.79
1:AA:2606:C:H5'	1:AA:2606:C:H6	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2660:A:N3	57:BZ:456:MET:CB	2.46	0.79
1:AA:2825:C:H6	1:AA:2825:C:O5'	1.65	0.79
1:AA:2828:C:C2	1:AA:2829:C:C5	2.71	0.79
1:AA:307:G:N2	1:AA:309:G:H3'	1.98	0.79
1:AA:401:A:N6	1:AA:423:A:N1	2.31	0.79
1:AA:647:G:H2'	1:AA:648:G:H8	1.45	0.79
1:AA:685:A:O4'	1:AA:688:U:O4	1.99	0.79
1:AA:704:G:H22	1:AA:726:G:H1'	1.48	0.79
2:AB:31:C:C2	2:AB:32:C:H5	2.01	0.79
3:AC:22:ILE:O	3:AC:25:ALA:HB3	1.83	0.79
4:AD:105:ILE:HD12	4:AD:106:ILE:N	1.97	0.79
4:AD:146:GLU:HB2	4:AD:154:LYS:N	1.97	0.79
5:AE:176:ILE:HD12	5:AE:179:GLU:O	1.80	0.79
6:AF:134:GLY:O	6:AF:166:ALA:HB2	1.83	0.79
7:AG:75:LYS:HB3	7:AG:84:LYS:N	1.98	0.79
1:AA:1046:A:N3	31:AI:11:ALA:CB	2.46	0.79
31:AI:153:LEU:C	31:AI:155:GLY:H	1.84	0.79
9:AK:25:ARG:HA	9:AK:28:THR:CG2	2.11	0.79
11:AM:113:LYS:HA	11:AM:129:ALA:CB	2.12	0.79
19:AU:27:THR:HG22	19:AU:80:ILE:HG23	1.65	0.79
21:AW:78:LYS:HG3	21:AW:79:ARG:H	1.48	0.79
24:AZ:3:ARG:HH22	24:AZ:59:VAL:CG1	1.95	0.79
34:BA:1109:C:H2'	34:BA:1110:A:C8	2.16	0.79
34:BA:174:C:C2	34:BA:175:C:C5	2.71	0.79
34:BA:52:G:H2'	34:BA:53:A:C8	2.18	0.79
34:BA:718:G:H4'	44:BO:117:ASN:HD21	1.48	0.79
35:BF:18:GLY:O	35:BF:19:HIS:ND1	2.15	0.79
35:BF:53:ARG:HH12	35:BF:200:ILE:HD12	1.47	0.79
35:BF:82:ARG:HA	35:BF:92:TYR:HE1	1.47	0.79
36:BG:159:GLY:N	36:BG:193:TYR:HE1	1.81	0.79
37:BH:78:LEU:HD13	37:BH:96:LEU:HB3	1.65	0.79
38:BI:91:LEU:HD23	38:BI:91:LEU:C	2.03	0.79
40:BK:5:ARG:NH1	40:BK:5:ARG:HB3	1.97	0.79
45:BP:41:ARG:NH1	45:BP:41:ARG:HB3	1.97	0.79
48:BS:31:LEU:HA	48:BS:34:LEU:HD23	1.65	0.79
57:BZ:2:ILE:HG21	57:BZ:199:VAL:HG11	1.64	0.79
57:BZ:26:LEU:O	57:BZ:27:GLN:HG2	1.82	0.79
57:BZ:381:ALA:HB1	57:BZ:577:LEU:CB	2.12	0.79
55:BC:38:A:N1	55:BC:39:U:C6	2.51	0.79
1:AA:1252:G:H8	1:AA:1253:A:C1'	1.93	0.79
1:AA:1710:C:H2'	1:AA:1711:C:C6	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2307:G:C4	1:AA:2308:G:H1'	2.18	0.79
1:AA:2393:A:H5''	11:AM:56:SER:CA	2.12	0.79
1:AA:2660:A:C2	57:BZ:456:MET:C	2.55	0.79
1:AA:2666:C:H41	1:AA:2667:C:N4	1.81	0.79
1:AA:470:A:H2'	1:AA:471:A:O4'	1.83	0.79
1:AA:477:A:N6	1:AA:502:A:N6	2.24	0.79
1:AA:602:G:H8	1:AA:602:G:O5'	1.66	0.79
1:AA:653:A:H5'	1:AA:654:A:O2'	1.83	0.79
1:AA:774:A:H1'	1:AA:775:G:C8	2.18	0.79
1:AA:829:A:H5''	1:AA:830:G:H5''	1.62	0.79
1:AA:898:C:C2'	1:AA:899:A:H4'	2.11	0.79
1:AA:861:A:H62	1:AA:916:G:H21	0.80	0.79
3:AC:167:LYS:HG3	3:AC:168:THR:N	1.95	0.79
4:AD:130:ALA:O	4:AD:131:LEU:HD13	1.81	0.79
4:AD:177:LEU:HD23	4:AD:177:LEU:H	1.46	0.79
5:AE:116:VAL:O	5:AE:120:TRP:CD1	2.36	0.79
5:AE:1:MET:C	5:AE:2:LYS:HG3	2.02	0.79
5:AE:54:GLN:CD	5:AE:56:PRO:HD2	2.03	0.79
6:AF:74:ARG:HH11	6:AF:75:HIS:HA	1.46	0.79
11:AM:128:HIS:ND1	11:AM:129:ALA:N	2.30	0.79
11:AM:7:ARG:CD	11:AM:8:PRO:HD3	2.12	0.79
10:AL:122:LEU:HG	15:AQ:71:GLY:HA3	1.65	0.79
17:AS:81:TYR:O	17:AS:82:ARG:HB2	1.80	0.79
19:AU:70:LEU:HD23	19:AU:71:GLY:N	1.98	0.79
20:AV:108:THR:O	20:AV:109:GLU:HG3	1.83	0.79
21:AW:122:ARG:HG2	21:AW:170:THR:O	1.83	0.79
21:AW:161:VAL:HG12	21:AW:162:GLU:H	1.48	0.79
21:AW:28:MET:CE	21:AW:28:MET:HA	2.12	0.79
34:BA:1053:G:C6	34:BA:1199:U:H2'	2.18	0.79
34:BA:1309:G:N7	34:BA:1330:U:C4	2.51	0.79
34:BA:1507:A:H2'	34:BA:1508:G:O4'	1.81	0.79
34:BA:154:C:O2'	34:BA:155:C:H5'	1.83	0.79
56:BE:21:A:H2'	56:BE:22:G:O4'	1.81	0.79
35:BF:15:VAL:HG11	35:BF:209:ARG:HB3	1.65	0.79
36:BG:58:GLU:H	36:BG:65:ALA:HB3	1.46	0.79
43:BN:24:VAL:HG22	43:BN:34:VAL:HG11	1.65	0.79
45:BP:25:PRO:C	45:BP:27:LEU:H	1.84	0.79
45:BP:84:LEU:HG	45:BP:85:ILE:H	1.48	0.79
48:BS:36:ILE:HD12	48:BS:63:ARG:HD3	1.63	0.79
48:BS:75:PRO:C	48:BS:78:TYR:HB3	2.02	0.79
57:BZ:346:ARG:HB2	57:BZ:359:SER:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:8:ILE:CD1	57:BZ:96:LEU:HD12	2.13	0.79
57:BZ:411:HIS:CD2	57:BZ:459:THR:CA	2.65	0.79
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.47	0.79
1:AA:1702:G:C2'	1:AA:1703:G:H5''	2.01	0.79
1:AA:1912:A:C6	1:AA:1919:A:C2	2.70	0.79
1:AA:1931:U:H5	1:AA:1932:A:C5	2.01	0.79
1:AA:1933:G:O6	1:AA:1968:G:N2	2.15	0.79
1:AA:209:C:H2'	1:AA:210:C:H5'	1.64	0.79
1:AA:185:U:N3	1:AA:212:G:N2	2.30	0.79
1:AA:261:G:O2'	1:AA:262:A:H5'	1.83	0.79
1:AA:343:C:H2'	1:AA:344:G:H5'	1.62	0.79
1:AA:531:C:C6	1:AA:532:A:N3	2.50	0.79
1:AA:71:A:C4'	1:AA:72:U:H5''	2.11	0.79
1:AA:804:A:H5''	1:AA:805:G:OP1	1.82	0.79
1:AA:865:C:H42	1:AA:909:A:H62	1.29	0.79
3:AC:156:ILE:HA	3:AC:160:ARG:N	1.98	0.79
3:AC:43:VAL:HG22	3:AC:224:ILE:HD13	1.60	0.79
3:AC:48:GLY:H	3:AC:210:ARG:HG3	1.44	0.79
6:AF:7:TYR:O	6:AF:18:ARG:CG	2.27	0.79
7:AG:107:LEU:HD12	7:AG:111:LEU:HD13	1.64	0.79
8:AH:164:TYR:HE2	8:AH:167:GLU:N	1.79	0.79
11:AM:113:LYS:HB2	11:AM:129:ALA:HB1	1.65	0.79
13:AO:36:THR:HB	13:AO:40:LYS:CD	2.12	0.79
13:AO:61:HIS:ND1	13:AO:64:ARG:CZ	2.46	0.79
15:AQ:28:VAL:HB	15:AQ:52:ILE:HD12	1.64	0.79
10:AL:122:LEU:N	15:AQ:70:VAL:O	2.15	0.79
16:AR:50:ARG:HE	17:AS:75:PHE:HE2	1.30	0.79
34:BA:1044:A:H2'	34:BA:1045:C:H5'	1.62	0.79
34:BA:1144:G:H22	34:BA:1146:A:H62	1.29	0.79
34:BA:1155:G:N2	34:BA:1179:A:N6	2.30	0.79
34:BA:1196:U:H5'	34:BA:1197:G:H5'	1.64	0.79
34:BA:1389:C:C2'	34:BA:1390:U:H5'	2.13	0.79
34:BA:332:G:H2'	34:BA:333:G:H8	1.48	0.79
34:BA:654:G:N2	34:BA:753:A:H1'	1.98	0.79
34:BA:655:A:H2'	34:BA:656:C:H6	1.46	0.79
35:BF:208:ILE:HG21	35:BF:239:VAL:HG11	1.65	0.79
35:BF:24:TRP:CH2	35:BF:26:PRO:HA	2.18	0.79
36:BG:205:GLY:O	36:BG:206:GLU:HB2	1.82	0.79
39:BJ:53:ALA:HB1	39:BJ:86:ARG:NH1	1.98	0.79
40:BK:106:GLN:HE21	40:BK:106:GLN:HA	1.45	0.79
41:BL:65:TYR:O	41:BL:67:PRO:HD3	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:33:ARG:O	45:BP:84:LEU:HG	1.82	0.79
46:BQ:96:LEU:HB2	46:BQ:97:PRO:CD	2.13	0.79
47:BR:60:SER:O	47:BR:61:TRP:HB3	1.83	0.79
49:BT:8:ARG:HH12	49:BT:11:SER:H	1.30	0.79
54:BY:24:ARG:O	54:BY:25:LYS:HB2	1.83	0.79
57:BZ:206:GLN:HB3	57:BZ:228:ARG:H	1.47	0.79
57:BZ:213:ASP:O	57:BZ:220:VAL:HG13	1.83	0.79
57:BZ:205:PHE:CE1	57:BZ:226:ILE:HG23	2.18	0.79
57:BZ:488:LEU:CD1	57:BZ:525:GLY:C	2.51	0.79
31:AI:52:PHE:C	31:AI:86:PRO:N	2.35	0.79
55:BC:40:C:H2'	55:BC:41:C:C6	2.18	0.79
1:AA:1170:G:N3	1:AA:1170:G:H2'	1.94	0.78
1:AA:1184:G:C2'	1:AA:1185:C:H5'	2.12	0.78
1:AA:1203:G:N1	1:AA:1241:A:H1'	1.97	0.78
1:AA:1670:C:H2'	1:AA:1671:U:O4'	1.82	0.78
1:AA:2114:A:H2'	1:AA:2115:G:H5'	1.64	0.78
1:AA:2107:C:C5	1:AA:2181:G:O6	2.35	0.78
1:AA:221:A:H4'	1:AA:222:A:C5'	2.07	0.78
1:AA:2484:G:H1'	12:AN:124:LYS:NZ	1.98	0.78
1:AA:535:C:O2'	1:AA:536:A:H5'	1.83	0.78
1:AA:568:U:H2'	1:AA:570:G:C8	2.18	0.78
2:AB:31:C:C2	2:AB:32:C:C5	2.71	0.78
7:AG:57:ALA:N	7:AG:68:PRO:HB2	1.98	0.78
32:AJ:112:MET:HG2	32:AJ:122:ALA:HB3	1.65	0.78
9:AK:66:LYS:HA	9:AK:87:LEU:CD1	2.14	0.78
10:AL:122:LEU:HG	15:AQ:71:GLY:C	2.03	0.78
11:AM:45:LEU:CD2	11:AM:46:LYS:HG3	2.13	0.78
12:AN:130:LYS:HE3	12:AN:131:ILE:N	1.98	0.78
12:AN:65:PHE:O	12:AN:66:ILE:HG13	1.84	0.78
13:AO:86:ARG:CB	13:AO:86:ARG:HH11	1.94	0.78
10:AL:122:LEU:CB	15:AQ:71:GLY:HA3	2.14	0.78
1:AA:2848:G:C8	15:AQ:99:LEU:CD1	2.66	0.78
19:AU:49:VAL:HG12	19:AU:88:LYS:HG3	1.65	0.78
20:AV:14:LEU:HD22	20:AV:19:LYS:HB2	1.65	0.78
22:AX:25:ARG:CG	22:AX:37:LEU:HA	2.12	0.78
24:AZ:19:GLN:O	24:AZ:23:LEU:HD13	1.83	0.78
1:AA:851:U:H4'	24:AZ:46:ASN:HA	1.65	0.78
34:BA:1270:C:O2'	34:BA:1313:U:H5''	1.81	0.78
34:BA:944:G:H3'	34:BA:945:G:H5''	1.63	0.78
37:BH:38:TYR:HB2	37:BH:39:PRO:HD2	1.63	0.78
39:BJ:80:ARG:HG2	39:BJ:88:VAL:HG21	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:35:LYS:HZ1	49:BT:37:GLY:H	1.29	0.78
53:BX:66:ALA:HB3	53:BX:72:LEU:HD12	1.63	0.78
57:BZ:509:LYS:HG3	57:BZ:561:ILE:HD13	1.65	0.78
45:BP:126:LYS:NZ	45:BP:128:ALA:H	1.80	0.78
1:AA:1183:G:H4'	1:AA:1184:G:O5'	1.82	0.78
1:AA:1725:G:C6	1:AA:1741:C:N4	2.52	0.78
1:AA:248:G:C2	1:AA:2431:U:H5'	2.19	0.78
1:AA:2710:C:H2'	1:AA:2711:A:C5'	2.11	0.78
1:AA:2790:A:C4'	1:AA:2893:G:H21	1.96	0.78
1:AA:562:U:O2	1:AA:572:A:H1'	1.81	0.78
1:AA:574:C:N1	1:AA:2055:C:H5	1.82	0.78
3:AC:64:LEU:HD12	3:AC:161:ILE:HG21	1.64	0.78
6:AF:105:VAL:HA	6:AF:108:LYS:HB2	1.64	0.78
6:AF:8:GLN:C	6:AF:9:ILE:HD12	2.04	0.78
8:AH:16:SER:HB3	8:AH:27:LYS:HB2	1.65	0.78
8:AH:175:LYS:CG	8:AH:176:ALA:H	1.93	0.78
32:AJ:17:ALA:HB3	32:AJ:42:ASN:CG	2.03	0.78
9:AK:15:LEU:HD21	9:AK:137:LYS:C	2.04	0.78
1:AA:1242:A:H2	11:AM:6:LEU:HD21	1.48	0.78
12:AN:110:THR:O	12:AN:111:GLU:HB2	1.81	0.78
14:AP:49:VAL:HG13	14:AP:76:LYS:CE	2.12	0.78
15:AQ:46:GLU:OE1	15:AQ:47:GLY:N	2.16	0.78
15:AQ:53:ARG:CB	15:AQ:65:LYS:O	2.28	0.78
15:AQ:95:ARG:HB3	15:AQ:95:ARG:HH21	1.46	0.78
17:AS:3:ALA:HB1	17:AS:44:LYS:HZ2	1.48	0.78
21:AW:152:ALA:CA	21:AW:155:LEU:HD13	2.11	0.78
34:BA:1206:G:H2'	34:BA:1207:G:O4'	1.82	0.78
34:BA:1225:A:H4'	52:BW:78:ARG:HB2	1.62	0.78
34:BA:1309:G:H2'	34:BA:1329:A:C4	2.14	0.78
34:BA:1315:U:O2	34:BA:1361:G:H1'	1.80	0.78
34:BA:1454:G:C5	34:BA:1455:G:O6	2.36	0.78
34:BA:819:A:C6	34:BA:1529:G:N7	2.51	0.78
35:BF:132:LYS:HE2	35:BF:132:LYS:H	1.48	0.78
35:BF:16:HIS:C	35:BF:204:ASN:HB2	2.02	0.78
40:BK:106:GLN:HA	40:BK:109:ASN:HD22	1.47	0.78
34:BA:1240:U:H2'	40:BK:32:ARG:HH21	1.46	0.78
38:BI:152:ARG:NH2	41:BL:43:GLY:HA3	1.96	0.78
44:BO:84:VAL:CG2	44:BO:110:ASP:HA	2.11	0.78
44:BO:91:ARG:O	44:BO:95:ILE:HG13	1.83	0.78
46:BQ:97:PRO:HG2	46:BQ:101:GLN:HG3	1.63	0.78
46:BQ:102:ARG:O	46:BQ:103:THR:OG1	2.00	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:36:LYS:HD3	46:BQ:59:TYR:CE2	2.18	0.78
46:BQ:64:TRP:NE1	46:BQ:66:LEU:HD22	1.98	0.78
46:BQ:97:PRO:HB2	46:BQ:101:GLN:HG3	1.64	0.78
48:BS:42:HIS:NE2	48:BS:43:LEU:HD23	1.99	0.78
49:BT:6:LEU:HD13	49:BT:6:LEU:N	1.96	0.78
50:BU:59:ILE:HD12	50:BU:60:ILE:N	1.98	0.78
34:BA:1318:A:C3'	52:BW:37:ARG:HB3	2.08	0.78
53:BX:33:ILE:HD13	53:BX:63:ILE:CA	2.13	0.78
54:BY:14:TRP:CZ3	54:BY:15:ARG:CZ	2.66	0.78
32:AJ:29:GLN:HG2	57:BZ:431:PRO:HB2	1.64	0.78
57:BZ:398:GLU:OE1	57:BZ:444:PRO:CB	2.31	0.78
1:AA:973:A:C1'	1:AA:1188:U:O4	2.32	0.78
1:AA:120:U:O2	1:AA:120:U:H2'	1.82	0.78
1:AA:1439:A:H2'	1:AA:1440:G:H5'	1.64	0.78
1:AA:1779:U:C2'	1:AA:1783:A:H62	1.95	0.78
1:AA:1842:G:O2'	1:AA:1843:C:H5'	1.84	0.78
1:AA:1926:U:H3	1:AA:1929:G:H22	1.31	0.78
1:AA:2265:U:C2	1:AA:2266:A:N7	2.51	0.78
1:AA:2031:A:H62	1:AA:2498:C:H1'	1.49	0.78
1:AA:2587:A:H2'	1:AA:2588:G:H5'	1.65	0.78
1:AA:2623:G:H5'	1:AA:2826:A:H1'	1.63	0.78
1:AA:603:A:H2'	1:AA:604:G:C8	2.17	0.78
1:AA:820:A:C2'	1:AA:821:A:H5'	2.09	0.78
1:AA:860:U:H2'	1:AA:861:A:H5'	1.65	0.78
1:AA:8:A:H5''	9:AK:51:PHE:CE2	2.18	0.78
3:AC:113:VAL:HG12	3:AC:138:PRO:HG3	1.65	0.78
3:AC:156:ILE:CA	3:AC:160:ARG:CB	2.38	0.78
3:AC:59:ARG:HG3	3:AC:60:GLY:N	1.96	0.78
4:AD:206:LEU:O	4:AD:206:LEU:HD22	1.83	0.78
5:AE:176:ILE:HG22	5:AE:181:LEU:O	1.83	0.78
5:AE:52:LEU:HA	5:AE:74:PRO:CA	2.12	0.78
6:AF:154:VAL:HB	6:AF:193:VAL:HG23	1.63	0.78
6:AF:6:VAL:HB	6:AF:18:ARG:HD2	1.63	0.78
7:AG:78:SER:HB2	7:AG:82:LEU:HB2	1.65	0.78
32:AJ:117:THR:O	32:AJ:118:THR:OG1	2.00	0.78
15:AQ:1:MET:CG	15:AQ:2:ASN:H	1.95	0.78
5:AE:8:LYS:CG	15:AQ:6:LEU:HD11	2.13	0.78
16:AR:97:ASP:HA	16:AR:101:ARG:HH21	1.49	0.78
17:AS:43:GLU:N	17:AS:44:LYS:HZ1	1.81	0.78
23:AY:52:ILE:HA	23:AY:55:LEU:CD2	2.11	0.78
34:BA:1089:G:H2'	34:BA:1090:U:H5'	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1296:C:H1'	34:BA:1302:U:O4	1.82	0.78
34:BA:1316:G:O4'	34:BA:1360:A:N1	2.16	0.78
34:BA:132:C:C2	34:BA:231:G:N2	2.51	0.78
34:BA:594:G:N7	34:BA:595:G:N2	2.32	0.78
34:BA:633:G:H2'	34:BA:634:C:C6	2.18	0.78
35:BF:17:PHE:HD1	35:BF:18:GLY:H	1.29	0.78
35:BF:71:VAL:CG2	35:BF:93:VAL:HB	2.14	0.78
34:BA:540:G:H21	37:BH:42:GLN:NE2	1.81	0.78
37:BH:205:GLU:OE2	38:BI:100:VAL:HB	1.81	0.78
38:BI:48:ALA:HB1	38:BI:53:LEU:HD12	1.66	0.78
34:BA:589:C:OP1	41:BL:5:PRO:HG2	1.82	0.78
42:BM:10:ARG:HA	42:BM:104:ARG:NE	1.98	0.78
43:BN:6:ILE:HG22	43:BN:98:ILE:HG13	1.66	0.78
48:BS:77:ARG:NH2	48:BS:78:TYR:HA	1.99	0.78
57:BZ:209:ILE:CG2	57:BZ:222:GLY:O	2.32	0.78
57:BZ:488:LEU:CG	57:BZ:525:GLY:O	2.31	0.78
57:BZ:374:ARG:HD3	57:BZ:583:THR:N	1.98	0.78
55:BC:28:G:O2'	55:BC:29:G:H5'	1.81	0.78
3:AC:148:ASN:HD21	3:AC:152:ILE:HG13	1.47	0.78
1:AA:1048:A:C2	1:AA:1112:G:O2'	2.36	0.78
1:AA:1785:A:O5'	1:AA:1982:C:H4'	1.83	0.78
1:AA:2265:U:N3	1:AA:2266:A:N7	2.32	0.78
1:AA:2305:A:C8	1:AA:2306:C:H5"	2.18	0.78
1:AA:2647:U:H2'	1:AA:2648:C:H6	1.48	0.78
1:AA:2789:C:C2'	1:AA:2893:G:N2	2.46	0.78
1:AA:673:C:H2'	1:AA:674:G:C5'	2.13	0.78
1:AA:962:G:N2	1:AA:963:U:C2	2.51	0.78
4:AD:55:GLY:HA2	4:AD:217:ARG:NE	1.98	0.78
5:AE:199:ARG:N	5:AE:199:ARG:HD2	1.98	0.78
5:AE:200:GLU:HB3	5:AE:202:LYS:NZ	1.97	0.78
6:AF:156:LEU:HD12	6:AF:167:ALA:HB2	1.65	0.78
6:AF:4:VAL:C	6:AF:20:LEU:HD13	2.03	0.78
7:AG:29:TRP:O	7:AG:31:VAL:N	2.14	0.78
9:AK:57:ALA:O	9:AK:60:ILE:HG13	1.83	0.78
9:AK:89:LYS:CE	9:AK:89:LYS:N	2.43	0.78
12:AN:122:GLY:HA2	12:AN:125:LEU:HG	1.65	0.78
12:AN:134:ARG:NH2	12:AN:137:TYR:CD1	2.51	0.78
13:AO:37:THR:HG23	13:AO:40:LYS:HD2	1.66	0.78
13:AO:61:HIS:CA	13:AO:64:ARG:HD3	2.13	0.78
14:AP:23:ARG:HH11	14:AP:42:ASP:HB3	1.48	0.78
14:AP:78:LEU:HD22	14:AP:78:LEU:C	2.03	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:70:ILE:HG23	17:AS:90:PRO:HA	1.65	0.78
22:AX:31:VAL:HG23	22:AX:65:GLY:O	1.82	0.78
23:AY:27:LEU:HD21	23:AY:48:LEU:HB3	1.64	0.78
34:BA:290:C:O5'	34:BA:290:C:H6	1.66	0.78
34:BA:722:A:H2'	34:BA:724:G:H8	1.45	0.78
34:BA:795:C:H4'	34:BA:1506:U:O2	1.83	0.78
55:BC:18:G:H1	55:BC:55:U:H1'	1.48	0.78
35:BF:16:HIS:CE1	35:BF:210:SER:HA	2.19	0.78
38:BI:16:THR:HG23	38:BI:28:PHE:HA	1.65	0.78
39:BJ:78:GLU:O	39:BJ:81:ILE:HB	1.83	0.78
41:BL:88:LYS:H	41:BL:88:LYS:NZ	1.81	0.78
42:BM:16:ARG:NE	42:BM:18:PHE:HZ	1.80	0.78
1:AA:1058:G:N2	1:AA:1059:G:C8	2.51	0.78
1:AA:1069:A:C6	1:AA:1096:A:OP1	2.36	0.78
1:AA:1451:C:H2'	1:AA:1457:A:N6	1.99	0.78
1:AA:1533:C:C2	1:AA:1539:G:N2	2.51	0.78
1:AA:1526:G:H21	1:AA:1545(A):A:H62	1.27	0.78
1:AA:1672:C:C3'	1:AA:1673:U:H5''	2.14	0.78
1:AA:1762:A:C8	1:AA:1762:A:C3'	2.60	0.78
1:AA:1907:G:O2'	1:AA:1908:C:H5'	1.84	0.78
1:AA:2259:G:H5'	1:AA:2427:C:H3'	1.65	0.78
1:AA:2568:C:H2'	1:AA:2569:G:H5'	1.63	0.78
1:AA:328:U:H3	1:AA:332:A:H62	1.32	0.78
1:AA:536:A:H2'	1:AA:537:C:O4'	1.83	0.78
1:AA:448:U:O4	1:AA:583:G:H1'	1.82	0.78
2:AB:77:U:H2'	2:AB:78:A:C8	2.19	0.78
1:AA:2124:G:O6	3:AC:218:MET:HA	1.84	0.78
1:AA:2127:G:H3'	3:AC:36:LYS:CG	1.69	0.78
5:AE:119:ARG:NE	5:AE:155:LYS:HB3	1.97	0.78
5:AE:171:GLU:HB2	5:AE:185:LYS:HZ3	1.48	0.78
6:AF:130:ALA:O	6:AF:139:PHE:HA	1.84	0.78
6:AF:34:TRP:HD1	6:AF:38:ARG:HH11	1.32	0.78
7:AG:146:TYR:CE1	7:AG:149:VAL:HA	2.19	0.78
8:AH:110:SER:C	8:AH:112:PRO:HD2	2.04	0.78
9:AK:16:ILE:HD11	9:AK:52:VAL:CG2	2.09	0.78
10:AL:63:VAL:HA	10:AL:78:ARG:HD3	1.63	0.78
14:AP:60:GLY:O	14:AP:62:LYS:N	2.13	0.78
14:AP:7:TYR:O	14:AP:10:ARG:HB2	1.81	0.78
16:AR:89:GLU:CB	17:AS:52:VAL:N	2.44	0.78
19:AU:5:TYR:HB3	23:AY:24:LYS:HD3	1.65	0.78
24:AZ:55:ARG:CZ	24:AZ:55:ARG:HA	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1210:C:H4'	34:BA:1214:C:N3	1.98	0.78
34:BA:124:G:H2'	34:BA:125:U:C6	2.18	0.78
34:BA:1315:U:O2	34:BA:1361:G:O4'	1.86	0.78
34:BA:1394:A:N7	34:BA:1501:C:O4'	2.16	0.78
34:BA:858:G:N2	34:BA:869:G:H3'	1.98	0.78
56:BE:21:A:N7	56:BE:46:G:C6	2.50	0.78
56:BE:6:G:H2'	56:BE:6:G:N3	1.98	0.78
35:BF:162:ILE:HD13	35:BF:183:PRO:O	1.83	0.78
35:BF:88:ALA:HA	35:BF:219:VAL:HG13	1.66	0.78
36:BG:15:THR:HG21	36:BG:181:ASN:CA	2.12	0.78
36:BG:17:ASP:HB3	36:BG:18:TRP:HE3	1.49	0.78
37:BH:135:LEU:HD12	37:BH:138:TYR:HB2	1.65	0.78
37:BH:173:TRP:CD1	37:BH:189:PRO:HB3	2.18	0.78
38:BI:74:GLY:C	38:BI:115:VAL:HG12	2.04	0.78
38:BI:12:LEU:HG	38:BI:129:ILE:CD1	2.12	0.78
39:BJ:30:LEU:HA	39:BJ:75:LEU:CD1	2.12	0.78
41:BL:115:SER:C	41:BL:116:LYS:HD2	2.04	0.78
44:BO:46:GLY:CA	44:BO:55:LYS:HD2	2.13	0.78
46:BQ:19:LEU:HD13	46:BQ:29:ARG:C	2.04	0.78
36:BG:12:LEU:HD21	47:BR:58:LYS:H	1.48	0.78
34:BA:751:U:H4'	48:BS:24:SER:OG	1.83	0.78
41:BL:91:ARG:HG2	50:BU:34:LYS:CB	2.12	0.78
50:BU:36:ILE:N	50:BU:36:ILE:HD13	1.99	0.78
50:BU:66:SER:HB2	50:BU:69:LYS:HZ3	1.49	0.78
57:BZ:125:VAL:HB	57:BZ:162:ILE:CA	2.13	0.78
57:BZ:407:VAL:C	57:BZ:436:ARG:HG2	2.03	0.78
57:BZ:426:LEU:CB	57:BZ:441:TYR:CZ	2.66	0.78
1:AA:888:C:H1'	1:AA:889:C:N3	1.98	0.78
55:BC:39:U:H4'	55:BC:39:U:OP1	1.81	0.78
57:BZ:320:GLY:HA2	57:BZ:321:LYS:HB2	1.62	0.78
1:AA:1270:C:H1'	1:AA:1325:G:C5	2.17	0.78
1:AA:1275:A:N6	1:AA:1296:G:O4'	2.17	0.78
1:AA:1359:A:H62	1:AA:1371:G:N2	1.81	0.78
1:AA:1592:C:H2'	1:AA:1593:G:H8	1.47	0.78
1:AA:1780:A:H4'	1:AA:1780:A:OP1	1.83	0.78
1:AA:2335:A:H2'	1:AA:2337:G:N7	1.98	0.78
1:AA:2449:U:OP1	1:AA:2449:U:C6	2.37	0.78
1:AA:2006:C:O2'	1:AA:2823:A:N3	2.16	0.78
1:AA:360:G:H2'	1:AA:361:G:O4'	1.83	0.78
1:AA:359:A:O2'	1:AA:360:G:N7	2.15	0.78
1:AA:901:A:N7	1:AA:902:C:N4	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2122:U:C4'	3:AC:166:ASP:OD2	2.31	0.78
4:AD:147:LEU:HB3	4:AD:185:VAL:CG2	2.11	0.78
5:AE:147:PRO:HB2	5:AE:149:ARG:HD2	1.66	0.78
6:AF:122:LYS:NZ	6:AF:192:LEU:HB3	1.97	0.78
6:AF:178:PRO:C	6:AF:180:GLY:H	1.82	0.78
7:AG:141:PHE:CE2	7:AG:145:THR:HA	2.19	0.78
8:AH:6:ARG:HA	8:AH:6:ARG:HH11	1.46	0.78
32:AJ:72:PRO:HG3	32:AJ:77:LEU:CD2	0.68	0.78
9:AK:100:GLU:OE2	9:AK:100:GLU:HA	1.82	0.78
9:AK:38:HIS:HB3	9:AK:48:MET:CE	2.14	0.78
9:AK:88:GLU:HB2	9:AK:89:LYS:CE	2.14	0.78
13:AO:33:ARG:HA	13:AO:115:GLU:HB3	1.64	0.78
14:AP:49:VAL:CG1	14:AP:80:LEU:HG	2.14	0.78
14:AP:67:ARG:HH21	14:AP:67:ARG:HG2	1.47	0.78
15:AQ:87:ASP:C	15:AQ:88:ILE:HG13	2.03	0.78
1:AA:578:A:H2	16:AR:34:LYS:HZ1	1.30	0.78
19:AU:18:TYR:HA	19:AU:21:PHE:CD1	2.18	0.78
20:AV:82:PRO:HG3	20:AV:97:ARG:N	1.98	0.78
21:AW:105:VAL:HB	21:AW:140:ASP:OD2	1.84	0.78
22:AX:5:LYS:CG	22:AX:6:GLY:H	1.82	0.78
34:BA:1057:G:H4'	36:BG:197:GLY:H	1.49	0.78
34:BA:1234:C:H4'	34:BA:1364:U:H1'	1.65	0.78
34:BA:1378:C:O2	34:BA:1378:C:H2'	1.82	0.78
34:BA:1441:G:N2	34:BA:1460:A:N6	2.30	0.78
34:BA:482:A:H2	34:BA:483:C:O4'	1.67	0.78
34:BA:978:A:H61	34:BA:1361:G:H22	1.28	0.78
34:BA:986:A:H5'	52:BW:55:LYS:HZ3	1.42	0.78
34:BA:1158:C:C1'	35:BF:133:LYS:HZ1	1.95	0.78
35:BF:47:THR:HG23	35:BF:202:PRO:HD2	1.63	0.78
37:BH:12:CYS:CA	37:BH:19:LEU:HB2	2.12	0.78
37:BH:108:LEU:HD23	37:BH:174:LEU:HD13	1.66	0.78
40:BK:126:ASP:HB3	40:BK:131:LYS:O	1.83	0.78
42:BM:42:ARG:HB3	42:BM:74:ILE:CD1	2.11	0.78
45:BP:37:CYS:HA	45:BP:58:VAL:CG2	2.10	0.78
46:BQ:91:ARG:HD2	46:BQ:98:VAL:O	1.81	0.78
48:BS:32:LEU:O	48:BS:36:ILE:HB	1.83	0.78
49:BT:56:ALA:CB	49:BT:79:VAL:HG11	2.13	0.78
53:BX:21:LYS:O	53:BX:24:LEU:HB2	1.83	0.78
57:BZ:22:VAL:CG1	57:BZ:74:ASP:OD1	2.32	0.78
57:BZ:392:ILE:C	57:BZ:394:GLY:HA3	2.04	0.78
57:BZ:563:MET:HB3	57:BZ:564:THR:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:2:C:O2'	56:BD:3:C:H5'	1.83	0.78
56:BD:6:G:C6	56:BD:67:C:N4	2.52	0.78
8:AH:107:VAL:HG22	8:AH:107:VAL:O	1.82	0.78
1:AA:1034:G:C6	1:AA:1122:G:C5	2.72	0.78
1:AA:1069:A:C2	1:AA:1096:A:C5'	2.65	0.78
1:AA:1104:C:HO2'	1:AA:1106:G:P	2.07	0.78
1:AA:1693:U:H5''	1:AA:1694:C:OP2	1.84	0.78
1:AA:2318:G:O5'	1:AA:2318:G:H8	1.67	0.78
1:AA:2064:C:C1'	1:AA:2450:A:N6	2.47	0.78
1:AA:2574:G:H1'	5:AE:143:ASN:ND2	1.99	0.78
1:AA:2651:C:O2	1:AA:2670:A:N3	2.16	0.78
1:AA:349:G:H2'	1:AA:350:U:H6	1.49	0.78
1:AA:574:C:N4	1:AA:2054:A:H5''	1.99	0.78
1:AA:740:U:O2'	1:AA:741:G:OP1	2.02	0.78
1:AA:865:C:N4	1:AA:909:A:H62	1.81	0.78
1:AA:975:G:N2	1:AA:976:C:O4'	2.17	0.78
2:AB:73:A:H2'	2:AB:74:U:H6	1.48	0.78
4:AD:112:GLN:N	4:AD:115:GLN:NE2	2.31	0.78
4:AD:9:TYR:CE2	4:AD:25:THR:HG21	2.18	0.78
7:AG:131:TYR:HB2	7:AG:159:VAL:H	1.49	0.78
8:AH:89:ILE:HD12	8:AH:90:LYS:N	1.99	0.78
9:AK:97:ARG:O	9:AK:100:GLU:N	2.17	0.78
11:AM:29:LYS:O	11:AM:30:THR:HG23	1.83	0.78
12:AN:101:ARG:HG3	12:AN:101:ARG:NH1	1.93	0.78
12:AN:38:GLU:N	12:AN:39:PRO:HD3	1.99	0.78
15:AQ:26:ASP:HA	15:AQ:100:TYR:OH	1.84	0.78
9:AK:42:TRP:NE1	16:AR:64:ARG:HG2	1.98	0.78
20:AV:1:MET:CG	20:AV:67:LEU:HD22	2.14	0.78
21:AW:45:ASP:O	21:AW:46:LYS:C	2.22	0.78
22:AX:44:ARG:HE	22:AX:77:ARG:HD2	1.48	0.78
22:AX:50:ASN:O	22:AX:62:LEU:HB3	1.82	0.78
34:BA:1244:C:H2'	34:BA:1245:A:H8	1.46	0.78
34:BA:1270:C:C4'	34:BA:1313:U:C4'	2.59	0.78
34:BA:280:C:H1'	50:BU:38:ARG:NE	1.98	0.78
34:BA:834:C:O2'	34:BA:835:U:H5'	1.84	0.78
34:BA:892:A:HO2'	34:BA:1415:G:HO2'	1.30	0.78
35:BF:102:LEU:HD22	35:BF:176:GLU:CB	2.13	0.78
35:BF:78:GLN:NE2	35:BF:96:ARG:HH22	1.79	0.78
38:BI:118:ILE:C	38:BI:119:LEU:HD23	2.03	0.78
43:BN:87:THR:O	43:BN:88:LEU:HD23	1.84	0.78
36:BG:19:GLU:HB2	47:BR:52:GLN:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:31:LEU:HG	50:BU:31:LEU:O	1.84	0.78
50:BU:50:LYS:HD2	50:BU:51:TYR:CE1	2.19	0.78
57:BZ:62:ALA:HA	57:BZ:187:TYR:CD2	2.17	0.78
57:BZ:80:ASP:OD1	57:BZ:365:HIS:N	2.16	0.78
57:BZ:6:ARG:N	57:BZ:69:ARG:CB	2.36	0.78
1:AA:1935:G:H3'	1:AA:1962:C:H42	1.48	0.78
1:AA:2043:C:OP1	1:AA:2043:C:H6	1.67	0.78
1:AA:2096:U:H2'	1:AA:2097:C:C5	2.19	0.78
1:AA:2282:G:N2	1:AA:2425:A:C8	2.52	0.78
1:AA:2467:C:O2'	12:AN:120:ILE:HG23	1.82	0.78
1:AA:2648:C:C2	1:AA:2649:U:N3	2.52	0.78
1:AA:2651:C:C2'	1:AA:2652:C:H5''	2.14	0.78
1:AA:281:G:N3	1:AA:281:G:H2'	1.99	0.78
1:AA:530:G:H22	1:AA:2021:C:C3'	1.96	0.78
1:AA:657:U:H2'	1:AA:658:C:H6	1.48	0.78
1:AA:786:C:HO2'	1:AA:787:U:H5'	1.45	0.78
3:AC:134:ARG:HD3	3:AC:136:LEU:HD12	1.66	0.78
3:AC:156:ILE:CG1	3:AC:160:ARG:CB	2.54	0.78
3:AC:156:ILE:HG12	3:AC:160:ARG:HG3	0.79	0.78
3:AC:97:GLU:HA	3:AC:100:ILE:CD1	2.13	0.78
4:AD:117:VAL:HG11	4:AD:128:GLY:C	2.04	0.78
5:AE:111:ARG:H	5:AE:161:GLY:HA3	1.43	0.78
5:AE:58:ARG:HH21	5:AE:58:ARG:HB2	1.47	0.78
8:AH:103:LEU:HD22	8:AH:115:VAL:HG21	1.66	0.78
8:AH:149:ARG:HG2	8:AH:153:LYS:HD2	1.65	0.78
9:AK:109:LYS:HG2	9:AK:112:LEU:HB2	1.64	0.78
11:AM:52:GLU:CA	11:AM:55:ARG:HG3	2.14	0.78
12:AN:131:ILE:O	12:AN:132:VAL:HG13	1.84	0.78
12:AN:134:ARG:NE	12:AN:137:TYR:HA	1.98	0.78
13:AO:45:ARG:O	13:AO:49:ASP:HB3	1.82	0.78
14:AP:62:LYS:O	14:AP:65:VAL:N	2.17	0.78
15:AQ:58:ASN:N	15:AQ:58:ASN:ND2	2.29	0.78
17:AS:26:ASP:C	17:AS:29:PRO:HD2	2.04	0.78
17:AS:67:GLY:O	17:AS:93:GLU:O	2.02	0.78
19:AU:36:LYS:CD	19:AU:54:VAL:HG12	2.13	0.78
21:AW:18:LEU:HB3	21:AW:23:LYS:O	1.83	0.78
34:BA:1484:C:C2'	34:BA:1485:U:C5'	2.60	0.78
34:BA:20:U:H2'	34:BA:21:G:O4'	1.84	0.78
34:BA:225:C:H2'	34:BA:226:G:C5'	2.13	0.78
34:BA:404:U:H4'	37:BH:122:ARG:HH11	1.49	0.78
34:BA:501:C:H1'	34:BA:549:C:H1'	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:552:U:O2'	34:BA:553:A:H5'	1.82	0.78
36:BG:152:ILE:HG22	36:BG:167:TRP:CB	2.13	0.78
34:BA:408:A:H5'	37:BH:116:GLN:HG2	1.66	0.78
40:BK:78:ARG:HB2	40:BK:156:TRP:CH2	2.19	0.78
42:BM:49:PRO:HB3	42:BM:82:ALA:HB2	1.65	0.78
42:BM:79:LEU:CD1	42:BM:101:PHE:HB3	2.14	0.78
45:BP:6:THR:O	45:BP:10:LEU:HB2	1.83	0.78
34:BA:1459:C:OP2	53:BX:31:SER:CB	2.32	0.78
57:BZ:234:ASN:HA	57:BZ:235:GLN:CB	2.13	0.78
9:AK:6:PRO:HA	9:AK:41:ASP:CB	2.13	0.78
1:AA:1312:U:C2'	1:AA:1313:U:H6	1.96	0.78
1:AA:1475:G:H22	1:AA:1477:A:H62	1.32	0.78
1:AA:1708:C:O2'	1:AA:1709:U:H5''	1.84	0.78
1:AA:1798:U:H5'	4:AD:257:LEU:CD1	2.14	0.78
1:AA:1996:C:H2'	1:AA:1997:G:C4'	2.13	0.78
1:AA:1268:A:C6	1:AA:2013:A:N7	2.51	0.78
1:AA:981:A:N3	1:AA:2037:G:H1'	1.98	0.78
1:AA:2073:C:C2'	1:AA:2074:U:H5'	2.14	0.78
1:AA:2233:U:H2'	1:AA:2234:G:C8	2.19	0.78
1:AA:2312:U:HO2'	7:AG:40:ASN:CG	1.87	0.78
1:AA:2457:U:H2'	1:AA:2458:G:O4'	1.83	0.78
1:AA:2525:G:H5'	1:AA:2526:G:OP2	1.84	0.78
1:AA:2889:C:H2'	1:AA:2891:G:H8	1.46	0.78
1:AA:293:U:H3'	1:AA:293:U:H6	1.48	0.78
1:AA:832:G:P	11:AM:35:HIS:HB2	2.23	0.78
3:AC:162:GLU:HG2	3:AC:163:PHE:N	1.98	0.78
4:AD:78:LYS:HG2	4:AD:114:GLY:O	1.84	0.78
4:AD:37:LEU:HD21	4:AD:64:ILE:H	1.49	0.78
9:AK:54:VAL:HG12	9:AK:122:VAL:CB	2.14	0.78
12:AN:37:LEU:HD11	12:AN:130:LYS:HB2	1.65	0.78
13:AO:105:ARG:HG3	13:AO:106:GLY:H	1.49	0.78
13:AO:79:LEU:CD2	13:AO:80:PHE:N	2.47	0.78
14:AP:26:LEU:HD22	14:AP:27:SER:N	1.98	0.78
1:AA:1009:A:O2'	16:AR:62:ILE:HD13	1.83	0.78
20:AV:13:VAL:HG13	20:AV:70:SER:HB3	1.65	0.78
34:BA:1181:G:N7	34:BA:1182:G:N3	2.32	0.78
34:BA:1308:U:O2	34:BA:1309:G:H5'	1.84	0.78
34:BA:704:A:H2'	34:BA:705:U:C6	2.18	0.78
34:BA:663:A:H5'	34:BA:836:G:OP1	1.83	0.78
55:BC:18:G:N1	55:BC:55:U:H1'	1.99	0.78
37:BH:170:VAL:HG23	37:BH:176:LEU:HD22	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:92:ASP:C	45:BP:93:LEU:HD23	2.04	0.78
50:BU:65:ILE:HG23	50:BU:69:LYS:HD2	1.64	0.78
52:BW:3:ARG:CZ	52:BW:45:VAL:HG13	2.13	0.78
57:BZ:119:TYR:CD2	57:BZ:121:LEU:HG	2.17	0.78
57:BZ:491:ASN:ND2	57:BZ:536:ASN:HB3	1.95	0.78
1:AA:1069:A:H4'	1:AA:1070:A:H5''	1.66	0.78
1:AA:1265:A:H8	1:AA:1267:U:O4	1.65	0.78
1:AA:1805:U:H1'	4:AD:51:VAL:HG11	1.65	0.78
1:AA:1817:G:O2'	1:AA:1818:U:H5'	1.84	0.78
1:AA:209:C:H5'	1:AA:681:G:H4'	1.66	0.78
1:AA:2123:G:C1'	3:AC:215:THR:CG2	2.62	0.78
1:AA:2581:G:C6	1:AA:2610:C:H2'	2.18	0.78
1:AA:2698:U:H2'	1:AA:2699:C:C5	2.18	0.78
1:AA:2764:A:N7	1:AA:2766:G:C6	2.52	0.78
1:AA:7:G:C2	1:AA:2896:C:H2'	2.19	0.78
1:AA:861:A:OP2	1:AA:862:G:OP2	2.02	0.78
5:AE:136:ARG:HD3	5:AE:136:ARG:O	1.84	0.78
5:AE:169:ASN:HD22	5:AE:170:LEU:H	1.32	0.78
6:AF:154:VAL:HG12	6:AF:191:ARG:HB3	1.64	0.78
10:AL:59:LYS:HE2	10:AL:59:LYS:H	1.47	0.78
1:AA:2415:G:H5''	11:AM:61:ARG:HB2	1.65	0.78
11:AM:95:VAL:C	11:AM:97:PRO:HD2	2.03	0.78
17:AS:35:LEU:HG	17:AS:36:PRO:HD2	1.66	0.78
18:AT:76:VAL:HG22	18:AT:77:ASP:N	1.99	0.78
21:AW:103:ARG:HB2	21:AW:138:GLU:HG2	1.66	0.78
21:AW:171:ILE:O	21:AW:171:ILE:HD12	1.84	0.78
24:AZ:28:LEU:HD23	24:AZ:28:LEU:N	1.97	0.78
34:BA:1407:C:C2'	34:BA:1408:A:H5'	2.14	0.78
34:BA:520:A:N6	34:BA:529:G:N2	2.32	0.78
34:BA:735:C:O2'	34:BA:736:C:H5'	1.84	0.78
35:BF:101:MET:CB	35:BF:108:ILE:HG13	2.13	0.78
34:BA:404:U:C4'	37:BH:122:ARG:HH11	1.96	0.78
37:BH:74:GLN:O	37:BH:77:ASN:HB2	1.84	0.78
39:BJ:76:ALA:HB3	39:BJ:80:ARG:NH2	1.98	0.78
41:BL:114:THR:HG23	41:BL:119:LEU:HD23	1.66	0.78
41:BL:9:MET:HG2	41:BL:13:ILE:HD11	1.64	0.78
50:BU:19:VAL:CG2	50:BU:46:ASP:HB2	2.13	0.78
57:BZ:207:MET:HA	57:BZ:226:ILE:HA	1.66	0.78
57:BZ:253:LYS:HE3	57:BZ:269:GLU:CB	2.14	0.78
57:BZ:580:VAL:HG12	57:BZ:585:ILE:HD12	1.65	0.78
57:BZ:6:ARG:CA	57:BZ:68:TYR:O	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1583:A:H5'	1:AA:1585:C:H5'	1.66	0.78
57:BZ:184:THR:H	57:BZ:185:PRO:CD	1.97	0.78
1:AA:1037:G:C6	1:AA:1119:C:C4	2.72	0.77
1:AA:1188:U:O2'	1:AA:1189:A:H5'	1.84	0.77
1:AA:1224:G:H2'	17:AS:87:HIS:CE1	2.18	0.77
1:AA:1225:C:O4'	17:AS:87:HIS:HE1	1.67	0.77
1:AA:13:A:N6	1:AA:525:U:C6	2.53	0.77
1:AA:1495:A:H2'	1:AA:1496:A:N7	1.98	0.77
1:AA:1797:C:H2'	1:AA:1798:U:C6	2.18	0.77
1:AA:2014:A:N3	1:AA:2015:A:N1	2.31	0.77
1:AA:2247:A:O2'	1:AA:2248:C:H5'	1.84	0.77
1:AA:2481:G:O2'	1:AA:2482:G:H5'	1.83	0.77
1:AA:2515:C:O2'	1:AA:2516:G:H5'	1.84	0.77
1:AA:2570:G:N2	1:AA:2571:C:C2	2.52	0.77
1:AA:2832:U:H1'	1:AA:2834:G:C2	2.18	0.77
1:AA:2507:C:C2	59:AA:3002:8AN:N3	2.51	0.77
1:AA:948:G:H1'	1:AA:984:A:N3	1.99	0.77
2:AB:31:C:O2	2:AB:53:A:N6	2.17	0.77
7:AG:39:ILE:HD12	7:AG:39:ILE:N	1.99	0.77
11:AM:121:LYS:N	11:AM:122:PRO:HD3	1.98	0.77
11:AM:59:LEU:HD12	11:AM:60:MET:SD	2.24	0.77
12:AN:102:VAL:HG13	12:AN:102:VAL:O	1.83	0.77
12:AN:16:ARG:HG2	12:AN:73:PRO:HD2	1.66	0.77
1:AA:2320:A:N6	14:AP:4:LEU:HD13	1.99	0.77
15:AQ:18:ASP:HB3	15:AQ:81:PRO:CA	2.14	0.77
16:AR:13:LYS:HA	16:AR:16:LYS:HZ2	1.48	0.77
16:AR:88:ILE:HG22	17:AS:55:ALA:HB3	1.64	0.77
18:AT:64:MET:CG	18:AT:109:GLU:HG3	2.13	0.77
21:AW:65:GLN:O	21:AW:67:LEU:HG	1.84	0.77
22:AX:37:LEU:HD12	22:AX:59:LEU:HB3	1.64	0.77
23:AY:25:ARG:HG3	23:AY:25:ARG:HH21	1.48	0.77
34:BA:1105:A:HO2'	34:BA:1106:G:H5'	1.48	0.77
34:BA:120:A:H2'	34:BA:122:G:N7	1.99	0.77
34:BA:1270:C:O2'	34:BA:1313:U:C5'	2.31	0.77
34:BA:1318:A:H1'	52:BW:35:SER:HG	0.95	0.77
34:BA:1394:A:N6	34:BA:1501:C:H5'	1.98	0.77
34:BA:1510:U:H2'	34:BA:1511:G:H8	1.46	0.77
34:BA:161:A:H2'	34:BA:162:A:O4'	1.83	0.77
34:BA:708:C:O2'	34:BA:709:G:H5'	1.82	0.77
34:BA:781:A:N6	34:BA:802:A:C4	2.51	0.77
34:BA:872:A:O2'	34:BA:873:A:OP1	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:73:THR:HG21	35:BF:95:GLN:O	1.84	0.77
38:BI:78:HIS:H	38:BI:78:HIS:CD2	1.99	0.77
40:BK:45:ASP:HA	40:BK:48:LYS:HZ3	1.47	0.77
42:BM:3:GLN:HA	42:BM:20:ARG:HG2	1.65	0.77
44:BO:48:ILE:HG23	44:BO:63:LEU:HD13	1.66	0.77
46:BQ:15:VAL:HG21	46:BQ:39:ILE:HG13	1.55	0.77
46:BQ:36:LYS:HG2	46:BQ:56:LEU:HD22	1.66	0.77
57:BZ:62:ALA:CB	57:BZ:64:ILE:HG13	2.13	0.77
57:BZ:8:ILE:HD11	57:BZ:96:LEU:CD1	2.14	0.77
1:AA:1036:G:H5'	8:AH:59:ARG:NH2	2.00	0.77
1:AA:1050:A:H1'	1:AA:2752:C:C4	2.16	0.77
1:AA:1356:G:O2'	1:AA:1357:U:H5'	1.85	0.77
1:AA:141:A:C2	1:AA:141(A):C:O4'	2.37	0.77
1:AA:1491:G:C3'	1:AA:1492:G:H4'	2.14	0.77
1:AA:149:A:H2'	1:AA:150:C:H5'	1.66	0.77
1:AA:2268:A:H5'	1:AA:2269:A:OP2	1.85	0.77
1:AA:2349:G:C3'	1:AA:2350:C:H5''	2.12	0.77
1:AA:2506:U:O2'	1:AA:2507:C:H5'	1.84	0.77
1:AA:2516:G:C4	1:AA:2569:G:N2	2.52	0.77
1:AA:2520:C:O2'	1:AA:2521:C:H5'	1.83	0.77
1:AA:2591:C:C2'	1:AA:2592:G:H8	1.92	0.77
1:AA:2670:A:H5'	5:AE:206:LYS:HZ1	1.48	0.77
1:AA:2700:C:C2'	1:AA:2701:C:H5''	2.15	0.77
1:AA:270:A:H2'	1:AA:270(A):A:O4'	1.84	0.77
1:AA:360:G:H2'	1:AA:361:G:C5'	2.14	0.77
1:AA:673:C:H5'	6:AF:82:ILE:HG23	1.65	0.77
1:AA:735:A:H8	1:AA:735:A:O5'	1.67	0.77
3:AC:90:GLY:HA3	3:AC:157:LYS:HB2	1.66	0.77
3:AC:44:HIS:CE1	3:AC:215:THR:C	2.43	0.77
3:AC:81:GLU:O	3:AC:84:LYS:HB2	1.84	0.77
4:AD:76:PRO:HA	4:AD:118:VAL:HG22	1.65	0.77
5:AE:9:VAL:HG12	5:AE:192:ASN:HD22	1.49	0.77
6:AF:103:LYS:HA	6:AF:106:ARG:CG	2.15	0.77
7:AG:141:PHE:C	7:AG:143:GLU:N	2.36	0.77
7:AG:26:GLN:NE2	7:AG:31:VAL:CG2	2.47	0.77
8:AH:40:GLU:HB2	8:AH:55:PRO:HG3	1.64	0.77
32:AJ:51:ALA:HB3	32:AJ:72:PRO:HB3	1.67	0.77
9:AK:103:VAL:CG2	9:AK:104:LYS:N	2.47	0.77
9:AK:55:VAL:HG21	9:AK:127:ASP:N	1.99	0.77
9:AK:22:THR:HG22	9:AK:61:ARG:NH2	1.98	0.77
11:AM:23:PRO:HB2	11:AM:28:GLY:CA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:52:ILE:O	13:AO:52:ILE:HD13	1.83	0.77
14:AP:74:ALA:HB2	14:AP:104:GLY:O	1.82	0.77
15:AQ:53:ARG:HH22	15:AQ:102:ILE:H	1.31	0.77
15:AQ:50:ILE:HD13	15:AQ:76:PHE:HB3	1.66	0.77
17:AS:35:LEU:O	17:AS:61:VAL:HA	1.83	0.77
20:AV:14:LEU:CD2	20:AV:19:LYS:HB2	2.15	0.77
21:AW:110:GLY:CA	21:AW:144:LEU:HB2	2.14	0.77
23:AY:36:ILE:HG23	23:AY:37:GLY:H	1.49	0.77
34:BA:243:A:H61	34:BA:283:C:H41	1.30	0.77
34:BA:301:G:H21	34:BA:302:G:H1'	1.49	0.77
34:BA:65:U:H4'	34:BA:66:G:H5''	1.65	0.77
34:BA:748:C:O5'	34:BA:748:C:C6	2.36	0.77
34:BA:761:G:C5'	50:BU:103:GLY:H	1.96	0.77
34:BA:872:A:H2'	34:BA:873:A:H5''	1.64	0.77
34:BA:961:U:H1'	34:BA:1201:A:H61	1.49	0.77
34:BA:962:C:H1'	34:BA:1201:A:N1	2.00	0.77
35:BF:145:LEU:O	35:BF:149:LEU:CB	2.32	0.77
37:BH:168:ARG:H	37:BH:168:ARG:CD	1.94	0.77
37:BH:108:LEU:HD21	37:BH:174:LEU:HB3	1.67	0.77
37:BH:198:VAL:HG23	37:BH:199:ASN:H	1.49	0.77
40:BK:143:ARG:HD2	40:BK:144:MET:H	1.49	0.77
40:BK:36:LYS:NZ	40:BK:36:LYS:HA	1.98	0.77
40:BK:72:ARG:HH22	40:BK:138:LYS:HZ3	1.32	0.77
42:BM:11:LYS:N	42:BM:104:ARG:HH21	1.82	0.77
42:BM:66:ARG:HG2	42:BM:67:GLY:H	1.49	0.77
43:BN:49:VAL:HG12	47:BR:45:ARG:HD2	1.64	0.77
49:BT:6:LEU:HA	49:BT:18:ARG:O	1.84	0.77
50:BU:4:LYS:CD	50:BU:5:VAL:H	1.94	0.77
50:BU:5:VAL:HG12	50:BU:6:LEU:N	1.99	0.77
57:BZ:2:ILE:HD13	57:BZ:267:LEU:HB3	1.66	0.77
57:BZ:537:CYS:C	57:BZ:538:LEU:HD22	2.04	0.77
1:AA:2797:U:H5''	1:AA:2798:C:OP1	1.85	0.77
1:AA:274:G:H3'	1:AA:274:G:N3	1.98	0.77
31:AI:73:GLY:O	31:AI:75:GLN:N	2.13	0.77
1:AA:1000:A:H61	1:AA:1155:A:H5'	1.49	0.77
1:AA:1036:G:N2	1:AA:1120:G:C5	2.51	0.77
1:AA:1312:U:H5'	19:AU:63:LYS:HE3	1.65	0.77
1:AA:2291:U:OP1	1:AA:2381:C:H5'	1.83	0.77
1:AA:245:G:OP1	11:AM:65:ARG:HD3	1.83	0.77
1:AA:2519:U:C6	1:AA:2542:A:C6	2.72	0.77
1:AA:2543:G:N3	1:AA:2765:A:C2	2.52	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2776:A:H4'	1:AA:2777:G:H5''	1.66	0.77
3:AC:70:LYS:NZ	3:AC:177:LYS:HG2	1.99	0.77
5:AE:125:GLY:H	5:AE:136:ARG:HA	1.49	0.77
5:AE:201:THR:C	5:AE:202:LYS:HD3	2.04	0.77
7:AG:15:VAL:O	7:AG:18:GLU:HB3	1.83	0.77
8:AH:35:VAL:CG2	8:AH:72:ILE:HG23	2.14	0.77
1:AA:1058:G:C1'	32:AJ:116:ASN:HD22	1.98	0.77
32:AJ:23:VAL:HG11	32:AJ:37:PHE:CB	2.14	0.77
10:AL:37:ASP:N	10:AL:61:VAL:HB	1.98	0.77
11:AM:46:LYS:HD2	11:AM:46:LYS:O	1.83	0.77
12:AN:55:VAL:CG2	12:AN:64:ILE:HD11	2.14	0.77
13:AO:38:VAL:CB	13:AO:39:PRO:HD3	2.14	0.77
15:AQ:11:GLU:CD	15:AQ:11:GLU:N	2.38	0.77
16:AR:57:PHE:CD2	16:AR:60:LEU:HD12	2.19	0.77
17:AS:18:LEU:CD1	17:AS:66:ARG:HH12	1.97	0.77
20:AV:38:ILE:HG23	20:AV:60:PHE:CZ	2.18	0.77
59:AA:3003:8AN:O2P	22:AX:2:ALA:HB3	1.81	0.77
34:BA:1004:A:C8	34:BA:1036:G:O6	2.32	0.77
34:BA:113:G:H2'	34:BA:114:U:C6	2.19	0.77
34:BA:1164:G:C6	34:BA:1165:C:C4	2.73	0.77
34:BA:1269:A:N6	34:BA:1312:G:O3'	1.97	0.77
34:BA:179:A:H3'	34:BA:180:U:H5	1.48	0.77
56:BE:51:U:H2'	56:BE:52:G:C8	2.19	0.77
35:BF:69:LEU:HD22	35:BF:91:PRO:C	2.05	0.77
36:BG:91:LEU:HD11	36:BG:99:VAL:N	1.99	0.77
37:BH:110:PHE:HE1	37:BH:148:VAL:HG23	1.49	0.77
41:BL:24:THR:O	41:BL:60:ARG:HA	1.84	0.77
42:BM:34:ASN:OD1	42:BM:43:ALA:HB2	1.85	0.77
43:BN:25:GLU:O	43:BN:28:ARG:HB2	1.84	0.77
45:BP:41:ARG:HG2	45:BP:42:THR:N	1.99	0.77
45:BP:5:PRO:HB3	45:BP:10:LEU:HD11	1.66	0.77
50:BU:40:LYS:HZ3	50:BU:40:LYS:HB3	1.49	0.77
50:BU:43:LEU:HD22	50:BU:44:ALA:H	1.48	0.77
53:BX:63:ILE:O	53:BX:72:LEU:HD12	1.84	0.77
57:BZ:59:LYS:NZ	57:BZ:59:LYS:HB2	2.00	0.77
56:BD:2:C:H2'	56:BD:3:C:H5'	1.67	0.77
55:BC:32:U:H2'	55:BC:33:U:O4'	1.84	0.77
1:AA:1105:U:O3'	1:AA:1106:G:C3'	2.30	0.77
1:AA:1309:G:H2'	1:AA:1310:G:H5'	1.65	0.77
1:AA:172:C:C2	1:AA:173:G:C8	2.71	0.77
1:AA:176:G:H2'	1:AA:177:G:H8	1.46	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1864:U:C2'	1:AA:1869:G:H5'	2.14	0.77
1:AA:1993:U:C6	1:AA:1994:C:H5	2.01	0.77
1:AA:2524:G:H2'	1:AA:2525:G:O4'	1.83	0.77
1:AA:775:G:H21	1:AA:787:U:H2'	1.49	0.77
1:AA:781:A:H2	1:AA:1776:G:N3	1.81	0.77
2:AB:28:C:H6	2:AB:28:C:O5'	1.67	0.77
4:AD:176:ARG:HH22	4:AD:270:ILE:CD1	1.98	0.77
1:AA:1799:G:O6	4:AD:177:LEU:HD12	1.84	0.77
4:AD:244:ARG:N	4:AD:245:PRO:CD	2.46	0.77
6:AF:139:PHE:HE2	6:AF:167:ALA:HA	1.48	0.77
7:AG:12:TYR:HA	7:AG:15:VAL:CG2	2.14	0.77
7:AG:61:ALA:HB2	7:AG:67:LYS:HE2	1.64	0.77
7:AG:92:VAL:CG1	7:AG:94:LEU:HD22	2.15	0.77
32:AJ:12:LEU:HD13	32:AJ:41:PHE:CZ	2.11	0.77
9:AK:115:ARG:HA	9:AK:118:LYS:CD	2.15	0.77
10:AL:77:ILE:O	15:AQ:75:ILE:HG13	1.85	0.77
11:AM:122:PRO:HB2	11:AM:138:LEU:HB2	1.65	0.77
14:AP:89:ARG:NH1	14:AP:91:PRO:HA	2.00	0.77
15:AQ:18:ASP:CB	15:AQ:81:PRO:HA	2.14	0.77
16:AR:47:TYR:OH	17:AS:77:ALA:N	2.17	0.77
17:AS:64:HIS:HA	17:AS:97:LYS:CD	2.14	0.77
18:AT:36:LEU:HD11	18:AT:47:VAL:CG2	2.15	0.77
21:AW:24:LEU:HD13	21:AW:83:PRO:CD	2.14	0.77
23:AY:25:ARG:O	23:AY:28:MET:HB2	1.84	0.77
24:AZ:10:LYS:HE2	24:AZ:31:LEU:CD2	2.15	0.77
34:BA:1393:U:H4'	34:BA:1501:C:HO2'	1.48	0.77
34:BA:1521:G:O2'	34:BA:1522:U:H5'	1.84	0.77
34:BA:225:C:C2'	34:BA:226:G:H5'	2.14	0.77
35:BF:77:ALA:HB2	35:BF:211:ILE:HD13	1.67	0.77
36:BG:150:LYS:HB2	36:BG:173:VAL:CG2	2.14	0.77
39:BJ:98:LEU:HG	51:BV:28:GLU:CG	2.14	0.77
38:BI:78:HIS:CB	41:BL:104:ARG:HD3	2.14	0.77
48:BS:39:LEU:HD13	48:BS:56:LEU:HD13	1.65	0.77
51:BV:33:ASP:CG	51:BV:34:TYR:N	2.33	0.77
51:BV:69:THR:HA	51:BV:72:ARG:HG3	1.66	0.77
57:BZ:181:GLU:HG3	57:BZ:183:MET:HE3	1.67	0.77
57:BZ:243:GLU:CG	57:BZ:245:LYS:HD3	2.13	0.77
57:BZ:88:VAL:CG1	57:BZ:92:VAL:HG11	2.14	0.77
57:BZ:491:ASN:ND2	57:BZ:536:ASN:CA	2.46	0.77
45:BP:80:HIS:HD2	57:BZ:326:VAL:CA	1.95	0.77
32:AJ:54:PRO:HD2	32:AJ:70:LYS:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BC:28:G:H2'	55:BC:29:G:H8	1.49	0.77
1:AA:1079:C:H2'	1:AA:1080:C:H5'	1.66	0.77
1:AA:1203:G:N1	1:AA:1241:A:C8	2.52	0.77
1:AA:1567:A:H4'	1:AA:1568:G:N2	1.99	0.77
1:AA:1742:C:H3'	1:AA:1743:G:C5'	2.15	0.77
1:AA:182:A:H2'	1:AA:183:C:H6	1.46	0.77
1:AA:1992:G:H1'	1:AA:1993:U:H5	1.46	0.77
1:AA:2097:C:C2'	1:AA:2098:U:H5'	2.13	0.77
1:AA:2208:U:O2'	4:AD:151:LYS:HD3	1.85	0.77
1:AA:2489:G:H2'	1:AA:2490:G:H8	1.46	0.77
1:AA:242:G:H2'	1:AA:254:G:O6	1.85	0.77
1:AA:2007:C:H4'	1:AA:2824:C:O2'	1.83	0.77
1:AA:516:C:O2'	1:AA:517:C:H5'	1.84	0.77
1:AA:623:G:P	11:AM:105:LEU:HD21	2.23	0.77
2:AB:21:G:H2'	2:AB:22:U:O4'	1.84	0.77
3:AC:52:ARG:HD3	55:BC:62:C:C1'	2.13	0.77
4:AD:159:ALA:C	4:AD:196:VAL:HG21	2.05	0.77
5:AE:124:GLY:HA3	5:AE:136:ARG:HB2	1.67	0.77
5:AE:197:ILE:H	5:AE:197:ILE:HD12	1.47	0.77
6:AF:36:VAL:HG11	6:AF:183:VAL:HB	1.65	0.77
8:AH:26:VAL:HG21	8:AH:75:ALA:HB1	1.66	0.77
1:AA:1081:U:O4'	32:AJ:125:ARG:HB3	1.84	0.77
1:AA:1242:A:C2	11:AM:6:LEU:HD21	2.20	0.77
22:AX:28:GLY:N	22:AX:67:VAL:HB	1.98	0.77
34:BA:1453:G:H2'	34:BA:1454:G:O4'	1.85	0.77
37:BH:10:ARG:C	37:BH:10:ARG:HD3	2.05	0.77
40:BK:76:ARG:NH1	40:BK:89:MET:HG3	1.99	0.77
41:BL:22:GLU:CA	41:BL:63:LEU:HD22	2.14	0.77
41:BL:82:HIS:NE2	41:BL:84:ARG:HG3	1.99	0.77
42:BM:4:TYR:HE1	42:BM:59:PHE:CE2	2.02	0.77
43:BN:30:SER:HB2	43:BN:81:THR:N	2.00	0.77
46:BQ:14:ARG:HB2	46:BQ:41:PRO:HA	1.67	0.77
46:BQ:22:ILE:C	46:BQ:25:ILE:HG13	2.05	0.77
46:BQ:16:ASP:CB	46:BQ:30:ALA:HB1	2.14	0.77
52:BW:62:ILE:HG12	52:BW:67:VAL:HG22	1.64	0.77
52:BW:62:ILE:HD11	52:BW:67:VAL:CA	2.14	0.77
34:BA:1455:G:OP1	53:BX:31:SER:C	2.22	0.77
57:BZ:27:GLN:CD	57:BZ:183:MET:SD	2.63	0.77
57:BZ:230:LYS:CB	57:BZ:231:VAL:HB	2.15	0.77
57:BZ:62:ALA:CA	57:BZ:187:TYR:CD2	2.67	0.77
57:BZ:499:PHE:HB2	57:BZ:540:GLY:CA	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1142:U:C6	1:AA:1142(A):A:H8	2.01	0.77
1:AA:1312:U:C5	19:AU:62:LYS:HG3	2.20	0.77
1:AA:1815:A:H1'	1:AA:1817:G:C4	2.20	0.77
1:AA:2011:U:H2'	1:AA:2012:G:C8	2.20	0.77
1:AA:2447:G:C3'	1:AA:2499:C:OP2	2.32	0.77
1:AA:2603:G:OP2	22:AX:1:MET:HB2	1.84	0.77
1:AA:270(X):G:N1	1:AA:270(Y):G:H1'	2.00	0.77
1:AA:2631:G:C8	1:AA:2894:G:H8	1.96	0.77
59:AA:3003:8AN:O1P	22:AX:4:LYS:CD	2.28	0.77
1:AA:477:A:H62	1:AA:502:A:H61	0.80	0.77
1:AA:621:A:N6	1:AA:622:G:C2	2.53	0.77
2:AB:16:G:H2'	2:AB:17:C:H6	1.50	0.77
1:AA:2124:G:C6	3:AC:218:MET:CA	2.65	0.77
4:AD:147:LEU:HA	4:AD:185:VAL:CG1	2.14	0.77
8:AH:85:LYS:CE	8:AH:142:GLY:HA2	2.15	0.77
32:AJ:105:LEU:HA	32:AJ:123:ALA:HB2	1.64	0.77
32:AJ:37:PHE:CE2	32:AJ:63:ARG:HD3	2.18	0.77
32:AJ:72:PRO:HD3	32:AJ:77:LEU:HD21	1.67	0.77
12:AN:6:ARG:HH21	12:AN:8:LYS:HG3	1.49	0.77
13:AO:50:HIS:O	13:AO:53:HIS:HB3	1.84	0.77
14:AP:75:GLU:HA	14:AP:78:LEU:HB3	1.66	0.77
34:BA:1074:G:H4'	35:BF:103:THR:O	1.82	0.77
34:BA:1242:C:H5''	54:BY:10:ARG:NH1	1.95	0.77
34:BA:1312:G:O6	34:BA:1326:C:C4	2.36	0.77
34:BA:1463:C:O2'	34:BA:1464:G:H5'	1.85	0.77
34:BA:1486:G:C5	34:BA:1487:G:N7	2.21	0.77
34:BA:67:C:H4'	34:BA:172:A:O4'	1.84	0.77
34:BA:194:C:C2'	34:BA:195:A:H5''	2.13	0.77
34:BA:842:C:H4'	34:BA:848:C:C2	2.19	0.77
56:BE:5:G:H5''	56:BE:6:G:C2	2.20	0.77
41:BL:39:LEU:HB3	41:BL:45:ILE:HG21	1.65	0.77
42:BM:53:VAL:HG21	42:BM:92:TYR:CE1	2.20	0.77
45:BP:82:VAL:HG12	45:BP:83:VAL:H	1.50	0.77
48:BS:26:GLU:O	48:BS:29:VAL:HB	1.84	0.77
57:BZ:248:ASN:OD1	57:BZ:274:VAL:O	2.01	0.77
57:BZ:398:GLU:CD	57:BZ:444:PRO:HB2	2.04	0.77
57:BZ:6:ARG:HD2	57:BZ:194:VAL:HG12	0.78	0.77
56:BD:50:U:C4	56:BD:64:A:N1	2.52	0.77
57:BZ:40:GLU:H	57:BZ:41:ARG:C	1.88	0.77
1:AA:1446:C:H2'	1:AA:1447:G:H8	1.48	0.77
1:AA:1453:A:H61	13:AO:63:ARG:NH2	1.80	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1524:G:H2'	1:AA:1525:G:C8	2.20	0.77
1:AA:1742:C:H2'	1:AA:1743:G:C4'	2.14	0.77
1:AA:1788:C:N4	1:AA:1789:A:N7	2.31	0.77
1:AA:1863:G:H2'	1:AA:1864:U:H6	1.48	0.77
1:AA:1969:A:H5'	1:AA:1970:A:OP1	1.85	0.77
1:AA:221:A:O2'	1:AA:222:A:OP2	2.02	0.77
1:AA:2459:A:H2'	1:AA:2460:U:C4'	2.14	0.77
1:AA:2488:A:O2'	1:AA:2489:G:H5'	1.84	0.77
1:AA:2503:A:H4'	1:AA:2504:U:OP1	1.84	0.77
1:AA:2523:G:H1'	1:AA:2765:A:H62	1.47	0.77
1:AA:2541:A:H2	1:AA:2765:A:H61	1.33	0.77
1:AA:30:G:OP1	16:AR:11:ARG:NH2	2.18	0.77
1:AA:319:C:H2'	1:AA:320:A:O4'	1.85	0.77
1:AA:518:G:H4'	18:AT:18:ARG:NH1	1.98	0.77
1:AA:261:G:C4'	1:AA:608:A:C2	2.65	0.77
1:AA:800:A:O2'	1:AA:801:G:H5''	1.85	0.77
1:AA:973:A:O4'	1:AA:1188:U:C4	2.38	0.77
2:AB:73:A:N6	2:AB:104:A:H1'	2.00	0.77
3:AC:122:ALA:CB	3:AC:126:LYS:HD3	2.14	0.77
3:AC:180:PHE:HE2	3:AC:184:LYS:HB2	0.63	0.77
1:AA:2152:G:OP1	3:AC:3:HIS:C	2.23	0.77
1:AA:1803:A:H4'	4:AD:257:LEU:CD1	2.15	0.77
4:AD:24:ILE:HG21	4:AD:26:LYS:HE2	1.67	0.77
1:AA:2784:C:H4'	5:AE:41:LYS:HE2	1.65	0.77
6:AF:125:LEU:HD22	6:AF:127:GLU:O	1.85	0.77
8:AH:103:LEU:HD13	8:AH:115:VAL:CG1	2.15	0.77
8:AH:153:LYS:HB2	8:AH:162:ILE:CG2	2.14	0.77
1:AA:1046:A:C6	31:AI:9:LEU:O	2.38	0.77
32:AJ:100:THR:HG1	32:AJ:103:GLN:CB	1.92	0.77
32:AJ:33:ASN:HB2	32:AJ:63:ARG:HB3	1.65	0.77
14:AP:40:ILE:HG13	14:AP:47:THR:HG23	1.66	0.77
19:AU:7:VAL:CG1	23:AY:31:ARG:HH22	1.97	0.77
34:BA:1109:C:C2'	34:BA:1110:A:H8	1.97	0.77
34:BA:110:C:H2'	34:BA:111:G:O4'	1.85	0.77
34:BA:1239:A:N3	34:BA:1239:A:H2'	1.99	0.77
34:BA:1289:A:N6	34:BA:1371:G:O2'	2.18	0.77
34:BA:1308:U:O5'	46:BQ:98:VAL:HB	1.85	0.77
34:BA:129(A):G:H4'	34:BA:130:A:O5'	1.85	0.77
34:BA:1315:U:O2	34:BA:1361:G:N3	2.18	0.77
34:BA:923:A:P	38:BI:21:ALA:HB2	2.25	0.77
35:BF:212:GLN:O	35:BF:216:SER:HB2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:25:ASN:HB3	35:BF:191:ASP:HA	1.67	0.77
39:BJ:65:VAL:HG23	39:BJ:66:GLU:O	1.83	0.77
39:BJ:68:PRO:HB2	39:BJ:71:ARG:CG	2.15	0.77
41:BL:9:MET:HG3	41:BL:26:VAL:HG11	1.65	0.77
41:BL:32:LYS:HG2	41:BL:33:GLU:N	1.97	0.77
42:BM:103:THR:HG22	42:BM:104:ARG:N	2.00	0.77
46:BQ:15:VAL:HG11	46:BQ:37:THR:CG2	2.15	0.77
46:BQ:16:ASP:CB	46:BQ:34:LEU:HD11	1.80	0.77
48:BS:7:GLU:HB3	48:BS:10:LYS:HE3	1.66	0.77
56:BD:5:G:C5	56:BD:69:G:C5	2.72	0.77
57:BZ:603:ALA:HB3	57:BZ:604:PRO:CD	2.15	0.77
55:BC:33:U:H5''	55:BC:34:G:OP2	1.84	0.77
34:BA:511:C:HO2'	34:BA:512:U:H6	1.33	0.77
1:AA:1068:G:C1'	1:AA:1096:A:H4'	2.14	0.77
1:AA:1603:A:H3'	1:AA:1603:A:OP2	1.84	0.77
1:AA:1687:G:C6	1:AA:1688:U:C5	2.73	0.77
1:AA:1853:A:H2'	1:AA:1854:A:H8	1.49	0.77
1:AA:2378:A:C2	1:AA:2379:G:H1'	2.18	0.77
1:AA:2455:G:H2'	1:AA:2456:C:H6	1.49	0.77
1:AA:2647:U:H2'	1:AA:2648:C:C6	2.20	0.77
1:AA:2656:U:H2'	1:AA:2657:A:H5''	1.67	0.77
1:AA:2667:C:H2'	1:AA:2668:G:O4'	1.85	0.77
1:AA:2777:G:H4'	1:AA:2778:A:H5'	1.66	0.77
1:AA:2822:G:OP2	13:AO:4:LEU:HD11	1.84	0.77
1:AA:5:A:C6	1:AA:2898:U:O4	2.35	0.77
1:AA:41:C:O2'	1:AA:43:G:H5'	1.84	0.77
1:AA:494:G:H5'	18:AT:7:ALA:HA	1.66	0.77
1:AA:716:A:N3	48:BS:44:LYS:HD3	1.99	0.77
1:AA:847:U:N3	1:AA:933:A:H2	1.82	0.77
1:AA:866:A:N3	1:AA:866:A:H2'	1.98	0.77
1:AA:2176:A:C4	3:AC:44:HIS:HD2	2.02	0.77
4:AD:34:VAL:HG23	4:AD:36:PRO:HD2	1.65	0.77
5:AE:154:LYS:HD2	5:AE:154:LYS:C	2.05	0.77
5:AE:58:ARG:HG2	5:AE:63:LEU:HD23	1.66	0.77
7:AG:120:LEU:HD22	7:AG:181:ARG:HG2	1.67	0.77
7:AG:167:GLU:O	7:AG:170:ARG:HB3	1.85	0.77
8:AH:98:LEU:HG	8:AH:123:PHE:CB	2.11	0.77
9:AK:36:GLY:O	9:AK:47:ALA:HB3	1.84	0.77
10:AL:99:PHE:O	10:AL:118:ALA:HB1	1.85	0.77
11:AM:75:ILE:HG22	11:AM:115:LEU:CD1	2.14	0.77
12:AN:118:LEU:CD1	12:AN:131:ILE:HG21	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:12:ARG:NH1	13:AO:16:HIS:HB3	1.99	0.77
15:AQ:4:GLY:O	15:AQ:8:LYS:HG3	1.85	0.77
17:AS:6:LYS:HB3	17:AS:10:LYS:CA	2.11	0.77
21:AW:43:GLU:O	21:AW:47:VAL:HG23	1.84	0.77
24:AZ:26:LEU:CB	24:AZ:28:LEU:HD21	2.15	0.77
34:BA:1237:C:O2'	34:BA:1300:G:N2	2.17	0.77
34:BA:1309:G:N2	34:BA:1328:C:N3	2.30	0.77
34:BA:1376:U:H2'	34:BA:1377:A:C8	2.18	0.77
34:BA:529:G:H8	34:BA:529:G:H3'	1.48	0.77
34:BA:544:G:H2'	34:BA:545:C:C6	2.20	0.77
34:BA:562:C:H5''	34:BA:563:A:OP1	1.85	0.77
34:BA:789:U:C2	34:BA:791:G:OP2	2.38	0.77
56:BD:74:C:O2'	56:BD:75:C:OP1	2.03	0.77
34:BA:737:A:OP1	39:BJ:91:VAL:HA	1.84	0.77
40:BK:88:PRO:HG2	40:BK:152:ALA:HB2	1.67	0.77
51:BV:61:LYS:O	51:BV:65:ILE:HG12	1.85	0.77
57:BZ:127:ILE:CA	57:BZ:164:TYR:HA	2.11	0.77
31:AI:97:ALA:CB	31:AI:132:ASP:O	2.32	0.77
57:BZ:300:LEU:HB2	57:BZ:301:SER:CA	2.14	0.77
1:AA:1000:A:H2'	1:AA:1001:A:O4'	1.85	0.77
1:AA:1388:G:H2'	1:AA:1389:G:H8	1.48	0.77
1:AA:1882:C:N3	1:AA:1883:G:H1'	1.98	0.77
1:AA:1941:C:O2	1:AA:1941:C:H2'	1.83	0.77
1:AA:2055:C:H4'	1:AA:2056:G:C5'	2.15	0.77
1:AA:2072:G:C6	1:AA:2073:C:N4	2.53	0.77
1:AA:2124:G:N3	3:AC:216:THR:N	2.12	0.77
1:AA:2252:G:N7	59:AA:3003:8AN:N6	2.31	0.77
1:AA:2305:A:C2'	7:AG:154:GLY:HA2	2.15	0.77
1:AA:2638:G:N7	1:AA:2775:A:C6	2.53	0.77
1:AA:265:A:C8	1:AA:265:A:C3'	2.56	0.77
1:AA:323:G:H2'	6:AF:170:LEU:CB	2.13	0.77
1:AA:519:U:H5'	1:AA:519:U:C6	2.16	0.77
1:AA:668:G:H2'	1:AA:670:A:H62	1.49	0.77
1:AA:892:G:H2'	1:AA:893:C:C6	2.18	0.77
1:AA:946:G:H1	1:AA:972:G:H21	1.33	0.77
5:AE:114:ALA:CB	5:AE:118:LYS:HB2	2.14	0.77
6:AF:89:VAL:CG1	6:AF:90:PHE:N	2.45	0.77
7:AG:163:ALA:HB1	7:AG:169:ALA:CA	2.11	0.77
32:AJ:12:LEU:CD2	32:AJ:57:ILE:HG21	2.15	0.77
10:AL:6:THR:HA	10:AL:7:TYR:CD1	2.19	0.77
11:AM:15:ARG:CZ	11:AM:16:ARG:H	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:43:THR:HG23	12:AN:46:GLN:CB	2.14	0.77
12:AN:23:GLY:N	12:AN:99:PRO:HG3	1.99	0.77
13:AO:36:THR:HB	13:AO:40:LYS:HD3	1.66	0.77
17:AS:6:LYS:HD3	17:AS:10:LYS:CG	2.13	0.77
12:AN:137:TYR:CE2	21:AW:124:ILE:CD1	2.68	0.77
22:AX:32:ARG:O	22:AX:35:ASN:HB2	1.84	0.77
34:BA:124:G:H2'	34:BA:125:U:O4'	1.85	0.77
34:BA:1262:C:H2'	34:BA:1263:C:C6	2.19	0.77
34:BA:339:C:H2'	34:BA:340:U:H6	1.48	0.77
34:BA:498:A:H4'	34:BA:500:G:OP1	1.85	0.77
34:BA:768:A:O5'	34:BA:768:A:H8	1.67	0.77
34:BA:960:U:N3	34:BA:1225:A:N7	2.33	0.77
56:BE:16:U:C4	56:BE:59:U:O2	2.38	0.77
36:BG:31:HIS:ND1	36:BG:34:LEU:HD13	1.99	0.77
38:BI:100:VAL:CG1	38:BI:107:ARG:HG3	2.14	0.77
34:BA:10:A:OP2	38:BI:126:ARG:HD2	1.83	0.77
39:BJ:22:GLU:OE2	39:BJ:82:ARG:HD2	1.85	0.77
41:BL:45:ILE:HD12	41:BL:48:TYR:HB3	1.67	0.77
42:BM:16:ARG:HG2	42:BM:18:PHE:CZ	2.20	0.77
45:BP:85:ILE:O	45:BP:85:ILE:HG23	1.84	0.77
48:BS:49:ASP:OD2	48:BS:52:SER:HB2	1.84	0.77
48:BS:6:GLU:N	48:BS:6:GLU:OE2	2.16	0.77
34:BA:1014:A:C1'	52:BW:34:TRP:HH2	1.81	0.77
53:BX:29:LYS:O	53:BX:32:ALA:HB3	1.84	0.77
57:BZ:27:GLN:H	57:BZ:28:GLN:CA	1.98	0.77
57:BZ:22:VAL:CG1	57:BZ:56:ILE:HG12	2.12	0.77
1:AA:1222:C:N4	1:AA:1227:A:H61	1.78	0.77
1:AA:1602:U:OP2	1:AA:1602:U:N3	2.18	0.77
1:AA:740:U:C1'	1:AA:1784:A:N7	2.48	0.77
1:AA:2057:A:H2'	1:AA:2058:A:H8	1.50	0.77
1:AA:2121:G:H1'	3:AC:167:LYS:NZ	2.00	0.77
1:AA:2517:C:C4	1:AA:2542:A:N7	2.53	0.77
1:AA:2551:C:H2'	1:AA:2552:U:C6	2.20	0.77
1:AA:2793:G:C6	1:AA:2794:C:C4	2.73	0.77
1:AA:388:G:C2'	1:AA:390:A:N7	2.48	0.77
1:AA:663:G:C4'	11:AM:18:ARG:HE	1.98	0.77
3:AC:22:ILE:HD13	3:AC:190:ARG:HH22	1.50	0.77
4:AD:18:VAL:C	4:AD:20:ASP:H	1.86	0.77
4:AD:234:GLY:H	4:AD:241:PRO:CG	1.98	0.77
4:AD:8:PRO:HD2	4:AD:26:LYS:C	2.04	0.77
5:AE:7:VAL:HG22	5:AE:192:ASN:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:8:LYS:HE3	15:AQ:2:ASN:OD1	1.85	0.77
32:AJ:23:VAL:CG1	32:AJ:37:PHE:CD1	2.68	0.77
10:AL:23:ARG:HH11	10:AL:23:ARG:CB	1.95	0.77
1:AA:623:G:H8	11:AM:105:LEU:HB2	1.48	0.77
1:AA:2415:G:OP1	11:AM:61:ARG:NH2	2.17	0.77
15:AQ:7:ILE:O	15:AQ:11:GLU:OE1	2.02	0.77
17:AS:5:VAL:HG11	17:AS:37:VAL:CG1	2.15	0.77
20:AV:46:LYS:HG3	20:AV:58:GLY:H	1.49	0.77
21:AW:55:HIS:HB2	21:AW:101:PRO:HG3	1.67	0.77
21:AW:103:ARG:HA	21:AW:103:ARG:HE	1.48	0.77
21:AW:20:ARG:HB2	21:AW:20:ARG:CZ	2.15	0.77
22:AX:21:LEU:HD13	22:AX:41:ARG:HG2	1.67	0.77
34:BA:1126:U:H1'	34:BA:1280:A:C6	2.20	0.77
34:BA:1164:G:C2'	34:BA:1165:C:H5'	2.14	0.77
34:BA:1314:C:H2'	34:BA:1315:U:C5	2.20	0.77
34:BA:1437:C:H2'	34:BA:1438:G:H8	1.50	0.77
15:AQ:112:ARG:NH2	34:BA:1464:G:P	2.57	0.77
34:BA:1494:G:O6	58:BA:1601:NMY:H12	1.84	0.77
34:BA:367:U:H4'	34:BA:368:U:OP1	1.85	0.77
34:BA:397:A:O2'	34:BA:398:C:H3'	1.84	0.77
34:BA:522:C:N4	34:BA:523:A:N6	2.33	0.77
34:BA:620:C:N1	37:BH:135:LEU:HD13	2.00	0.77
34:BA:640:A:H2'	34:BA:641:U:O4'	1.85	0.77
34:BA:687:A:N6	34:BA:703:G:H1'	2.00	0.77
36:BG:131:ARG:HG3	36:BG:166:GLU:OE2	1.85	0.77
36:BG:172:ARG:HH22	36:BG:174:PRO:HG3	1.49	0.77
41:BL:123:GLU:CD	41:BL:124:ALA:N	2.38	0.77
34:BA:1129:C:P	42:BM:16:ARG:NH2	2.55	0.77
43:BN:8:LEU:CD1	43:BN:16:LEU:HD13	2.15	0.77
43:BN:7:LYS:HG3	43:BN:71:LEU:CD1	2.15	0.77
44:BO:78:GLN:HB2	44:BO:103:LEU:O	1.85	0.77
51:BV:37:VAL:HG12	51:BV:41:LYS:NZ	2.00	0.77
57:BZ:389:PHE:CG	57:BZ:396:LYS:HG2	2.20	0.77
57:BZ:509:LYS:HZ2	57:BZ:561:ILE:CD1	1.76	0.77
55:BC:29:G:H2'	55:BC:30:G:C8	2.19	0.77
1:AA:1037:G:O6	1:AA:1119:C:N4	2.18	0.76
1:AA:1264:G:C3'	1:AA:1265:A:H5''	2.14	0.76
1:AA:1634:A:O2'	1:AA:1635:G:OP1	2.02	0.76
1:AA:190:A:H2'	1:AA:191:A:H8	1.48	0.76
1:AA:1944:U:C1'	1:AA:1955:U:H6	1.98	0.76
1:AA:2176:A:O2'	3:AC:213:TYR:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2238:G:H1'	1:AA:2240:C:H5	1.48	0.76
1:AA:2595:G:H1'	1:AA:2599:G:N2	2.00	0.76
1:AA:2023:G:H5''	1:AA:2617:C:O2'	1.84	0.76
1:AA:2666:C:C5	1:AA:2667:C:C6	2.73	0.76
1:AA:2749:A:H4'	8:AH:62:LYS:CG	2.14	0.76
1:AA:2864:G:H2'	1:AA:2865:U:C5	2.20	0.76
1:AA:292:C:H3'	1:AA:293:U:C4	2.20	0.76
1:AA:723:G:O2'	1:AA:724:U:H5'	1.85	0.76
1:AA:727:A:N3	1:AA:728:G:H5'	2.00	0.76
3:AC:59:ARG:HG3	3:AC:60:GLY:H	1.48	0.76
3:AC:66:HIS:ND1	3:AC:67:GLY:N	2.34	0.76
4:AD:145:VAL:O	4:AD:155:LEU:HB3	1.84	0.76
1:AA:1790:C:O2'	4:AD:209:ALA:HB3	1.83	0.76
4:AD:63:ARG:HG3	4:AD:64:ILE:N	2.00	0.76
5:AE:32:PRO:CB	5:AE:35:GLN:HE22	1.98	0.76
6:AF:104:LYS:O	6:AF:108:LYS:HE3	1.85	0.76
32:AJ:12:LEU:CG	32:AJ:57:ILE:CG2	2.62	0.76
32:AJ:53:VAL:HG22	32:AJ:71:THR:C	2.04	0.76
9:AK:17:ASP:HB3	9:AK:21:LYS:NZ	2.01	0.76
11:AM:38:GLN:O	11:AM:40:SER:N	2.18	0.76
15:AQ:85:LYS:HZ2	15:AQ:85:LYS:HB3	1.50	0.76
16:AR:13:LYS:HA	16:AR:16:LYS:NZ	2.01	0.76
16:AR:79:PHE:CZ	16:AR:83:LEU:HD11	2.19	0.76
17:AS:25:LEU:HD23	17:AS:29:PRO:HD3	1.66	0.76
22:AX:37:LEU:N	22:AX:37:LEU:HD23	1.99	0.76
34:BA:1005:A:H5''	34:BA:1006:C:H5	1.48	0.76
34:BA:1158:C:N4	34:BA:1160:G:H1'	2.00	0.76
34:BA:1267:C:O2	34:BA:1267:C:H2'	1.84	0.76
34:BA:392:G:H5'	49:BT:12:LYS:NZ	1.99	0.76
34:BA:66:G:H5'	34:BA:173:U:O4	1.86	0.76
34:BA:714:G:H1'	34:BA:777:A:N7	2.00	0.76
34:BA:1230:C:H5'	56:BE:30:G:OP1	1.85	0.76
36:BG:34:LEU:HD23	36:BG:35:GLU:N	1.98	0.76
36:BG:50:ALA:O	36:BG:72:LYS:HD2	1.84	0.76
37:BH:83:SER:HA	37:BH:89:THR:OG1	1.85	0.76
38:BI:59:GLY:O	38:BI:62:ALA:HB3	1.84	0.76
41:BL:107:LEU:H	41:BL:107:LEU:HD23	1.50	0.76
41:BL:110:ALA:HA	41:BL:136:GLU:HB2	1.66	0.76
43:BN:24:VAL:HG21	43:BN:37:PRO:HD3	1.68	0.76
46:BQ:36:LYS:HZ2	46:BQ:59:TYR:HB3	1.47	0.76
34:BA:277:C:H5''	50:BU:68:ARG:HH12	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:38:SER:HB3	52:BW:71:LEU:CD1	2.15	0.76
57:BZ:253:LYS:HB2	57:BZ:262:ARG:HG3	1.65	0.76
57:BZ:374:ARG:HD3	57:BZ:583:THR:H	1.49	0.76
57:BZ:87:ARG:NH2	57:BZ:211:GLN:N	2.33	0.76
31:AI:26:LEU:HA	31:AI:84:GLU:HA	1.67	0.76
1:AA:1509:C:OP1	1:AA:1510:A:H8	1.66	0.76
1:AA:1059:G:H21	32:AJ:130:SER:CB	1.90	0.76
1:AA:1430:C:H2'	1:AA:1431:U:H6	1.50	0.76
1:AA:1602:U:H2'	1:AA:1603:A:O5'	1.85	0.76
1:AA:1682:G:OP2	1:AA:1699:G:N2	2.18	0.76
1:AA:1835:G:H2'	1:AA:1836:C:H5'	1.67	0.76
1:AA:2286:A:C4'	1:AA:2287:A:H1'	2.14	0.76
1:AA:2333:A:H4'	1:AA:2335:A:O4'	1.85	0.76
1:AA:2296:U:C1'	1:AA:2335:A:H61	1.97	0.76
1:AA:2404:C:H2'	1:AA:2405:G:C8	2.21	0.76
1:AA:243:U:H2'	1:AA:243:U:O2	1.84	0.76
1:AA:2513:G:H2'	1:AA:2514:U:C6	2.19	0.76
1:AA:2582:G:H5'	1:AA:2582:G:C8	2.20	0.76
1:AA:2792:G:H1'	1:AA:2805:G:C2	2.20	0.76
1:AA:2805:G:H3'	1:AA:2807:G:C5'	2.14	0.76
1:AA:2888:C:H2'	1:AA:2889:C:H6	1.50	0.76
1:AA:460:A:H2'	1:AA:461:C:H6	1.50	0.76
1:AA:499:U:C5	1:AA:500:G:N3	2.53	0.76
1:AA:580:C:H2'	1:AA:581:C:H6	1.50	0.76
1:AA:755:C:H2'	1:AA:756:C:H6	1.50	0.76
3:AC:123:VAL:HG11	3:AC:138:PRO:HG2	1.66	0.76
4:AD:37:LEU:HD11	4:AD:63:ARG:CA	2.15	0.76
4:AD:56:GLY:H	4:AD:217:ARG:CD	1.96	0.76
8:AH:45:VAL:HG13	8:AH:50:VAL:HG22	1.67	0.76
10:AL:16:ALA:O	10:AL:18:LYS:N	2.18	0.76
13:AO:97:VAL:HG22	13:AO:114:VAL:HG11	1.65	0.76
13:AO:54:LEU:HD12	13:AO:54:LEU:N	2.01	0.76
15:AQ:27:THR:O	15:AQ:52:ILE:HB	1.84	0.76
10:AL:122:LEU:CG	15:AQ:71:GLY:HA3	2.15	0.76
16:AR:97:ASP:CA	16:AR:101:ARG:HH21	1.99	0.76
16:AR:88:ILE:HG12	17:AS:52:VAL:HG13	1.67	0.76
21:AW:31:ARG:N	21:AW:89:PHE:HE2	1.82	0.76
21:AW:94:GLU:N	21:AW:95:PRO:CD	2.46	0.76
23:AY:45:ILE:HG13	23:AY:46:ARG:N	1.99	0.76
34:BA:1117:G:C5	34:BA:1184:G:C2	2.73	0.76
34:BA:1415:G:N1	34:BA:1486:G:C5	2.53	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:198:G:C8	34:BA:198:G:OP2	2.38	0.76
34:BA:225:C:O2'	34:BA:226:G:H5'	1.85	0.76
34:BA:283:C:O2	34:BA:283:C:H2'	1.85	0.76
34:BA:342:C:H2'	34:BA:343:U:C6	2.21	0.76
34:BA:371:G:C2'	34:BA:372:C:C5'	2.63	0.76
34:BA:766:A:H2'	34:BA:767:A:C8	2.20	0.76
56:BE:21:A:C4	56:BE:46:G:C6	2.73	0.76
35:BF:213:LEU:O	35:BF:217:ARG:HD3	1.85	0.76
36:BG:142:MET:HB3	36:BG:170:GLN:NE2	2.00	0.76
39:BJ:41:GLU:HB3	39:BJ:62:TRP:HE3	1.50	0.76
39:BJ:76:ALA:HA	39:BJ:79:LEU:CD1	2.15	0.76
44:BO:22:HIS:HB2	44:BO:85:ARG:HB2	1.66	0.76
46:BQ:80:ARG:HB3	52:BW:65:ASN:ND2	1.99	0.76
53:BX:72:LEU:HD13	53:BX:77:ALA:CB	2.15	0.76
57:BZ:250:LYS:C	57:BZ:273:ILE:CD1	2.52	0.76
57:BZ:69:ARG:CG	57:BZ:71:ASN:HB2	2.14	0.76
57:BZ:82:GLY:HA3	57:BZ:361:ARG:CB	2.13	0.76
57:BZ:502:PHE:HE2	57:BZ:555:VAL:CA	1.97	0.76
1:AA:1123:C:H2'	1:AA:1124:C:C6	2.20	0.76
1:AA:1205:U:C2'	1:AA:1206:G:N7	2.47	0.76
1:AA:2135:A:N7	1:AA:2160:G:H1'	1.99	0.76
1:AA:2181:G:N9	1:AA:2182:G:O6	2.19	0.76
1:AA:197:A:H61	1:AA:248:G:H22	1.30	0.76
1:AA:2553:G:N2	1:AA:2554:U:HO2'	1.83	0.76
1:AA:2652:C:N3	1:AA:2670:A:C1'	2.49	0.76
1:AA:2808:U:O2	1:AA:2810:A:N7	2.18	0.76
1:AA:548:A:N6	1:AA:549:G:H21	1.83	0.76
1:AA:635:C:O2'	1:AA:636:G:H5'	1.85	0.76
3:AC:183:GLU:O	3:AC:186:ALA:HB3	1.86	0.76
4:AD:199:ALA:O	4:AD:202:LYS:HB2	1.84	0.76
5:AE:92:THR:C	5:AE:94:GLU:H	1.88	0.76
8:AH:175:LYS:CG	8:AH:176:ALA:N	2.48	0.76
8:AH:69:ARG:HB2	8:AH:69:ARG:CZ	2.16	0.76
9:AK:97:ARG:O	9:AK:100:GLU:HB2	1.85	0.76
10:AL:24:VAL:CG2	10:AL:30:ALA:HA	2.15	0.76
12:AN:109:VAL:HG22	12:AN:113:GLN:HB2	1.68	0.76
18:AT:25:ARG:HA	18:AT:71:VAL:HG11	1.67	0.76
2:AB:75:G:H4'	21:AW:36:LYS:CE	2.15	0.76
24:AZ:54:VAL:CG2	24:AZ:55:ARG:H	1.97	0.76
34:BA:1116:C:N3	34:BA:1184:G:C6	2.53	0.76
34:BA:1310:G:C5	34:BA:1327:C:N3	2.52	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:148:G:H1	34:BA:174:C:H42	1.32	0.76
34:BA:67:C:H5'	34:BA:172:A:O2'	1.84	0.76
34:BA:486:U:H2'	34:BA:487:A:O5'	1.84	0.76
34:BA:519:C:H2'	34:BA:520:A:H5'	1.67	0.76
34:BA:578:C:N4	34:BA:579:G:O6	2.19	0.76
42:BM:127:LYS:HD2	56:BE:30:G:O3'	1.85	0.76
56:BE:1:G:C4'	56:BE:71:G:H22	1.94	0.76
35:BF:32:ILE:HD11	35:BF:40:HIS:HD2	1.50	0.76
36:BG:11:ARG:HH22	36:BG:179:ARG:H	1.30	0.76
37:BH:203:VAL:O	37:BH:206:PHE:HB3	1.85	0.76
39:BJ:11:ASN:HD22	39:BJ:86:ARG:NH2	1.83	0.76
40:BK:51:GLN:HE22	40:BK:58:PRO:HG3	1.48	0.76
44:BO:42:TRP:HE3	44:BO:43:SER:HA	1.48	0.76
44:BO:87:THR:HG22	44:BO:91:ARG:HH12	1.50	0.76
46:BQ:19:LEU:O	46:BQ:25:ILE:CG2	2.34	0.76
49:BT:35:LYS:HD2	49:BT:36:ILE:N	2.00	0.76
49:BT:19:ILE:HG13	49:BT:38:TYR:HA	1.66	0.76
34:BA:586:C:OP1	50:BU:34:LYS:NZ	2.18	0.76
50:BU:5:VAL:CG1	50:BU:59:ILE:O	2.31	0.76
51:BV:37:VAL:HG12	51:BV:41:LYS:CE	2.14	0.76
51:BV:74:ARG:HA	51:BV:79:LEU:HD11	1.65	0.76
53:BX:54:LYS:O	53:BX:57:ARG:HB2	1.84	0.76
57:BZ:130:VAL:HG22	57:BZ:165:ALA:O	1.84	0.76
57:BZ:399:PRO:HG2	57:BZ:468:THR:O	1.85	0.76
57:BZ:398:GLU:CA	57:BZ:472:TYR:CD1	2.68	0.76
57:BZ:565:LEU:CB	57:BZ:566:GLU:OE2	2.31	0.76
1:AA:1766:U:O2'	1:AA:1767:C:H5'	1.86	0.76
1:AA:1886:C:H2'	1:AA:1887:C:H6	1.50	0.76
1:AA:109:G:N2	1:AA:110:G:H1'	2.01	0.76
1:AA:1203:G:C6	1:AA:1240:U:O2	2.35	0.76
1:AA:1270:C:H4'	1:AA:1271:G:H5''	1.68	0.76
1:AA:1313:U:H2'	1:AA:1314:C:C6	2.20	0.76
1:AA:1342:A:H2'	1:AA:1345:C:N4	1.99	0.76
1:AA:1420:U:H1'	1:AA:1421:G:N7	2.00	0.76
1:AA:1559:G:C2	1:AA:1560:G:H4'	2.20	0.76
1:AA:1655:A:H2'	1:AA:1656:C:C6	2.20	0.76
1:AA:2649:U:O2'	1:AA:2650:U:H5'	1.86	0.76
1:AA:2756:U:C4	1:AA:2758:A:N6	2.54	0.76
1:AA:311:A:N6	1:AA:329:G:H5'	2.00	0.76
1:AA:324:A:N6	1:AA:339:U:H1'	2.00	0.76
1:AA:456:C:H5	19:AU:68:ARG:HH12	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:901:A:N1	1:AA:902:C:C2	2.53	0.76
3:AC:97:GLU:CG	3:AC:119:VAL:HB	2.14	0.76
5:AE:179:GLU:HB2	5:AE:181:LEU:CD1	2.15	0.76
5:AE:102:VAL:HA	5:AE:202:LYS:NZ	2.01	0.76
32:AJ:12:LEU:CG	32:AJ:57:ILE:HG23	2.16	0.76
10:AL:11:ALA:N	10:AL:17:ARG:HG3	2.01	0.76
11:AM:114:ILE:O	11:AM:114:ILE:HG22	1.84	0.76
12:AN:134:ARG:HE	12:AN:137:TYR:CA	1.96	0.76
21:AW:71:VAL:HA	21:AW:87:ASP:O	1.86	0.76
22:AX:41:ARG:HB3	22:AX:41:ARG:NH1	2.01	0.76
34:BA:1125:U:H5'	43:BN:38:ILE:HG21	1.67	0.76
34:BA:1196:U:H5'	34:BA:1197:G:C5'	2.15	0.76
34:BA:1269:A:O4'	34:BA:1312:G:N2	2.17	0.76
34:BA:570:G:C2	34:BA:873:A:N1	2.53	0.76
56:BD:74:C:H1'	56:BD:75:C:P	2.26	0.76
56:BE:19:G:C2	56:BE:57:G:N2	2.54	0.76
56:BE:2:C:C2'	56:BE:70:G:H22	1.94	0.76
35:BF:147:LYS:HE2	35:BF:147:LYS:HA	1.65	0.76
36:BG:150:LYS:HA	36:BG:169:ALA:CB	2.15	0.76
36:BG:22:TRP:CB	36:BG:59:ARG:HB3	2.16	0.76
36:BG:38:ARG:CB	36:BG:94:LEU:HD11	2.15	0.76
42:BM:108:VAL:O	42:BM:110:GLU:N	2.18	0.76
44:BO:20:TYR:CE2	44:BO:83:ILE:HG12	2.19	0.76
45:BP:56:ALA:HB2	45:BP:70:ILE:CG1	2.16	0.76
45:BP:32:PHE:CB	45:BP:84:LEU:HD21	2.15	0.76
49:BT:6:LEU:HB2	49:BT:17:TYR:HB3	1.68	0.76
50:BU:63:ARG:HG2	50:BU:64:PRO:HD2	1.67	0.76
57:BZ:13:HIS:CD2	57:BZ:109:THR:HG23	2.17	0.76
57:BZ:27:GLN:OE1	57:BZ:183:MET:HB3	1.84	0.76
57:BZ:495:LYS:O	57:BZ:538:LEU:HD13	1.85	0.76
49:BT:44:THR:CG2	49:BT:45:THR:H	1.90	0.76
37:BH:43:HIS:HB3	37:BH:46:LYS:CG	2.15	0.76
1:AA:1483:G:H1'	1:AA:1507:A:C2	2.20	0.76
1:AA:1368:G:O2'	1:AA:1369:G:H5'	1.83	0.76
1:AA:1541:U:H5''	1:AA:1542:G:OP2	1.86	0.76
1:AA:1728:G:OP1	1:AA:1728:G:H3'	1.86	0.76
1:AA:1967:C:H42	1:AA:1968:G:H21	1.29	0.76
1:AA:2063:C:OP2	1:AA:2064:C:OP2	2.04	0.76
1:AA:247:G:H4'	1:AA:386:G:C2	2.21	0.76
1:AA:2668:G:C2	1:AA:2669:G:C6	2.73	0.76
1:AA:2718:G:H2'	1:AA:2719:G:H8	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:500:G:H2'	1:AA:501:A:H5''	1.67	0.76
1:AA:558:G:C2	1:AA:559:G:N7	2.54	0.76
1:AA:730:C:H2'	1:AA:731:C:C6	2.20	0.76
1:AA:918:A:C8	2:AB:80:U:H4'	2.21	0.76
1:AA:847:U:O2	1:AA:934:G:N3	2.19	0.76
1:AA:942:G:C3'	11:AM:32:THR:HG22	2.15	0.76
3:AC:156:ILE:C	3:AC:159:GLY:N	2.39	0.76
3:AC:171:ILE:HD12	3:AC:192:PHE:CZ	1.89	0.76
3:AC:21:THR:HG22	3:AC:225:ASN:ND2	2.00	0.76
4:AD:175:LEU:C	4:AD:175:LEU:HD13	2.06	0.76
8:AH:128:PRO:O	8:AH:131:VAL:HB	1.85	0.76
32:AJ:112:MET:HE1	32:AJ:119:ASP:HB3	1.68	0.76
9:AK:22:THR:HG23	9:AK:25:ARG:NH1	2.01	0.76
10:AL:2:ILE:HD13	10:AL:31:LYS:O	1.86	0.76
11:AM:72:PRO:HG3	11:AM:110:TYR:CE2	2.18	0.76
12:AN:99:PRO:HG2	12:AN:101:ARG:HE	1.49	0.76
13:AO:98:LEU:HD23	13:AO:99:LYS:HZ1	1.51	0.76
1:AA:2334:G:O2'	14:AP:15:ARG:HG3	1.84	0.76
14:AP:64:GLU:OE2	14:AP:67:ARG:HB3	1.85	0.76
14:AP:92:TYR:CG	14:AP:93:LYS:N	2.53	0.76
15:AQ:26:ASP:HA	15:AQ:100:TYR:CZ	2.20	0.76
17:AS:40:LEU:CD1	17:AS:55:ALA:HA	2.15	0.76
20:AV:12:THR:HG21	20:AV:71:LYS:CA	2.14	0.76
21:AW:17:ALA:HA	21:AW:20:ARG:NH2	2.01	0.76
22:AX:19:LYS:NZ	22:AX:41:ARG:HE	1.81	0.76
34:BA:1192:C:C5	34:BA:1193:G:C8	2.74	0.76
34:BA:1318:A:H2'	52:BW:37:ARG:H	1.48	0.76
15:AQ:112:ARG:NH2	34:BA:1465:C:P	2.58	0.76
34:BA:331:G:OP1	34:BA:332:G:H8	1.67	0.76
34:BA:448:A:H2'	34:BA:449:C:C6	2.21	0.76
34:BA:828:A:O4'	34:BA:859:A:C2	2.39	0.76
34:BA:759:A:H4'	34:BA:881:G:OP1	1.84	0.76
56:BE:5:G:H1'	56:BE:7:A:C5'	2.15	0.76
56:BE:6:G:C5	56:BE:69:G:N2	2.54	0.76
35:BF:130:ARG:HD3	35:BF:131:PRO:HD3	1.66	0.76
36:BG:36:ASP:HA	36:BG:39:ILE:HD12	1.66	0.76
37:BH:144:ASP:HA	37:BH:184:LYS:NZ	2.00	0.76
38:BI:81:GLU:HA	38:BI:90:VAL:HG22	1.67	0.76
40:BK:40:ALA:O	40:BK:43:PHE:HB3	1.86	0.76
41:BL:4:ASP:HB2	41:BL:6:ILE:HG22	1.67	0.76
42:BM:16:ARG:HE	42:BM:18:PHE:HZ	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:113:ARG:NH2	45:BP:115:LYS:O	2.18	0.76
49:BT:31:LYS:HB3	49:BT:31:LYS:HZ3	1.50	0.76
49:BT:49:LEU:HD22	49:BT:73:LEU:HD21	1.67	0.76
50:BU:21:VAL:HG23	50:BU:42:TYR:O	1.85	0.76
34:BA:1014:A:C1'	52:BW:34:TRP:HZ3	1.99	0.76
57:BZ:137:PRO:HB2	57:BZ:164:TYR:CE2	2.20	0.76
57:BZ:512:LEU:HD21	57:BZ:524:ILE:HG22	1.66	0.76
1:AA:1418:G:H1'	1:AA:1579:A:H61	1.49	0.76
38:BI:153:LYS:HG2	38:BI:154:GLY:H	1.48	0.76
1:AA:1007:C:H2'	1:AA:1008:C:C5	2.21	0.76
1:AA:1403:C:O3'	1:AA:1471:A:H4'	1.86	0.76
1:AA:1615:C:C2	18:AT:87:PRO:HG3	2.19	0.76
1:AA:1681:G:C2	1:AA:1762:A:N7	2.54	0.76
1:AA:1791:A:H3'	1:AA:1792:G:C8	2.20	0.76
1:AA:1961:C:H5'	34:BA:1484:C:C4'	2.14	0.76
1:AA:2053:G:O2'	1:AA:2054:A:H5'	1.85	0.76
1:AA:2508:G:O2'	1:AA:2509:G:H5'	1.86	0.76
1:AA:2748:A:O2'	8:AH:66:GLY:HA3	1.85	0.76
1:AA:388:G:H1'	1:AA:390:A:N6	2.00	0.76
1:AA:624:C:H5'	1:AA:625:G:OP2	1.86	0.76
1:AA:673:C:C2'	1:AA:674:G:H5'	2.15	0.76
1:AA:60:G:H21	1:AA:74:A:C4'	1.99	0.76
1:AA:961:C:O2'	1:AA:962:G:OP1	2.01	0.76
1:AA:980:A:H2	1:AA:2038:G:O4'	1.69	0.76
5:AE:59:VAL:O	5:AE:63:LEU:HG	1.85	0.76
6:AF:131:GLY:CA	6:AF:138:GLU:HG3	2.15	0.76
7:AG:67:LYS:O	7:AG:67:LYS:HG3	1.84	0.76
8:AH:106:THR:HG23	8:AH:111:HIS:HB3	1.68	0.76
8:AH:74:ASN:HB2	8:AH:138:LYS:NZ	1.99	0.76
8:AH:87:LEU:HD23	8:AH:88:LEU:N	2.00	0.76
9:AK:58:ASP:O	9:AK:60:ILE:HG13	1.86	0.76
10:AL:92:GLU:OE1	10:AL:113:LYS:HB3	1.86	0.76
10:AL:62:VAL:O	10:AL:82:ASN:O	2.03	0.76
10:AL:64:ARG:HG3	10:AL:65:THR:N	2.01	0.76
10:AL:7:TYR:HB3	10:AL:18:LYS:CE	2.15	0.76
12:AN:43:THR:HG23	12:AN:46:GLN:HB2	1.68	0.76
14:AP:7:TYR:HB3	14:AP:11:LYS:NZ	2.01	0.76
15:AQ:50:ILE:CD1	15:AQ:76:PHE:HB3	2.15	0.76
16:AR:77:SER:O	16:AR:81:HIS:HB2	1.85	0.76
16:AR:7:GLY:O	16:AR:8:VAL:C	2.24	0.76
21:AW:161:VAL:O	21:AW:162:GLU:HB2	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1128:C:H4'	42:BM:16:ARG:NH2	2.01	0.76
34:BA:1202:G:H2'	34:BA:1203:C:H6	1.50	0.76
34:BA:1449:C:N4	34:BA:1454:G:C6	2.50	0.76
34:BA:435:C:O2'	34:BA:436:C:H5'	1.86	0.76
34:BA:520:A:N7	34:BA:521:G:C8	2.54	0.76
56:BE:11:C:O2'	56:BE:12:U:H5'	1.84	0.76
35:BF:130:ARG:NE	35:BF:130:ARG:HA	1.99	0.76
35:BF:136:VAL:O	35:BF:139:LYS:HG2	1.85	0.76
35:BF:178:ARG:NH1	35:BF:178:ARG:HA	2.01	0.76
35:BF:53:ARG:HE	35:BF:199:TYR:HE2	1.34	0.76
35:BF:221:LEU:HD13	35:BF:221:LEU:C	2.06	0.76
37:BH:50:ARG:NH1	37:BH:52:SER:HA	2.01	0.76
37:BH:59:ARG:HH22	37:BH:66:ARG:HH12	1.31	0.76
37:BH:79:PHE:HB2	37:BH:93:PHE:CE1	2.21	0.76
38:BI:79:GLU:HG3	38:BI:93:PRO:HD2	1.66	0.76
40:BK:69:VAL:CG2	40:BK:135:VAL:HG22	2.15	0.76
40:BK:65:ALA:O	40:BK:69:VAL:HG23	1.85	0.76
41:BL:103:VAL:HB	41:BL:108:GLY:C	2.06	0.76
42:BM:37:PHE:HE1	42:BM:74:ILE:HG23	1.47	0.76
42:BM:45:ALA:O	42:BM:78:LYS:HB2	1.84	0.76
50:BU:28:PRO:HA	50:BU:35:VAL:HA	1.65	0.76
50:BU:10:VAL:HG12	50:BU:54:GLY:H	1.51	0.76
34:BA:1318:A:O3'	52:BW:38:SER:CA	2.11	0.76
57:BZ:89:MET:CE	57:BZ:119:TYR:CE1	2.68	0.76
57:BZ:14:VAL:H	57:BZ:108:GLN:CB	1.98	0.76
57:BZ:160:PHE:CE2	57:BZ:162:ILE:HD12	2.20	0.76
57:BZ:240:ILE:H	57:BZ:286:ASP:CB	1.99	0.76
57:BZ:307:VAL:O	57:BZ:359:SER:HA	1.85	0.76
57:BZ:18:LYS:N	60:BZ:701:GCP:PB	2.51	0.76
57:BZ:88:VAL:O	57:BZ:92:VAL:HG22	1.86	0.76
57:BZ:502:PHE:CD2	57:BZ:555:VAL:CG1	2.68	0.76
31:AI:116:ILE:O	31:AI:123:GLU:N	2.13	0.76
1:AA:1024:G:H22	1:AA:1139:G:H1	1.32	0.76
1:AA:1166:C:C2	1:AA:1184:G:N2	2.54	0.76
1:AA:1203:G:H1	1:AA:1241:A:H1'	1.50	0.76
1:AA:1258:C:C5'	6:AF:84:VAL:HG21	2.14	0.76
1:AA:1746:G:OP2	1:AA:1746:G:H3'	1.85	0.76
1:AA:752:A:H62	1:AA:1781:C:C1'	1.98	0.76
1:AA:1935:G:H2'	1:AA:1962:C:N4	2.00	0.76
1:AA:1935:G:C3'	1:AA:1962:C:H42	1.98	0.76
1:AA:2199:A:C8	1:AA:2199:A:O5'	2.38	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2630:G:O5'	1:AA:2894:G:O3'	1.72	0.76
1:AA:2749:A:C4'	8:AH:62:LYS:HG3	2.15	0.76
1:AA:287:C:H2'	1:AA:288:C:H5	1.51	0.76
1:AA:587:C:C2	1:AA:671:C:O4'	2.39	0.76
1:AA:704:G:H21	1:AA:725:G:H21	1.29	0.76
1:AA:820:A:H2'	1:AA:821:A:C5'	2.11	0.76
3:AC:131:LEU:HB3	3:AC:136:LEU:C	2.06	0.76
4:AD:121:PRO:C	4:AD:135:PHE:HE2	1.89	0.76
4:AD:77:ALA:CB	4:AD:95:LEU:HD21	2.14	0.76
1:AA:1658:C:P	5:AE:134:ILE:HB	2.25	0.76
6:AF:201:VAL:HA	6:AF:204:ASN:ND2	2.00	0.76
7:AG:118:ARG:NH1	7:AG:118:ARG:HB3	2.01	0.76
8:AH:8:PRO:HA	8:AH:51:ARG:NH1	2.01	0.76
9:AK:12:ARG:HD2	9:AK:12:ARG:O	1.84	0.76
11:AM:120:ALA:HB1	11:AM:137:LYS:HB3	1.68	0.76
13:AO:96:ARG:CG	13:AO:98:LEU:HD11	2.15	0.76
15:AQ:103:ARG:O	15:AQ:105:LEU:N	2.19	0.76
15:AQ:80:SER:HB3	15:AQ:81:PRO:HD3	1.67	0.76
16:AR:93:LYS:H	17:AS:10:LYS:NZ	1.83	0.76
17:AS:36:PRO:N	17:AS:61:VAL:HG22	2.00	0.76
18:AT:24:ILE:HD13	18:AT:36:LEU:HD13	1.67	0.76
18:AT:82:LEU:O	18:AT:97:LYS:HA	1.85	0.76
21:AW:94:GLU:N	21:AW:95:PRO:HD3	1.97	0.76
34:BA:101:A:H2'	34:BA:102:G:C8	2.19	0.76
34:BA:1516:G:N3	34:BA:1518:A:OP2	2.18	0.76
34:BA:337:C:H2'	34:BA:338:A:C8	2.20	0.76
34:BA:482:A:C2	34:BA:483:C:O4'	2.38	0.76
34:BA:568:G:H21	34:BA:574:A:H2	1.31	0.76
34:BA:601:C:H2'	34:BA:602:A:H8	1.51	0.76
34:BA:8:A:N6	37:BH:209:ARG:HH12	1.84	0.76
36:BG:40:ARG:O	36:BG:43:LEU:HB3	1.86	0.76
36:BG:84:ILE:HG13	36:BG:101:LEU:HD13	1.66	0.76
38:BI:63:ARG:HA	38:BI:66:MET:HG2	1.68	0.76
40:BK:15:ASP:OD1	40:BK:18:TYR:HB2	1.85	0.76
40:BK:45:ASP:O	40:BK:48:LYS:HB2	1.84	0.76
40:BK:62:PHE:O	40:BK:66:VAL:HG23	1.86	0.76
42:BM:48:GLU:OE1	42:BM:48:GLU:HA	1.85	0.76
44:BO:87:THR:HG22	44:BO:91:ARG:HH22	1.51	0.76
44:BO:61:ALA:CB	44:BO:94:ALA:HB2	2.07	0.76
43:BN:49:VAL:CG1	47:BR:45:ARG:HD2	2.16	0.76
48:BS:7:GLU:HA	48:BS:10:LYS:CD	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:10:VAL:CG1	50:BU:54:GLY:H	1.99	0.76
34:BA:1318:A:N9	52:BW:37:ARG:HB2	2.00	0.76
34:BA:192:U:H1'	53:BX:103:GLY:HA2	1.66	0.76
57:BZ:230:LYS:HD2	57:BZ:230:LYS:O	1.86	0.76
57:BZ:2:ILE:HG22	57:BZ:268:ALA:HB2	1.67	0.76
57:BZ:83:GLY:O	57:BZ:84:GLU:HG3	1.86	0.76
56:BD:1:G:N2	56:BD:2:C:O2	2.19	0.76
57:BZ:40:GLU:CA	57:BZ:41:ARG:HB2	2.14	0.76
1:AA:1034:G:N1	1:AA:1122:G:C5	2.54	0.76
1:AA:1131:G:N2	9:AK:72:TYR:CE1	2.53	0.76
1:AA:1178:C:C2	1:AA:1179:C:C5	2.74	0.76
1:AA:1935:G:N1	1:AA:1962:C:H2'	2.00	0.76
1:AA:2017:U:H2'	1:AA:2018:G:OP1	1.86	0.76
1:AA:574:C:C2	1:AA:2055:C:C5	2.74	0.76
1:AA:2295:C:H1'	1:AA:2338:G:N2	2.01	0.76
1:AA:2658:C:C4	1:AA:2664:G:C2	2.73	0.76
1:AA:270(H):C:H2'	1:AA:270(I):G:H8	1.51	0.76
1:AA:2749:A:H5'	8:AH:62:LYS:O	1.85	0.76
1:AA:559:G:C8	1:AA:559:G:H5'	2.18	0.76
1:AA:747:U:O2'	1:AA:748:G:OP1	2.01	0.76
5:AE:171:GLU:OE1	5:AE:172:VAL:N	2.18	0.76
5:AE:105:THR:HG23	5:AE:197:ILE:HD13	1.68	0.76
1:AA:1067:A:H4'	32:AJ:21:PRO:HB3	1.68	0.76
32:AJ:75:SER:CB	32:AJ:130:SER:HB2	1.80	0.76
1:AA:2640:G:H4'	9:AK:75:TYR:OH	1.85	0.76
10:AL:7:TYR:HA	10:AL:18:LYS:HE3	1.67	0.76
1:AA:623:G:OP2	11:AM:105:LEU:HD21	1.85	0.76
12:AN:122:GLY:HA2	12:AN:125:LEU:CG	2.15	0.76
12:AN:26:TYR:CD1	12:AN:27:VAL:N	2.49	0.76
12:AN:67:ARG:CZ	12:AN:103:MET:CB	2.54	0.76
13:AO:55:ALA:CB	13:AO:79:LEU:HD21	2.15	0.76
14:AP:11:LYS:CD	14:AP:11:LYS:H	1.99	0.76
14:AP:13:ARG:HD3	14:AP:89:ARG:HE	1.51	0.76
16:AR:30:LYS:HD2	16:AR:30:LYS:N	2.01	0.76
18:AT:5:ALA:HB1	18:AT:50:VAL:HG12	1.68	0.76
18:AT:75:TYR:O	18:AT:104:THR:HG23	1.85	0.76
19:AU:49:VAL:HG12	19:AU:88:LYS:CG	2.16	0.76
21:AW:55:HIS:HB3	21:AW:101:PRO:CG	2.14	0.76
23:AY:36:ILE:HG12	23:AY:37:GLY:N	2.01	0.76
34:BA:1075:C:H4'	34:BA:1101:A:H62	1.50	0.76
34:BA:1247:U:H2'	34:BA:1248:A:C8	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1363:A:H5''	34:BA:1364:U:OP1	1.86	0.76
34:BA:1372:U:OP2	42:BM:11:LYS:HE2	1.85	0.76
34:BA:1405:G:H21	34:BA:1517:G:H22	0.77	0.76
34:BA:1405:G:O6	34:BA:1497:G:O6	2.04	0.76
34:BA:153:C:H2'	34:BA:154:C:H6	1.50	0.76
34:BA:355:C:N4	34:BA:356:A:H62	1.84	0.76
34:BA:49:U:N3	34:BA:364:A:N7	2.33	0.76
34:BA:599:C:H4'	41:BL:130:GLY:CA	2.08	0.76
34:BA:673:G:H2'	34:BA:674:G:C8	2.21	0.76
34:BA:687:A:O2'	34:BA:688:G:O4'	2.04	0.76
34:BA:973:G:C2	34:BA:974:A:C5	2.74	0.76
56:BE:18:G:H21	56:BE:58:A:C4'	1.98	0.76
35:BF:149:LEU:CD2	35:BF:153:ARG:HG2	2.16	0.76
35:BF:78:GLN:HE22	35:BF:96:ARG:NH1	1.84	0.76
36:BG:122:GLU:CA	36:BG:125:GLU:HG2	2.15	0.76
36:BG:190:ARG:HE	36:BG:190:ARG:CA	1.99	0.76
37:BH:154:ASN:ND2	37:BH:155:LEU:HD22	2.00	0.76
40:BK:87:VAL:HG22	40:BK:151:TYR:HB3	1.68	0.76
41:BL:123:GLU:O	41:BL:126:LYS:HG3	1.86	0.76
49:BT:8:ARG:HD3	49:BT:15:PRO:HA	1.66	0.76
50:BU:11:VAL:HB	50:BU:20:THR:OG1	1.86	0.76
50:BU:6:LEU:HD13	50:BU:23:VAL:HG21	1.67	0.76
52:BW:51:VAL:HG21	52:BW:60:VAL:HG21	1.66	0.76
56:BD:48:C:H3'	56:BD:48:C:OP1	1.85	0.76
55:BC:69:G:C3'	55:BC:70:G:H5''	2.16	0.76
1:AA:1345:C:O2'	1:AA:1346:G:H5'	1.85	0.76
1:AA:1530:G:C2'	1:AA:1531:C:C6	2.69	0.76
1:AA:1530:G:C3'	1:AA:1531:C:C6	2.68	0.76
1:AA:2496:C:H3'	1:AA:2497:A:C2	2.21	0.76
1:AA:2586:C:H2'	1:AA:2587:A:H8	1.49	0.76
1:AA:2657:A:N6	1:AA:2664:G:C2'	2.48	0.76
1:AA:2685:G:O5'	10:AL:67:LYS:HD2	1.86	0.76
1:AA:64:A:C5'	19:AU:73:ARG:HA	2.15	0.76
1:AA:861:A:H2'	1:AA:862:G:H5'	1.67	0.76
1:AA:896:A:N1	1:AA:897:C:C2	2.54	0.76
1:AA:997:G:O2'	1:AA:998:C:H5'	1.85	0.76
4:AD:136:ILE:HD12	4:AD:173:VAL:HG21	1.67	0.76
4:AD:85:ASP:HB2	4:AD:87:ASN:HD21	1.50	0.76
5:AE:2:LYS:HZ3	5:AE:83:ASP:HB2	1.50	0.76
6:AF:110:LEU:CD1	6:AF:181:LEU:HD23	2.16	0.76
7:AG:57:ALA:O	7:AG:67:LYS:HB2	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:85:LYS:HD2	8:AH:145:ALA:CB	2.16	0.76
1:AA:1059:G:H21	32:AJ:130:SER:HA	0.94	0.76
32:AJ:27:LEU:CD2	32:AJ:58:THR:CA	2.62	0.76
9:AK:26:LEU:O	9:AK:30:ILE:HG13	1.86	0.76
12:AN:25:ASP:CB	12:AN:102:VAL:HG12	2.16	0.76
12:AN:75:THR:HG21	12:AN:88:GLY:O	1.86	0.76
13:AO:98:LEU:HD23	13:AO:99:LYS:NZ	2.01	0.76
16:AR:93:LYS:HB2	17:AS:10:LYS:HD2	1.66	0.76
17:AS:16:PRO:HD3	17:AS:100:ARG:NH1	2.00	0.76
1:AA:1225:C:O4'	17:AS:87:HIS:CE1	2.39	0.76
19:AU:92:LEU:CD1	19:AU:92:LEU:H	1.99	0.76
23:AY:48:LEU:HA	23:AY:51:GLN:NE2	2.01	0.76
34:BA:1115:C:O4'	34:BA:1186:G:N2	2.19	0.76
34:BA:1259:C:O2	34:BA:1283:G:H1'	1.85	0.76
34:BA:243:A:N6	34:BA:283:C:H41	1.83	0.76
35:BF:222:ILE:HD13	35:BF:226:ARG:HH21	1.51	0.76
36:BG:3:ASN:CG	36:BG:4:LYS:H	1.89	0.76
37:BH:147:ALA:CB	37:BH:182:LYS:HA	2.16	0.76
37:BH:200:GLU:HG3	37:BH:201:GLN:N	2.01	0.76
48:BS:10:LYS:O	48:BS:13:GLN:HB2	1.85	0.76
48:BS:36:ILE:HD11	48:BS:60:VAL:HG22	1.66	0.76
48:BS:36:ILE:HG13	48:BS:59:MET:HE1	1.66	0.76
53:BX:57:ARG:NH2	53:BX:100:ILE:HB	2.01	0.76
57:BZ:64:ILE:HD12	57:BZ:187:TYR:HB3	1.67	0.76
57:BZ:213:ASP:OD1	57:BZ:223:ILE:HD11	1.85	0.76
57:BZ:236:GLN:NE2	57:BZ:245:LYS:H	1.83	0.76
57:BZ:249:ALA:HB1	57:BZ:250:LYS:HE3	1.68	0.76
1:AA:888:C:H1'	1:AA:889:C:O2	1.84	0.76
1:AA:1078:U:H5''	32:AJ:137:GLU:OE1	1.86	0.76
1:AA:1204:A:C4'	1:AA:1204:A:OP2	2.34	0.76
1:AA:1317:A:H2'	1:AA:1318:C:C6	2.21	0.76
1:AA:1427:A:H1'	1:AA:1428:C:C5	2.20	0.76
1:AA:1788:C:H2'	4:AD:222:ARG:NE	2.01	0.76
1:AA:1910:G:C2	1:AA:1911:U:N3	2.54	0.76
1:AA:2043:C:N4	1:AA:2777:G:C4	2.54	0.76
1:AA:2134:A:H2'	1:AA:2135:A:O5'	1.85	0.76
1:AA:2071:A:C2	1:AA:2441:C:N3	2.54	0.76
1:AA:2447:G:C8	1:AA:2500:U:C6	2.74	0.76
1:AA:2538:C:H2'	1:AA:2539:C:C6	2.21	0.76
1:AA:300:A:H2'	1:AA:334:C:O2'	1.86	0.76
1:AA:311:A:H1'	1:AA:332:A:C5	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:557:U:O3'	9:AK:112:LEU:HG	1.86	0.76
1:AA:776:G:O2'	1:AA:777:A:OP2	2.02	0.76
1:AA:879:G:O6	1:AA:897:C:C3'	2.33	0.76
1:AA:861:A:C5	1:AA:917:A:H2	2.03	0.76
1:AA:950:G:H2'	1:AA:951:C:C6	2.21	0.76
2:AB:104:A:H2'	2:AB:105:G:O4'	1.86	0.76
3:AC:163:PHE:CZ	3:AC:192:PHE:CA	2.53	0.76
4:AD:147:LEU:HD23	4:AD:147:LEU:H	1.50	0.76
4:AD:42:GLY:HA2	4:AD:60:ARG:HH22	1.51	0.76
5:AE:25:VAL:HG23	5:AE:182:LEU:O	1.85	0.76
7:AG:165:THR:HB	7:AG:168:GLU:OE1	1.85	0.76
31:AI:152:VAL:C	31:AI:155:GLY:CA	2.54	0.76
1:AA:1056:G:H4'	31:AI:34:ALA:HB2	1.68	0.76
9:AK:109:LYS:CG	9:AK:112:LEU:HB2	2.16	0.76
11:AM:28:GLY:O	11:AM:29:LYS:HG3	1.85	0.76
13:AO:54:LEU:HD22	13:AO:66:VAL:HG23	1.68	0.76
15:AQ:102:ILE:O	15:AQ:104:ASN:N	2.19	0.76
17:AS:12:TYR:CG	17:AS:13:ARG:N	2.54	0.76
19:AU:66:LEU:HG	19:AU:69:TYR:C	2.05	0.76
21:AW:94:GLU:HA	21:AW:130:PRO:HB3	1.68	0.76
22:AX:47:PRO:HG3	22:AX:53:MET:SD	2.26	0.76
34:BA:1313:U:N3	34:BA:1324:A:C2	2.28	0.76
34:BA:1316:G:H5'	34:BA:1360:A:N9	2.01	0.76
34:BA:749:C:H2'	34:BA:749:C:O2	1.86	0.76
1:AA:2181:G:H5'	55:BC:17:C:H41	0.91	0.76
56:BE:21:A:N6	56:BE:46:G:C5	2.51	0.76
42:BM:127:LYS:NZ	56:BE:30:G:H4'	2.00	0.76
35:BF:95:GLN:HE21	35:BF:148:TYR:CB	1.98	0.76
37:BH:143:GLY:HA2	37:BH:185:PHE:CB	2.14	0.76
44:BO:73:MET:HG2	44:BO:103:LEU:HD13	1.65	0.76
34:BA:551:U:H5'	45:BP:119:LYS:HZ3	1.50	0.76
51:BV:70:ILE:O	51:BV:73:ALA:HB3	1.86	0.76
52:BW:41:VAL:CB	52:BW:42:PRO:HD2	2.11	0.76
57:BZ:106:MET:HB3	57:BZ:108:GLN:OE1	1.86	0.76
57:BZ:482:GLN:H	57:BZ:573:ASP:CG	1.87	0.76
57:BZ:382:VAL:HG21	57:BZ:569:LEU:HG	1.66	0.76
56:BD:4:C:N1	56:BD:70:G:N2	2.33	0.76
32:AJ:95:LYS:CE	32:AJ:95:LYS:HA	2.12	0.76
1:AA:1023:U:P	1:AA:1025:G:N1	2.59	0.75
1:AA:980:A:C6	1:AA:1135:C:H4'	2.21	0.75
1:AA:1201:C:N4	1:AA:1241:A:N6	2.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1327:C:H3'	1:AA:1328:G:H8	1.49	0.75
1:AA:1429:G:H3'	1:AA:1430:C:H6	1.51	0.75
1:AA:1657:C:OP1	5:AE:136:ARG:NH2	2.18	0.75
1:AA:1664:A:H2'	1:AA:1665:A:H8	1.51	0.75
1:AA:1670:C:C2'	1:AA:1671:U:H5'	2.15	0.75
1:AA:1800:C:C3'	1:AA:1800:C:C6	2.68	0.75
1:AA:1944:U:H1'	1:AA:1955:U:O4'	1.86	0.75
1:AA:200:U:C4	1:AA:248:G:N7	2.54	0.75
1:AA:2181:G:H21	1:AA:2182:G:H1	1.25	0.75
1:AA:2420:C:H5''	5:AE:35:GLN:HE22	137.43	0.75
1:AA:2633:G:H4'	1:AA:2812:G:OP1	1.86	0.75
1:AA:514:A:C2	1:AA:515:A:C4	2.73	0.75
1:AA:531:C:H5'	1:AA:532:A:C2	2.20	0.75
1:AA:84:A:C5'	20:AV:8:LYS:HG3	2.16	0.75
1:AA:911:A:O4'	1:AA:2264:C:H4'	1.85	0.75
2:AB:58:A:O5'	2:AB:58:A:H8	1.70	0.75
3:AC:118:ASP:OD1	3:AC:119:VAL:HG13	1.86	0.75
4:AD:34:VAL:HG22	4:AD:104:TYR:OH	1.85	0.75
6:AF:30:PRO:HA	6:AF:33:LEU:HD21	1.67	0.75
8:AH:28:GLY:CA	8:AH:79:VAL:HB	2.16	0.75
31:AI:7:VAL:O	31:AI:11:ALA:HB3	1.86	0.75
32:AJ:103:GLN:HA	32:AJ:106:GLU:CG	2.16	0.75
32:AJ:20:ALA:HB3	32:AJ:21:PRO:CD	2.15	0.75
32:AJ:22:PRO:C	32:AJ:24:GLY:HA3	2.06	0.75
1:AA:1075:C:C1'	32:AJ:90:LYS:HZ3	1.97	0.75
10:AL:68:GLU:OE1	10:AL:70:LYS:HE3	1.85	0.75
15:AQ:64:ARG:O	15:AQ:66:VAL:HG22	1.83	0.75
15:AQ:82:LEU:O	15:AQ:84:GLN:N	2.19	0.75
34:BA:1157:A:H5''	34:BA:1158:C:OP1	1.85	0.75
34:BA:1166:G:O2'	34:BA:1169:A:N7	2.18	0.75
34:BA:1311:G:C4	34:BA:1327:C:C6	2.67	0.75
34:BA:1431:C:H2'	34:BA:1432:G:O4'	1.85	0.75
1:AA:1961:C:H4'	34:BA:1484:C:H4'	1.67	0.75
35:BF:19:HIS:HA	35:BF:39:ILE:HD11	1.67	0.75
36:BG:137:ALA:O	36:BG:141:VAL:HG23	1.86	0.75
36:BG:177:THR:HG23	36:BG:180:ALA:HB2	1.68	0.75
36:BG:35:GLU:HA	36:BG:38:ARG:CG	2.16	0.75
39:BJ:64:GLN:O	39:BJ:65:VAL:HG12	1.85	0.75
40:BK:86:GLN:O	40:BK:148:ASN:HB3	1.84	0.75
42:BM:51:ARG:HA	42:BM:51:ARG:HH11	1.50	0.75
43:BN:12:ASP:OD1	43:BN:14:LYS:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:16:ASP:O	46:BQ:30:ALA:HB2	1.86	0.75
50:BU:91:ARG:HA	50:BU:94:ASN:ND2	1.99	0.75
34:BA:1318:A:C3'	52:BW:37:ARG:HB2	2.08	0.75
57:BZ:13:HIS:ND1	57:BZ:15:ASP:O	2.19	0.75
57:BZ:170:GLY:C	57:BZ:179:MET:CB	2.55	0.75
57:BZ:207:MET:CE	57:BZ:224:GLY:C	2.55	0.75
57:BZ:233:PRO:HB2	57:BZ:234:ASN:HB2	1.69	0.75
57:BZ:250:LYS:O	57:BZ:273:ILE:HD11	1.86	0.75
57:BZ:565:LEU:CD2	57:BZ:585:ILE:HG21	2.15	0.75
34:BA:489:C:H2'	34:BA:490:G:H8	1.51	0.75
1:AA:1180:C:H2'	1:AA:1181:C:H6	1.51	0.75
1:AA:49:A:H1'	1:AA:118:A:H61	1.50	0.75
1:AA:1631:A:N6	1:AA:1683:C:H5'	2.01	0.75
1:AA:1650:G:H21	1:AA:1651:G:H1'	1.51	0.75
1:AA:1746:G:H2'	1:AA:1747:G:C8	2.22	0.75
1:AA:2059:A:N1	1:AA:2503:A:N6	2.34	0.75
1:AA:2253:G:H2'	1:AA:2254:C:H6	1.51	0.75
1:AA:2345:G:HO2'	1:AA:2346:A:P	2.09	0.75
1:AA:2576:G:OP1	1:AA:2577:A:OP1	2.03	0.75
1:AA:247:G:H4'	1:AA:386:G:N3	2.00	0.75
1:AA:452:G:H3'	1:AA:453:C:C5'	2.13	0.75
1:AA:527:C:OP1	1:AA:527:C:H4'	1.85	0.75
1:AA:900:A:C5	1:AA:901:A:H1'	2.21	0.75
3:AC:116:THR:CG2	3:AC:149:ILE:HB	2.16	0.75
3:AC:66:HIS:CA	3:AC:158:ALA:O	2.32	0.75
4:AD:58:HIS:O	4:AD:59:LYS:CG	2.34	0.75
4:AD:7:LYS:HD3	4:AD:9:TYR:HH	1.50	0.75
5:AE:129:HIS:CD2	5:AE:129:HIS:H	2.05	0.75
5:AE:45:THR:HB	5:AE:81:ILE:CA	2.05	0.75
6:AF:66:PRO:C	6:AF:68:LYS:N	2.38	0.75
1:AA:1255:U:C4	6:AF:72:ARG:O	2.39	0.75
32:AJ:115:LEU:HD13	32:AJ:116:ASN:N	2.01	0.75
9:AK:117:PHE:HA	9:AK:120:LEU:HB3	1.68	0.75
10:AL:10:VAL:N	10:AL:17:ARG:HG2	2.02	0.75
10:AL:18:LYS:HZ1	10:AL:44:LYS:NZ	1.84	0.75
12:AN:134:ARG:HH11	12:AN:134:ARG:C	1.89	0.75
13:AO:102:GLU:CG	13:AO:103:ARG:H	1.98	0.75
13:AO:75:LEU:HA	13:AO:78:LYS:HB3	1.68	0.75
15:AQ:103:ARG:O	15:AQ:104:ASN:C	2.24	0.75
16:AR:15:LYS:O	16:AR:18:LEU:HB2	1.85	0.75
16:AR:88:ILE:HD13	16:AR:88:ILE:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:20:VAL:HG13	18:AT:21:VAL:N	2.01	0.75
21:AW:157:LEU:CD2	21:AW:161:VAL:HA	2.15	0.75
24:AZ:41:PRO:HA	24:AZ:44:ARG:NH1	2.01	0.75
34:BA:1065:U:H2'	34:BA:1065:U:O2	1.85	0.75
34:BA:1180:A:OP1	42:BM:102:LEU:HB2	1.86	0.75
34:BA:1115:C:H1'	34:BA:1186:G:N2	2.02	0.75
34:BA:1239:A:H1'	34:BA:1241:G:C4	2.21	0.75
34:BA:1288:A:H2'	34:BA:1289:A:C8	2.18	0.75
34:BA:1292:U:H2'	34:BA:1293:G:C8	2.20	0.75
34:BA:1309:G:N1	34:BA:1328:C:C5	2.53	0.75
34:BA:1319:A:H5'	52:BW:70:LYS:HE2	0.77	0.75
34:BA:1312:G:C4	34:BA:1326:C:N3	2.50	0.75
34:BA:266:G:H8	50:BU:67:LYS:NZ	1.80	0.75
34:BA:307:C:N4	34:BA:308:C:H41	1.84	0.75
34:BA:601:C:C2	34:BA:602:A:C8	2.74	0.75
34:BA:918:A:H2'	34:BA:919:A:C8	2.21	0.75
55:BC:56:C:H3'	55:BC:57:G:H5''	1.68	0.75
56:BE:16:U:O2'	56:BE:17:C:H2'	1.87	0.75
36:BG:67:THR:CG2	36:BG:104:GLN:HG2	2.16	0.75
36:BG:157:ILE:HG13	36:BG:164:ARG:CG	2.16	0.75
34:BA:1057:G:H4'	36:BG:197:GLY:N	2.01	0.75
37:BH:145:GLU:O	37:BH:146:ILE:HG23	1.85	0.75
37:BH:170:VAL:HG23	37:BH:176:LEU:HB3	1.68	0.75
45:BP:83:VAL:HG22	45:BP:84:LEU:N	2.02	0.75
48:BS:31:LEU:O	48:BS:34:LEU:HG	1.86	0.75
49:BT:39:TYR:HB2	49:BT:49:LEU:CD1	2.08	0.75
57:BZ:102:PHE:CE2	57:BZ:134:GLY:O	2.38	0.75
57:BZ:211:GLN:HB2	57:BZ:223:ILE:HG21	1.68	0.75
57:BZ:401:GLU:O	57:BZ:467:SER:HB2	1.85	0.75
57:BZ:545:ASN:HB3	57:BZ:546:MET:CA	2.14	0.75
57:BZ:546:MET:CB	57:BZ:547:ARG:HA	2.15	0.75
1:AA:1021:A:H2'	1:AA:1022:G:OP1	1.85	0.75
1:AA:1045:A:H1'	1:AA:1047:G:H8	1.51	0.75
1:AA:1451:C:H3'	1:AA:1453:A:H4'	1.68	0.75
1:AA:1517:G:N2	1:AA:1518:C:C2	2.53	0.75
1:AA:1532:C:H2'	1:AA:1533:C:C6	2.21	0.75
1:AA:1613:G:C3'	1:AA:1614:A:H5'	2.13	0.75
1:AA:1649:G:H21	13:AO:107:ASP:CB	1.90	0.75
1:AA:1658:C:OP1	5:AE:134:ILE:HD12	1.85	0.75
1:AA:1667:G:C2	1:AA:1991:U:C4	2.75	0.75
1:AA:1944:U:O4	57:BZ:543:LEU:HD22	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2238:G:O2'	1:AA:2239:G:H5''	1.85	0.75
1:AA:243:U:O2	1:AA:244:A:H5'	1.87	0.75
1:AA:2569:G:C2	1:AA:2570:G:C8	2.73	0.75
1:AA:2780:G:N2	9:AK:97:ARG:NH1	2.23	0.75
1:AA:108:U:H4'	1:AA:348:G:N2	2.02	0.75
1:AA:662:G:H5'	11:AM:17:LYS:H	1.50	0.75
3:AC:86:ALA:HB2	3:AC:149:ILE:HG23	1.67	0.75
1:AA:1804:C:C4'	4:AD:250:TRP:HH2	1.95	0.75
5:AE:84:PHE:C	5:AE:85:ASN:HD22	1.90	0.75
6:AF:115:ALA:O	6:AF:119:ARG:HG3	1.87	0.75
7:AG:131:TYR:CD1	7:AG:132:ASN:N	2.53	0.75
7:AG:39:ILE:HG23	7:AG:157:ILE:CG1	2.17	0.75
7:AG:55:LYS:HG3	7:AG:148:MET:HB2	1.68	0.75
8:AH:69:ARG:HG3	8:AH:70:THR:N	1.99	0.75
12:AN:41:TRP:HB3	12:AN:74:TYR:OH	1.86	0.75
14:AP:74:ALA:HB1	14:AP:108:GLY:H	1.51	0.75
15:AQ:29:ARG:HA	15:AQ:51:ARG:HA	1.68	0.75
16:AR:108:GLU:O	16:AR:111:GLU:HG2	1.86	0.75
21:AW:114:GLY:HA3	21:AW:180:VAL:HG11	1.67	0.75
34:BA:1311:G:C2	34:BA:1326:C:C2'	2.68	0.75
34:BA:1312:G:C2	34:BA:1326:C:N1	2.55	0.75
34:BA:186(B):C:O2'	34:BA:186(C):G:H5'	1.85	0.75
34:BA:22:G:H2'	34:BA:23:C:O4'	1.86	0.75
34:BA:474:G:P	49:BT:81:ARG:HA	2.26	0.75
34:BA:598:U:O2'	41:BL:94:TYR:HB3	1.87	0.75
1:AA:2169:A:C6	55:BC:19:G:N2	2.54	0.75
37:BH:25:ARG:C	37:BH:27:TYR:H	1.89	0.75
39:BJ:99:ALA:HB2	51:BV:31:LEU:HD11	1.68	0.75
41:BL:65:TYR:C	41:BL:67:PRO:HD3	2.06	0.75
43:BN:45:ARG:CB	43:BN:45:ARG:HH11	1.98	0.75
47:BR:41:ARG:O	47:BR:45:ARG:HG2	1.86	0.75
53:BX:90:GLN:HA	53:BX:93:GLU:OE1	1.86	0.75
57:BZ:249:ALA:H	57:BZ:276:ILE:N	1.84	0.75
57:BZ:2:ILE:CG2	57:BZ:267:LEU:HD23	2.13	0.75
57:BZ:512:LEU:CD2	57:BZ:524:ILE:HG22	2.16	0.75
57:BZ:502:PHE:HZ	57:BZ:556:VAL:N	1.82	0.75
1:AA:1081:U:H5'	32:AJ:125:ARG:HG2	1.69	0.75
1:AA:151:C:H2'	1:AA:152:G:C8	2.20	0.75
1:AA:1683:C:C2	1:AA:1684:C:C5	2.74	0.75
1:AA:1731:G:N2	1:AA:1733:G:N2	2.34	0.75
1:AA:1805:U:H2'	1:AA:1806:C:C6	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1808:U:N3	1:AA:1810:A:C2	2.54	0.75
1:AA:1854:A:C2	1:AA:1855:G:H1'	2.21	0.75
1:AA:1944:U:H1'	1:AA:1955:U:C6	2.22	0.75
1:AA:1269:A:H61	1:AA:2011:U:H3	1.32	0.75
1:AA:237:C:H2'	1:AA:238:C:H6	1.51	0.75
1:AA:2431:U:O2	1:AA:2433:A:OP2	2.04	0.75
1:AA:2666:C:C5	1:AA:2667:C:H5	1.87	0.75
1:AA:270(E):G:O2'	1:AA:270(F):U:H5'	1.86	0.75
1:AA:1050:A:H2'	1:AA:2752:C:OP1	1.86	0.75
1:AA:2845:G:H5''	15:AQ:57:PHE:O	1.86	0.75
1:AA:563:G:H21	16:AR:34:LYS:HE2	1.50	0.75
1:AA:623:G:H2'	1:AA:624:C:H5''	1.68	0.75
3:AC:10:LEU:CD1	3:AC:13:LYS:HD2	2.16	0.75
3:AC:22:ILE:HD11	3:AC:226:PRO:C	2.05	0.75
1:AA:1819:A:H5''	4:AD:178:PRO:CB	2.15	0.75
4:AD:182:LEU:CD1	4:AD:270:ILE:HD11	2.17	0.75
4:AD:243:GLY:O	4:AD:244:ARG:HB2	1.85	0.75
5:AE:45:THR:OG1	5:AE:80:GLU:O	2.01	0.75
7:AG:144:ILE:HG23	7:AG:147:ASP:OD2	1.85	0.75
7:AG:39:ILE:HD13	7:AG:92:VAL:HG12	1.67	0.75
7:AG:77:ILE:O	7:AG:83:ARG:NE	2.20	0.75
8:AH:153:LYS:H	8:AH:154:PRO:HD2	1.49	0.75
10:AL:97:ARG:HH21	10:AL:97:ARG:CB	1.94	0.75
11:AM:114:ILE:CD1	11:AM:123:LEU:HG	2.16	0.75
14:AP:62:LYS:CB	14:AP:65:VAL:HG13	2.17	0.75
1:AA:446:G:N7	16:AR:3:ARG:NH2	2.33	0.75
21:AW:27:VAL:CG2	21:AW:85:HIS:HE1	1.99	0.75
34:BA:949:A:H1'	34:BA:1364:U:H3	1.51	0.75
34:BA:1399:C:C4	34:BA:1502:A:N6	2.55	0.75
34:BA:228:A:C2'	34:BA:229:U:H5'	2.16	0.75
34:BA:539:A:OP2	45:BP:115:LYS:HE3	1.87	0.75
34:BA:714:G:H1'	34:BA:777:A:C8	2.22	0.75
34:BA:84:U:H2'	34:BA:85:U:O4'	1.85	0.75
34:BA:865:A:H5'	34:BA:1078:U:O4	1.86	0.75
34:BA:889:A:H5'	34:BA:891:U:O4'	1.86	0.75
34:BA:973:G:C2	34:BA:974:A:C6	2.75	0.75
55:BC:16:U:C5	55:BC:18:G:C3'	2.66	0.75
56:BE:4:C:C6	56:BE:6:G:C5	2.73	0.75
35:BF:10:LEU:HD23	35:BF:11:LEU:HD23	1.68	0.75
35:BF:144:ARG:HA	35:BF:147:LYS:CB	2.15	0.75
35:BF:103:THR:OG1	35:BF:180:LEU:HD21	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:63:LYS:HA	37:BH:66:ARG:HD2	1.67	0.75
38:BI:108:ALA:O	38:BI:112:LEU:HB2	1.87	0.75
38:BI:79:GLU:HG3	38:BI:93:PRO:CD	2.16	0.75
41:BL:46:LYS:CE	41:BL:64:LYS:HA	2.17	0.75
42:BM:47:LEU:HD13	42:BM:47:LEU:O	1.86	0.75
34:BA:1125:U:C5'	43:BN:38:ILE:HG21	2.16	0.75
43:BN:65:LEU:HD12	47:BR:56:VAL:CG2	2.15	0.75
45:BP:5:PRO:O	45:BP:6:THR:HG23	1.87	0.75
46:BQ:65:LYS:HG3	46:BQ:69:GLU:CG	2.16	0.75
49:BT:8:ARG:NH1	49:BT:11:SER:H	1.82	0.75
34:BA:236:G:H5'	50:BU:42:TYR:OH	1.86	0.75
57:BZ:13:HIS:CE1	57:BZ:15:ASP:O	2.40	0.75
57:BZ:403:VAL:O	57:BZ:465:LEU:HD13	1.86	0.75
57:BZ:29:SER:OG	57:BZ:58:ALA:HB1	1.86	0.75
1:AA:1511:A:H2'	1:AA:1512:G:H5''	1.68	0.75
1:AA:1023:U:H2'	1:AA:1024:G:C5'	2.16	0.75
1:AA:1065:U:H2'	1:AA:1066:U:C5'	2.16	0.75
1:AA:1299:G:H5'	1:AA:1301:A:H1'	1.69	0.75
1:AA:1312:U:H3'	1:AA:1313:U:H5	1.51	0.75
1:AA:1382:G:H2'	1:AA:1383:C:H6	1.52	0.75
1:AA:1467:C:N4	1:AA:1524:G:O6	2.20	0.75
1:AA:1695:G:C2	1:AA:1696:G:O4'	2.38	0.75
1:AA:1700:A:C2'	1:AA:1701:A:H5'	2.15	0.75
1:AA:1967:C:H2'	1:AA:1967:C:O2	1.85	0.75
1:AA:2553:G:N2	1:AA:2554:U:O2'	2.17	0.75
1:AA:2626:C:H2'	1:AA:2627:G:H8	1.51	0.75
1:AA:2647:U:O2'	1:AA:2648:C:O4'	2.05	0.75
1:AA:567:A:C2	1:AA:568:U:H1'	2.21	0.75
1:AA:640:C:N4	1:AA:647:G:H1	1.84	0.75
1:AA:643:A:H4'	1:AA:644:A:O5'	1.85	0.75
1:AA:755:C:H2'	1:AA:756:C:C6	2.21	0.75
3:AC:47:LEU:HG	3:AC:49:ILE:HG23	1.68	0.75
3:AC:87:GLU:HG3	3:AC:94:VAL:CG2	2.15	0.75
4:AD:229:VAL:HG22	4:AD:230:ASP:OD1	1.84	0.75
4:AD:181:GLU:HB2	4:AD:268:ARG:NH2	2.01	0.75
4:AD:66:ASP:OD2	4:AD:103:ARG:HD3	1.86	0.75
5:AE:8:LYS:HD3	5:AE:9:VAL:CG2	2.15	0.75
7:AG:8:LYS:HZ3	7:AG:103:LEU:HG	1.51	0.75
7:AG:17:PRO:O	7:AG:20:ILE:HB	1.85	0.75
8:AH:33:LEU:HD13	8:AH:75:ALA:HA	1.66	0.75
8:AH:76:VAL:HG23	8:AH:77:LYS:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:42:ILE:HG23	12:AN:47:ILE:HD11	1.69	0.75
13:AO:14:SER:O	13:AO:18:LEU:HD23	1.86	0.75
14:AP:49:VAL:HG22	14:AP:76:LYS:HZ2	1.51	0.75
15:AQ:34:VAL:HG11	15:AQ:78:LEU:CD1	2.16	0.75
15:AQ:61:PHE:HD1	15:AQ:81:PRO:HD3	1.51	0.75
9:AK:4:TYR:HD2	16:AR:100:VAL:HG11	1.50	0.75
16:AR:25:TRP:HE3	16:AR:26:GLY:N	1.83	0.75
17:AS:6:LYS:CB	17:AS:10:LYS:HA	2.12	0.75
17:AS:52:VAL:HG12	17:AS:53:GLU:N	2.00	0.75
18:AT:33:ARG:HH11	18:AT:36:LEU:HB3	1.52	0.75
24:AZ:26:LEU:HB3	24:AZ:35:ARG:HH11	1.50	0.75
34:BA:1208:C:H2'	34:BA:1209:C:H6	1.51	0.75
34:BA:1412:C:C2	34:BA:1489:G:C6	2.69	0.75
34:BA:284:G:O2'	34:BA:285:G:H5'	1.86	0.75
34:BA:362:G:H8	45:BP:34:ARG:NH2	1.80	0.75
34:BA:526:C:H42	34:BA:535:A:H2	1.35	0.75
34:BA:93:U:H2'	34:BA:95:G:C8	2.22	0.75
36:BG:11:ARG:HG3	36:BG:16:ARG:HE	1.50	0.75
42:BM:40:LEU:C	42:BM:42:ARG:H	1.90	0.75
53:BX:51:GLU:HB3	53:BX:54:LYS:HZ2	1.51	0.75
53:BX:72:LEU:HD23	53:BX:76:ALA:HB1	1.68	0.75
54:BY:7:ARG:HG3	54:BY:8:THR:H	1.51	0.75
57:BZ:13:HIS:NE2	57:BZ:106:MET:CG	2.49	0.75
57:BZ:287:THR:HG21	57:BZ:297:LEU:C	2.04	0.75
57:BZ:493:GLN:HG2	57:BZ:519:TYR:CB	2.16	0.75
55:BC:37:A:C2'	55:BC:38:A:H5'	2.16	0.75
1:AA:1072:C:C3'	1:AA:1093:G:C6	2.69	0.75
1:AA:1184:G:H2'	1:AA:1185:C:H5'	1.69	0.75
1:AA:1206:G:C2'	1:AA:1207:C:O4'	2.29	0.75
1:AA:1312:U:C3'	1:AA:1313:U:H6	1.98	0.75
1:AA:1609:A:H62	1:AA:1616:A:H2	1.34	0.75
1:AA:1697:G:C3'	1:AA:1698:A:C5'	2.62	0.75
1:AA:1793:C:H42	1:AA:1825:A:H61	1.33	0.75
1:AA:2180:U:O2'	55:BC:17:C:C6	2.39	0.75
1:AA:2282:G:H1	1:AA:2427:C:N4	1.82	0.75
1:AA:2595:G:H1'	1:AA:2599:G:H22	1.50	0.75
1:AA:221:A:N7	1:AA:266:G:O6	2.20	0.75
1:AA:349:G:OP2	1:AA:349:G:C8	2.40	0.75
1:AA:514:A:H2	1:AA:515:A:C4	2.05	0.75
1:AA:690:G:O2'	1:AA:780:G:OP1	2.03	0.75
1:AA:740:U:HO2'	1:AA:741:G:P	2.09	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:746:A:N7	1:AA:2611:U:O3'	2.20	0.75
1:AA:748:G:H5'	1:AA:749:C:OP2	1.86	0.75
1:AA:782:A:H5''	1:AA:783:A:OP1	1.87	0.75
1:AA:893:C:C2'	1:AA:894:C:H6	1.97	0.75
1:AA:2177:C:C5'	3:AC:223:ARG:NH1	2.41	0.75
6:AF:184:TYR:H	6:AF:184:TYR:HD2	1.33	0.75
6:AF:153:SER:OG	6:AF:190:GLU:HG2	1.87	0.75
6:AF:41:LEU:O	6:AF:44:ARG:CZ	2.34	0.75
8:AH:127:GLU:HG3	8:AH:130:ARG:HB2	1.68	0.75
32:AJ:100:THR:HG1	32:AJ:103:GLN:HB3	1.52	0.75
9:AK:51:PHE:CG	9:AK:119:ARG:HB2	2.21	0.75
10:AL:70:LYS:HE2	10:AL:104:ARG:HG3	1.68	0.75
11:AM:77:ARG:NH1	11:AM:79:ARG:HG2	2.02	0.75
18:AT:58:ALA:O	18:AT:63:ASP:N	2.18	0.75
21:AW:122:ARG:CG	21:AW:171:ILE:HA	2.17	0.75
34:BA:1148:U:O2	34:BA:1149:C:C6	2.40	0.75
34:BA:1228:C:P	46:BQ:115:LYS:HB3	2.27	0.75
34:BA:1347:G:O2'	34:BA:1348:U:OP2	2.04	0.75
34:BA:449:C:C2	34:BA:450:G:C1'	2.66	0.75
35:BF:222:ILE:CD1	35:BF:226:ARG:HH21	1.99	0.75
35:BF:20:GLU:O	35:BF:39:ILE:HG13	1.86	0.75
35:BF:48:MET:HA	35:BF:51:LEU:HD12	1.68	0.75
35:BF:71:VAL:O	35:BF:164:VAL:HG23	1.85	0.75
36:BG:108:ASN:HD22	36:BG:111:LEU:CD1	1.99	0.75
39:BJ:96:PRO:O	39:BJ:97:PHE:HB2	1.84	0.75
41:BL:7:ALA:HA	41:BL:10:LEU:CD1	2.17	0.75
44:BO:101:SER:O	44:BO:103:LEU:HG	1.86	0.75
45:BP:117:ARG:HH22	45:BP:124:LYS:HG3	1.50	0.75
51:BV:38:GLU:H	51:BV:38:GLU:CD	1.89	0.75
52:BW:25:LYS:HD2	52:BW:25:LYS:C	2.05	0.75
34:BA:1221:G:C5'	52:BW:52:TYR:O	2.35	0.75
53:BX:56:MET:O	53:BX:59:ALA:HB3	1.86	0.75
57:BZ:6:ARG:HB2	57:BZ:69:ARG:C	2.07	0.75
1:AA:1061:U:C5'	32:AJ:52:ILE:HD11	2.16	0.75
1:AA:1321:A:C2	1:AA:1322:A:O4'	2.40	0.75
1:AA:2434:A:C2'	1:AA:2435:A:H5''	2.16	0.75
1:AA:2563:U:N3	1:AA:2566:A:OP2	2.20	0.75
1:AA:2051:A:C4	1:AA:2614:A:N6	2.55	0.75
1:AA:270(P):C:H2'	1:AA:270(Q):C:H6	1.49	0.75
1:AA:2:G:H2'	1:AA:3:U:C6	2.22	0.75
1:AA:312:G:O4'	1:AA:312:G:OP1	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:686:G:H4'	1:AA:687:C:OP2	1.85	0.75
1:AA:962:G:C2'	1:AA:963:U:C6	2.69	0.75
4:AD:154:LYS:O	4:AD:154:LYS:HG3	1.86	0.75
5:AE:58:ARG:HG2	5:AE:63:LEU:CD2	2.16	0.75
6:AF:125:LEU:C	6:AF:127:GLU:H	1.84	0.75
7:AG:135:LEU:HD22	7:AG:136:ARG:H	1.52	0.75
8:AH:115:VAL:CG1	8:AH:116:GLU:N	2.49	0.75
9:AK:55:VAL:HB	9:AK:130:HIS:CE1	2.21	0.75
1:AA:1022:G:N7	9:AK:65:LYS:HE3	2.01	0.75
9:AK:86:PRO:HB2	9:AK:89:LYS:HZ1	1.47	0.75
10:AL:8:LEU:HD22	10:AL:9:GLU:N	2.00	0.75
10:AL:94:ARG:HG3	10:AL:96:THR:H	1.52	0.75
13:AO:113:LEU:HD13	13:AO:114:VAL:N	2.02	0.75
15:AQ:109:GLU:O	15:AQ:110:ILE:HB	1.87	0.75
17:AS:73:SER:HG	17:AS:89:GLN:HB2	1.50	0.75
19:AU:50:LYS:HG3	19:AU:84:ALA:HB3	1.69	0.75
22:AX:51:VAL:HG21	22:AX:79:VAL:O	1.86	0.75
34:BA:115:G:O2'	34:BA:116:A:OP2	2.04	0.75
34:BA:1206:G:H4'	36:BG:192:THR:O	1.87	0.75
34:BA:1270:C:O2'	34:BA:1313:U:H4'	1.84	0.75
34:BA:1528:U:O2'	34:BA:1529:G:H3'	1.86	0.75
34:BA:38:G:N3	34:BA:397:A:N6	2.35	0.75
35:BF:178:ARG:HA	35:BF:184:VAL:HG21	1.67	0.75
36:BG:140:ARG:NH1	36:BG:140:ARG:HB3	2.02	0.75
37:BH:118:ARG:NH2	37:BH:136:PRO:HB2	2.02	0.75
38:BI:72:GLN:HE22	38:BI:145:LYS:H	1.33	0.75
40:BK:126:ASP:HA	40:BK:131:LYS:CE	2.10	0.75
42:BM:112:LYS:HG3	42:BM:117:HIS:HA	1.67	0.75
45:BP:60:LEU:C	45:BP:60:LEU:HD22	2.07	0.75
48:BS:16:ALA:HB1	48:BS:21:ASP:CB	2.17	0.75
48:BS:39:LEU:HD22	48:BS:56:LEU:HD22	1.66	0.75
34:BA:1319:A:C5'	52:BW:70:LYS:HZ2	1.62	0.75
57:BZ:236:GLN:CG	57:BZ:247:ARG:HA	2.15	0.75
32:AJ:29:GLN:OE1	57:BZ:432:ASP:O	2.05	0.75
57:BZ:408:GLU:CG	57:BZ:436:ARG:NH1	2.48	0.75
57:BZ:81:PHE:HA	57:BZ:365:HIS:CD2	2.22	0.75
1:AA:1028:A:H2	1:AA:2486:G:O2'	1.70	0.75
1:AA:1116:C:H2'	1:AA:1117:G:H8	1.50	0.75
1:AA:1142:U:H6	1:AA:1142(A):A:C8	2.05	0.75
1:AA:1222:C:C4	1:AA:1223:C:C5	2.75	0.75
1:AA:140:A:H61	1:AA:1596:A:H4'	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:C:H2'	1:AA:145:G:O4'	1.85	0.75
1:AA:14:A:N7	1:AA:15:G:N9	2.35	0.75
1:AA:1698:A:H1'	1:AA:1700:A:O5'	1.86	0.75
1:AA:175:G:N2	1:AA:176:G:N3	2.34	0.75
1:AA:1773:A:C4	1:AA:1774:C:O2	2.39	0.75
1:AA:2034:U:C3'	1:AA:2035:G:H5''	2.08	0.75
1:AA:2052:G:H1'	5:AE:150:VAL:N	2.02	0.75
1:AA:2181:G:C2	1:AA:2182:G:C6	2.71	0.75
1:AA:2253:G:N1	59:AA:3003:8AN:N7	2.35	0.75
1:AA:2306:C:OP1	7:AG:136:ARG:HD3	1.86	0.75
1:AA:2323:G:C2	1:AA:2324:C:C4	2.75	0.75
1:AA:2387:U:C1'	22:AX:41:ARG:NH2	2.50	0.75
1:AA:826:U:OP1	1:AA:2429:G:OP1	2.05	0.75
1:AA:2631:G:P	1:AA:2894:G:O2'	2.44	0.75
1:AA:2888:C:H2'	1:AA:2889:C:C6	2.22	0.75
1:AA:28:A:H2'	1:AA:29:U:H5'	1.69	0.75
1:AA:2:G:N7	1:AA:2902:C:N4	2.35	0.75
1:AA:36:G:H4'	1:AA:451:C:C2	2.21	0.75
1:AA:426:C:H2'	1:AA:427:U:C6	2.20	0.75
1:AA:530:G:O2'	1:AA:531:C:OP1	2.04	0.75
1:AA:532:A:H62	16:AR:45:TYR:HH	1.32	0.75
1:AA:640:C:O2'	1:AA:641:C:H5''	1.86	0.75
3:AC:114:VAL:HA	3:AC:144:THR:O	1.87	0.75
3:AC:62:VAL:HB	3:AC:192:PHE:CA	2.17	0.75
1:AA:2178:C:H5'	3:AC:211:SER:OG	1.86	0.75
4:AD:174:ILE:CD1	4:AD:184:LYS:HE3	2.16	0.75
4:AD:183:ARG:HG2	4:AD:268:ARG:CG	2.16	0.75
4:AD:69:ARG:NH2	4:AD:130:ALA:HB2	2.02	0.75
4:AD:87:ASN:HD22	4:AD:87:ASN:H	1.31	0.75
5:AE:36:ARG:HB3	5:AE:41:LYS:HB2	1.69	0.75
5:AE:49:LEU:HD13	5:AE:76:ARG:O	1.87	0.75
6:AF:81:PRO:HG2	6:AF:82:ILE:HD12	1.67	0.75
32:AJ:23:VAL:HG11	32:AJ:41:PHE:CZ	2.22	0.75
9:AK:7:LYS:NZ	9:AK:10:GLU:H	1.84	0.75
10:AL:24:VAL:HG21	10:AL:26:LYS:CE	2.17	0.75
10:AL:12:ASP:CB	10:AL:93:PRO:HG2	2.17	0.75
13:AO:5:LYS:HA	13:AO:5:LYS:HE2	1.69	0.75
14:AP:106:ARG:CZ	14:AP:110:LEU:HD22	2.16	0.75
14:AP:3:ARG:CG	14:AP:4:LEU:HG	2.12	0.75
15:AQ:30:VAL:HG22	15:AQ:32:TYR:OH	1.87	0.75
17:AS:3:ALA:HB2	17:AS:44:LYS:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:35:LEU:C	17:AS:61:VAL:HG22	2.07	0.75
34:BA:1063:C:C4	34:BA:1064:G:N7	2.55	0.75
34:BA:1287:A:H2'	34:BA:1288:A:C8	2.20	0.75
34:BA:1302:U:C2'	34:BA:1303:C:H5'	2.17	0.75
34:BA:440:A:H3'	34:BA:442:C:C6	2.21	0.75
34:BA:508:C:O2'	34:BA:509:A:H8	1.69	0.75
34:BA:665:A:C2'	34:BA:725:G:N2	2.46	0.75
34:BA:738:C:H2'	34:BA:739:C:H6	1.52	0.75
35:BF:16:HIS:CE1	35:BF:213:LEU:HD13	2.21	0.75
36:BG:201:TYR:CD1	36:BG:201:TYR:N	2.55	0.75
36:BG:85:ARG:NH2	36:BG:89:GLU:HB2	2.01	0.75
37:BH:152:SER:O	37:BH:154:ASN:N	2.20	0.75
39:BJ:14:LEU:HD13	39:BJ:15:ASP:H	1.52	0.75
39:BJ:33:TYR:HE2	39:BJ:74:ASP:HB2	1.50	0.75
42:BM:49:PRO:HG3	42:BM:78:LYS:O	1.86	0.75
45:BP:41:ARG:NH1	45:BP:55:VAL:HG11	2.02	0.75
46:BQ:97:PRO:CB	46:BQ:101:GLN:HG3	2.17	0.75
48:BS:33:THR:HG23	48:BS:87:ILE:CD1	2.17	0.75
52:BW:6:LYS:HD2	52:BW:7:LYS:N	2.02	0.75
53:BX:51:GLU:HA	53:BX:54:LYS:CE	2.17	0.75
53:BX:40:ALA:HA	53:BX:55:ILE:HD12	1.66	0.75
57:BZ:50:LYS:HD3	57:BZ:50:LYS:C	2.07	0.75
57:BZ:4:LYS:O	57:BZ:68:TYR:CA	2.34	0.75
31:AI:51:LEU:CA	31:AI:90:ALA:HB2	2.17	0.75
56:BD:47:U:C4	57:BZ:598:ARG:HD3	2.16	0.75
1:AA:1046:A:N6	31:AI:9:LEU:CA	2.49	0.75
1:AA:187:G:H2'	1:AA:1365:A:C2	2.22	0.75
1:AA:1496:A:C2	1:AA:1577:C:H1'	2.21	0.75
1:AA:2027:G:H2'	1:AA:2028:U:C6	2.21	0.75
1:AA:2129:C:O3'	3:AC:6:ARG:CD	2.32	0.75
1:AA:2756:U:C2	1:AA:2758:A:N6	2.54	0.75
1:AA:2865:U:C4	1:AA:2866:U:H5	2.03	0.75
1:AA:2629:A:H5'	1:AA:2895:U:C6	2.22	0.75
1:AA:661:C:H5''	11:AM:15:ARG:HH11	1.51	0.75
1:AA:983:A:H2'	1:AA:984:A:C8	2.22	0.75
1:AA:2175:C:P	3:AC:7:TYR:CG	2.80	0.75
4:AD:105:ILE:HG13	4:AD:106:ILE:CG1	2.12	0.75
4:AD:54:ARG:CA	4:AD:219:PRO:HG2	2.17	0.75
5:AE:109:LYS:N	5:AE:191:PRO:HD3	2.02	0.75
5:AE:133:LYS:HZ1	5:AE:137:HIS:HB3	1.50	0.75
7:AG:146:TYR:HE1	7:AG:149:VAL:HA	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:41:GLN:HG3	7:AG:42:GLY:N	2.02	0.75
7:AG:79:ASN:CG	7:AG:82:LEU:HG	2.07	0.75
8:AH:154:PRO:O	8:AH:155:SER:HB3	1.86	0.75
1:AA:1046:A:C5'	31:AI:6:ASN:O	2.29	0.75
9:AK:127:ASP:C	9:AK:129:PRO:HD2	2.06	0.75
9:AK:73:THR:HB	9:AK:75:TYR:CE1	2.22	0.75
1:AA:623:G:OP2	11:AM:105:LEU:HD11	1.87	0.75
12:AN:34:LEU:HA	12:AN:131:ILE:CG1	2.11	0.75
17:AS:62:LEU:CD1	17:AS:96:ILE:HB	2.02	0.75
18:AT:24:ILE:HG22	18:AT:32:ALA:HB1	1.68	0.75
20:AV:12:THR:HG22	20:AV:13:VAL:N	2.01	0.75
20:AV:12:THR:HA	20:AV:73:ARG:CD	2.16	0.75
34:BA:1363:A:N3	34:BA:1365:G:C6	2.55	0.75
34:BA:440:A:N6	34:BA:494:U:C5	2.55	0.75
34:BA:43:C:H2'	34:BA:44:G:H8	1.50	0.75
34:BA:52:G:H2'	34:BA:53:A:O4'	1.87	0.75
34:BA:748:C:H3'	34:BA:748:C:C6	2.22	0.75
37:BH:134:ASP:O	37:BH:136:PRO:HD3	1.85	0.75
40:BK:121:ALA:O	40:BK:125:MET:HG2	1.87	0.75
34:BA:932:C:OP1	40:BK:3:ARG:HB3	1.87	0.75
41:BL:112:LEU:HA	41:BL:134:ILE:HG13	1.69	0.75
43:BN:23:ILE:HG22	43:BN:72:VAL:HG11	1.67	0.75
43:BN:34:VAL:HG12	43:BN:35:SER:N	1.99	0.75
43:BN:82:ILE:O	43:BN:86:MET:HB3	1.87	0.75
46:BQ:5:ALA:HB1	46:BQ:67:GLU:CD	2.08	0.75
57:BZ:127:ILE:CG1	57:BZ:163:VAL:O	2.26	0.75
57:BZ:6:ARG:CD	57:BZ:194:VAL:CG1	2.45	0.75
57:BZ:2:ILE:CB	57:BZ:199:VAL:HG21	2.17	0.75
57:BZ:54:ILE:HG13	57:BZ:211:GLN:HE22	1.50	0.75
57:BZ:412:GLN:O	57:BZ:416:MET:HG3	1.86	0.75
57:BZ:455:PHE:CZ	57:BZ:465:LEU:HD23	2.22	0.75
1:AA:884:C:H1'	1:AA:885:C:C5'	2.16	0.75
57:BZ:490:SER:O	57:BZ:534:THR:HG23	1.84	0.75
1:AA:1083:U:H2'	1:AA:1084:A:H5''	1.68	0.74
1:AA:1101:U:OP1	1:AA:1101:U:H6	1.70	0.74
1:AA:1252:G:H22	16:AR:37:GLU:CG	2.00	0.74
1:AA:1258:C:H2'	1:AA:1259:G:H8	1.51	0.74
1:AA:1315:C:O2'	1:AA:1392:A:H1'	1.87	0.74
1:AA:1471:A:C2'	1:AA:1472:A:H5'	2.16	0.74
1:AA:1742:C:N4	1:AA:1743:G:C8	2.55	0.74
1:AA:2311:A:H3'	1:AA:2312:U:C6	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:A:H62	1:AA:2518:A:H61	0.79	0.74
1:AA:326:G:N2	1:AA:337:C:H1'	2.01	0.74
1:AA:365:C:O5'	1:AA:365:C:H6	1.68	0.74
1:AA:397:G:O2'	1:AA:2231:C:H1'	1.86	0.74
1:AA:52:A:H2'	1:AA:53:A:C8	2.14	0.74
1:AA:574:C:H1'	1:AA:2055:C:C5	2.21	0.74
1:AA:571:A:C8	1:AA:575:A:N6	2.55	0.74
1:AA:668:G:N3	1:AA:670:A:N6	2.35	0.74
1:AA:725:G:C6	1:AA:726:G:N2	2.54	0.74
1:AA:728:G:O2'	1:AA:729:G:H5''	1.87	0.74
1:AA:805:G:O6	1:AA:2068:U:P	2.45	0.74
1:AA:848:G:H21	1:AA:933:A:H1'	1.52	0.74
2:AB:44:G:H21	2:AB:48:A:H1'	1.51	0.74
5:AE:111:ARG:H	5:AE:161:GLY:CA	2.00	0.74
6:AF:118:ALA:CB	6:AF:122:LYS:HE2	2.17	0.74
6:AF:132:VAL:C	6:AF:134:GLY:H	1.91	0.74
6:AF:11:VAL:HG23	6:AF:17:ARG:HH22	1.52	0.74
6:AF:70:THR:C	6:AF:72:ARG:N	2.41	0.74
8:AH:11:VAL:CG1	8:AH:11:VAL:O	2.34	0.74
8:AH:6:ARG:HD2	8:AH:66:GLY:HA2	1.69	0.74
8:AH:97:ARG:HA	8:AH:125:VAL:HG11	1.69	0.74
10:AL:16:ALA:CB	10:AL:45:GLU:HB2	2.17	0.74
11:AM:97:PRO:HA	11:AM:102:ARG:NE	2.01	0.74
6:AF:31:HIS:ND1	11:AM:11:GLY:HA3	2.03	0.74
11:AM:88:LEU:CG	11:AM:124:LYS:HZ1	2.00	0.74
15:AQ:53:ARG:NH2	15:AQ:102:ILE:H	1.84	0.74
15:AQ:7:ILE:O	15:AQ:11:GLU:OE2	2.03	0.74
16:AR:65:ILE:N	16:AR:65:ILE:HD13	2.02	0.74
18:AT:70:TYR:CZ	18:AT:72:LYS:HB2	2.22	0.74
20:AV:8:LYS:CA	20:AV:28:LYS:HD2	2.17	0.74
20:AV:98:VAL:O	20:AV:99:CYS:SG	2.45	0.74
22:AX:51:VAL:HG11	22:AX:79:VAL:HG23	1.69	0.74
34:BA:1284:C:H2'	34:BA:1285:A:N7	2.02	0.74
34:BA:1316:G:H5'	34:BA:1360:A:C5	2.22	0.74
34:BA:735:C:H5'	51:BV:71:LYS:HD3	1.69	0.74
34:BA:894:G:O2'	34:BA:895:G:H5'	1.86	0.74
35:BF:173:ALA:HA	35:BF:176:GLU:HB2	1.67	0.74
35:BF:84:GLU:HG2	35:BF:234:PRO:CD	2.16	0.74
36:BG:83:ARG:O	36:BG:87:LEU:HG	1.87	0.74
39:BJ:6:VAL:HG12	39:BJ:63:TYR:O	1.87	0.74
39:BJ:76:ALA:CB	39:BJ:80:ARG:HH22	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:72:ARG:CZ	40:BK:142:GLU:OE1	2.35	0.74
42:BM:9:ARG:HD2	42:BM:14:VAL:CG2	2.15	0.74
43:BN:50:ILE:HA	43:BN:60:ARG:CG	2.11	0.74
51:BV:18:ARG:NH2	51:BV:21:LYS:HB2	2.02	0.74
57:BZ:10:ILE:HD12	57:BZ:21:LEU:CB	2.17	0.74
57:BZ:181:GLU:CD	57:BZ:183:MET:HG2	2.07	0.74
1:AA:1503:U:H2'	1:AA:1504:C:C5	2.21	0.74
55:BC:5:G:C6	55:BC:69:G:N1	2.54	0.74
31:AI:66:LEU:O	31:AI:70:GLU:N	2.19	0.74
1:AA:1080:C:C5'	32:AJ:128:ALA:CA	2.65	0.74
1:AA:1102:C:H3'	1:AA:1104:C:H5	1.52	0.74
1:AA:1275:A:N7	1:AA:1296:G:H1'	2.03	0.74
1:AA:1451:C:C4	1:AA:1454:U:OP1	2.39	0.74
1:AA:1638:C:H1'	1:AA:2698:U:O2'	1.85	0.74
1:AA:1664:A:C8	1:AA:1664:A:H3'	2.21	0.74
1:AA:2021:C:C2'	1:AA:2022:U:OP1	2.34	0.74
1:AA:201:C:H2'	1:AA:202:U:H5'	1.68	0.74
1:AA:600:G:N2	1:AA:604:G:H4'	2.01	0.74
1:AA:805:G:H2'	1:AA:806:C:OP1	1.86	0.74
1:AA:673:C:N4	1:AA:808:G:H1	1.85	0.74
5:AE:190:GLY:O	5:AE:191:PRO:O	2.05	0.74
6:AF:176:LEU:HD21	6:AF:180:GLY:O	1.87	0.74
7:AG:32:PRO:O	7:AG:172:LEU:HD22	1.87	0.74
7:AG:71:THR:O	7:AG:71:THR:HG22	1.86	0.74
1:AA:1036:G:OP1	8:AH:59:ARG:HD3	1.87	0.74
9:AK:16:ILE:N	9:AK:16:ILE:HD12	2.02	0.74
11:AM:116:GLY:HA3	11:AM:121:LYS:O	1.87	0.74
1:AA:1152:C:O2'	16:AR:80:ILE:HD12	1.88	0.74
17:AS:35:LEU:N	17:AS:61:VAL:HG13	2.01	0.74
17:AS:67:GLY:CA	17:AS:93:GLU:O	2.35	0.74
18:AT:77:ASP:O	18:AT:102:HIS:O	2.05	0.74
19:AU:36:LYS:HD3	19:AU:39:ILE:HD12	1.69	0.74
20:AV:46:LYS:HZ2	20:AV:46:LYS:HB3	1.51	0.74
20:AV:2:ARG:HH21	20:AV:4:LYS:CB	1.99	0.74
21:AW:127:LYS:HA	21:AW:164:ALA:H	1.51	0.74
22:AX:72:ARG:HB2	22:AX:78:TYR:CD1	2.22	0.74
24:AZ:54:VAL:CG2	24:AZ:55:ARG:N	2.49	0.74
34:BA:994:A:N1	34:BA:1047:G:H4'	2.02	0.74
34:BA:1068:G:N7	34:BA:1094:G:N7	2.36	0.74
34:BA:1236:A:H5''	34:BA:1304:G:H5''	1.70	0.74
34:BA:50:A:O2'	34:BA:52:G:N7	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:778:G:H2'	34:BA:779:C:H6	1.50	0.74
34:BA:898:G:H2'	34:BA:900:A:OP2	1.86	0.74
37:BH:147:ALA:HB1	37:BH:181:MET:O	1.86	0.74
41:BL:70:GLN:HE21	41:BL:71:GLY:N	1.84	0.74
34:BA:1316:G:H5''	47:BR:17:LYS:NZ	2.02	0.74
50:BU:33:GLY:O	50:BU:34:LYS:O	2.05	0.74
57:BZ:560:PRO:CG	57:BZ:562:ARG:HB2	2.16	0.74
57:BZ:73:VAL:HG21	57:BZ:88:VAL:CG1	2.14	0.74
55:BC:5:G:H2'	55:BC:6:G:H8	1.50	0.74
1:AA:487:C:O2'	18:AT:52:GLU:HB3	1.86	0.74
1:AA:1105:U:O3'	1:AA:1107:G:P	2.44	0.74
1:AA:1156:A:OP1	16:AR:55:ARG:NE	2.20	0.74
1:AA:1270:C:C4'	1:AA:1271:G:H5''	2.18	0.74
1:AA:1327:C:H3'	1:AA:1328:G:C8	2.21	0.74
1:AA:1349:A:C2	1:AA:1598:C:N3	2.54	0.74
1:AA:1407:C:H2'	1:AA:1408:C:H6	1.53	0.74
1:AA:141(A):C:H2'	1:AA:142:G:O4'	1.87	0.74
1:AA:1574:C:H2'	1:AA:1575:C:O4'	1.87	0.74
1:AA:1669:A:H2'	1:AA:1670:C:H5'	1.68	0.74
1:AA:1815:A:OP1	1:AA:1822:G:H4'	1.86	0.74
1:AA:1999:C:H2'	1:AA:2000:G:O5'	1.87	0.74
1:AA:2123:G:H1'	3:AC:215:THR:HG21	1.67	0.74
1:AA:2285:C:O4'	1:AA:2288:A:N6	2.20	0.74
1:AA:2491:U:C6	1:AA:2492:U:C5'	2.70	0.74
1:AA:2619:C:C5'	5:AE:152:LYS:HA	2.18	0.74
1:AA:2675:A:H2'	1:AA:2676:C:H5'	1.69	0.74
1:AA:656:G:H2'	1:AA:657:U:C6	2.22	0.74
4:AD:112:GLN:O	4:AD:115:GLN:HB3	1.86	0.74
5:AE:119:ARG:HG3	5:AE:156:MET:O	1.87	0.74
5:AE:2:LYS:HD3	5:AE:83:ASP:HB3	1.70	0.74
6:AF:194:MET:CE	6:AF:200:GLU:HG2	2.18	0.74
8:AH:85:LYS:NZ	8:AH:142:GLY:HA2	2.00	0.74
9:AK:13:TRP:O	9:AK:138:LEU:HB2	1.85	0.74
9:AK:34:LEU:HD21	9:AK:52:VAL:HG12	1.67	0.74
10:AL:63:VAL:CG2	10:AL:81:ASP:HA	2.17	0.74
12:AN:85:LYS:HG3	12:AN:87:LYS:N	2.02	0.74
12:AN:77:LYS:HE2	12:AN:87:LYS:HG3	1.66	0.74
14:AP:62:LYS:HB2	14:AP:65:VAL:HG13	1.69	0.74
14:AP:89:ARG:HG3	14:AP:90:GLY:N	2.02	0.74
9:AK:4:TYR:CD2	16:AR:100:VAL:HG11	2.22	0.74
16:AR:99:ALA:HA	16:AR:106:PHE:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:97:ARG:HA	20:AV:101:LYS:CG	2.18	0.74
21:AW:96:VAL:HG13	21:AW:128:VAL:HG22	1.68	0.74
21:AW:168:GLU:OE1	21:AW:169:GLU:HA	1.88	0.74
34:BA:1035:A:C2'	34:BA:1036:G:H5'	2.17	0.74
34:BA:1048:G:O4'	34:BA:1215:G:H4'	1.87	0.74
34:BA:1117:G:C4	34:BA:1184:G:N3	2.54	0.74
34:BA:1064:G:OP1	34:BA:1386:G:H4'	1.86	0.74
34:BA:1416:G:H2'	34:BA:1417:G:C8	2.21	0.74
34:BA:236:G:H3'	34:BA:237:C:H6	1.52	0.74
34:BA:90:C:O2'	34:BA:91:C:H5'	1.85	0.74
34:BA:936:C:O2'	34:BA:937:A:H5'	1.88	0.74
35:BF:119:GLU:HA	35:BF:142:LEU:HD13	1.67	0.74
35:BF:17:PHE:CD1	35:BF:18:GLY:N	2.54	0.74
37:BH:13:ARG:HG2	37:BH:32:ALA:HB2	1.68	0.74
40:BK:113:GLU:OE2	40:BK:119:ARG:HG3	1.86	0.74
34:BA:1240:U:C2'	40:BK:32:ARG:HH21	2.00	0.74
42:BM:116:LYS:HB3	42:BM:122:ALA:CA	2.16	0.74
43:BN:51:ARG:HB2	43:BN:59:SER:O	1.87	0.74
44:BO:110:ASP:OD1	51:BV:85:LEU:HB3	1.87	0.74
47:BR:27:CYS:O	47:BR:29:ARG:HG3	1.86	0.74
57:BZ:586:ARG:HH21	57:BZ:586:ARG:CB	2.00	0.74
57:BZ:300:LEU:HD12	57:BZ:300:LEU:N	2.01	0.74
1:AA:1020:A:C2	1:AA:1140:C:H2'	2.22	0.74
1:AA:1036:G:C2	1:AA:1120:G:C5	2.75	0.74
1:AA:1203:G:C4	1:AA:1241:A:H8	2.05	0.74
1:AA:1556:C:H2'	1:AA:1557:C:C6	2.21	0.74
1:AA:1789:A:H4'	4:AD:222:ARG:CZ	2.16	0.74
1:AA:1890:A:H3'	1:AA:1891:G:H8	1.51	0.74
1:AA:2210:G:O6	4:AD:150:LYS:HA	1.87	0.74
1:AA:2305:A:C5	7:AG:42:GLY:HA2	2.22	0.74
1:AA:2594:C:O2'	1:AA:2595:G:H5'	1.87	0.74
1:AA:270(Z):U:O2	1:AA:270(Z):U:H2'	1.85	0.74
1:AA:2718:G:H2'	1:AA:2719:G:C8	2.22	0.74
1:AA:322:A:C5'	1:AA:341:G:H5'	2.17	0.74
1:AA:399:G:C6	1:AA:400:G:H1'	2.21	0.74
1:AA:661:C:H5''	11:AM:15:ARG:NH1	2.01	0.74
1:AA:839:U:H2'	1:AA:840:C:C5	2.21	0.74
1:AA:861:A:C5	1:AA:917:A:C2	2.75	0.74
1:AA:989:G:O2'	1:AA:990:A:O5'	2.05	0.74
1:AA:997:G:OP2	1:AA:997:G:H8	1.69	0.74
5:AE:51:PHE:CD1	5:AE:76:ARG:HG2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:102:PHE:CE2	7:AG:106:LEU:HD12	2.22	0.74
8:AH:121:ILE:HA	8:AH:134:SER:O	1.86	0.74
8:AH:85:LYS:NZ	8:AH:141:VAL:HG12	2.02	0.74
8:AH:89:ILE:HD12	8:AH:90:LYS:H	1.51	0.74
9:AK:70:LYS:HA	9:AK:85:ILE:O	1.87	0.74
10:AL:116:SER:HB3	34:BA:345:C:O2	1.87	0.74
11:AM:16:ARG:HG2	11:AM:19:VAL:HG13	1.67	0.74
1:AA:1190:G:OP1	11:AM:31:ALA:N	2.20	0.74
1:AA:2723:C:H4'	13:AO:2:ARG:O	1.88	0.74
13:AO:64:ARG:HG2	13:AO:65:LEU:N	2.02	0.74
20:AV:88:LYS:HB3	20:AV:91:GLU:CD	2.08	0.74
22:AX:47:PRO:HG2	22:AX:53:MET:HB2	1.69	0.74
23:AY:58:VAL:HG22	23:AY:59:LEU:N	2.00	0.74
24:AZ:17:LYS:HA	24:AZ:20:LYS:NZ	2.02	0.74
24:AZ:30:ARG:N	24:AZ:30:ARG:HD2	2.01	0.74
34:BA:1104:G:O2'	34:BA:1105:A:H5'	1.86	0.74
34:BA:1116:C:N3	34:BA:1184:G:O6	2.21	0.74
34:BA:1293:G:H2'	34:BA:1294:G:C8	2.22	0.74
34:BA:475:G:C2'	34:BA:476:G:H8	2.00	0.74
34:BA:675:A:H2'	34:BA:676:A:C8	2.23	0.74
56:BE:41:C:H3'	56:BE:42:C:H5''	1.68	0.74
37:BH:31:CYS:O	37:BH:33:MET:HE3	1.87	0.74
39:BJ:14:LEU:HD12	39:BJ:15:ASP:H	1.50	0.74
39:BJ:35:ALA:O	39:BJ:36:ARG:HG3	1.86	0.74
39:BJ:77:ARG:HA	39:BJ:80:ARG:NE	2.03	0.74
41:BL:126:LYS:HD2	41:BL:127:LEU:N	2.02	0.74
41:BL:61:VAL:HG12	41:BL:62:TYR:N	2.02	0.74
42:BM:58:HIS:CD2	42:BM:59:PHE:CD1	2.75	0.74
42:BM:85:LEU:HD23	42:BM:96:LEU:CD1	2.15	0.74
49:BT:8:ARG:NH1	49:BT:11:SER:N	2.35	0.74
49:BT:20:VAL:CG1	49:BT:21:VAL:N	2.51	0.74
49:BT:3:LYS:CE	49:BT:24:ALA:HB2	2.17	0.74
49:BT:73:LEU:C	49:BT:73:LEU:HD13	2.07	0.74
50:BU:57:VAL:HB	50:BU:75:ARG:O	1.87	0.74
51:BV:53:ARG:HG2	51:BV:63:GLN:HE21	1.53	0.74
34:BA:958:A:C4	52:BW:56:GLN:NE2	2.55	0.74
57:BZ:236:GLN:CB	57:BZ:247:ARG:CA	2.63	0.74
55:BC:5:G:C6	55:BC:69:G:C6	2.76	0.74
1:AA:1416:G:N2	1:AA:1582:C:O2	2.20	0.74
1:AA:2797:U:H4'	1:AA:2798:C:H4'	1.69	0.74
1:AA:363(C):G:O2'	1:AA:363(D):G:H5'	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1081:U:H5''	32:AJ:125:ARG:CD	2.04	0.74
1:AA:1203:G:O6	1:AA:1240:U:H2'	1.86	0.74
1:AA:1435:G:N1	1:AA:1558:A:N6	2.36	0.74
1:AA:1537:C:H2'	1:AA:1538:G:H5'	1.68	0.74
1:AA:2121:G:C1'	3:AC:167:LYS:NZ	2.50	0.74
1:AA:2369:A:H2'	1:AA:2370:G:C8	2.21	0.74
1:AA:270(G):C:H2'	1:AA:270(H):C:C6	2.22	0.74
1:AA:326:G:H22	1:AA:337:C:H1'	1.50	0.74
1:AA:28:A:C1'	1:AA:513:A:N1	2.48	0.74
1:AA:684:G:C2'	1:AA:687:C:H41	1.98	0.74
1:AA:824:A:H2'	1:AA:825:C:C5	2.23	0.74
1:AA:915:C:H2'	1:AA:916:G:O4'	1.87	0.74
3:AC:6:ARG:HD2	3:AC:6:ARG:O	1.87	0.74
4:AD:138:VAL:HA	4:AD:165:ILE:CG2	2.18	0.74
4:AD:252:TRP:N	4:AD:255:LYS:HZ1	1.79	0.74
6:AF:122:LYS:CE	6:AF:192:LEU:HD12	2.16	0.74
7:AG:75:LYS:HD3	7:AG:85:GLY:H	1.52	0.74
1:AA:1059:G:H1'	32:AJ:75:SER:N	2.02	0.74
11:AM:93:GLY:HA2	11:AM:112:LEU:HD12	1.70	0.74
11:AM:13:ASN:ND2	11:AM:14:LYS:N	2.35	0.74
11:AM:99:LEU:HD13	11:AM:101:VAL:HG22	1.69	0.74
12:AN:37:LEU:HA	12:AN:100:GLY:CA	2.17	0.74
13:AO:45:ARG:CB	13:AO:95:THR:HG21	2.17	0.74
14:AP:95:HIS:CA	14:AP:99:LYS:HB2	2.17	0.74
15:AQ:95:ARG:NH2	15:AQ:96:ARG:NH2	2.35	0.74
16:AR:89:GLU:HG2	17:AS:52:VAL:CG2	2.06	0.74
17:AS:23:GLU:HB2	17:AS:92:THR:O	1.87	0.74
21:AW:49:ARG:O	21:AW:51:ALA:N	2.21	0.74
22:AX:56:ASP:OD1	22:AX:58:THR:HB	1.88	0.74
23:AY:56:LEU:N	23:AY:56:LEU:HD13	2.01	0.74
34:BA:10:A:O2'	34:BA:11:G:H5'	1.86	0.74
34:BA:281:G:H4'	34:BA:282:A:H5'	1.70	0.74
34:BA:66:G:H4'	34:BA:173:U:C4	2.21	0.74
34:BA:967:C:H2'	34:BA:968:A:N7	2.03	0.74
35:BF:139:LYS:HG3	35:BF:140:HIS:H	1.50	0.74
35:BF:69:LEU:O	35:BF:162:ILE:CA	2.34	0.74
35:BF:178:ARG:HH11	35:BF:178:ARG:HA	1.51	0.74
36:BG:83:ARG:O	36:BG:85:ARG:N	2.19	0.74
41:BL:119:LEU:HD22	41:BL:119:LEU:N	2.01	0.74
43:BN:60:ARG:H	43:BN:60:ARG:HD3	1.51	0.74
43:BN:22:LYS:NZ	43:BN:90:LEU:HD12	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:66:LEU:CA	46:BQ:70:LEU:HB2	2.17	0.74
34:BA:1202:G:C1'	47:BR:29:ARG:HE	1.99	0.74
53:BX:64:ASP:O	53:BX:67:ALA:HB3	1.88	0.74
57:BZ:205:PHE:CE1	57:BZ:226:ILE:CG2	2.70	0.74
57:BZ:419:LEU:HD12	57:BZ:441:TYR:CD1	2.23	0.74
57:BZ:464:LEU:N	57:BZ:464:LEU:HD13	2.03	0.74
57:BZ:563:MET:CB	57:BZ:564:THR:HA	2.16	0.74
57:BZ:502:PHE:CE1	57:BZ:557:LEU:HB3	2.23	0.74
56:BD:67:C:C5	56:BD:68:C:C6	2.75	0.74
43:BN:3:LYS:HE3	43:BN:77:PRO:HD3	1.70	0.74
1:AA:1275:A:H2	13:AO:16:HIS:CA	1.96	0.74
1:AA:1394:U:H4'	1:AA:1603:A:C5'	2.18	0.74
1:AA:1566:A:C4	4:AD:215:LEU:HD22	2.22	0.74
1:AA:49:A:N6	1:AA:176:G:C6	2.55	0.74
1:AA:2209:C:H2'	1:AA:2210:G:H3'	1.68	0.74
1:AA:2278:A:H62	22:AX:14:ARG:HB3	1.51	0.74
1:AA:2447:G:O6	1:AA:2452:C:N4	2.20	0.74
1:AA:2597:G:O4'	4:AD:242:ARG:NH2	2.19	0.74
1:AA:2833:G:H2'	1:AA:2833:G:N3	2.02	0.74
1:AA:386:G:H4'	1:AA:387:U:C5	2.23	0.74
1:AA:39:C:H2'	1:AA:40:C:H6	1.50	0.74
1:AA:465:G:H21	1:AA:683:C:H2'	1.53	0.74
1:AA:556:G:H2'	1:AA:557:U:C6	2.23	0.74
1:AA:603:A:H61	1:AA:624:C:N4	1.86	0.74
1:AA:632:A:H2'	1:AA:633:A:C8	2.22	0.74
1:AA:6:A:C2	1:AA:2897:U:N1	2.55	0.74
1:AA:817:C:H2'	1:AA:818:G:O4'	1.87	0.74
1:AA:81:G:H4'	1:AA:294:A:C2	2.23	0.74
2:AB:87:G:H8	2:AB:87:G:OP2	1.68	0.74
1:AA:2124:G:N7	3:AC:217:THR:HA	2.02	0.74
1:AA:1820:U:N1	4:AD:202:LYS:HG2	2.03	0.74
4:AD:87:ASN:O	4:AD:88:ARG:HB2	1.87	0.74
1:AA:2512:C:H5''	5:AE:120:TRP:CZ2	2.22	0.74
5:AE:113:PHE:HA	5:AE:158:GLY:C	2.08	0.74
5:AE:102:VAL:HA	5:AE:200:GLU:OE1	1.88	0.74
5:AE:4:ILE:CG2	5:AE:30:PRO:HG3	2.18	0.74
6:AF:176:LEU:CG	6:AF:178:PRO:HD2	2.17	0.74
6:AF:41:LEU:HB2	6:AF:44:ARG:NH1	2.02	0.74
7:AG:119:GLY:C	7:AG:120:LEU:HD23	2.08	0.74
7:AG:94:LEU:HG	7:AG:98:ARG:NH1	2.02	0.74
32:AJ:11:GLN:HA	32:AJ:56:GLU:CB	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:63:VAL:HG23	10:AL:81:ASP:HA	1.68	0.74
12:AN:39:PRO:CG	12:AN:127:ILE:HG12	2.17	0.74
14:AP:69:VAL:O	14:AP:72:ALA:HB3	1.88	0.74
15:AQ:67:SER:OG	15:AQ:75:ILE:HG23	1.87	0.74
20:AV:46:LYS:NZ	20:AV:46:LYS:HB3	2.01	0.74
12:AN:137:TYR:CE2	21:AW:124:ILE:HD11	2.23	0.74
21:AW:4:ARG:HH22	21:AW:88:PHE:HE1	1.33	0.74
1:AA:2602:A:O2'	22:AX:1:MET:O	2.03	0.74
23:AY:14:VAL:O	23:AY:17:GLU:HB2	1.88	0.74
23:AY:20:VAL:CA	23:AY:55:LEU:HD23	2.17	0.74
34:BA:1056:U:O2	36:BG:195:VAL:HG23	1.87	0.74
34:BA:1162:C:H2'	34:BA:1163:C:H6	1.49	0.74
34:BA:1479:C:O2'	34:BA:1480:G:H5'	1.87	0.74
34:BA:730:G:N7	34:BA:731:G:H1'	2.03	0.74
34:BA:965:A:C8	34:BA:969:A:C4	2.75	0.74
34:BA:959:A:H1'	34:BA:985:C:H1'	1.70	0.74
35:BF:56:ARG:CB	35:BF:56:ARG:HH11	2.00	0.74
38:BI:17:ALA:HA	38:BI:26:PHE:HB3	1.67	0.74
41:BL:92:ARG:HG2	41:BL:92:ARG:HH11	1.51	0.74
44:BO:121:PRO:O	44:BO:126:ARG:HD2	1.88	0.74
52:BW:22:LEU:O	52:BW:22:LEU:HD23	1.87	0.74
57:BZ:122:LYS:NZ	57:BZ:153:ALA:HB1	2.02	0.74
57:BZ:549:SER:CB	57:BZ:550:GLY:HA2	2.17	0.74
57:BZ:560:PRO:HB3	57:BZ:562:ARG:CB	2.14	0.74
46:BQ:48:LEU:HD22	46:BQ:53:VAL:HG23	1.70	0.74
1:AA:1057:A:C8	1:AA:1084:A:N6	2.56	0.74
1:AA:1158:C:H4'	24:AZ:32:GLN:NE2	2.02	0.74
1:AA:1707:G:H2'	1:AA:1708:C:C6	2.22	0.74
1:AA:1825:A:N6	1:AA:1826:G:O6	2.20	0.74
1:AA:219:G:H8	1:AA:219:G:O5'	1.68	0.74
1:AA:239:U:H2'	1:AA:240:G:O4'	1.88	0.74
1:AA:2687:U:O2	1:AA:2688:U:H6	1.71	0.74
1:AA:2716:U:O2'	1:AA:2717:G:H5'	1.87	0.74
1:AA:559:G:C2'	1:AA:560:C:C6	2.66	0.74
1:AA:572:A:H2	1:AA:2033:A:N1	1.86	0.74
1:AA:59:U:O4'	1:AA:73:A:C2	2.39	0.74
1:AA:643:A:H1'	1:AA:644:A:N7	2.02	0.74
3:AC:34:THR:O	3:AC:34:THR:HG22	1.88	0.74
3:AC:71:GLN:CD	3:AC:72:VAL:HG23	2.07	0.74
4:AD:81:ALA:HA	4:AD:113:VAL:HG22	1.68	0.74
4:AD:72:LYS:HD3	4:AD:75:ILE:HD12	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:197:ILE:HD13	5:AE:199:ARG:HH21	1.52	0.74
5:AE:51:PHE:CZ	5:AE:75:VAL:HG22	2.22	0.74
6:AF:37:VAL:HG12	6:AF:41:LEU:HD23	1.68	0.74
7:AG:124:SER:O	7:AG:132:ASN:HB3	1.87	0.74
7:AG:125:PHE:HA	7:AG:132:ASN:HB3	1.70	0.74
7:AG:28:VAL:O	7:AG:28:VAL:HG12	1.87	0.74
8:AH:140:LYS:HA	8:AH:143:GLN:NE2	2.03	0.74
12:AN:54:MET:SD	12:AN:121:ALA:HB2	2.27	0.74
12:AN:50:ALA:HB2	12:AN:125:LEU:HD11	1.70	0.74
16:AR:98:LEU:HB3	16:AR:105:VAL:HG11	1.68	0.74
18:AT:18:ARG:HB2	18:AT:18:ARG:HH21	1.52	0.74
23:AY:52:ILE:CA	23:AY:55:LEU:HD22	2.14	0.74
34:BA:1057:G:H2'	34:BA:1058:G:H8	1.51	0.74
34:BA:1311:G:C4	34:BA:1327:C:C1'	2.71	0.74
34:BA:272:C:H2'	34:BA:273:A:C8	2.23	0.74
34:BA:274:A:O2'	34:BA:275:G:C1'	2.35	0.74
34:BA:438:G:N2	34:BA:495:A:H8	1.86	0.74
35:BF:115:LEU:O	35:BF:118:LEU:HB3	1.88	0.74
40:BK:38:LEU:O	40:BK:41:ARG:HB2	1.87	0.74
42:BM:96:LEU:O	42:BM:100:GLY:HA3	1.88	0.74
44:BO:19:ALA:HB2	44:BO:80:VAL:HG21	1.68	0.74
34:BA:1047:G:H5"	47:BR:4:LYS:HD3	1.70	0.74
49:BT:35:LYS:NZ	49:BT:37:GLY:N	2.36	0.74
53:BX:87:LYS:CE	53:BX:87:LYS:HA	2.18	0.74
57:BZ:124:ILE:HD13	57:BZ:161:ALA:HB2	1.68	0.74
57:BZ:405:LEU:HD11	57:BZ:464:LEU:N	1.22	0.74
57:BZ:4:LYS:O	57:BZ:68:TYR:CD1	2.40	0.74
57:BZ:547:ARG:HD3	57:BZ:548:ALA:HB2	1.60	0.74
49:BT:44:THR:HG23	49:BT:45:THR:HG23	1.70	0.74
55:BC:27:G:H2'	55:BC:28:G:H8	1.53	0.74
1:AA:1072:C:H2'	1:AA:1093:G:C5	2.22	0.74
1:AA:1163:G:C2	1:AA:1164:G:C8	2.76	0.74
1:AA:1197:G:C5	1:AA:1198:U:C5	2.76	0.74
1:AA:1670:C:P	1:AA:1671:U:H5	2.10	0.74
1:AA:1943:U:H4'	1:AA:1944:U:C5'	2.18	0.74
1:AA:2121:G:H2'	1:AA:2122:U:C6	2.23	0.74
1:AA:244:A:N6	1:AA:245:G:N3	2.36	0.74
1:AA:2586:C:H2'	1:AA:2587:A:C8	2.23	0.74
1:AA:2676:C:H2'	1:AA:2677:G:C8	2.21	0.74
1:AA:2809:A:H3'	1:AA:2809:A:OP1	1.87	0.74
1:AA:5:A:C2	1:AA:2899:G:C5	2.74	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:531:C:N3	16:AR:38:THR:HG22	2.03	0.74
1:AA:630:G:H2'	1:AA:632:A:OP2	1.88	0.74
1:AA:697:C:C2'	1:AA:698:C:H5''	2.17	0.74
1:AA:727:A:H2'	1:AA:728:G:H5'	1.69	0.74
1:AA:84:A:O2'	1:AA:103:A:N1	2.20	0.74
1:AA:875:G:N2	1:AA:902:C:C1'	2.51	0.74
3:AC:43:VAL:HG12	3:AC:213:TYR:O	1.85	0.74
3:AC:42:GLU:C	3:AC:215:THR:N	2.41	0.74
4:AD:134:ARG:HG2	4:AD:187:GLY:C	2.08	0.74
5:AE:93:VAL:HG12	5:AE:177:PRO:O	1.88	0.74
7:AG:116:ASP:HB3	7:AG:118:ARG:NH2	2.01	0.74
8:AH:94:TYR:H	8:AH:95:ARG:HH21	1.36	0.74
32:AJ:59:ILE:N	32:AJ:59:ILE:HD13	2.03	0.74
10:AL:18:LYS:HB3	10:AL:45:GLU:CG	2.14	0.74
10:AL:25:LEU:CB	10:AL:38:VAL:O	2.28	0.74
10:AL:94:ARG:CG	10:AL:96:THR:H	2.01	0.74
12:AN:42:ILE:O	12:AN:94:VAL:HB	1.87	0.74
14:AP:9:ARG:HA	14:AP:12:PHE:CE2	2.22	0.74
15:AQ:19:LEU:O	15:AQ:20:PRO:C	2.26	0.74
1:AA:997:G:H5''	16:AR:92:ARG:HD2	1.70	0.74
18:AT:59:VAL:HA	18:AT:63:ASP:CA	2.13	0.74
19:AU:63:LYS:HA	19:AU:63:LYS:NZ	2.03	0.74
21:AW:6:LYS:HD2	21:AW:35:ARG:HD3	1.70	0.74
23:AY:14:VAL:HA	23:AY:17:GLU:CD	2.07	0.74
23:AY:20:VAL:CB	23:AY:55:LEU:HD23	2.18	0.74
34:BA:1110:A:H2'	34:BA:1111:A:C5'	2.16	0.74
34:BA:1128:C:H1'	34:BA:1146:A:N6	2.02	0.74
34:BA:112:G:C5'	34:BA:389:A:H4'	2.16	0.74
34:BA:1144:G:N2	34:BA:1146:A:H62	1.84	0.74
34:BA:1239:A:H1'	34:BA:1241:G:C8	2.22	0.74
34:BA:1245:A:H2'	34:BA:1246:C:H6	1.47	0.74
34:BA:1364:U:O2'	34:BA:1365:G:OP1	2.06	0.74
34:BA:301:G:N2	34:BA:302:G:H1'	2.02	0.74
34:BA:754:C:H2'	34:BA:755:G:OP1	1.87	0.74
35:BF:15:VAL:HG23	35:BF:16:HIS:ND1	2.03	0.74
36:BG:130:VAL:O	36:BG:133:ALA:HB3	1.86	0.74
36:BG:152:ILE:HG22	36:BG:167:TRP:HB2	1.70	0.74
37:BH:18:LYS:CG	37:BH:33:MET:HB3	2.16	0.74
34:BA:923:A:OP1	38:BI:21:ALA:HB2	1.88	0.74
38:BI:81:GLU:HB3	38:BI:90:VAL:HG22	1.70	0.74
41:BL:11:THR:HA	41:BL:14:ARG:NH1	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:65:LYS:CG	46:BQ:69:GLU:HB3	2.18	0.74
51:BV:29:PHE:CE2	51:BV:39:VAL:HG11	2.23	0.74
57:BZ:180:ALA:HB3	57:BZ:181:GLU:CB	2.18	0.74
57:BZ:213:ASP:OD1	57:BZ:221:ILE:HB	1.87	0.74
57:BZ:400:TYR:CZ	57:BZ:444:PRO:CG	2.70	0.74
57:BZ:427:LYS:CG	57:BZ:442:VAL:HG21	2.17	0.74
46:BQ:48:LEU:HD22	46:BQ:53:VAL:HG22	1.70	0.74
56:BD:27:G:H21	56:BD:43:C:H5	1.36	0.74
55:BC:14:A:H3'	55:BC:15:G:C8	2.23	0.74
1:AA:1534:G:N2	1:AA:1537:C:H5	1.85	0.74
1:AA:172:C:C4	1:AA:173:G:N7	2.56	0.74
1:AA:1924:C:H2'	1:AA:1925:C:C6	2.23	0.74
1:AA:2054:A:H62	1:AA:2577:A:H61	1.36	0.74
1:AA:2016:U:H5''	1:AA:2058:A:OP1	1.87	0.74
1:AA:2122:U:H4'	3:AC:166:ASP:CG	2.03	0.74
1:AA:2227:A:H2'	1:AA:2228:G:O4'	1.86	0.74
1:AA:2357:U:H2'	1:AA:2358:G:C5'	2.18	0.74
1:AA:2497:A:O2'	1:AA:2498:C:O5'	2.06	0.74
1:AA:2506:U:H6	59:AA:3002:8AN:N3'	1.82	0.74
1:AA:2562:U:H1'	10:AL:23:ARG:HH21	1.51	0.74
1:AA:220:G:N2	1:AA:265:A:H61	1.85	0.74
1:AA:1049:C:H5	1:AA:2751:G:O6	1.68	0.74
1:AA:456:C:C5	19:AU:68:ARG:NH1	2.55	0.74
2:AB:25:A:H2'	2:AB:26:A:C8	2.23	0.74
3:AC:43:VAL:CG2	3:AC:224:ILE:HG21	2.18	0.74
4:AD:133:LEU:HB2	4:AD:187:GLY:HA2	1.69	0.74
4:AD:63:ARG:HH11	4:AD:87:ASN:HD21	1.35	0.74
4:AD:95:LEU:C	4:AD:95:LEU:HD13	2.06	0.74
5:AE:182:LEU:CD2	5:AE:184:VAL:HG13	2.18	0.74
32:AJ:104:VAL:HG11	32:AJ:127:ILE:CB	2.17	0.74
9:AK:13:TRP:O	9:AK:138:LEU:HD12	1.87	0.74
10:AL:18:LYS:HZ1	10:AL:44:LYS:HZ2	1.32	0.74
11:AM:79:ARG:O	11:AM:83:VAL:HG13	1.88	0.74
11:AM:91:PHE:H	11:AM:125:VAL:CG1	2.01	0.74
15:AQ:17:THR:HB	15:AQ:20:PRO:CD	2.18	0.74
20:AV:86:ARG:HG2	20:AV:91:GLU:CB	2.18	0.74
34:BA:110:C:O2'	34:BA:111:G:H5'	1.88	0.74
34:BA:1148:U:O2	34:BA:1148:U:H2'	1.87	0.74
34:BA:116:A:OP2	34:BA:289:G:H5''	1.88	0.74
34:BA:1318:A:O3'	52:BW:12:ASP:OD1	1.96	0.74
34:BA:1441:G:C2	34:BA:1460:A:N6	2.54	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:410:G:H1'	34:BA:432:A:N6	2.02	0.74
34:BA:49:U:C2	34:BA:364:A:N6	2.48	0.74
34:BA:854:G:C5'	34:BA:871:U:H3	2.01	0.74
34:BA:894:G:C4	34:BA:895:G:C8	2.76	0.74
34:BA:948:C:P	46:BQ:109:THR:OG1	2.46	0.74
35:BF:74:LYS:NZ	35:BF:76:GLN:HB2	2.03	0.74
39:BJ:26:ILE:HG22	39:BJ:30:LEU:HD11	1.70	0.74
39:BJ:8:ILE:HG22	39:BJ:88:VAL:HA	1.70	0.74
40:BK:62:PHE:HA	40:BK:124:LEU:HD21	1.68	0.74
41:BL:122:ARG:HA	41:BL:125:ARG:NH1	2.03	0.74
41:BL:55:GLY:O	41:BL:57:PRO:HD3	1.88	0.74
34:BA:1125:U:H5'	43:BN:38:ILE:HD13	1.58	0.74
44:BO:104:GLN:HE22	44:BO:106:LYS:H	1.31	0.74
45:BP:85:ILE:CD1	45:BP:99:HIS:N	2.50	0.74
34:BA:728:A:C8	48:BS:54:ARG:CZ	2.71	0.74
48:BS:5:LYS:NZ	48:BS:5:LYS:HB2	2.03	0.74
34:BA:761:G:C4'	50:BU:103:GLY:H	2.00	0.74
57:BZ:253:LYS:NZ	57:BZ:269:GLU:HB3	2.03	0.74
57:BZ:419:LEU:HD12	57:BZ:441:TYR:CG	2.23	0.74
57:BZ:397:GLN:CD	57:BZ:472:TYR:O	2.25	0.74
57:BZ:80:ASP:N	57:BZ:82:GLY:H	1.86	0.74
56:BD:50:U:C4	56:BD:65:G:C2	2.75	0.74
20:AV:42:VAL:CG2	20:AV:61:ILE:HG21	2.18	0.74
1:AA:1476:C:C5	1:AA:1477:A:N6	2.56	0.74
1:AA:1513:C:N3	1:AA:1514:U:O4	2.20	0.74
1:AA:1706:U:O2	1:AA:1706:U:H2'	1.86	0.74
1:AA:1712:C:H2'	1:AA:1716:U:H6	1.53	0.74
1:AA:1716:U:C2'	1:AA:1716:U:O2	2.36	0.74
1:AA:752:A:N6	1:AA:1781:C:C1'	2.51	0.74
1:AA:1931:U:O2'	1:AA:1932:A:H5'	1.86	0.74
1:AA:1987:G:C2	1:AA:1988:C:C5	2.76	0.74
1:AA:2123:G:H1'	3:AC:215:THR:CG2	2.18	0.74
1:AA:2135:A:C4'	1:AA:2136:C:H5	2.01	0.74
1:AA:2520:C:C5	1:AA:2567:G:C4	2.76	0.74
1:AA:2619:C:H5''	5:AE:152:LYS:HB2	1.69	0.74
1:AA:2853:C:H2'	1:AA:2854:G:H8	1.53	0.74
2:AB:9:G:H2'	2:AB:9:G:N3	2.01	0.74
3:AC:40:THR:C	3:AC:216:THR:CG2	2.55	0.74
3:AC:59:ARG:HH11	3:AC:164:ARG:HG2	1.52	0.74
3:AC:66:HIS:H	3:AC:158:ALA:C	1.85	0.74
4:AD:176:ARG:NH2	4:AD:182:LEU:HD11	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:60:ARG:HA	4:AD:62:TYR:CZ	2.23	0.74
5:AE:121:ASN:HB3	5:AE:122:PHE:CD1	2.22	0.74
5:AE:81:ILE:HG22	5:AE:82:ARG:HG2	1.70	0.74
7:AG:40:ASN:HD22	7:AG:41:GLN:H	1.36	0.74
7:AG:75:LYS:CD	7:AG:85:GLY:H	2.00	0.74
8:AH:118:PRO:HD2	8:AH:121:ILE:CD1	2.18	0.74
10:AL:39:ILE:O	10:AL:59:LYS:NZ	2.21	0.74
13:AO:45:ARG:HG2	13:AO:46:GLY:N	2.02	0.74
13:AO:74:LYS:HB2	13:AO:74:LYS:NZ	2.01	0.74
14:AP:28:VAL:HG22	14:AP:29:PHE:N	2.01	0.74
14:AP:52:SER:HB3	14:AP:69:VAL:HG13	1.70	0.74
16:AR:110:VAL:HG12	16:AR:111:GLU:N	2.03	0.74
16:AR:94:ASN:HD22	17:AS:6:LYS:CE	2.00	0.74
17:AS:91:TYR:O	17:AS:92:THR:HB	1.87	0.74
20:AV:1:MET:H1	20:AV:33:LYS:HE3	1.51	0.74
24:AZ:31:LEU:HB3	24:AZ:32:GLN:NE2	2.02	0.74
34:BA:1346:A:N6	34:BA:1374:A:H3'	2.03	0.74
34:BA:335:C:O2'	34:BA:1433:A:N3	2.21	0.74
34:BA:1512:U:H2'	34:BA:1513:A:C8	2.23	0.74
34:BA:275:G:H5'	50:BU:14:LYS:HZ3	1.51	0.74
34:BA:479:C:H6	34:BA:479:C:O5'	1.71	0.74
34:BA:886:G:C2'	34:BA:887:G:H5'	2.18	0.74
34:BA:915:A:H2'	34:BA:916:G:C5'	2.17	0.74
35:BF:101:MET:CA	35:BF:108:ILE:HG13	2.18	0.74
39:BJ:73:ASN:O	39:BJ:76:ALA:HB3	1.88	0.74
40:BK:149:ARG:HB3	44:BO:59:TYR:CZ	2.23	0.74
41:BL:29:SER:N	41:BL:32:LYS:HD2	2.03	0.74
44:BO:48:ILE:HD11	44:BO:64:ALA:HB2	1.67	0.74
44:BO:95:ILE:HG23	44:BO:98:LEU:HD12	1.70	0.74
45:BP:24:VAL:CG2	45:BP:97:ARG:HG2	2.17	0.74
50:BU:40:LYS:HB3	50:BU:40:LYS:NZ	2.01	0.74
50:BU:7:THR:CG2	50:BU:8:GLY:N	2.50	0.74
51:BV:86:VAL:O	51:BV:87:ARG:HB2	1.88	0.74
52:BW:32:LYS:CB	52:BW:50:ALA:HB3	2.17	0.74
57:BZ:488:LEU:HD21	57:BZ:527:HIS:N	2.03	0.74
56:BD:47:U:C2'	56:BD:48:C:H5''	2.18	0.74
1:AA:1077:A:N6	1:AA:1088:A:H4'	2.02	0.73
1:AA:1128:A:N6	1:AA:2518:A:N6	2.14	0.73
1:AA:1206:G:C3'	1:AA:1206:G:C8	2.70	0.73
1:AA:1602:U:O5'	1:AA:1602:U:C2	2.41	0.73
1:AA:1775:U:C2	4:AD:208:LYS:HD2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2132:U:H5''	1:AA:2133:G:H5'	1.69	0.73
1:AA:2177:C:O2'	3:AC:211:SER:OG	2.05	0.73
1:AA:2246:G:N2	1:AA:2247:A:C4	2.55	0.73
1:AA:2305:A:C2'	1:AA:2306:C:H5''	2.18	0.73
1:AA:270(C):C:O2'	1:AA:270(D):C:H5'	1.88	0.73
1:AA:2746:U:O4	1:AA:2756:U:C4	2.40	0.73
1:AA:2900:A:H2'	1:AA:2901:C:H6	1.54	0.73
1:AA:455:C:C4'	1:AA:456:C:OP1	2.36	0.73
1:AA:546:C:H2'	1:AA:547:A:N9	2.03	0.73
1:AA:792:G:H21	1:AA:2072:G:H1'	1.53	0.73
2:AB:100:G:H2'	2:AB:101:A:H8	1.49	0.73
2:AB:78:A:C2'	2:AB:79:C:H5'	2.18	0.73
3:AC:46:LYS:O	3:AC:210:ARG:CB	2.33	0.73
3:AC:53:ARG:O	3:AC:55:ASP:N	2.21	0.73
7:AG:32:PRO:HG2	7:AG:172:LEU:HB2	1.70	0.73
7:AG:96:ARG:HD3	7:AG:97:ASP:OD1	1.87	0.73
1:AA:1055:G:H4'	31:AI:33:PRO:HA	1.70	0.73
1:AA:1080:C:C5'	32:AJ:128:ALA:C	2.56	0.73
1:AA:1080:C:C1'	32:AJ:129:GLY:N	2.51	0.73
32:AJ:40:ALA:CB	32:AJ:66:THR:HG1	1.77	0.73
11:AM:74:GLU:CA	11:AM:107:LYS:HD3	2.17	0.73
20:AV:1:MET:CA	20:AV:33:LYS:HE3	2.17	0.73
34:BA:1413:A:H2	34:BA:1487:G:H21	1.32	0.73
34:BA:17:U:H2'	34:BA:18:C:H6	1.53	0.73
35:BF:84:GLU:OE2	35:BF:219:VAL:HG21	1.87	0.73
36:BG:88:ARG:HB2	36:BG:101:LEU:HB2	1.67	0.73
36:BG:125:GLU:OE1	36:BG:190:ARG:HB2	1.87	0.73
34:BA:9:G:OP2	38:BI:121:LYS:HD2	1.86	0.73
38:BI:79:GLU:H	38:BI:79:GLU:CD	1.88	0.73
38:BI:80:ILE:O	38:BI:90:VAL:HA	1.88	0.73
40:BK:74:GLU:HG2	40:BK:75:VAL:N	2.02	0.73
42:BM:115:GLY:O	42:BM:117:HIS:N	2.21	0.73
44:BO:18:ARG:HD3	44:BO:34:ASP:O	1.87	0.73
44:BO:32:ILE:HD11	44:BO:68:ALA:O	1.88	0.73
49:BT:67:THR:HB	49:BT:70:ALA:HB2	1.68	0.73
52:BW:45:VAL:HA	52:BW:67:VAL:HG21	1.70	0.73
57:BZ:82:GLY:HA3	57:BZ:361:ARG:HB3	1.67	0.73
56:BD:67:C:H5	56:BD:68:C:C5	1.76	0.73
1:AA:1583:A:C5'	1:AA:1585:C:H5'	2.18	0.73
57:BZ:364:LEU:O	57:BZ:367:SER:OG	2.01	0.73
1:AA:1316:U:O2'	1:AA:1317:A:H5'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1406:U:O2'	1:AA:1407:C:O5'	2.02	0.73
1:AA:1774:C:C4	4:AD:18:VAL:HG11	2.23	0.73
1:AA:1839:G:C8	1:AA:1927:A:O4'	2.41	0.73
1:AA:2122:U:O4'	3:AC:166:ASP:CG	2.26	0.73
1:AA:2162:G:C2'	1:AA:2163:C:H5'	2.18	0.73
1:AA:248:G:N3	1:AA:2431:U:C5'	2.51	0.73
1:AA:2619:C:O2'	1:AA:2620:C:H5'	1.86	0.73
1:AA:2684:U:O2'	10:AL:67:LYS:HG3	1.88	0.73
1:AA:2776:A:H4'	1:AA:2777:G:O5'	1.88	0.73
1:AA:351:G:C1'	1:AA:352:G:N7	2.51	0.73
1:AA:618:G:H2'	1:AA:618(A):C:C6	2.22	0.73
1:AA:878:A:C4	1:AA:898:C:N4	2.56	0.73
4:AD:117:VAL:HG13	4:AD:129:ASN:CG	2.08	0.73
6:AF:123:LEU:HD12	6:AF:193:VAL:CG2	2.18	0.73
6:AF:188:ARG:HG2	6:AF:188:ARG:HH21	1.52	0.73
8:AH:87:LEU:H	8:AH:132:ARG:HB3	1.52	0.73
32:AJ:19:PRO:CD	32:AJ:38:VAL:H	1.94	0.73
9:AK:42:TRP:CZ3	16:AR:67:ALA:HB1	2.22	0.73
9:AK:58:ASP:CG	9:AK:59:LYS:HG3	2.08	0.73
10:AL:59:LYS:HA	10:AL:86:ILE:CD1	2.15	0.73
12:AN:89:ASN:N	12:AN:89:ASN:HD22	1.85	0.73
1:AA:2820:A:O3'	13:AO:4:LEU:HD22	1.87	0.73
14:AP:39:ILE:C	14:AP:40:ILE:HD12	2.09	0.73
15:AQ:17:THR:CB	15:AQ:20:PRO:HD3	2.17	0.73
21:AW:161:VAL:HG12	21:AW:162:GLU:N	2.03	0.73
21:AW:77:ASP:OD2	21:AW:80:ARG:HD3	1.88	0.73
34:BA:1321:C:O5'	34:BA:1321:C:H6	1.71	0.73
34:BA:1394:A:N7	34:BA:1501:C:C1'	2.51	0.73
34:BA:186(A):C:H2'	34:BA:186(B):C:O4'	1.87	0.73
34:BA:1158:C:HO2'	35:BF:133:LYS:HZ2	0.86	0.73
35:BF:42:ILE:HD11	35:BF:202:PRO:CB	2.17	0.73
36:BG:120:VAL:HG21	36:BG:137:ALA:CB	2.18	0.73
38:BI:82:VAL:HG21	38:BI:137:GLU:HB3	1.70	0.73
39:BJ:95:GLU:OE2	39:BJ:96:PRO:HD3	1.88	0.73
40:BK:51:GLN:OE1	40:BK:58:PRO:HD3	1.88	0.73
41:BL:104:ARG:O	41:BL:106:GLY:N	2.20	0.73
44:BO:67:ASP:O	44:BO:71:LYS:HG2	1.86	0.73
34:BA:528:C:N4	45:BP:49:ASN:ND2	2.35	0.73
47:BR:40:CYS:N	47:BR:43:CYS:SG	2.59	0.73
34:BA:582:U:H5"	48:BS:68:ARG:HH12	1.52	0.73
53:BX:23:ARG:O	53:BX:26:ASN:ND2	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:157:GLN:O	57:BZ:159:ASP:HB3	1.87	0.73
57:BZ:373:MET:HE1	57:BZ:380:LEU:CD2	2.16	0.73
57:BZ:565:LEU:O	57:BZ:569:LEU:HB2	1.87	0.73
57:BZ:564:THR:CB	57:BZ:566:GLU:HG3	2.18	0.73
57:BZ:167:ALA:CB	60:BZ:701:GCP:N1	2.49	0.73
1:AA:2795:G:N3	1:AA:2795:G:H2'	2.02	0.73
1:AA:1453:A:C6	1:AA:1454:U:H1'	2.23	0.73
1:AA:1471:A:H2'	1:AA:1472:A:H5'	1.69	0.73
1:AA:1464:C:H4'	1:AA:1528:A:H1'	1.70	0.73
1:AA:1530:G:H2'	1:AA:1531:C:N1	2.03	0.73
1:AA:1729:A:N7	1:AA:1731:G:O6	2.21	0.73
1:AA:1772:G:H21	1:AA:1774:C:H5'	1.52	0.73
1:AA:1798:U:C5'	4:AD:257:LEU:HB2	2.18	0.73
1:AA:2097:C:O2'	1:AA:2098:U:H5'	1.88	0.73
1:AA:2745:C:O2'	8:AH:143:GLN:HG3	1.88	0.73
1:AA:534:U:O2'	16:AR:49:HIS:NE2	2.21	0.73
1:AA:624:C:C6	1:AA:624:C:C3'	2.71	0.73
1:AA:672:C:H2'	1:AA:673:C:H6	1.53	0.73
1:AA:775:G:H5'	1:AA:777:A:C1'	2.18	0.73
1:AA:836:G:C6	1:AA:837:C:N4	2.56	0.73
1:AA:856:C:H1'	22:AX:69:PHE:CE1	2.23	0.73
1:AA:893:C:C4	1:AA:894:C:C5	2.76	0.73
3:AC:161:ILE:HG21	3:AC:188:ASN:HD22	1.52	0.73
4:AD:159:ALA:O	4:AD:196:VAL:HG11	1.87	0.73
6:AF:158:THR:CG2	6:AF:195:ASP:HB2	2.16	0.73
7:AG:125:PHE:O	7:AG:126:ASP:HB3	1.87	0.73
7:AG:88:ILE:O	7:AG:88:ILE:HG22	1.88	0.73
32:AJ:27:LEU:HD21	32:AJ:57:ILE:CA	2.18	0.73
32:AJ:34:ILE:CD1	32:AJ:35:MET:H	2.00	0.73
32:AJ:51:ALA:HB3	32:AJ:72:PRO:CB	2.18	0.73
9:AK:95:PRO:HA	9:AK:98:VAL:HG23	1.70	0.73
16:AR:94:ASN:HD22	17:AS:6:LYS:HE3	1.51	0.73
18:AT:82:LEU:CD1	18:AT:84:ARG:HG3	2.18	0.73
19:AU:12:VAL:O	19:AU:12:VAL:HG12	1.86	0.73
20:AV:84:ARG:C	20:AV:84:ARG:HD2	2.08	0.73
20:AV:81:LYS:HD3	20:AV:96:ILE:HG13	1.70	0.73
21:AW:4:ARG:CG	21:AW:5:LEU:H	1.98	0.73
34:BA:1151:A:H62	34:BA:1152:A:N6	1.85	0.73
34:BA:1296:C:OP1	46:BQ:44:ARG:CD	2.30	0.73
34:BA:1308:U:H3'	34:BA:1309:G:OP1	1.85	0.73
34:BA:1443:G:N3	34:BA:1443:G:H2'	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1504:G:H4'	34:BA:1505:G:O5'	1.87	0.73
34:BA:468:A:C4'	49:BT:82:GLN:HB3	2.18	0.73
34:BA:590:C:OP1	41:BL:29:SER:HB3	1.88	0.73
34:BA:610:G:C2'	34:BA:611:A:H5'	2.18	0.73
34:BA:745:C:OP1	34:BA:851:G:O2'	2.04	0.73
34:BA:92:G:H2'	34:BA:93:U:O4'	1.88	0.73
35:BF:77:ALA:HB2	35:BF:211:ILE:CD1	2.19	0.73
37:BH:12:CYS:HB3	37:BH:33:MET:CE	2.18	0.73
38:BI:11:ILE:CG2	38:BI:12:LEU:H	2.01	0.73
39:BJ:24:GLU:O	39:BJ:27:GLN:HB2	1.88	0.73
39:BJ:28:ARG:HG2	39:BJ:28:ARG:HH11	1.52	0.73
40:BK:27:ILE:HG12	40:BK:43:PHE:CD1	2.23	0.73
40:BK:66:VAL:HG12	40:BK:70:LYS:HE2	1.71	0.73
40:BK:75:VAL:HG22	40:BK:88:PRO:CA	2.17	0.73
41:BL:95:VAL:HB	41:BL:99:GLU:OE1	1.87	0.73
42:BM:37:PHE:CE1	42:BM:74:ILE:HG23	2.22	0.73
44:BO:69:ALA:HB1	44:BO:103:LEU:HD12	1.69	0.73
46:BQ:15:VAL:H	46:BQ:34:LEU:HD21	1.52	0.73
46:BQ:22:ILE:CB	46:BQ:25:ILE:HD11	1.99	0.73
49:BT:54:GLU:CD	49:BT:54:GLU:C	2.46	0.73
53:BX:72:LEU:CD2	53:BX:76:ALA:HB1	2.18	0.73
57:BZ:239:ILE:N	57:BZ:244:GLY:C	2.34	0.73
34:BA:1011:G:H2'	34:BA:1012:U:H5'	1.69	0.73
1:AA:80:G:C1'	1:AA:347:A:N6	2.50	0.73
55:BC:13:C:O2	55:BC:23:A:C6	2.41	0.73
1:AA:1438:U:H2'	1:AA:1439:A:C5'	2.17	0.73
1:AA:1556:C:H2'	1:AA:1557:C:H6	1.53	0.73
1:AA:2092:U:H5	1:AA:2227:A:N6	1.86	0.73
1:AA:2278:A:OP1	12:AN:14:ARG:CG	2.33	0.73
1:AA:2585:U:O2	1:AA:2585:U:H2'	1.87	0.73
1:AA:2670:A:N1	1:AA:2671:A:C5	2.56	0.73
1:AA:627:A:H1'	1:AA:637:A:C6	2.23	0.73
1:AA:713:G:H2'	1:AA:713:G:N3	2.03	0.73
1:AA:826:U:OP1	1:AA:2428:G:H3'	1.88	0.73
1:AA:901:A:C4	1:AA:902:C:C5	2.75	0.73
1:AA:901:A:C2'	1:AA:902:C:H5'	2.18	0.73
2:AB:112:G:H5'	2:AB:113:C:OP2	1.89	0.73
3:AC:40:THR:O	3:AC:216:THR:HG21	1.84	0.73
4:AD:196:VAL:CG1	4:AD:197:GLY:N	2.31	0.73
1:AA:1566:A:N1	4:AD:215:LEU:HD13	2.03	0.73
1:AA:2670:A:H5'	5:AE:206:LYS:NZ	1.99	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:110:LEU:O	6:AF:114:VAL:HG23	1.88	0.73
6:AF:119:ARG:CB	6:AF:119:ARG:HH21	1.97	0.73
8:AH:26:VAL:HG21	8:AH:75:ALA:CB	2.18	0.73
9:AK:27:ALA:CA	9:AK:30:ILE:HD12	2.16	0.73
10:AL:24:VAL:HG22	10:AL:30:ALA:HA	1.69	0.73
1:AA:2394:C:P	11:AM:57:THR:HA	2.27	0.73
12:AN:75:THR:HG22	12:AN:77:LYS:N	2.02	0.73
12:AN:8:LYS:CE	12:AN:93:TYR:HB3	2.14	0.73
13:AO:8:ARG:HE	13:AO:10:LEU:HD11	1.49	0.73
14:AP:70:GLY:HA2	14:AP:73:LEU:HD22	1.67	0.73
1:AA:2876:G:C4'	15:AQ:1:MET:H2	1.99	0.73
15:AQ:64:ARG:NE	15:AQ:77:PRO:HB2	2.03	0.73
16:AR:58:ARG:O	16:AR:62:ILE:HG13	1.89	0.73
17:AS:11:GLN:HB3	17:AS:21:ARG:HD2	1.70	0.73
21:AW:68:PRO:HG3	21:AW:131:ARG:HH22	1.51	0.73
21:AW:113:ALA:HB1	21:AW:145:GLU:CD	2.07	0.73
21:AW:57:ILE:CG2	21:AW:58:VAL:H	2.00	0.73
24:AZ:11:SER:H	24:AZ:12:PRO:HD3	1.53	0.73
24:AZ:50:VAL:CG1	24:AZ:53:LEU:HD12	2.16	0.73
34:BA:1124:G:H21	34:BA:1126:U:H3	0.81	0.73
34:BA:1118:C:C6	34:BA:1179:A:C2	2.68	0.73
34:BA:1273:G:H3'	34:BA:1274:G:C8	2.23	0.73
34:BA:1277:C:C4'	34:BA:1282:C:H1'	2.17	0.73
34:BA:1269:A:O2'	34:BA:1313:U:O2	1.61	0.73
34:BA:1468:A:H2'	34:BA:1469:G:C5'	2.18	0.73
34:BA:342:C:H2'	34:BA:343:U:H6	1.52	0.73
34:BA:541:G:C4'	37:BH:42:GLN:HB2	2.18	0.73
34:BA:55:A:H2'	34:BA:56:U:O4'	1.87	0.73
34:BA:652:U:H4'	34:BA:653:A:OP1	1.87	0.73
34:BA:795:C:O4'	34:BA:1506:U:O2	2.07	0.73
35:BF:80:ILE:HD11	35:BF:208:ILE:HG23	1.68	0.73
37:BH:8:VAL:O	37:BH:11:LEU:N	2.21	0.73
42:BM:73:GLN:O	42:BM:77:ILE:HG13	1.88	0.73
44:BO:85:ARG:HG3	44:BO:85:ARG:HH11	1.53	0.73
45:BP:8:ASN:HD22	45:BP:8:ASN:H	1.35	0.73
46:BQ:16:ASP:HB2	46:BQ:30:ALA:HB1	1.70	0.73
47:BR:29:ARG:HB3	47:BR:29:ARG:NH1	2.02	0.73
48:BS:15:PHE:O	48:BS:17:ARG:N	2.21	0.73
50:BU:28:PRO:HB2	50:BU:33:GLY:O	1.88	0.73
52:BW:11:VAL:HG12	52:BW:15:LEU:CB	2.18	0.73
57:BZ:316:SER:HB2	57:BZ:317:PRO:CD	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:5:G:C4	56:BD:69:G:N9	2.56	0.73
9:AK:6:PRO:HA	9:AK:41:ASP:HB3	1.70	0.73
1:AA:1025:G:N3	1:AA:1025:G:H2'	2.02	0.73
1:AA:1238:G:C2'	1:AA:1239:G:H5'	2.18	0.73
1:AA:1359:A:C2'	1:AA:1360:A:H5'	2.18	0.73
1:AA:15:G:O2'	1:AA:16:G:H5'	1.88	0.73
1:AA:1814:G:C2	1:AA:1815:A:N6	2.56	0.73
1:AA:1872:A:C2'	1:AA:1878:G:H5'	2.11	0.73
1:AA:2019:A:C3'	1:AA:2020:A:H5''	2.18	0.73
1:AA:2227:A:H1'	4:AD:262:ARG:NH1	2.04	0.73
1:AA:2329:G:H1	1:AA:2386:C:H42	1.34	0.73
1:AA:2459:A:C2	1:AA:2460:U:H1'	2.23	0.73
1:AA:247:G:C5	1:AA:249:C:O2	2.41	0.73
1:AA:2656:U:C4	1:AA:2665:A:N6	2.56	0.73
1:AA:2716:U:O2'	1:AA:2717:G:C5'	2.37	0.73
1:AA:282:A:C5	1:AA:283:A:H4'	2.24	0.73
1:AA:2:G:C8	1:AA:2902:C:C2	2.74	0.73
1:AA:387:U:H4'	1:AA:388:G:O4'	1.88	0.73
1:AA:623:G:C8	11:AM:105:LEU:HB2	2.24	0.73
1:AA:814:C:H4'	1:AA:1224:G:N2	2.02	0.73
1:AA:849:A:N3	24:AZ:21:ALA:HB1	2.02	0.73
2:AB:73:A:H2'	2:AB:74:U:C6	2.23	0.73
5:AE:110:GLY:HA2	5:AE:161:GLY:C	2.07	0.73
5:AE:77:ILE:O	5:AE:78:LEU:HD13	1.88	0.73
9:AK:115:ARG:HA	9:AK:118:LYS:HD2	1.71	0.73
9:AK:85:ILE:HD12	9:AK:85:ILE:N	2.03	0.73
12:AN:58:PHE:O	12:AN:60:ARG:N	2.21	0.73
14:AP:76:LYS:HE3	14:AP:77:ALA:HB2	1.70	0.73
15:AQ:7:ILE:O	15:AQ:11:GLU:CD	2.27	0.73
16:AR:108:GLU:O	16:AR:109:LEU:C	2.26	0.73
16:AR:59:ARG:NH1	16:AR:59:ARG:HB3	2.04	0.73
17:AS:78:LYS:HB2	17:AS:84:LYS:HB3	1.68	0.73
21:AW:165:VAL:CG1	21:AW:166:SER:N	2.50	0.73
21:AW:15:PRO:HB3	21:AW:25:PRO:HB3	1.70	0.73
21:AW:28:MET:SD	21:AW:29:TYR:N	2.62	0.73
21:AW:78:LYS:NZ	21:AW:78:LYS:HB3	2.04	0.73
34:BA:657:G:N2	48:BS:22:THR:O	2.21	0.73
36:BG:71:ALA:HA	36:BG:105:GLU:HG3	1.69	0.73
39:BJ:47:ARG:CD	39:BJ:57:GLN:HB3	2.17	0.73
46:BQ:96:LEU:HB2	46:BQ:97:PRO:HD3	1.70	0.73
49:BT:21:VAL:HG13	49:BT:36:ILE:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1318:A:C2'	52:BW:37:ARG:H	2.01	0.73
52:BW:4:SER:CA	52:BW:5:LEU:HB3	2.17	0.73
53:BX:17:ARG:O	53:BX:20:LEU:HB2	1.89	0.73
57:BZ:54:ILE:CD1	57:BZ:211:GLN:NE2	2.52	0.73
57:BZ:556:VAL:O	57:BZ:557:LEU:CB	2.36	0.73
1:AA:2110:G:H2'	1:AA:2120:G:O5'	1.86	0.73
1:AA:1365:A:N7	1:AA:1366:A:N7	2.37	0.73
1:AA:1471:A:C5	1:AA:1521:G:N2	2.57	0.73
1:AA:2027:G:O2'	1:AA:2028:U:H5'	1.88	0.73
1:AA:2597:G:O4'	4:AD:242:ARG:NE	2.21	0.73
1:AA:2787:C:C5'	5:AE:64:LYS:HD2	2.18	0.73
1:AA:2807:G:H3'	1:AA:2808:U:C5	2.23	0.73
1:AA:2839:G:O2'	1:AA:2840:C:H5'	1.89	0.73
1:AA:542:C:O2'	1:AA:543:C:H5'	1.88	0.73
1:AA:580:C:H2'	1:AA:581:C:C6	2.23	0.73
1:AA:815:C:H2'	1:AA:816:C:H5'	1.70	0.73
1:AA:917:A:C8	1:AA:918:A:H5''	2.23	0.73
1:AA:861:A:C6	1:AA:917:A:N3	2.56	0.73
4:AD:225:ALA:HB3	4:AD:231:HIS:CE1	2.22	0.73
1:AA:1568:G:H5''	4:AD:60:ARG:C	2.07	0.73
4:AD:79:VAL:HG21	4:AD:112:GLN:O	1.87	0.73
5:AE:102:VAL:HG23	5:AE:200:GLU:OE1	1.87	0.73
5:AE:4:ILE:HG21	5:AE:30:PRO:HG3	1.69	0.73
7:AG:104:GLU:HG3	7:AG:105:LYS:N	2.02	0.73
7:AG:94:LEU:HB2	7:AG:99:MET:HE1	1.70	0.73
8:AH:29:PRO:HD3	8:AH:79:VAL:C	2.09	0.73
32:AJ:12:LEU:HD11	32:AJ:57:ILE:HG22	1.71	0.73
12:AN:78:PRO:HB3	12:AN:81:VAL:CG2	2.18	0.73
13:AO:55:ALA:HA	13:AO:80:PHE:CD1	2.23	0.73
14:AP:26:LEU:HD11	14:AP:37:ALA:HB1	1.70	0.73
15:AQ:33:LYS:HD3	15:AQ:47:GLY:HA3	1.70	0.73
15:AQ:54:ARG:HG2	15:AQ:100:TYR:CB	2.14	0.73
16:AR:48:ALA:O	16:AR:51:LYS:HB2	1.86	0.73
16:AR:74:LEU:CD1	16:AR:78:THR:HG21	2.19	0.73
18:AT:33:ARG:HD3	18:AT:37:ARG:HD3	1.69	0.73
19:AU:15:GLU:HB3	19:AU:16:LYS:HE2	1.71	0.73
19:AU:60:ARG:HD3	19:AU:62:LYS:HZ3	1.52	0.73
21:AW:28:MET:HE2	21:AW:28:MET:HA	1.69	0.73
24:AZ:20:LYS:O	24:AZ:23:LEU:HB2	1.87	0.73
34:BA:1323:G:H4'	34:BA:1362(A):C:C4	2.23	0.73
34:BA:1437:C:O2'	34:BA:1438:G:H5'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:50:A:N6	34:BA:361:G:C4'	2.50	0.73
35:BF:171:ALA:HA	35:BF:174:VAL:HB	1.70	0.73
35:BF:189:ASP:HB2	35:BF:205:ASP:HB3	1.69	0.73
35:BF:71:VAL:CG1	35:BF:73:THR:HG23	2.19	0.73
35:BF:91:PRO:HD3	35:BF:154:LEU:HD13	1.70	0.73
36:BG:47:LEU:CD1	36:BG:83:ARG:HH21	2.01	0.73
38:BI:81:GLU:CD	38:BI:81:GLU:N	2.41	0.73
40:BK:107:ALA:O	40:BK:110:GLN:HB2	1.88	0.73
40:BK:103:TRP:HH2	40:BK:138:LYS:HA	1.49	0.73
42:BM:58:HIS:CD2	42:BM:59:PHE:HD1	2.06	0.73
43:BN:45:ARG:HB3	43:BN:45:ARG:NH1	1.98	0.73
44:BO:25:TYR:HD1	44:BO:89:ALA:HB2	1.54	0.73
48:BS:71:GLN:HB2	48:BS:78:TYR:CE1	2.24	0.73
49:BT:23:ASP:O	49:BT:25:ARG:N	2.21	0.73
52:BW:4:SER:HA	52:BW:5:LEU:HB3	1.70	0.73
57:BZ:190:ILE:O	57:BZ:194:VAL:HG23	1.88	0.73
1:AA:2660:A:N3	57:BZ:456:MET:HB3	2.02	0.73
55:BC:38:A:C3'	55:BC:39:U:H5''	2.19	0.73
7:AG:51:ARG:HD2	7:AG:51:ARG:H	1.53	0.73
1:AA:1222:C:O2'	1:AA:1223:C:H5'	1.88	0.73
1:AA:126:A:N7	1:AA:127:A:C4	2.56	0.73
1:AA:1308:A:H2'	1:AA:1309:G:O4'	1.89	0.73
1:AA:1520:U:H3'	1:AA:1520:U:H6	1.52	0.73
1:AA:1539:G:N7	1:AA:1540:G:N7	2.37	0.73
1:AA:1949:G:O2'	1:AA:1950:G:H5'	1.89	0.73
1:AA:1935:G:N2	1:AA:1962:C:O2'	2.21	0.73
1:AA:2056:G:N3	1:AA:2056:G:H2'	2.02	0.73
1:AA:2733:A:H2'	1:AA:2734:A:O4'	1.88	0.73
1:AA:2746:U:C4	1:AA:2756:U:O4	2.42	0.73
1:AA:2841:C:C2'	1:AA:2842:G:H8	1.98	0.73
1:AA:2865:U:H6	1:AA:2865:U:O5'	1.71	0.73
1:AA:2807:G:H22	1:AA:2892:A:N6	1.86	0.73
1:AA:292:C:C6	1:AA:293:U:N3	2.56	0.73
1:AA:647:G:H4'	1:AA:2352:A:OP1	1.89	0.73
1:AA:637:A:H2	1:AA:651:G:H5''	1.53	0.73
1:AA:942:G:N1	1:AA:943:U:O4	2.21	0.73
3:AC:104:LEU:HD13	3:AC:130:ILE:HD11	1.69	0.73
3:AC:163:PHE:CD1	3:AC:196:LEU:CD1	2.48	0.73
4:AD:5:LYS:HD2	4:AD:113:VAL:HG21	1.70	0.73
4:AD:142:VAL:O	4:AD:163:ALA:CB	2.29	0.73
4:AD:42:GLY:CA	4:AD:60:ARG:HH22	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:49:LEU:HD12	5:AE:51:PHE:H	1.53	0.73
7:AG:74:LYS:HG2	7:AG:75:LYS:CD	2.18	0.73
32:AJ:10:LEU:HD13	32:AJ:27:LEU:HD11	1.71	0.73
9:AK:107:LEU:HD22	9:AK:117:PHE:CE1	2.23	0.73
9:AK:36:GLY:HA2	9:AK:47:ALA:O	1.89	0.73
10:AL:8:LEU:HD11	10:AL:82:ASN:HA	1.70	0.73
11:AM:7:ARG:HD2	11:AM:8:PRO:HD3	1.70	0.73
12:AN:34:LEU:O	12:AN:103:MET:CB	2.29	0.73
13:AO:55:ALA:HA	13:AO:79:LEU:HD21	1.69	0.73
15:AQ:55:ASN:HA	15:AQ:62:THR:O	1.88	0.73
15:AQ:56:GLY:O	15:AQ:61:PHE:HB3	1.89	0.73
15:AQ:54:ARG:O	15:AQ:64:ARG:HB2	1.86	0.73
16:AR:62:ILE:HG22	16:AR:63:VAL:N	2.01	0.73
20:AV:12:THR:C	20:AV:73:ARG:CZ	2.56	0.73
23:AY:23:LYS:HE3	23:AY:52:ILE:HG12	1.71	0.73
34:BA:1064:G:N3	34:BA:1066:C:N3	2.37	0.73
34:BA:1317:C:O2	34:BA:1318:A:C1'	2.35	0.73
34:BA:1440:C:H2'	34:BA:1441:G:H5'	1.69	0.73
34:BA:1431:C:N4	34:BA:1469:G:H1	1.86	0.73
34:BA:283:C:N3	34:BA:284:G:C8	2.57	0.73
34:BA:553:A:H2'	34:BA:554:C:H6	1.51	0.73
36:BG:84:ILE:CG1	36:BG:101:LEU:HD22	2.18	0.73
36:BG:20:SER:CB	36:BG:40:ARG:HH22	1.97	0.73
37:BH:101:LEU:HB2	37:BH:138:TYR:O	1.88	0.73
37:BH:61:LYS:CG	37:BH:203:VAL:HG13	2.19	0.73
37:BH:70:ILE:HD12	37:BH:100:ARG:NH2	2.04	0.73
37:BH:82:ALA:HB1	37:BH:92:VAL:HB	1.70	0.73
39:BJ:37:VAL:HA	39:BJ:65:VAL:CG1	2.19	0.73
41:BL:104:ARG:NE	41:BL:138:TRP:CZ3	2.57	0.73
41:BL:32:LYS:H	41:BL:32:LYS:HZ1	1.37	0.73
34:BA:1118:C:P	42:BM:103:THR:CG2	2.76	0.73
42:BM:19:LEU:HD22	42:BM:59:PHE:HD2	1.51	0.73
42:BM:74:ILE:O	42:BM:77:ILE:HB	1.88	0.73
45:BP:104:VAL:HG12	45:BP:105:TYR:CD1	2.24	0.73
45:BP:93:LEU:O	45:BP:96:VAL:HG23	1.88	0.73
46:BQ:11:ARG:O	46:BQ:13:LYS:N	2.21	0.73
46:BQ:16:ASP:N	46:BQ:34:LEU:CD2	2.50	0.73
47:BR:15:LYS:O	47:BR:16:PHE:HB2	1.87	0.73
53:BX:40:ALA:HB2	53:BX:55:ILE:CG2	2.18	0.73
57:BZ:67:ASP:HB3	57:BZ:191:VAL:CG2	2.17	0.73
57:BZ:423:LYS:O	57:BZ:425:ASP:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:481:GLY:CA	57:BZ:482:GLN:HB2	2.18	0.73
57:BZ:21:LEU:HD11	57:BZ:98:VAL:HG21	1.70	0.73
56:BD:16:U:C3'	56:BD:17:C:H5'	2.19	0.73
1:AA:1340:U:H5	19:AU:57:LEU:HG	1.54	0.73
1:AA:1513:C:N4	1:AA:1514:U:O4	2.22	0.73
1:AA:1530:G:H3'	1:AA:1531:C:C6	2.24	0.73
1:AA:1709:U:H1'	1:AA:2860:A:H1'	1.71	0.73
1:AA:1851:U:H2'	1:AA:1852:C:C6	2.24	0.73
1:AA:1955:U:H2'	1:AA:1956:U:OP1	1.88	0.73
1:AA:2389:G:H5''	1:AA:2390:U:O5'	1.89	0.73
1:AA:2447:G:N7	1:AA:2500:U:H2'	2.04	0.73
1:AA:2611:U:H6	1:AA:2611:U:H5'	1.54	0.73
1:AA:2740:A:H2'	1:AA:2741:A:H8	1.53	0.73
1:AA:5:A:N1	1:AA:2899:G:N7	2.37	0.73
1:AA:360:G:O2'	1:AA:361:G:H5'	1.89	0.73
1:AA:443:A:H61	6:AF:41:LEU:CD1	2.02	0.73
1:AA:716:A:C2'	1:AA:717:G:H5'	2.19	0.73
1:AA:192:C:O2	1:AA:802:A:H1'	1.89	0.73
1:AA:825:C:O2'	1:AA:826:U:H5'	1.89	0.73
2:AB:54:G:O2'	2:AB:55:U:H5'	1.89	0.73
3:AC:116:THR:O	3:AC:120:MET:HG2	1.89	0.73
7:AG:111:LEU:HB3	7:AG:112:PRO:HD3	1.68	0.73
8:AH:8:PRO:CD	8:AH:69:ARG:HH11	2.02	0.73
8:AH:7:LEU:HD22	8:AH:65:HIS:NE2	2.04	0.73
1:AA:1046:A:N6	31:AI:9:LEU:CB	2.52	0.73
9:AK:102:ALA:O	9:AK:105:GLY:CA	2.36	0.73
9:AK:37:LYS:HD2	9:AK:42:TRP:C	2.09	0.73
1:AA:995:C:H42	9:AK:3:THR:HA	1.54	0.73
13:AO:26:LYS:HG2	13:AO:70:LEU:HD13	1.69	0.73
15:AQ:2:ASN:OD1	15:AQ:3:ARG:HG3	1.88	0.73
16:AR:30:LYS:H	16:AR:30:LYS:HD2	1.54	0.73
17:AS:62:LEU:CD1	17:AS:98:GLU:HG2	2.18	0.73
17:AS:28:GLU:CB	17:AS:94:LEU:HD12	2.16	0.73
22:AX:37:LEU:HD21	22:AX:60:PHE:CA	2.18	0.73
34:BA:1163:C:O2'	34:BA:1164:G:H5'	1.89	0.73
34:BA:1162:C:N3	34:BA:1175:G:C2	2.57	0.73
34:BA:1412:C:C4	34:BA:1489:G:O6	2.42	0.73
34:BA:191(C):G:H2'	34:BA:191(D):U:H6	1.54	0.73
34:BA:49:U:C5	34:BA:361:G:N2	2.56	0.73
34:BA:8:A:H4'	34:BA:9:G:OP1	1.88	0.73
35:BF:102:LEU:HD12	35:BF:102:LEU:N	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1158:C:HO2'	35:BF:133:LYS:NZ	1.29	0.73
35:BF:184:VAL:H	35:BF:198:ASP:CG	1.92	0.73
36:BG:29:TYR:O	36:BG:32:LEU:HB2	1.89	0.73
37:BH:107:ARG:HA	37:BH:107:ARG:NH1	2.00	0.73
43:BN:23:ILE:CG1	43:BN:85:LEU:HB3	2.18	0.73
44:BO:44:SER:O	44:BO:48:ILE:HG12	1.87	0.73
47:BR:26:ARG:CB	47:BR:43:CYS:HB2	2.17	0.73
57:BZ:101:ALA:C	57:BZ:135:ALA:HB1	2.08	0.73
57:BZ:157:GLN:HG2	57:BZ:158:LEU:HD12	1.69	0.73
57:BZ:67:ASP:CA	57:BZ:191:VAL:HG13	2.19	0.73
57:BZ:243:GLU:HG2	57:BZ:244:GLY:N	2.02	0.73
57:BZ:405:LEU:CD1	57:BZ:464:LEU:CD2	2.62	0.73
57:BZ:12:ALA:HB3	57:BZ:76:PRO:HA	1.69	0.73
56:BD:65:G:C6	56:BD:66:U:N3	2.57	0.73
37:BH:194:LEU:HB3	37:BH:196:LEU:HD11	1.70	0.73
34:BA:1382:C:H2'	34:BA:1383:C:C6	2.23	0.73
1:AA:1087:G:H21	1:AA:1103:A:H2'	1.54	0.73
1:AA:1047:G:C2	1:AA:1110:G:H3'	2.21	0.73
1:AA:152:G:H2'	1:AA:153:C:C5'	2.19	0.73
1:AA:742:G:H4'	1:AA:1675:C:O2'	1.89	0.73
1:AA:1872:A:H2'	1:AA:1878:G:C5'	2.13	0.73
1:AA:197:A:H3'	1:AA:198:C:C6	2.24	0.73
1:AA:2073:C:H2'	1:AA:2074:U:O4'	1.88	0.73
1:AA:2395:C:C4	1:AA:2396:G:N7	2.57	0.73
1:AA:2408:U:O2'	1:AA:2409:G:H5'	1.88	0.73
1:AA:257:A:H2'	1:AA:258:G:O4'	1.87	0.73
1:AA:2674:G:H4'	10:AL:26:LYS:HZ3	1.52	0.73
1:AA:2689:U:O2	1:AA:2713:A:P	2.46	0.73
1:AA:2841:C:C2	1:AA:2842:G:N7	2.57	0.73
1:AA:449:A:O2'	1:AA:450:G:H5'	1.89	0.73
1:AA:532:A:C8	1:AA:561:G:N2	2.57	0.73
1:AA:691:C:C1'	4:AD:45:ASN:HD21	2.01	0.73
1:AA:71:A:N3	1:AA:73:A:C6	2.57	0.73
1:AA:896:A:N1	1:AA:897:C:N3	2.37	0.73
1:AA:878:A:C6	1:AA:897:C:C2	2.41	0.73
1:AA:947:G:H8	1:AA:947:G:O5'	1.70	0.73
3:AC:68:LEU:HD22	3:AC:157:LYS:HA	1.71	0.73
5:AE:93:VAL:HG13	5:AE:180:ASN:HD21	1.53	0.73
7:AG:125:PHE:HA	7:AG:132:ASN:CB	2.19	0.73
7:AG:138:GLN:OE1	7:AG:152:LEU:HD12	1.88	0.73
1:AA:2309:A:N7	7:AG:80:PHE:CE2	2.57	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:98:ARG:CZ	32:AJ:100:THR:HA	2.19	0.73
10:AL:38:VAL:HA	10:AL:59:LYS:O	1.88	0.73
10:AL:63:VAL:HG21	10:AL:82:ASN:OD1	1.89	0.73
11:AM:121:LYS:H	11:AM:137:LYS:CB	2.01	0.73
12:AN:41:TRP:CA	12:AN:95:ALA:O	2.35	0.73
1:AA:2840:C:H5''	13:AO:53:HIS:HD2	1.51	0.73
13:AO:86:ARG:NH1	13:AO:118:GLU:OE1	2.21	0.73
14:AP:6:ALA:HA	14:AP:9:ARG:NH1	2.04	0.73
15:AQ:48:ILE:HG12	15:AQ:49:VAL:O	1.88	0.73
15:AQ:92:GLY:C	15:AQ:93:ARG:HE	1.92	0.73
1:AA:2848:G:OP2	15:AQ:99:LEU:HD12	1.88	0.73
16:AR:32:PHE:N	16:AR:32:PHE:CD1	2.55	0.73
16:AR:98:LEU:HA	16:AR:101:ARG:HG2	1.71	0.73
34:BA:1026:G:H2'	34:BA:1027:C:H5'	1.69	0.73
34:BA:174:C:O2'	34:BA:175:C:H5'	1.88	0.73
34:BA:193:C:H2'	34:BA:194:C:C6	2.24	0.73
34:BA:510:A:N3	34:BA:543:C:H1'	2.03	0.73
34:BA:517:G:O2'	34:BA:530:G:H4'	1.87	0.73
34:BA:936:C:C2'	34:BA:937:A:H5'	2.19	0.73
35:BF:144:ARG:O	35:BF:147:LYS:HB3	1.89	0.73
37:BH:58:LEU:HD13	37:BH:59:ARG:NH1	2.04	0.73
48:BS:54:ARG:HA	48:BS:57:LEU:CD2	2.17	0.73
51:BV:56:THR:HB	51:BV:58:LEU:HD12	1.69	0.73
51:BV:53:ARG:HA	51:BV:63:GLN:HE21	1.53	0.73
57:BZ:305:PRO:HG2	57:BZ:360:GLY:C	2.10	0.73
57:BZ:67:ASP:CB	57:BZ:191:VAL:HG22	2.18	0.73
56:BD:5:G:N1	56:BD:69:G:C5	2.52	0.73
1:AA:1165:U:H2'	1:AA:1166:C:C6	2.24	0.73
1:AA:1341:U:N3	1:AA:1398:C:H5'	2.02	0.73
1:AA:1655:A:H2'	1:AA:1656:C:O4'	1.89	0.73
1:AA:2017:U:C2'	1:AA:2018:G:OP1	2.37	0.73
1:AA:2690:C:C6	1:AA:2690:C:H3'	2.22	0.73
1:AA:270(J):G:H3'	1:AA:270(K):C:C6	2.24	0.73
1:AA:2732:G:H3'	1:AA:2733:A:C5'	2.19	0.73
1:AA:2839:G:H2'	1:AA:2840:C:H6	1.54	0.73
1:AA:729:G:C3'	1:AA:730:C:H4'	2.19	0.73
1:AA:740:U:C2'	1:AA:741:G:O5'	2.34	0.73
4:AD:263:ARG:O	4:AD:266:SER:HB3	1.88	0.73
4:AD:60:ARG:HA	4:AD:62:TYR:OH	1.88	0.73
5:AE:45:THR:OG1	5:AE:46:ALA:N	2.21	0.73
7:AG:55:LYS:HG3	7:AG:148:MET:CB	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:22:THR:HG23	9:AK:25:ARG:CZ	2.18	0.73
9:AK:87:LEU:O	9:AK:91:LEU:HG	1.89	0.73
10:AL:70:LYS:HD3	10:AL:107:ARG:NH1	2.04	0.73
10:AL:63:VAL:O	10:AL:64:ARG:HB3	1.88	0.73
11:AM:122:PRO:CB	11:AM:138:LEU:N	2.51	0.73
1:AA:1242:A:N1	11:AM:6:LEU:HD11	2.04	0.73
11:AM:88:LEU:CD1	11:AM:124:LYS:HZ1	2.02	0.73
14:AP:17:ARG:NH2	14:AP:89:ARG:HB2	2.04	0.73
10:AL:76:ALA:HA	15:AQ:77:PRO:CG	2.18	0.73
18:AT:41:LYS:HB3	18:AT:41:LYS:HZ3	1.52	0.73
18:AT:98:LYS:NZ	18:AT:98:LYS:O	2.19	0.73
12:AN:59:ARG:NH2	21:AW:177:PRO:HB3	2.02	0.73
21:AW:73:GLN:O	21:AW:74:VAL:HG23	1.89	0.73
34:BA:1172:C:O2'	34:BA:1173:G:H5'	1.89	0.73
34:BA:1317:C:O5'	34:BA:1317:C:H6	1.72	0.73
34:BA:270:A:H2'	34:BA:271:C:C6	2.23	0.73
34:BA:576:G:N7	34:BA:881:G:C1'	2.52	0.73
34:BA:889:A:H4'	34:BA:890:G:O5'	1.85	0.73
34:BA:961:U:H1'	34:BA:1201:A:N6	2.04	0.73
35:BF:184:VAL:C	35:BF:198:ASP:HB2	2.09	0.73
35:BF:25:ASN:CG	35:BF:25:ASN:O	2.27	0.73
36:BG:76:VAL:O	36:BG:83:ARG:HG2	1.88	0.73
37:BH:135:LEU:C	37:BH:137:SER:H	1.92	0.73
37:BH:18:LYS:HE3	37:BH:33:MET:HB2	1.69	0.73
38:BI:125:SER:C	38:BI:127:ASN:H	1.92	0.73
40:BK:105:VAL:O	40:BK:108:ALA:HB3	1.88	0.73
40:BK:47:CYS:HA	40:BK:50:ILE:CD1	2.18	0.73
41:BL:36:LEU:HD12	41:BL:48:TYR:CG	2.24	0.73
41:BL:85:ARG:HG2	41:BL:85:ARG:NH1	2.04	0.73
44:BO:57:THR:CG2	44:BO:60:ALA:H	1.97	0.73
44:BO:95:ILE:O	44:BO:98:LEU:HB2	1.89	0.73
45:BP:84:LEU:HG	45:BP:85:ILE:N	2.04	0.73
52:BW:3:ARG:NH1	52:BW:45:VAL:HG13	2.04	0.73
53:BX:49:ALA:HB3	53:BX:99:LEU:CD1	2.19	0.73
57:BZ:487:VAL:HG12	57:BZ:571:PHE:HE1	1.52	0.73
1:AA:83:G:O6	1:AA:102:G:N3	2.22	0.72
1:AA:1160:G:H2'	1:AA:1161:C:H5	1.53	0.72
1:AA:1342:A:C1'	1:AA:1345:C:H41	2.02	0.72
1:AA:1518:C:H3'	1:AA:1519:G:C5'	2.17	0.72
1:AA:1302:A:H5'	1:AA:1608:A:OP1	1.88	0.72
1:AA:1807:G:H21	1:AA:1809:A:C5'	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2181:G:H21	1:AA:2182:G:N2	1.86	0.72
1:AA:2423:U:H2'	1:AA:2423:U:O2	1.88	0.72
1:AA:2467:C:N3	1:AA:2483:C:N4	2.37	0.72
1:AA:2631:G:N2	5:AE:61:ARG:HH12	1.86	0.72
1:AA:2882:A:H2'	1:AA:2883:A:O5'	1.89	0.72
1:AA:332:A:O2'	1:AA:334:C:OP2	2.05	0.72
1:AA:533:G:H2'	1:AA:534:U:O4'	1.89	0.72
1:AA:545:G:C1'	1:AA:549:G:H22	1.97	0.72
1:AA:771:G:C6	1:AA:772:C:N4	2.56	0.72
1:AA:808:G:H2'	1:AA:809:G:C8	2.24	0.72
1:AA:906:G:N3	1:AA:906:G:H2'	2.04	0.72
1:AA:932:G:H4'	1:AA:932:G:OP1	1.88	0.72
2:AB:117:G:C2	2:AB:118:G:C8	2.76	0.72
2:AB:51:G:C2'	2:AB:52:A:O5'	2.35	0.72
2:AB:84:C:H2'	2:AB:85:G:H5''	1.70	0.72
1:AA:1655:A:H5''	5:AE:114:ALA:N	2.03	0.72
6:AF:132:VAL:HG13	6:AF:138:GLU:OE1	1.89	0.72
7:AG:9:ARG:HD2	7:AG:10:LYS:NZ	2.03	0.72
32:AJ:112:MET:HG3	32:AJ:122:ALA:CB	2.01	0.72
32:AJ:27:LEU:CD1	32:AJ:57:ILE:HB	2.18	0.72
12:AN:42:ILE:HD13	12:AN:42:ILE:C	2.09	0.72
13:AO:20:LEU:HD11	13:AO:24:GLN:OE1	1.89	0.72
14:AP:6:ALA:HA	14:AP:9:ARG:HH12	1.53	0.72
17:AS:16:PRO:HA	17:AS:98:GLU:HB2	1.71	0.72
18:AT:21:VAL:HA	18:AT:24:ILE:HG13	1.68	0.72
19:AU:9:LEU:HD12	19:AU:9:LEU:N	2.03	0.72
20:AV:46:LYS:CE	20:AV:52:SER:HB2	2.18	0.72
20:AV:38:ILE:HG23	20:AV:60:PHE:HZ	1.54	0.72
21:AW:102:LEU:HB2	21:AW:124:ILE:HA	1.71	0.72
34:BA:1310:G:C4	34:BA:1327:C:N3	2.55	0.72
34:BA:687:A:H61	34:BA:703:G:H1'	1.54	0.72
55:BC:61:C:H2'	55:BC:62:C:C6	2.24	0.72
38:BI:143:ARG:O	38:BI:147:ASP:HB2	1.87	0.72
38:BI:28:PHE:O	38:BI:47:LYS:HA	1.89	0.72
40:BK:153:HIS:HE1	44:BO:58:PRO:HD2	1.53	0.72
47:BR:51:GLY:C	47:BR:53:LEU:H	1.92	0.72
50:BU:59:ILE:HD11	50:BU:71:PHE:CB	2.15	0.72
51:BV:46:GLU:H	51:BV:49:LYS:HZ1	1.36	0.72
51:BV:74:ARG:HG3	51:BV:79:LEU:CD2	2.19	0.72
52:BW:33:THR:HG21	52:BW:49:ILE:HD12	1.69	0.72
52:BW:9:VAL:HG21	52:BW:43:GLU:H	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:206:GLN:HG2	57:BZ:227:LYS:HB2	0.75	0.72
57:BZ:23:ASP:O	57:BZ:25:LEU:N	2.21	0.72
1:AA:273(C):C:H2'	1:AA:273(D):C:C6	2.24	0.72
34:BA:1016:A:H2'	34:BA:1017:G:O4'	1.89	0.72
1:AA:1470:G:N3	1:AA:1522:G:N2	2.37	0.72
1:AA:1473:G:N1	1:AA:1519:G:H1'	2.04	0.72
1:AA:1655:A:N6	1:AA:2005:A:H1'	2.04	0.72
1:AA:1670:C:H3'	1:AA:1671:U:H6	1.53	0.72
1:AA:1707:G:H2'	1:AA:1708:C:H6	1.54	0.72
1:AA:1799:G:C8	4:AD:268:ARG:NH1	2.57	0.72
1:AA:2225:A:H5'	1:AA:2226:C:H6	1.54	0.72
1:AA:2360:A:H2'	1:AA:2361:A:O4'	1.89	0.72
1:AA:270(X):G:H2'	1:AA:270(Y):G:C5'	2.17	0.72
1:AA:2720:U:O2	1:AA:2720:U:H2'	1.88	0.72
1:AA:2877:G:H3'	1:AA:2878:U:C5	2.23	0.72
1:AA:361:G:H2'	1:AA:362:U:O4'	1.89	0.72
1:AA:4:C:N3	1:AA:2899:G:C6	2.57	0.72
1:AA:750:A:O2'	1:AA:751:A:H5''	1.87	0.72
1:AA:983:A:C2	1:AA:984:A:C2	2.77	0.72
4:AD:175:LEU:C	4:AD:182:LEU:HD23	2.10	0.72
1:AA:2597:G:C1'	4:AD:242:ARG:NH2	2.52	0.72
4:AD:63:ARG:HB2	4:AD:63:ARG:NH1	2.04	0.72
4:AD:84:TYR:HB3	4:AD:91:ARG:HG3	1.71	0.72
6:AF:157:VAL:HG22	6:AF:194:MET:CB	2.19	0.72
6:AF:80:ALA:N	6:AF:83:PHE:HE2	1.86	0.72
6:AF:93:LYS:HG2	6:AF:94:PRO:O	1.88	0.72
7:AG:57:ALA:HA	7:AG:67:LYS:C	2.09	0.72
7:AG:6:ALA:O	7:AG:9:ARG:HB3	1.89	0.72
1:AA:1080:C:H4'	32:AJ:128:ALA:HB3	0.72	0.72
9:AK:103:VAL:HG22	9:AK:104:LYS:H	1.52	0.72
9:AK:103:VAL:HG22	9:AK:104:LYS:N	2.04	0.72
10:AL:3:GLN:HG2	10:AL:6:THR:CB	2.16	0.72
1:AA:663:G:C5'	11:AM:18:ARG:HB3	2.17	0.72
12:AN:75:THR:HG23	12:AN:91:GLU:CD	2.09	0.72
1:AA:2848:G:H8	15:AQ:99:LEU:HD11	1.51	0.72
17:AS:21:ARG:HH11	17:AS:21:ARG:HG3	1.52	0.72
21:AW:48:PHE:HB3	21:AW:54:HIS:CE1	2.23	0.72
24:AZ:51:ALA:O	24:AZ:53:LEU:N	2.22	0.72
34:BA:1345:U:C2	34:BA:1377:A:N6	2.57	0.72
34:BA:1316:G:C5'	34:BA:1360:A:C4	2.69	0.72
34:BA:1438:G:O2'	34:BA:1439:C:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1517:G:N2	34:BA:1518:A:H1'	2.02	0.72
34:BA:769:G:H5'	34:BA:1513:A:H4'	1.71	0.72
35:BF:116:GLU:HG2	35:BF:117:GLU:N	2.04	0.72
35:BF:54:THR:CG2	35:BF:201:ILE:HD11	2.19	0.72
37:BH:64:LEU:HD13	37:BH:65:ARG:N	2.03	0.72
38:BI:86:ALA:HB3	38:BI:130:ASN:ND2	2.03	0.72
39:BJ:1:MET:CE	39:BJ:68:PRO:HG3	2.20	0.72
34:BA:1290:G:H4'	40:BK:37:ASN:ND2	2.03	0.72
41:BL:29:SER:C	41:BL:32:LYS:HZ2	1.91	0.72
41:BL:40:ALA:O	41:BL:43:GLY:N	2.22	0.72
41:BL:70:GLN:NE2	41:BL:71:GLY:H	1.87	0.72
46:BQ:73:GLU:O	46:BQ:77:ASN:OD1	2.08	0.72
48:BS:63:ARG:HH22	48:BS:87:ILE:HG21	1.53	0.72
50:BU:63:ARG:HG2	50:BU:64:PRO:CD	2.20	0.72
53:BX:57:ARG:HH21	53:BX:100:ILE:HB	1.54	0.72
53:BX:44:ALA:HB1	53:BX:91:LEU:HB2	1.70	0.72
57:BZ:124:ILE:HA	57:BZ:161:ALA:HB2	1.70	0.72
57:BZ:398:GLU:HA	57:BZ:472:TYR:HD1	1.46	0.72
57:BZ:258:LEU:HD13	57:BZ:260:LEU:HD13	1.71	0.72
1:AA:1062:G:C5	1:AA:1063:G:C5	2.77	0.72
1:AA:1083:U:N1	1:AA:1085:A:N7	2.36	0.72
1:AA:1105:U:C2	1:AA:1107:G:C6	2.78	0.72
1:AA:1270:C:C4'	1:AA:1271:G:C5'	2.67	0.72
1:AA:1299:G:H1	1:AA:1639:U:H3'	1.54	0.72
1:AA:1315:C:H2'	1:AA:1316:U:H6	1.49	0.72
1:AA:1971:A:C8	1:AA:1971:A:C3'	2.72	0.72
1:AA:2231:C:H2'	1:AA:2232:U:H6	1.52	0.72
1:AA:2284:C:O2'	1:AA:2325:G:N2	2.22	0.72
1:AA:1782:C:N4	1:AA:2587:A:C6	2.56	0.72
1:AA:2646:C:O2'	1:AA:2647:U:H5'	1.89	0.72
1:AA:2657:A:H2'	1:AA:2658:C:C5'	2.19	0.72
1:AA:271(B):G:H5''	1:AA:271(C):U:C5'	2.19	0.72
1:AA:448:U:C4	1:AA:583:G:H1'	2.23	0.72
1:AA:598:G:O4'	11:AM:13:ASN:ND2	2.22	0.72
1:AA:5:A:C5	1:AA:2899:G:C2	2.76	0.72
1:AA:878:A:O4'	1:AA:899:A:N1	2.22	0.72
1:AA:2125:G:C1'	3:AC:218:MET:N	2.04	0.72
3:AC:43:VAL:CG2	3:AC:189:ILE:HD11	2.20	0.72
5:AE:200:GLU:HB3	5:AE:202:LYS:HZ3	1.54	0.72
5:AE:7:VAL:HG13	5:AE:194:GLY:O	1.88	0.72
6:AF:74:ARG:CZ	6:AF:75:HIS:H	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:113:ARG:HD3	7:AG:139:LEU:HD21	1.70	0.72
7:AG:128:ARG:HH12	7:AG:162:THR:HA	1.54	0.72
7:AG:65:GLY:O	7:AG:66:GLN:HB2	1.89	0.72
1:AA:2745:C:H1'	8:AH:143:GLN:HG2	1.71	0.72
8:AH:29:PRO:HD3	8:AH:79:VAL:HA	1.71	0.72
32:AJ:33:ASN:HB3	32:AJ:63:ARG:CA	2.19	0.72
1:AA:558:G:OP1	9:AK:112:LEU:HG	1.88	0.72
9:AK:123:TYR:CD2	9:AK:129:PRO:HB2	2.24	0.72
9:AK:127:ASP:OD1	9:AK:128:HIS:N	2.23	0.72
11:AM:23:PRO:HG2	11:AM:29:LYS:N	2.05	0.72
12:AN:46:GLN:OE1	12:AN:125:LEU:C	2.28	0.72
12:AN:6:ARG:HH21	12:AN:8:LYS:C	1.93	0.72
14:AP:78:LEU:HD13	14:AP:79:ALA:H	1.52	0.72
15:AQ:64:ARG:CZ	15:AQ:77:PRO:HB2	2.19	0.72
15:AQ:79:HIS:HB2	15:AQ:82:LEU:HB2	1.70	0.72
16:AR:108:GLU:HB2	16:AR:111:GLU:OE1	1.88	0.72
17:AS:69:LYS:HE2	17:AS:70:ILE:CD1	2.19	0.72
17:AS:19:LYS:O	17:AS:96:ILE:HD11	1.89	0.72
19:AU:57:LEU:HD23	19:AU:58:HIS:N	2.04	0.72
34:BA:453:A:N6	34:BA:480:U:H3	1.88	0.72
34:BA:762:C:H2'	34:BA:763:G:H8	1.54	0.72
34:BA:842:C:H4'	34:BA:848:C:N3	2.04	0.72
1:AA:2507:C:H4'	56:BD:75:C:H1'	1.69	0.72
35:BF:23:ARG:NH1	35:BF:24:TRP:N	2.37	0.72
36:BG:156:ARG:HB3	36:BG:193:TYR:CD1	2.24	0.72
36:BG:29:TYR:HD2	36:BG:29:TYR:O	1.72	0.72
38:BI:114:GLY:O	38:BI:115:VAL:HG13	1.89	0.72
39:BJ:14:LEU:CD1	39:BJ:18:GLN:HB3	2.18	0.72
39:BJ:98:LEU:CD2	39:BJ:101:ALA:HB2	2.17	0.72
40:BK:35:LYS:HZ3	40:BK:38:LEU:HD22	1.50	0.72
41:BL:88:LYS:HZ2	41:BL:88:LYS:N	1.85	0.72
34:BA:1250:A:H4'	42:BM:67:GLY:C	2.10	0.72
49:BT:41:PRO:O	49:BT:43:LYS:HD2	1.88	0.72
49:BT:60:LEU:HA	49:BT:64:ALA:CB	2.19	0.72
52:BW:5:LEU:HD23	52:BW:6:LYS:N	2.05	0.72
57:BZ:129:LYS:HZ1	60:BZ:701:GCP:C1'	2.02	0.72
57:BZ:126:VAL:HA	57:BZ:163:VAL:HB	1.71	0.72
57:BZ:565:LEU:H	57:BZ:566:GLU:C	1.93	0.72
56:BD:41:C:C3'	56:BD:42:C:H5"	2.17	0.72
57:BZ:575:ASP:CB	57:BZ:590:ARG:CB	2.52	0.72
1:AA:1053:C:H42	1:AA:1107:G:H1	1.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1314:C:C2	1:AA:1315:C:C5	2.78	0.72
1:AA:1313:U:H2'	1:AA:1314:C:H6	1.55	0.72
1:AA:1364:G:H5''	1:AA:1809:A:C4	2.24	0.72
1:AA:1851:U:H2'	1:AA:1852:C:C5	2.24	0.72
1:AA:1864:U:H2'	1:AA:1869:G:C5'	2.18	0.72
1:AA:2033:A:C6	1:AA:2036:C:C4	2.77	0.72
1:AA:245:G:C4	1:AA:246:C:H5	2.07	0.72
1:AA:2657:A:C8	1:AA:2664:G:N2	2.56	0.72
1:AA:2781:A:C8	1:AA:2781:A:C3'	2.71	0.72
1:AA:2811:G:C6	1:AA:2891:G:N2	2.57	0.72
1:AA:2631:G:C5	1:AA:2894:G:N7	2.58	0.72
1:AA:298:G:N1	1:AA:338:G:O2'	2.22	0.72
1:AA:373:U:O2	1:AA:400:G:N2	2.22	0.72
1:AA:389:G:H1	11:AM:64:LYS:HG2	1.54	0.72
1:AA:445:C:H3'	16:AR:3:ARG:NE	2.01	0.72
1:AA:617:G:C8	1:AA:618:G:N7	2.58	0.72
1:AA:648:G:H2'	1:AA:649:G:C8	2.24	0.72
1:AA:660:G:H5''	6:AF:99:TYR:CZ	2.25	0.72
1:AA:724:U:C2'	1:AA:725:G:H5'	2.19	0.72
1:AA:783:A:O2'	1:AA:784:A:OP1	2.08	0.72
1:AA:899:A:O2'	1:AA:900:A:OP2	2.06	0.72
2:AB:101:A:C2'	2:AB:102:G:H8	1.99	0.72
2:AB:29:A:H2'	2:AB:30:C:H6	1.52	0.72
1:AA:1799:G:H5''	4:AD:264:LYS:HE2	1.69	0.72
4:AD:37:LEU:HD11	4:AD:64:ILE:N	2.04	0.72
5:AE:147:PRO:HG2	5:AE:149:ARG:HD2	1.72	0.72
5:AE:54:GLN:HB3	5:AE:57:LYS:HE2	1.71	0.72
6:AF:31:HIS:ND1	11:AM:14:LYS:HE3	2.03	0.72
7:AG:82:LEU:HD22	56:BE:52:G:OP2	1.87	0.72
32:AJ:58:THR:C	32:AJ:59:ILE:HD13	2.10	0.72
32:AJ:81:ALA:O	32:AJ:99:ILE:HG21	1.89	0.72
9:AK:16:ILE:HB	9:AK:54:VAL:CG2	2.19	0.72
10:AL:43:VAL:HG11	10:AL:54:GLU:OE1	1.89	0.72
12:AN:16:ARG:HG3	12:AN:72:LYS:HB3	1.72	0.72
12:AN:74:TYR:O	12:AN:91:GLU:HG2	1.90	0.72
13:AO:11:ASN:CG	13:AO:12:ARG:N	2.41	0.72
10:AL:76:ALA:CA	15:AQ:77:PRO:HD2	2.18	0.72
1:AA:17:G:H4'	16:AR:25:TRP:CH2	2.25	0.72
17:AS:69:LYS:HG2	17:AS:70:ILE:H	1.55	0.72
19:AU:16:LYS:HE2	19:AU:16:LYS:N	2.05	0.72
20:AV:19:LYS:NZ	20:AV:39:VAL:O	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:85:G:OP1	20:AV:8:LYS:HB3	1.90	0.72
21:AW:9:TYR:HB3	21:AW:14:LYS:NZ	2.04	0.72
23:AY:51:GLN:O	23:AY:55:LEU:HD13	1.88	0.72
24:AZ:40:THR:HG22	24:AZ:42:ALA:N	2.04	0.72
34:BA:1049:U:H1'	34:BA:1201:A:O4'	1.87	0.72
34:BA:1066:C:C6	34:BA:1067:A:N7	2.58	0.72
34:BA:1126:U:H2'	34:BA:1127:G:H8	1.54	0.72
34:BA:1115:C:H1'	34:BA:1186:G:C2	2.24	0.72
34:BA:137:C:H2'	34:BA:138:G:O5'	1.86	0.72
34:BA:411:A:C4	34:BA:413:G:H1'	2.25	0.72
34:BA:474:G:H5'	49:BT:81:ARG:NE	2.04	0.72
34:BA:484:G:H5'	34:BA:486:U:H1'	1.70	0.72
34:BA:595:G:C8	34:BA:641:U:N3	2.57	0.72
34:BA:81:G:O6	34:BA:87:A:N6	2.23	0.72
34:BA:953:G:H2'	34:BA:954:G:H8	1.53	0.72
56:BE:18:G:N3	56:BE:58:A:O4'	2.22	0.72
38:BI:145:LYS:HA	38:BI:148:VAL:CG2	2.19	0.72
41:BL:101:PRO:O	41:BL:102:ARG:HB2	1.87	0.72
42:BM:111:ARG:O	42:BM:119:ALA:HB2	1.90	0.72
42:BM:6:GLY:HA2	42:BM:83:ARG:HB3	1.71	0.72
34:BA:716:A:C1'	44:BO:118:GLY:HA2	2.15	0.72
45:BP:36:VAL:C	45:BP:58:VAL:HG13	2.09	0.72
46:BQ:37:THR:CB	46:BQ:56:LEU:CB	2.68	0.72
50:BU:34:LYS:HE2	50:BU:35:VAL:O	1.89	0.72
51:BV:66:LEU:HD12	51:BV:67:ALA:H	1.49	0.72
57:BZ:230:LYS:CA	57:BZ:231:VAL:HB	2.19	0.72
57:BZ:81:PHE:CB	57:BZ:344:ALA:HB3	2.17	0.72
57:BZ:57:LEU:HD23	57:BZ:71:ASN:CG	2.09	0.72
23:AY:5:LEU:O	23:AY:9:ARG:HG2	1.90	0.72
40:BK:132:GLY:O	40:BK:136:LYS:CB	2.37	0.72
55:BC:45:U:O2'	55:BC:46:G:H5'	1.89	0.72
1:AA:1067:A:H4'	32:AJ:21:PRO:CB	2.18	0.72
1:AA:1071:G:O2'	1:AA:1089:G:C8	2.35	0.72
1:AA:1079:C:C2'	1:AA:1080:C:H5'	2.20	0.72
1:AA:1245:G:O2'	1:AA:1246:A:H5'	1.88	0.72
1:AA:1280:G:O2'	1:AA:1281:G:H5'	1.89	0.72
1:AA:1438:U:H3	1:AA:1553:A:N6	1.87	0.72
1:AA:1557:C:C2	1:AA:1558:A:N7	2.57	0.72
1:AA:1596:A:N6	1:AA:1597:A:C6	2.58	0.72
1:AA:1797:C:C2	1:AA:1798:U:C5	2.76	0.72
1:AA:1839:G:H2'	1:AA:1839:G:N3	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1916:A:N3	1:AA:1916:A:H2'	2.05	0.72
1:AA:1937:A:N6	1:AA:1939:U:C4	2.52	0.72
1:AA:2019:A:H3'	1:AA:2020:A:C5'	2.18	0.72
1:AA:2208:U:H1'	1:AA:2217:G:N1	2.03	0.72
1:AA:2433:A:OP2	1:AA:2433:A:H3'	1.88	0.72
1:AA:2450:A:OP1	1:AA:2497:A:N7	2.22	0.72
1:AA:2547:U:H2'	1:AA:2548:G:H5''	1.71	0.72
1:AA:2799:A:H1'	1:AA:2802:G:O6	1.88	0.72
1:AA:2847:U:C5	1:AA:2848:G:N7	2.58	0.72
1:AA:600:G:O2'	6:AF:105:VAL:HG22	1.87	0.72
1:AA:792:G:N2	1:AA:2072:G:O2'	2.22	0.72
3:AC:63:SER:O	3:AC:65:PRO:HD3	1.88	0.72
5:AE:151:TYR:CG	5:AE:152:LYS:N	2.57	0.72
5:AE:5:LEU:HD22	5:AE:5:LEU:O	1.90	0.72
6:AF:36:VAL:HG11	6:AF:183:VAL:CG1	2.19	0.72
9:AK:55:VAL:HG21	9:AK:127:ASP:CA	2.18	0.72
10:AL:24:VAL:HG23	10:AL:26:LYS:HG2	1.71	0.72
14:AP:42:ASP:C	14:AP:44:LYS:H	1.92	0.72
15:AQ:26:ASP:HA	15:AQ:100:TYR:CE2	2.24	0.72
16:AR:19:LYS:HZ3	16:AR:19:LYS:HB2	1.52	0.72
17:AS:40:LEU:CD2	17:AS:51:VAL:HG12	2.18	0.72
21:AW:151:HIS:CB	21:AW:168:GLU:HG2	2.18	0.72
34:BA:1142:G:O2'	34:BA:1143:G:H5'	1.90	0.72
34:BA:1265:G:H2'	34:BA:1266:G:H5'	1.68	0.72
35:BF:111:ARG:HH11	35:BF:111:ARG:CA	2.01	0.72
39:BJ:49:ALA:HB1	51:BV:80:PRO:HD3	1.70	0.72
41:BL:8:ASP:O	41:BL:12:ARG:HG3	1.89	0.72
44:BO:13:GLN:HB3	44:BO:76:GLY:HA3	1.71	0.72
45:BP:46:LYS:HE3	45:BP:47:LYS:NZ	2.04	0.72
49:BT:56:ALA:O	49:BT:60:LEU:HG	1.90	0.72
57:BZ:396:LYS:HB3	57:BZ:475:VAL:N	2.04	0.72
1:AA:2557:G:O2'	57:BZ:544:THR:HG22	1.89	0.72
57:BZ:55:THR:C	57:BZ:56:ILE:CD1	2.49	0.72
56:BD:72:C:N3	56:BD:73:A:C2	2.56	0.72
1:AA:1198:U:H2'	1:AA:1199:U:C6	2.24	0.72
1:AA:1266:G:N2	1:AA:2012:G:H2'	2.04	0.72
1:AA:1341:U:O4	1:AA:1395:A:H2	1.72	0.72
1:AA:1363:C:O2'	1:AA:1809:A:C8	2.41	0.72
1:AA:1372:U:H2'	1:AA:1373:A:C5'	2.19	0.72
1:AA:1517:G:H21	1:AA:1518:C:H1'	1.54	0.72
1:AA:1520:U:H2'	1:AA:1521:G:C5'	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1665:A:H5''	10:AL:65:THR:O	1.88	0.72
1:AA:1817:G:C2'	1:AA:1818:U:H5'	2.19	0.72
1:AA:1832:C:H2'	1:AA:1833:U:H5'	1.71	0.72
1:AA:2208:U:H2'	1:AA:2209:C:H5'	1.72	0.72
1:AA:231:C:H42	1:AA:232:G:N2	1.87	0.72
1:AA:2331:G:H2'	1:AA:2332:U:O4'	1.90	0.72
1:AA:261:G:O2'	1:AA:609:A:H4'	1.89	0.72
1:AA:2670:A:N3	1:AA:2671:A:N7	2.36	0.72
1:AA:2695:C:H2'	1:AA:2696:U:C5	2.24	0.72
1:AA:2721:A:H2'	1:AA:2722:G:H8	1.55	0.72
1:AA:691:C:O2'	4:AD:45:ASN:ND2	2.22	0.72
1:AA:760:G:C2'	1:AA:761:A:H5'	2.20	0.72
1:AA:83:G:H1	1:AA:102:G:C2'	2.03	0.72
3:AC:131:LEU:HD13	3:AC:137:LEU:HA	1.71	0.72
3:AC:22:ILE:HB	3:AC:228:SER:OXT	1.76	0.72
3:AC:66:HIS:CG	3:AC:67:GLY:N	2.57	0.72
4:AD:161:THR:OG1	4:AD:196:VAL:HB	1.90	0.72
6:AF:155:LEU:HA	6:AF:174:VAL:HG23	1.70	0.72
6:AF:45:ARG:HG2	6:AF:97:TYR:CD1	2.25	0.72
7:AG:59:GLU:CD	7:AG:152:LEU:HD22	2.09	0.72
7:AG:26:GLN:HG2	7:AG:29:TRP:CZ3	2.24	0.72
2:AB:43:C:O2	7:AG:95:ARG:NE	2.23	0.72
8:AH:33:LEU:HD21	8:AH:35:VAL:HG13	1.71	0.72
8:AH:94:TYR:HE2	8:AH:96:ALA:HB2	1.55	0.72
32:AJ:108:ALA:CA	32:AJ:109:LYS:HB2	2.20	0.72
32:AJ:37:PHE:HZ	32:AJ:63:ARG:CD	1.91	0.72
32:AJ:27:LEU:HD22	32:AJ:58:THR:C	2.09	0.72
1:AA:1952:A:H2	10:AL:22:ILE:HG12	1.53	0.72
14:AP:30:ARG:HG2	14:AP:91:PRO:HG3	1.72	0.72
15:AQ:29:ARG:CG	15:AQ:51:ARG:HG2	2.18	0.72
15:AQ:53:ARG:HE	15:AQ:53:ARG:HA	1.51	0.72
1:AA:563:G:N2	16:AR:34:LYS:HE2	2.04	0.72
18:AT:81:ALA:HB1	18:AT:98:LYS:O	1.89	0.72
20:AV:47:LYS:HB2	20:AV:49:VAL:CG2	2.18	0.72
34:BA:1151:A:C6	34:BA:1152:A:N7	2.57	0.72
34:BA:1200:C:H3'	34:BA:1201:A:C5'	2.19	0.72
34:BA:1220:G:N2	52:BW:55:LYS:CG	2.53	0.72
34:BA:1246:C:O2'	34:BA:1247:U:H5'	1.90	0.72
34:BA:1261:A:N6	34:BA:1274:G:C1'	2.50	0.72
34:BA:1308:U:O3'	46:BQ:92:HIS:CD2	2.41	0.72
34:BA:1413:A:O2'	34:BA:1414:U:C5'	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1449:C:H2'	34:BA:1450:U:O5'	1.89	0.72
34:BA:1449:C:N4	34:BA:1454:G:H1	1.87	0.72
34:BA:1417:G:N2	34:BA:1482:G:H2'	2.05	0.72
34:BA:410:G:C1'	34:BA:432:A:H61	2.03	0.72
35:BF:178:ARG:NH2	35:BF:196:LEU:HB2	2.01	0.72
35:BF:208:ILE:CG1	35:BF:211:ILE:HD12	2.19	0.72
35:BF:75:LYS:HA	35:BF:75:LYS:NZ	2.03	0.72
36:BG:159:GLY:H	36:BG:193:TYR:HE1	1.35	0.72
36:BG:186:PHE:HA	36:BG:198:VAL:O	1.88	0.72
36:BG:31:HIS:O	36:BG:34:LEU:HB3	1.89	0.72
38:BI:35:GLY:HA3	38:BI:41:VAL:CG1	2.20	0.72
40:BK:106:GLN:O	40:BK:109:ASN:HB2	1.89	0.72
40:BK:76:ARG:CB	40:BK:156:TRP:HE1	1.93	0.72
41:BL:36:LEU:HD12	41:BL:48:TYR:CB	2.19	0.72
44:BO:42:TRP:HE3	44:BO:43:SER:CA	2.03	0.72
48:BS:36:ILE:CD1	48:BS:60:VAL:HG13	2.20	0.72
50:BU:58:GLU:O	50:BU:58:GLU:OE1	2.07	0.72
39:BJ:46:ARG:HH22	51:BV:37:VAL:CG1	2.03	0.72
52:BW:8:GLY:O	52:BW:10:PHE:N	2.22	0.72
52:BW:19:VAL:HG22	52:BW:43:GLU:OE1	1.89	0.72
57:BZ:146:ASP:HA	57:BZ:149:VAL:CG1	2.19	0.72
57:BZ:239:ILE:CA	57:BZ:244:GLY:HA3	2.20	0.72
57:BZ:234:ASN:CG	57:BZ:247:ARG:HB3	2.04	0.72
57:BZ:248:ASN:ND2	57:BZ:273:ILE:HG12	2.04	0.72
57:BZ:564:THR:HG22	57:BZ:566:GLU:HG3	1.70	0.72
31:AI:54:ALA:HA	31:AI:83:TYR:O	1.89	0.72
1:AA:85:G:N3	1:AA:103:A:H2	1.88	0.72
1:AA:1301:A:N6	1:AA:1303:G:N3	2.38	0.72
1:AA:1532:C:O2'	1:AA:1533:C:O4'	2.07	0.72
1:AA:1535:U:H2'	1:AA:1536:A:C1'	2.20	0.72
1:AA:1537:C:C6	1:AA:1537:C:H3'	2.24	0.72
1:AA:1668:A:N3	1:AA:1669:A:N1	2.37	0.72
1:AA:1955:U:H3	1:AA:2552:U:HO2'	1.34	0.72
1:AA:2114:A:H2'	1:AA:2115:G:C5'	2.19	0.72
1:AA:2463:C:C2'	1:AA:2464:C:H5'	2.20	0.72
1:AA:2469:A:C2	1:AA:2470:G:H1'	2.23	0.72
1:AA:2497:A:O2'	1:AA:2498:C:C6	2.42	0.72
1:AA:265:A:H2'	1:AA:266:G:O4'	1.89	0.72
1:AA:592:G:H1'	5:AE:1:MET:O	115.82	0.72
1:AA:81:G:H4'	1:AA:294:A:H2	1.52	0.72
3:AC:22:ILE:HG13	3:AC:225:ASN:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:95:LEU:O	4:AD:102:LYS:HB3	1.88	0.72
4:AD:186:HIS:HB2	4:AD:188:GLU:OE2	1.90	0.72
4:AD:5:LYS:CB	4:AD:29:PRO:HD3	2.19	0.72
4:AD:8:PRO:HD2	4:AD:26:LYS:CA	2.19	0.72
7:AG:174:GLU:O	7:AG:179:PRO:HD3	1.88	0.72
31:AI:143:GLN:O	31:AI:147:ALA:HB3	1.88	0.72
32:AJ:100:THR:OG1	32:AJ:103:GLN:HB3	1.83	0.72
32:AJ:75:SER:HA	32:AJ:130:SER:CB	2.15	0.72
9:AK:86:PRO:HB2	9:AK:89:LYS:HZ2	1.53	0.72
10:AL:10:VAL:HG22	10:AL:12:ASP:OD1	1.89	0.72
10:AL:39:ILE:C	10:AL:59:LYS:HZ3	1.90	0.72
10:AL:23:ARG:O	10:AL:39:ILE:HB	1.89	0.72
1:AA:662:G:C4'	11:AM:18:ARG:H	1.99	0.72
11:AM:84:ASN:O	11:AM:85:LEU:HG	1.90	0.72
13:AO:83:ILE:HG23	13:AO:86:ARG:NE	2.04	0.72
15:AQ:18:ASP:CG	15:AQ:81:PRO:HG3	2.10	0.72
16:AR:40:PHE:HB3	17:AS:78:LYS:CD	2.19	0.72
16:AR:61:TRP:CA	16:AR:65:ILE:HD11	2.20	0.72
21:AW:141:VAL:HG13	21:AW:142:SER:H	1.54	0.72
1:AA:75:G:H4'	23:AY:50:ARG:HH11	1.51	0.72
34:BA:1167:A:C2	34:BA:1169:A:C4	2.78	0.72
34:BA:414:A:H2'	34:BA:415:A:C8	2.24	0.72
34:BA:671:G:N3	34:BA:672:U:H1'	2.04	0.72
34:BA:873:A:H5'	34:BA:874:G:OP2	1.89	0.72
35:BF:171:ALA:O	35:BF:174:VAL:HB	1.88	0.72
36:BG:15:THR:CG2	36:BG:181:ASN:HA	2.17	0.72
36:BG:38:ARG:CB	36:BG:94:LEU:HD21	2.19	0.72
34:BA:921:U:O2'	38:BI:19:MET:O	2.07	0.72
38:BI:16:THR:O	38:BI:26:PHE:HB2	1.90	0.72
38:BI:7:GLU:HG2	38:BI:112:LEU:HD21	1.71	0.72
44:BO:84:VAL:HG23	44:BO:111:ASP:H	1.54	0.72
44:BO:21:ILE:HA	44:BO:30:VAL:HG22	1.71	0.72
44:BO:97:ALA:O	44:BO:100:ALA:HB3	1.89	0.72
46:BQ:65:LYS:HA	46:BQ:66:LEU:CB	2.19	0.72
52:BW:38:SER:O	52:BW:70:LYS:HA	1.90	0.72
52:BW:30:LEU:HG	52:BW:50:ALA:N	2.04	0.72
53:BX:44:ALA:HA	53:BX:92:LEU:HD21	1.72	0.72
57:BZ:13:HIS:CD2	57:BZ:106:MET:CA	2.72	0.72
23:AY:3:LYS:HA	23:AY:6:GLU:HG2	1.72	0.72
1:AA:1155:A:C2	1:AA:1157:G:H1'	2.25	0.72
1:AA:1368:G:H2'	1:AA:1369:G:H8	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:140:A:C2	1:AA:1408:C:H1'	2.24	0.72
1:AA:1445:C:O2	1:AA:1466:G:N2	2.22	0.72
1:AA:1702:G:C6	1:AA:1703:G:N7	2.57	0.72
1:AA:1937:A:C2'	1:AA:1938:A:OP1	2.38	0.72
1:AA:1960:A:H4'	34:BA:1483:A:C2	2.24	0.72
1:AA:245:G:C5	1:AA:246:C:H5	2.06	0.72
1:AA:2649:U:H2'	1:AA:2650:U:C5	2.25	0.72
1:AA:2820:A:H2'	1:AA:2821:A:OP1	1.89	0.72
1:AA:289:A:C4	1:AA:351:G:O6	2.43	0.72
1:AA:535:C:C5'	16:AR:49:HIS:HB3	2.20	0.72
1:AA:852:G:O2'	1:AA:853:G:H5'	1.90	0.72
1:AA:996:A:H4'	16:AR:93:LYS:CG	2.20	0.72
2:AB:112:G:H2'	2:AB:112:G:N3	2.05	0.72
4:AD:92:ILE:HA	4:AD:106:ILE:O	1.90	0.72
5:AE:49:LEU:HD21	5:AE:75:VAL:C	2.09	0.72
7:AG:62:LEU:HD23	7:AG:143:GLU:HB2	1.71	0.72
8:AH:98:LEU:H	8:AH:125:VAL:HG21	1.53	0.72
8:AH:7:LEU:HB3	8:AH:65:HIS:NE2	2.05	0.72
32:AJ:112:MET:HG2	32:AJ:122:ALA:CB	2.19	0.72
11:AM:92:GLU:H	11:AM:125:VAL:HG11	1.54	0.72
12:AN:29:PHE:O	12:AN:29:PHE:HD1	1.72	0.72
13:AO:97:VAL:HA	13:AO:114:VAL:CG2	2.20	0.72
13:AO:26:LYS:HA	13:AO:29:LEU:HD12	1.72	0.72
14:AP:57:LYS:HG3	14:AP:68:GLN:OE1	1.90	0.72
10:AL:75:SER:OG	15:AQ:77:PRO:O	2.04	0.72
15:AQ:79:HIS:N	15:AQ:79:HIS:ND1	2.33	0.72
17:AS:17:GLY:HA3	17:AS:19:LYS:HZ3	1.52	0.72
20:AV:46:LYS:CG	20:AV:58:GLY:H	2.03	0.72
21:AW:98:MET:O	21:AW:126:VAL:HA	1.89	0.72
1:AA:1158:C:C4'	24:AZ:32:GLN:HE21	2.01	0.72
34:BA:1055:A:N3	34:BA:1055:A:H2'	2.03	0.72
34:BA:122:G:N2	34:BA:123:C:H1'	2.04	0.72
34:BA:1442:G:H21	34:BA:1446:A:H5''	1.53	0.72
34:BA:1455:G:O2'	34:BA:1459:C:H5'	1.89	0.72
34:BA:1500:A:OP1	34:BA:1508:G:P	2.48	0.72
34:BA:1512:U:H2'	34:BA:1513:A:H8	1.54	0.72
34:BA:440:A:H3'	34:BA:442:C:H6	1.53	0.72
34:BA:563:A:H1'	34:BA:566:G:O2'	1.89	0.72
34:BA:989:C:C2'	34:BA:990:C:H5'	2.20	0.72
35:BF:14:GLY:O	35:BF:15:VAL:HG13	1.88	0.72
35:BF:162:ILE:HD13	35:BF:162:ILE:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:16:HIS:CA	35:BF:204:ASN:HB2	2.20	0.72
37:BH:106:TYR:HB3	37:BH:114:ARG:HE	1.53	0.72
37:BH:180:GLY:O	37:BH:182:LYS:HG2	1.89	0.72
37:BH:59:ARG:CZ	37:BH:59:ARG:HA	2.18	0.72
38:BI:102:ALA:HB1	38:BI:106:PRO:HB2	1.69	0.72
38:BI:28:PHE:CD1	38:BI:28:PHE:N	2.58	0.72
38:BI:63:ARG:O	38:BI:66:MET:HG2	1.88	0.72
40:BK:113:GLU:CG	40:BK:118:VAL:HB	2.17	0.72
40:BK:46:ALA:CA	40:BK:49:ILE:HD13	2.16	0.72
40:BK:71:PRO:HG2	40:BK:96:GLN:HG3	1.72	0.72
41:BL:43:GLY:O	41:BL:44:PHE:HB2	1.88	0.72
41:BL:92:ARG:N	41:BL:92:ARG:HD2	2.04	0.72
42:BM:79:LEU:HD13	42:BM:101:PHE:CB	2.18	0.72
42:BM:97:LYS:HZ1	42:BM:102:LEU:CD1	1.99	0.72
43:BN:61:GLU:HG2	43:BN:62:HIS:N	2.04	0.72
44:BO:16:SER:O	44:BO:35:PRO:HG3	1.90	0.72
46:BQ:77:ASN:O	46:BQ:80:ARG:NH1	2.21	0.72
46:BQ:87:TYR:OH	52:BW:75:ALA:HB3	1.90	0.72
48:BS:75:PRO:HA	48:BS:78:TYR:CB	2.18	0.72
50:BU:17:LYS:HE3	50:BU:48:GLU:HA	1.71	0.72
51:BV:36:ASN:HB3	51:BV:40:LEU:CG	2.20	0.72
34:BA:1319:A:P	52:BW:12:ASP:OD1	2.48	0.72
52:BW:42:PRO:O	52:BW:45:VAL:HG23	1.89	0.72
52:BW:62:ILE:HD11	52:BW:67:VAL:HG13	1.70	0.72
57:BZ:64:ILE:CG2	57:BZ:188:GLN:CD	2.57	0.72
57:BZ:200:ASP:HB3	57:BZ:228:ARG:HG2	1.72	0.72
57:BZ:69:ARG:NE	57:BZ:269:GLU:HG2	2.05	0.72
57:BZ:390:ARG:O	57:BZ:397:GLN:HB2	1.90	0.72
1:AA:1886:C:H2'	1:AA:1887:C:C6	2.24	0.72
1:AA:1263:U:H5	1:AA:1265:A:N6	1.88	0.72
1:AA:1372:U:H2'	1:AA:1373:A:H5'	1.70	0.72
1:AA:1475:G:H1	1:AA:1477:A:H61	1.33	0.72
1:AA:1546:C:H4'	1:AA:1547:C:H5	1.55	0.72
1:AA:1566:A:O2'	1:AA:1567:A:OP1	2.07	0.72
1:AA:1568:G:H5''	4:AD:60:ARG:O	1.88	0.72
1:AA:1856:G:H2'	1:AA:1857:G:C5'	2.19	0.72
1:AA:1934:C:C4'	1:AA:1974:C:H4'	2.19	0.72
1:AA:2299:G:O2'	1:AA:2300:G:H5'	1.90	0.72
1:AA:2807:G:C2	1:AA:2808:U:C5	2.77	0.72
1:AA:2631:G:P	1:AA:2894:G:H1'	2.18	0.72
1:AA:293:U:H3'	1:AA:293:U:C6	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2507:C:O2	59:AA:3002:8AN:C2	2.38	0.72
1:AA:662:G:O2'	11:AM:18:ARG:HB2	1.90	0.72
1:AA:6:A:C5	1:AA:2898:U:C2	2.77	0.72
1:AA:739:G:H2'	1:AA:1784:A:H61	1.55	0.72
1:AA:760:G:H2'	1:AA:761:A:H5'	1.71	0.72
1:AA:811:U:C6	1:AA:811:U:O5'	2.43	0.72
1:AA:901:A:C4	1:AA:902:C:C6	2.78	0.72
1:AA:2152:G:P	3:AC:3:HIS:CA	2.77	0.72
4:AD:146:GLU:O	4:AD:189:CYS:HB3	1.88	0.72
4:AD:63:ARG:HG3	4:AD:64:ILE:H	1.53	0.72
1:AA:2052:G:N9	5:AE:150:VAL:HG23	2.03	0.72
6:AF:37:VAL:HA	6:AF:184:TYR:CZ	2.25	0.72
7:AG:162:THR:C	7:AG:164:GLU:H	1.92	0.72
7:AG:20:ILE:HG21	7:AG:28:VAL:HG13	1.72	0.72
1:AA:2306:C:C2	7:AG:46:ALA:HB2	2.24	0.72
8:AH:26:VAL:HG11	8:AH:75:ALA:C	2.10	0.72
11:AM:77:ARG:O	11:AM:81:GLN:HG3	1.90	0.72
12:AN:127:ILE:HD13	12:AN:129:THR:CG2	2.19	0.72
16:AR:74:LEU:HD22	16:AR:78:THR:CG2	2.20	0.72
34:BA:1200:C:H5''	34:BA:1201:A:O3'	1.90	0.72
34:BA:1414:U:O4	34:BA:1487:G:O6	2.06	0.72
34:BA:1412:C:O2	34:BA:1489:G:C2	2.43	0.72
34:BA:1516:G:N2	34:BA:1518:A:O5'	2.23	0.72
34:BA:819:A:C2	34:BA:1529:G:O6	2.42	0.72
34:BA:309:G:O2'	34:BA:310:G:C5'	2.37	0.72
35:BF:223:ILE:HG22	35:BF:229:VAL:HA	1.70	0.72
36:BG:140:ARG:HA	36:BG:143:GLU:HB2	1.71	0.72
36:BG:50:ALA:C	36:BG:72:LYS:HD2	2.10	0.72
36:BG:85:ARG:HH21	36:BG:89:GLU:CB	2.01	0.72
37:BH:169:LYS:HG2	37:BH:176:LEU:HD21	1.72	0.72
38:BI:98:THR:HG21	38:BI:119:LEU:HD21	1.72	0.72
42:BM:19:LEU:HD23	42:BM:20:ARG:H	1.55	0.72
43:BN:11:PHE:CE1	47:BR:55:GLY:HA3	2.24	0.72
43:BN:5:ARG:HB2	43:BN:5:ARG:CZ	2.17	0.72
44:BO:122:LYS:C	44:BO:126:ARG:HG3	2.10	0.72
46:BQ:108:ARG:NH1	46:BQ:111:LYS:HB3	2.05	0.72
46:BQ:14:ARG:HG3	46:BQ:16:ASP:OD2	1.90	0.72
57:BZ:160:PHE:HA	57:BZ:161:ALA:C	2.08	0.72
57:BZ:233:PRO:HA	57:BZ:235:GLN:HB3	1.72	0.72
46:BQ:4:ILE:HD12	46:BQ:57:ARG:HG2	1.64	0.72
56:BD:67:C:H2'	56:BD:68:C:H5'	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:4:C:N4	56:BD:69:G:C5	2.54	0.72
1:AA:1504:C:H6	1:AA:1504:C:O5'	1.73	0.72
1:AA:1044:G:N2	1:AA:1046:A:N7	2.37	0.72
1:AA:1313:U:O2'	1:AA:1314:C:H5'	1.89	0.72
1:AA:1475:G:N2	1:AA:1476:C:H5''	2.03	0.72
1:AA:2282:G:H4'	1:AA:2283:C:OP2	1.88	0.72
1:AA:2417:C:H2'	1:AA:2418:A:H8	1.55	0.72
1:AA:2498:C:C2'	1:AA:2499:C:H5''	2.20	0.72
1:AA:2701:C:C3'	1:AA:2702:U:H5''	2.10	0.72
1:AA:1759:A:H5'	1:AA:2715:C:C1'	2.20	0.72
1:AA:2623:G:C5'	1:AA:2826:A:H1'	2.20	0.72
1:AA:290:G:OP2	1:AA:351:G:N2	2.21	0.72
1:AA:531:C:H3'	1:AA:532:A:O4'	1.88	0.72
1:AA:556:G:H2'	1:AA:557:U:H6	1.54	0.72
1:AA:558:G:H5'	9:AK:112:LEU:HD12	1.71	0.72
1:AA:6:A:N1	1:AA:2897:U:C4	2.55	0.72
1:AA:6:A:N3	1:AA:2897:U:O2	2.23	0.72
1:AA:834:C:H1'	1:AA:2358:G:C2	2.25	0.72
1:AA:879:G:C6	1:AA:897:C:C2'	2.56	0.72
1:AA:911:A:H8	1:AA:2264:C:C1'	1.95	0.72
1:AA:914:C:C3'	1:AA:914:C:C6	2.72	0.72
1:AA:923:C:O4'	22:AX:26:TYR:HB2	1.89	0.72
3:AC:86:ALA:CA	3:AC:150:GLY:HA2	2.18	0.72
1:AA:1775:U:C5	4:AD:208:LYS:HD2	2.25	0.72
1:AA:781:A:C1'	4:AD:222:ARG:NH1	2.49	0.72
1:AA:1657:C:C5'	5:AE:133:LYS:HD3	2.17	0.72
5:AE:44:TYR:C	5:AE:45:THR:HG22	2.10	0.72
5:AE:51:PHE:CG	5:AE:52:LEU:N	2.57	0.72
6:AF:56:GLU:O	6:AF:57:VAL:C	2.28	0.72
8:AH:11:VAL:HG13	8:AH:15:VAL:CG1	2.18	0.72
32:AJ:104:VAL:HG12	32:AJ:127:ILE:HD12	0.80	0.72
10:AL:64:ARG:NH1	10:AL:67:LYS:N	2.25	0.72
11:AM:96:THR:HG22	11:AM:99:LEU:HD12	1.71	0.72
11:AM:99:LEU:HD22	11:AM:101:VAL:HG13	1.72	0.72
12:AN:112:GLU:C	12:AN:115:MET:HB2	2.10	0.72
12:AN:77:LYS:HB3	12:AN:78:PRO:HD3	1.71	0.72
16:AR:102:GLU:CB	16:AR:105:VAL:HB	2.20	0.72
20:AV:72:VAL:CG2	20:AV:81:LYS:HE2	2.19	0.72
21:AW:6:LYS:HG2	21:AW:7:ALA:H	1.54	0.72
22:AX:19:LYS:CG	22:AX:20:ARG:H	2.03	0.72
2:AB:12:C:C5	22:AX:74:ARG:HB2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1142:G:H2'	34:BA:1143:G:H8	1.53	0.72
34:BA:160:A:H2'	34:BA:161:A:O4'	1.90	0.72
34:BA:507:C:H2'	34:BA:508:C:H5	1.55	0.72
34:BA:577:G:H21	34:BA:578:C:H1'	1.55	0.72
34:BA:713:G:N2	34:BA:777:A:C1'	2.51	0.72
34:BA:970:C:H5''	34:BA:971:G:OP1	1.90	0.72
34:BA:1158:C:O2'	35:BF:133:LYS:NZ	0.58	0.72
39:BJ:30:LEU:HB3	39:BJ:35:ALA:HB3	1.72	0.72
39:BJ:10:LEU:HD21	39:BJ:61:LEU:HG	1.72	0.72
39:BJ:7:ASN:ND2	39:BJ:62:TRP:CD1	2.58	0.72
39:BJ:53:ALA:HB1	39:BJ:86:ARG:HH11	1.52	0.72
41:BL:120:THR:N	41:BL:123:GLU:OE1	2.23	0.72
34:BA:964:A:H1'	43:BN:55:LYS:NZ	2.04	0.72
40:BK:150:ALA:HA	44:BO:59:TYR:CG	2.25	0.72
44:BO:85:ARG:HE	44:BO:111:ASP:HB3	1.55	0.72
46:BQ:14:ARG:N	46:BQ:43:THR:O	2.23	0.72
46:BQ:56:LEU:HD13	46:BQ:60:VAL:CG2	2.19	0.72
47:BR:26:ARG:HE	47:BR:43:CYS:CA	2.02	0.72
49:BT:8:ARG:C	49:BT:9:PHE:HD2	1.93	0.72
57:BZ:180:ALA:HB3	57:BZ:181:GLU:C	2.10	0.72
57:BZ:230:LYS:HB2	57:BZ:265:THR:CB	2.19	0.72
57:BZ:25:LEU:O	57:BZ:27:GLN:HG3	1.89	0.72
57:BZ:373:MET:HE1	57:BZ:380:LEU:HD23	1.72	0.72
57:BZ:398:GLU:CD	57:BZ:444:PRO:CB	2.59	0.72
57:BZ:407:VAL:HA	57:BZ:408:GLU:HB2	1.70	0.72
57:BZ:509:LYS:HG3	57:BZ:561:ILE:HG21	1.72	0.72
57:BZ:511:PHE:O	57:BZ:560:PRO:HG3	1.88	0.72
55:BC:34:G:H2'	55:BC:35:A:C5'	2.18	0.72
3:AC:148:ASN:ND2	3:AC:152:ILE:HG13	2.04	0.72
8:AH:107:VAL:HG13	8:AH:152:ARG:HE	1.54	0.72
34:BA:1015:A:H2'	34:BA:1016:A:C8	2.24	0.72
1:AA:1005:C:C5	1:AA:1143:A:OP1	2.41	0.71
1:AA:586:A:N6	1:AA:1254:A:C2	2.58	0.71
1:AA:1718:G:C8	1:AA:1725:G:N7	2.58	0.71
1:AA:2227:A:H1'	4:AD:262:ARG:HD2	1.70	0.71
1:AA:2378:A:N1	1:AA:2379:G:H1'	2.05	0.71
1:AA:2031:A:N6	1:AA:2498:C:N1	2.37	0.71
1:AA:2660:A:C2	57:BZ:453:SER:O	2.43	0.71
1:AA:2666:C:H2'	1:AA:2667:C:C5'	2.19	0.71
1:AA:373:U:H4'	1:AA:374:A:C8	2.25	0.71
1:AA:453:C:H4'	1:AA:457:A:N6	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:567:A:N1	1:AA:568:U:O2	2.23	0.71
1:AA:685:A:C1'	1:AA:688:U:O4	2.37	0.71
1:AA:696:G:O2'	1:AA:697:C:H5'	1.90	0.71
1:AA:718:A:H5''	1:AA:719:C:C6	2.25	0.71
4:AD:164:GLN:HB3	4:AD:176:ARG:HB3	1.72	0.71
4:AD:59:LYS:C	4:AD:59:LYS:HD2	2.10	0.71
5:AE:13:ARG:CZ	5:AE:20:ALA:HB3	2.19	0.71
7:AG:37:VAL:HG22	7:AG:159:VAL:HG12	1.72	0.71
7:AG:80:PHE:O	7:AG:83:ARG:NH2	2.23	0.71
9:AK:35:ARG:NH1	9:AK:48:MET:HE1	2.04	0.71
10:AL:112:MET:HA	10:AL:115:VAL:CG2	2.18	0.71
10:AL:25:LEU:H	10:AL:39:ILE:HG22	1.55	0.71
10:AL:10:VAL:HG23	10:AL:83:ALA:O	1.90	0.71
12:AN:56:ARG:NH2	12:AN:57:HIS:HB2	2.05	0.71
17:AS:62:LEU:HB2	17:AS:64:HIS:ND1	2.05	0.71
20:AV:72:VAL:HG11	20:AV:96:ILE:HG21	1.71	0.71
34:BA:1227:A:H8	34:BA:1228:C:O4'	1.72	0.71
35:BF:31:TYR:HE2	35:BF:200:ILE:HG21	1.54	0.71
37:BH:200:GLU:CG	37:BH:201:GLN:HE21	2.02	0.71
38:BI:106:PRO:O	38:BI:109:ILE:HG22	1.89	0.71
38:BI:43:LEU:HB3	38:BI:136:MET:HE2	1.72	0.71
42:BM:48:GLU:N	42:BM:49:PRO:HD2	2.05	0.71
42:BM:71:SER:HA	42:BM:74:ILE:HD12	1.72	0.71
46:BQ:108:ARG:HA	46:BQ:108:ARG:NH1	2.00	0.71
46:BQ:19:LEU:CB	46:BQ:25:ILE:HG21	2.19	0.71
49:BT:72:ARG:NH2	49:BT:73:LEU:HB2	2.04	0.71
51:BV:18:ARG:NH2	51:BV:21:LYS:HD3	2.05	0.71
51:BV:63:GLN:OE1	51:BV:66:LEU:HD21	1.90	0.71
52:BW:40:ILE:O	52:BW:68:GLY:HA2	1.90	0.71
52:BW:51:VAL:CG1	52:BW:75:ALA:CB	2.67	0.71
34:BA:192:U:C1'	53:BX:103:GLY:HA2	2.20	0.71
57:BZ:200:ASP:CB	57:BZ:228:ARG:CG	2.51	0.71
56:BD:67:C:H5	56:BD:68:C:N4	1.87	0.71
1:AA:1025:G:H1'	1:AA:1134:G:C4'	2.19	0.71
1:AA:1203:G:H1	1:AA:1206:G:H1	1.35	0.71
1:AA:1565:C:N3	1:AA:1567:A:C1'	2.52	0.71
1:AA:1617:C:C4'	1:AA:1617:C:OP2	2.38	0.71
1:AA:1661:G:H2'	1:AA:1662:C:H6	1.55	0.71
1:AA:1935:G:HO2'	1:AA:1937:A:H2	0.76	0.71
1:AA:2021:C:H5'	1:AA:2022:U:H5	1.55	0.71
1:AA:2559:C:O2'	1:AA:2560:C:H5'	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2569:G:C2	1:AA:2570:G:N7	2.57	0.71
1:AA:2629:A:N1	1:AA:2801:A:H2	1.86	0.71
1:AA:675:A:H1'	1:AA:2443:C:O2'	1.90	0.71
1:AA:703:U:H3'	1:AA:704:G:H8	1.55	0.71
1:AA:956:G:P	12:AN:87:LYS:HZ2	2.13	0.71
3:AC:78:ALA:O	3:AC:119:VAL:HG11	1.89	0.71
5:AE:119:ARG:HE	5:AE:120:TRP:N	1.87	0.71
5:AE:119:ARG:NH2	5:AE:155:LYS:HD2	2.06	0.71
6:AF:195:ASP:O	6:AF:197:ASP:N	2.22	0.71
7:AG:5:VAL:CG1	7:AG:9:ARG:HH22	2.02	0.71
8:AH:43:VAL:CG1	8:AH:44:VAL:N	2.54	0.71
9:AK:74:ARG:HE	9:AK:82:LEU:HD11	1.54	0.71
10:AL:101:PRO:HD3	10:AL:119:PRO:O	1.90	0.71
10:AL:97:ARG:NH2	10:AL:97:ARG:CB	2.39	0.71
10:AL:9:GLU:CB	10:AL:82:ASN:HB3	2.17	0.71
12:AN:37:LEU:HA	12:AN:100:GLY:HA2	1.72	0.71
15:AQ:11:GLU:N	15:AQ:11:GLU:OE2	2.22	0.71
15:AQ:27:THR:HG22	15:AQ:28:VAL:H	1.55	0.71
19:AU:8:ILE:C	19:AU:9:LEU:HG	2.09	0.71
20:AV:11:ASP:O	20:AV:73:ARG:HD2	1.91	0.71
21:AW:95:PRO:HD2	21:AW:131:ARG:HG2	1.71	0.71
34:BA:1118:C:C6	34:BA:1179:A:N3	2.43	0.71
34:BA:1405:G:O4'	34:BA:1519:A:H4'	1.89	0.71
34:BA:1403:C:O2'	34:BA:1499:A:N6	2.24	0.71
34:BA:968:A:H4'	34:BA:969:A:OP2	1.89	0.71
34:BA:95:G:C2	34:BA:96:G:H1'	2.25	0.71
56:BE:8:U:H1'	56:BE:48:C:H1'	1.71	0.71
37:BH:106:TYR:HD2	37:BH:114:ARG:HG2	1.55	0.71
37:BH:152:SER:O	37:BH:155:LEU:HD22	1.89	0.71
41:BL:11:THR:HA	41:BL:14:ARG:CZ	2.20	0.71
41:BL:93:VAL:O	41:BL:133:LEU:HG	1.89	0.71
45:BP:101:VAL:HG23	45:BP:104:VAL:HG21	1.72	0.71
46:BQ:108:ARG:HD2	46:BQ:108:ARG:N	2.05	0.71
46:BQ:16:ASP:OD2	46:BQ:34:LEU:HD11	1.90	0.71
49:BT:6:LEU:O	49:BT:6:LEU:HD22	1.90	0.71
46:BQ:80:ARG:CB	52:BW:65:ASN:ND2	2.53	0.71
57:BZ:158:LEU:HA	57:BZ:159:ASP:HB3	1.71	0.71
57:BZ:204:PRO:O	57:BZ:229:GLY:N	2.23	0.71
57:BZ:407:VAL:HA	57:BZ:408:GLU:O	1.89	0.71
57:BZ:495:LYS:O	57:BZ:538:LEU:CD1	2.38	0.71
14:AP:33:LYS:HG2	14:AP:54:LEU:HD21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:293:ASN:N	57:BZ:294:VAL:HA	2.04	0.71
1:AA:1019:U:OP2	1:AA:1036:G:O4'	2.07	0.71
1:AA:443:A:N3	1:AA:1201:C:H1'	2.05	0.71
1:AA:1265:A:C8	1:AA:1267:U:O4	2.43	0.71
1:AA:1286:A:N3	1:AA:1329:U:C4	2.58	0.71
1:AA:1670:C:OP2	1:AA:1671:U:C5	2.43	0.71
1:AA:1798:U:C5'	4:AD:257:LEU:HD12	2.20	0.71
1:AA:1910:G:N2	1:AA:1921:G:N7	2.33	0.71
1:AA:2127:G:O2'	1:AA:2128:C:H5'	1.91	0.71
1:AA:2415:G:H5''	11:AM:61:ARG:CD	2.19	0.71
1:AA:2524:G:H5'	1:AA:2764:A:HO2'	1.54	0.71
1:AA:2533:A:H1'	1:AA:2664:G:C4'	2.20	0.71
1:AA:2647:U:C2'	1:AA:2648:C:H6	2.03	0.71
1:AA:270(X):G:C6	1:AA:270(Y):G:H1'	2.26	0.71
1:AA:459:U:C5	1:AA:469:G:N2	2.58	0.71
1:AA:510:C:O5'	1:AA:512:G:N1	2.24	0.71
1:AA:514:A:C2	1:AA:515:A:N9	2.57	0.71
1:AA:754:C:C2'	1:AA:755:C:H5'	2.19	0.71
1:AA:786:C:C2'	1:AA:787:U:H5'	2.20	0.71
2:AB:30:C:H1'	2:AB:58:A:C2	2.26	0.71
3:AC:100:ILE:HA	3:AC:103:ILE:HD12	1.73	0.71
4:AD:177:LEU:HD21	4:AD:181:GLU:HB3	1.70	0.71
4:AD:201:HIS:CD2	4:AD:202:LYS:HE2	2.25	0.71
6:AF:156:LEU:HD12	6:AF:167:ALA:HB1	1.71	0.71
6:AF:24:LEU:H	6:AF:25:PRO:HD2	1.55	0.71
8:AH:60:ARG:HG2	8:AH:64:LEU:HD12	1.72	0.71
32:AJ:82:ALA:HA	32:AJ:99:ILE:HG23	1.64	0.71
9:AK:107:LEU:HB3	9:AK:117:PHE:CZ	2.25	0.71
9:AK:122:VAL:HG23	9:AK:123:TYR:N	2.03	0.71
9:AK:67:LEU:H	9:AK:87:LEU:HD22	1.55	0.71
11:AM:75:ILE:CG2	11:AM:115:LEU:HD11	2.17	0.71
11:AM:51:PHE:O	11:AM:55:ARG:HG3	1.89	0.71
12:AN:32:TYR:CE1	12:AN:106:VAL:HG23	2.25	0.71
12:AN:77:LYS:CB	12:AN:78:PRO:HD3	2.20	0.71
1:AA:2250:G:N7	12:AN:83:MET:O	2.23	0.71
16:AR:22:LYS:H	16:AR:24:TYR:HE1	1.37	0.71
23:AY:19:LEU:HD13	23:AY:20:VAL:N	2.05	0.71
34:BA:1253:G:H21	34:BA:1254:C:H1'	1.54	0.71
34:BA:1320:C:N4	52:BW:52:TYR:O	2.22	0.71
34:BA:14:U:H2'	34:BA:16:A:OP2	1.89	0.71
34:BA:259:G:H2'	34:BA:260:G:H8	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:517:G:H22	34:BA:533:A:P	2.13	0.71
34:BA:708:C:H4'	44:BO:37:GLY:HA3	1.71	0.71
34:BA:719:C:H3'	34:BA:720:C:C6	2.26	0.71
34:BA:959:A:H3'	34:BA:960:U:C5'	2.18	0.71
36:BG:120:VAL:CG1	36:BG:133:ALA:HB1	2.19	0.71
36:BG:47:LEU:O	36:BG:52:LEU:HD22	1.90	0.71
37:BH:13:ARG:HH11	37:BH:36:ARG:HB2	1.56	0.71
37:BH:166:LYS:NZ	37:BH:178:VAL:O	2.21	0.71
37:BH:20:TYR:HA	37:BH:33:MET:SD	2.30	0.71
38:BI:133:TYR:HD2	38:BI:136:MET:HG3	1.56	0.71
39:BJ:33:TYR:HE2	39:BJ:74:ASP:CB	2.03	0.71
41:BL:113:SER:HA	41:BL:117:GLY:O	1.90	0.71
41:BL:14:ARG:HD2	41:BL:15:ASN:N	2.05	0.71
41:BL:27:PRO:O	41:BL:32:LYS:HD3	1.90	0.71
43:BN:11:PHE:CD1	47:BR:55:GLY:HA3	2.25	0.71
44:BO:102:GLY:C	44:BO:104:GLN:N	2.40	0.71
44:BO:86:GLY:HA2	44:BO:112:THR:HG23	1.72	0.71
44:BO:51:LYS:HD3	44:BO:52:GLY:H	1.55	0.71
44:BO:71:LYS:O	44:BO:74:ALA:HB3	1.90	0.71
45:BP:61:THR:O	45:BP:62:SER:OG	2.09	0.71
46:BQ:20:THR:OG1	46:BQ:30:ALA:HB2	1.90	0.71
46:BQ:19:LEU:CA	46:BQ:25:ILE:HG21	2.21	0.71
57:BZ:84:GLU:HG3	57:BZ:85:VAL:N	2.06	0.71
57:BZ:8:ILE:HD11	57:BZ:96:LEU:HD12	1.69	0.71
56:BD:59:U:O2'	56:BD:60:U:H5'	1.89	0.71
1:AA:2110:G:H2'	1:AA:2120:G:C5'	2.19	0.71
40:BK:132:GLY:O	40:BK:136:LYS:HB3	1.90	0.71
1:AA:1075:C:C6	32:AJ:90:LYS:NZ	2.58	0.71
1:AA:1223:C:C2	1:AA:1227:A:N1	2.59	0.71
1:AA:1322:A:P	18:AT:11:ARG:HH11	2.14	0.71
1:AA:1788:C:O2	4:AD:222:ARG:NH2	2.23	0.71
1:AA:1803:A:H2'	1:AA:1804:C:C6	2.24	0.71
1:AA:1827:C:H1'	1:AA:1970:A:H2	1.56	0.71
1:AA:1910:G:C8	1:AA:1921:G:C2	2.67	0.71
1:AA:578:A:C2	1:AA:2018:G:O4'	2.44	0.71
1:AA:2225:A:H4'	1:AA:2226:C:O5'	1.90	0.71
1:AA:2393:A:O2'	1:AA:2394:C:H5'	1.90	0.71
1:AA:2651:C:C4	1:AA:2670:A:N6	2.59	0.71
1:AA:2659:G:H1'	1:AA:2663:G:N2	2.05	0.71
1:AA:2663:G:H2'	1:AA:2664:G:C8	2.26	0.71
1:AA:2670:A:H2'	1:AA:2671:A:H8	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:270(Z):U:H4'	1:AA:270(Z):U:OP1	1.87	0.71
1:AA:1051:G:O4'	1:AA:2752:C:OP1	2.07	0.71
1:AA:2787:C:C1'	5:AE:61:ARG:HD2	2.21	0.71
1:AA:2875:C:H4'	15:AQ:3:ARG:HB2	1.71	0.71
1:AA:465:G:N3	1:AA:683:C:O2'	2.19	0.71
1:AA:603:A:H2'	1:AA:604:G:H8	1.54	0.71
1:AA:5:A:O2'	1:AA:6:A:H5'	1.90	0.71
1:AA:774:A:O2'	1:AA:775:G:C8	2.43	0.71
1:AA:974(A):C:O2	1:AA:1186:G:N1	2.21	0.71
2:AB:48:A:H2'	2:AB:49:C:H6	1.51	0.71
1:AA:2178:C:H5'	3:AC:46:LYS:HB3	1.71	0.71
4:AD:154:LYS:O	4:AD:155:LEU:HB3	1.88	0.71
5:AE:13:ARG:NH2	5:AE:20:ALA:CB	2.49	0.71
6:AF:142:TRP:O	6:AF:145:GLU:HB2	1.91	0.71
7:AG:45:GLU:C	7:AG:47:LYS:H	1.94	0.71
32:AJ:23:VAL:HG11	32:AJ:37:PHE:HB2	1.71	0.71
9:AK:11:PRO:HB2	9:AK:13:TRP:CZ3	2.25	0.71
9:AK:86:PRO:HD2	9:AK:89:LYS:HD2	1.71	0.71
10:AL:94:ARG:CG	10:AL:95:GLY:N	2.53	0.71
1:AA:2415:G:H5''	11:AM:61:ARG:CG	2.21	0.71
17:AS:36:PRO:CA	17:AS:61:VAL:HG22	2.20	0.71
19:AU:63:LYS:H	19:AU:72:LYS:CG	2.03	0.71
34:BA:1129:C:OP1	42:BM:16:ARG:NH2	2.22	0.71
34:BA:120:A:N7	34:BA:122:G:C6	2.59	0.71
34:BA:192:U:H2'	34:BA:193:C:C6	2.25	0.71
34:BA:498:A:H4'	34:BA:500:G:H5'	1.72	0.71
34:BA:959:A:H2'	34:BA:960:U:C4'	2.20	0.71
35:BF:132:LYS:CE	35:BF:132:LYS:H	2.03	0.71
36:BG:182:ILE:HG23	36:BG:203:PHE:HA	1.71	0.71
37:BH:76:ARG:O	37:BH:79:PHE:HB3	1.91	0.71
38:BI:37:ARG:HA	38:BI:112:LEU:O	1.89	0.71
40:BK:15:ASP:H	40:BK:20:ASP:H	1.38	0.71
41:BL:64:LYS:CG	41:BL:79:VAL:HG21	2.19	0.71
41:BL:80:ILE:N	41:BL:80:ILE:HD12	2.03	0.71
46:BQ:14:ARG:HA	46:BQ:43:THR:O	1.90	0.71
46:BQ:19:LEU:O	46:BQ:25:ILE:CB	2.38	0.71
47:BR:27:CYS:SG	47:BR:43:CYS:N	2.63	0.71
34:BA:624:C:H4'	49:BT:10:GLY:O	1.90	0.71
49:BT:18:ARG:HH12	49:BT:35:LYS:HB2	0.74	0.71
50:BU:82:MET:HA	50:BU:85:VAL:CG2	2.20	0.71
57:BZ:13:HIS:CB	57:BZ:108:GLN:HB2	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:3:C:O2	56:BD:70:G:C6	2.43	0.71
1:AA:1182:A:C3'	1:AA:1183:G:H3'	2.19	0.71
1:AA:1534:G:N2	1:AA:1537:C:H41	1.88	0.71
1:AA:1697:G:H5''	1:AA:1698:A:C5'	2.21	0.71
1:AA:1703:G:H21	1:AA:1704:G:H1'	1.55	0.71
1:AA:1788:C:N4	1:AA:1789:A:C8	2.59	0.71
1:AA:1955:U:O5'	1:AA:1956:U:O4	2.08	0.71
1:AA:2001:A:H2'	1:AA:2002:G:C8	2.24	0.71
1:AA:2024:G:H2'	1:AA:2025:C:O4'	1.89	0.71
1:AA:2027:G:H1'	1:AA:2037:G:H22	1.52	0.71
1:AA:2160:G:H2'	1:AA:2161:C:C6	2.25	0.71
1:AA:2323:G:O2'	1:AA:2324:C:H5'	1.90	0.71
1:AA:411:G:O4'	1:AA:2407:G:OP1	2.08	0.71
1:AA:2522:U:H5'	1:AA:2523:G:OP2	1.91	0.71
1:AA:2619:C:H4'	5:AE:152:LYS:CA	2.06	0.71
1:AA:2674:G:C4	1:AA:2675:A:N7	2.59	0.71
1:AA:2685:G:H4'	10:AL:66:LYS:HE3	1.71	0.71
1:AA:2807:G:N3	1:AA:2807:G:H2'	2.05	0.71
1:AA:2629:A:H5'	1:AA:2895:U:C1'	2.20	0.71
1:AA:526:A:H5''	1:AA:527:C:OP2	1.91	0.71
1:AA:652:C:O5'	1:AA:652:C:H6	1.73	0.71
1:AA:663:G:H4'	11:AM:18:ARG:HE	1.55	0.71
1:AA:801:G:N7	6:AF:54:ARG:HG2	2.06	0.71
1:AA:957:A:N7	1:AA:959:A:N7	2.38	0.71
3:AC:71:GLN:HG2	3:AC:174:PRO:CD	2.20	0.71
4:AD:129:ASN:O	4:AD:193:VAL:CB	2.37	0.71
1:AA:2227:A:H5''	4:AD:260:ARG:HD2	1.72	0.71
5:AE:121:ASN:HB3	5:AE:122:PHE:HD1	1.54	0.71
1:AA:2756:U:H5'	6:AF:18:ARG:O	139.08	0.71
7:AG:141:PHE:HE2	7:AG:145:THR:HA	1.54	0.71
7:AG:75:LYS:HD3	7:AG:85:GLY:N	2.05	0.71
7:AG:44:GLY:H	7:AG:88:ILE:CG2	2.03	0.71
8:AH:164:TYR:CE2	8:AH:167:GLU:HG2	2.25	0.71
32:AJ:104:VAL:O	32:AJ:127:ILE:HD11	1.89	0.71
11:AM:99:LEU:HD22	11:AM:101:VAL:HG22	1.72	0.71
11:AM:89:ALA:C	11:AM:125:VAL:HG22	2.11	0.71
11:AM:122:PRO:HG3	11:AM:137:LYS:O	1.91	0.71
12:AN:93:TYR:O	12:AN:94:VAL:HG12	1.90	0.71
12:AN:99:PRO:CG	12:AN:101:ARG:HE	2.02	0.71
17:AS:28:GLU:C	17:AS:30:GLY:H	1.92	0.71
18:AT:72:LYS:HB3	18:AT:108:GLY:HA3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:72:LYS:O	18:AT:73:ALA:O	2.09	0.71
21:AW:100:VAL:O	21:AW:124:ILE:HG23	1.90	0.71
21:AW:105:VAL:N	21:AW:140:ASP:OD1	2.22	0.71
21:AW:141:VAL:CG1	21:AW:142:SER:N	2.53	0.71
21:AW:24:LEU:CD1	21:AW:83:PRO:HD2	2.19	0.71
34:BA:1002:G:N1	34:BA:1003:G:O6	2.23	0.71
34:BA:1063:C:H5'	34:BA:1064:G:OP2	1.91	0.71
34:BA:1157:A:H4'	34:BA:1158:C:O2	1.90	0.71
34:BA:1196:U:H6	34:BA:1196:U:H3'	1.54	0.71
34:BA:1313:U:H3	34:BA:1324:A:H2	0.77	0.71
34:BA:1416:G:H2'	34:BA:1417:G:H8	1.55	0.71
34:BA:524:G:O2'	34:BA:525:C:H5'	1.90	0.71
34:BA:958:A:C5	52:BW:56:GLN:NE2	2.54	0.71
36:BG:77:ILE:HD11	36:BG:103:VAL:HG21	1.72	0.71
36:BG:88:ARG:O	36:BG:91:LEU:HB3	1.89	0.71
37:BH:141:ARG:O	37:BH:143:GLY:N	2.24	0.71
37:BH:148:VAL:HG21	37:BH:162:LEU:CD1	2.20	0.71
37:BH:61:LYS:HG3	37:BH:207:TYR:CE1	2.23	0.71
37:BH:74:GLN:CA	37:BH:77:ASN:HD22	1.96	0.71
41:BL:5:PRO:HA	41:BL:8:ASP:HB3	1.69	0.71
44:BO:54:ARG:O	44:BO:57:THR:HG22	1.90	0.71
45:BP:68:ALA:HB1	45:BP:98:TYR:O	1.91	0.71
50:BU:7:THR:O	50:BU:23:VAL:HG23	1.90	0.71
57:BZ:221:ILE:HG22	57:BZ:223:ILE:HG13	1.71	0.71
57:BZ:233:PRO:CB	57:BZ:234:ASN:HB2	2.19	0.71
57:BZ:379:GLU:CD	57:BZ:581:THR:HG21	1.84	0.71
57:BZ:424:GLY:C	57:BZ:441:TYR:HD2	1.94	0.71
57:BZ:397:GLN:HB3	57:BZ:472:TYR:C	2.05	0.71
57:BZ:564:THR:HB	57:BZ:566:GLU:C	2.11	0.71
1:AA:885:C:N4	1:AA:889:C:O3'	2.23	0.71
57:BZ:35:ARG:HA	57:BZ:36:ALA:O	1.90	0.71
55:BC:39:U:C3'	55:BC:40:C:H5'	2.20	0.71
1:AA:1014:U:C2'	1:AA:1015:G:H5'	2.20	0.71
1:AA:1355:G:H22	1:AA:1377:G:H1'	1.53	0.71
1:AA:1453:A:N1	1:AA:1454:U:H1'	2.06	0.71
1:AA:1799:G:H22	4:AD:157:ARG:HH22	1.39	0.71
1:AA:1815:A:H1'	1:AA:1817:G:C5	2.26	0.71
1:AA:2010:G:C2'	1:AA:2011:U:H5'	2.19	0.71
1:AA:2168:G:H2'	1:AA:2170:A:OP2	1.89	0.71
1:AA:2476:A:C8	1:AA:2477:C:C5	2.78	0.71
1:AA:270(Q):C:C2	1:AA:270(R):G:C8	2.79	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:343:C:H2'	1:AA:344:G:C5'	2.21	0.71
1:AA:352:G:N2	1:AA:353:G:H1'	2.05	0.71
1:AA:37:C:H4'	1:AA:451:C:OP1	1.91	0.71
1:AA:562:U:O2	1:AA:572:A:C1'	2.39	0.71
1:AA:569:U:H1'	1:AA:947:G:C1'	2.21	0.71
1:AA:569:U:H1'	1:AA:947:G:H1'	1.73	0.71
1:AA:880:G:O6	1:AA:897:C:O2	2.02	0.71
1:AA:989:G:OP1	24:AZ:31:LEU:HD23	1.90	0.71
3:AC:71:GLN:CG	3:AC:174:PRO:HG3	2.15	0.71
3:AC:197:GLU:O	3:AC:200:LYS:HB3	1.90	0.71
4:AD:91:ARG:CZ	4:AD:198:ASN:ND2	2.54	0.71
4:AD:231:HIS:O	4:AD:232:PRO:C	2.29	0.71
7:AG:40:ASN:ND2	7:AG:41:GLN:H	1.89	0.71
7:AG:9:ARG:HG2	7:AG:13:GLU:OE2	1.90	0.71
1:AA:557:U:H4'	9:AK:112:LEU:HD21	1.72	0.71
10:AL:16:ALA:C	10:AL:18:LYS:H	1.91	0.71
10:AL:47:ILE:HD12	10:AL:52:VAL:CG2	2.21	0.71
10:AL:6:THR:O	10:AL:20:MET:CA	2.25	0.71
10:AL:94:ARG:HG3	10:AL:95:GLY:H	1.56	0.71
11:AM:126:VAL:HB	11:AM:146:VAL:N	2.06	0.71
12:AN:77:LYS:CB	12:AN:78:PRO:CD	2.68	0.71
14:AP:24:LEU:H	14:AP:86:ALA:CB	2.03	0.71
14:AP:60:GLY:C	14:AP:62:LYS:H	1.93	0.71
21:AW:39:VAL:HG21	21:AW:86:VAL:CG2	2.20	0.71
34:BA:1084:G:H2'	34:BA:1085:U:C6	2.25	0.71
34:BA:1105:A:H2'	34:BA:1106:G:H8	1.54	0.71
34:BA:1129:C:H1'	34:BA:1130:A:N7	2.06	0.71
34:BA:1117:G:O6	34:BA:1184:G:C6	2.42	0.71
34:BA:122:G:O2'	34:BA:123:C:H5'	1.89	0.71
34:BA:1260:C:H4'	34:BA:1284:C:H5''	1.72	0.71
34:BA:1309:G:H21	34:BA:1328:C:H2'	1.55	0.71
34:BA:1311:G:N3	34:BA:1327:C:H1'	2.05	0.71
34:BA:1358:U:OP2	34:BA:1359:C:H5	1.73	0.71
34:BA:1412:C:H2'	34:BA:1413:A:C8	2.26	0.71
34:BA:254:G:O2'	34:BA:255:G:H5'	1.89	0.71
34:BA:575:G:N1	34:BA:821:G:C8	2.59	0.71
22:AX:4:LYS:HZ2	56:BE:75:C:H2'	0.89	0.71
35:BF:187:LEU:C	35:BF:187:LEU:HD13	2.11	0.71
35:BF:59:GLU:HB3	35:BF:221:LEU:CD2	2.17	0.71
35:BF:82:ARG:CA	35:BF:94:ASN:HD21	2.03	0.71
36:BG:22:TRP:CZ3	36:BG:32:LEU:HB3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:15:GLU:HG2	37:BH:63:LYS:CB	2.20	0.71
38:BI:109:ILE:HG23	38:BI:110:LEU:HD23	1.71	0.71
38:BI:89:ILE:CG1	38:BI:131:ILE:HD12	2.17	0.71
38:BI:147:ASP:HA	38:BI:150:ARG:CB	2.20	0.71
39:BJ:68:PRO:O	39:BJ:71:ARG:HG2	1.90	0.71
40:BK:122:HIS:O	40:BK:125:MET:CG	2.38	0.71
40:BK:72:ARG:HG3	40:BK:73:MET:H	1.56	0.71
41:BL:70:GLN:HE22	41:BL:72:PRO:HD2	1.54	0.71
34:BA:878:G:H5''	41:BL:89:PRO:HG2	1.73	0.71
44:BO:58:PRO:CB	44:BO:90:GLY:HA3	2.20	0.71
45:BP:27:LEU:HB2	45:BP:64:TYR:OH	1.90	0.71
51:BV:46:GLU:H	51:BV:49:LYS:NZ	1.89	0.71
39:BJ:48:LEU:CB	51:BV:78:LEU:HD23	2.20	0.71
52:BW:9:VAL:HG22	52:BW:42:PRO:HB2	0.75	0.71
57:BZ:226:ILE:O	57:BZ:267:LEU:HG	1.90	0.71
57:BZ:325:PHE:O	57:BZ:378:PHE:CE1	2.39	0.71
57:BZ:73:VAL:HG11	57:BZ:88:VAL:CG2	2.17	0.71
32:AJ:92:GLY:CA	32:AJ:93:ARG:HB2	2.18	0.71
1:AA:10:G:H2'	1:AA:11:G:H8	1.56	0.71
1:AA:1238:G:H2'	1:AA:1239:G:O4'	1.91	0.71
1:AA:1270:C:O2	1:AA:1325:G:N7	2.24	0.71
1:AA:146:G:C3'	1:AA:147:U:H5''	2.19	0.71
1:AA:1657:C:H2'	1:AA:1658:C:O4'	1.90	0.71
1:AA:1910:G:N3	1:AA:1921:G:N3	2.39	0.71
1:AA:2031:A:N6	1:AA:2498:C:C2	2.59	0.71
1:AA:2115:G:H5''	1:AA:2116:G:OP2	1.89	0.71
1:AA:2352:A:N7	1:AA:2366:A:C6	2.59	0.71
1:AA:2582:G:C2'	1:AA:2583:G:H5'	2.21	0.71
1:AA:2531:A:C2	1:AA:2658:C:C1'	2.33	0.71
1:AA:270(Q):C:O2'	1:AA:270(R):G:H5'	1.91	0.71
1:AA:336:C:O2'	1:AA:337:C:H5'	1.89	0.71
1:AA:452:G:C3'	1:AA:453:C:H5''	2.13	0.71
1:AA:573:G:H5'	1:AA:576:U:O4	1.91	0.71
1:AA:628:G:C8	1:AA:628:G:O5'	2.42	0.71
1:AA:1799:G:H3'	4:AD:183:ARG:HH21	1.52	0.71
4:AD:214:TRP:CZ2	4:AD:219:PRO:HB3	2.25	0.71
1:AA:783:A:H3'	4:AD:227:ASN:HD21	1.53	0.71
1:AA:1813:G:O2'	4:AD:46:GLN:HG2	1.91	0.71
5:AE:8:LYS:CE	5:AE:8:LYS:H	4.73	0.71
7:AG:86:MET:H	7:AG:87:PRO:CD	2.03	0.71
7:AG:6:ALA:HA	7:AG:9:ARG:CZ	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:8:PRO:CB	8:AH:51:ARG:HH12	2.01	0.71
9:AK:26:LEU:HD12	9:AK:26:LEU:O	1.90	0.71
9:AK:71:ILE:O	9:AK:85:ILE:HD12	1.91	0.71
12:AN:45:GLN:O	12:AN:48:GLU:N	2.24	0.71
13:AO:97:VAL:CA	13:AO:114:VAL:HG13	2.20	0.71
15:AQ:45:PHE:CZ	15:AQ:87:ASP:HB2	2.25	0.71
1:AA:997:G:OP1	16:AR:92:ARG:HD2	1.90	0.71
17:AS:7:THR:HG23	17:AS:11:GLN:CD	2.11	0.71
18:AT:13:SER:O	18:AT:16:LYS:NZ	2.23	0.71
18:AT:66:GLU:HA	18:AT:69:LEU:HD13	1.71	0.71
18:AT:69:LEU:HD23	18:AT:107:LEU:CD2	2.15	0.71
18:AT:88:ARG:HB2	18:AT:94:ASP:CG	2.11	0.71
1:AA:750:A:OP1	18:AT:88:ARG:NH1	2.24	0.71
1:AA:1598:C:C5'	19:AU:36:LYS:HB3	2.16	0.71
34:BA:1005:A:H2'	34:BA:1006:C:H5'	1.70	0.71
34:BA:1414:U:H2'	34:BA:1415:G:C8	2.25	0.71
34:BA:659:U:H2'	34:BA:660:G:C8	2.26	0.71
34:BA:697:U:O5'	34:BA:697:U:H6	1.72	0.71
34:BA:922:G:N2	34:BA:923:A:H1'	2.06	0.71
35:BF:115:LEU:HD13	35:BF:145:LEU:CB	2.19	0.71
36:BG:146:ALA:O	36:BG:147:LYS:HD2	1.90	0.71
36:BG:11:ARG:CG	36:BG:16:ARG:HH21	2.02	0.71
37:BH:148:VAL:HB	37:BH:181:MET:CE	2.17	0.71
37:BH:61:LYS:N	37:BH:203:VAL:HG22	2.06	0.71
38:BI:9:LYS:HG3	38:BI:112:LEU:HG	1.73	0.71
39:BJ:62:TRP:CZ2	39:BJ:64:GLN:HB2	2.26	0.71
46:BQ:16:ASP:CA	46:BQ:34:LEU:HG	2.20	0.71
50:BU:43:LEU:HD11	50:BU:69:LYS:HG3	1.72	0.71
50:BU:61:GLU:HA	50:BU:71:PHE:CE2	2.25	0.71
50:BU:94:ASN:OD1	50:BU:104:LYS:HD2	1.91	0.71
34:BA:1318:A:O2'	52:BW:37:ARG:N	2.24	0.71
57:BZ:13:HIS:CB	57:BZ:109:THR:N	2.54	0.71
57:BZ:236:GLN:CG	57:BZ:237:VAL:N	2.52	0.71
37:BH:156:GLU:O	37:BH:159:ARG:HB3	1.90	0.71
1:AA:1058:G:O2'	32:AJ:116:ASN:ND2	2.21	0.71
1:AA:1080:C:O4'	32:AJ:128:ALA:C	2.29	0.71
1:AA:1104:C:O2'	1:AA:1106:G:OP2	2.05	0.71
1:AA:1142(A):A:H5''	1:AA:1143:A:OP2	1.91	0.71
1:AA:1273:U:H4'	1:AA:1275:A:P	2.30	0.71
1:AA:1332:G:C5	1:AA:1609:A:N6	2.58	0.71
1:AA:2227:A:H1'	4:AD:262:ARG:HH11	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2238:G:C2'	1:AA:2239:G:H5''	2.20	0.71
1:AA:2679:A:O2'	1:AA:2680:C:H5'	1.91	0.71
1:AA:2780:G:C2'	1:AA:2781:A:H5''	2.21	0.71
1:AA:281:G:N2	1:AA:283:A:C5'	2.54	0.71
1:AA:299:A:N1	1:AA:322:A:H2'	2.04	0.71
1:AA:619:G:N7	1:AA:620:G:C2	2.59	0.71
1:AA:807:U:C2'	1:AA:808:G:H5'	2.20	0.71
1:AA:880:G:N1	1:AA:897:C:O2'	2.22	0.71
1:AA:966:G:O2'	1:AA:2267:A:N6	2.23	0.71
3:AC:100:ILE:HD11	3:AC:123:VAL:CG2	2.20	0.71
4:AD:92:ILE:HA	4:AD:107:ALA:HB2	1.72	0.71
4:AD:54:ARG:HB3	4:AD:218:ARG:HB3	1.72	0.71
1:AA:2597:G:C5'	4:AD:242:ARG:HG2	2.20	0.71
5:AE:119:ARG:CD	5:AE:155:LYS:HB3	2.21	0.71
6:AF:181:LEU:N	6:AF:181:LEU:HD13	2.05	0.71
6:AF:34:TRP:HA	6:AF:34:TRP:CE3	2.25	0.71
8:AH:113:VAL:O	8:AH:113:VAL:HG12	1.91	0.71
32:AJ:10:LEU:H	32:AJ:56:GLU:CG	2.04	0.71
12:AN:6:ARG:NH2	12:AN:8:LYS:HG3	2.04	0.71
13:AO:97:VAL:HA	13:AO:114:VAL:CG1	2.21	0.71
16:AR:74:LEU:HD13	16:AR:78:THR:CG2	2.20	0.71
17:AS:35:LEU:O	17:AS:61:VAL:HG13	1.90	0.71
17:AS:5:VAL:CG1	17:AS:37:VAL:HG22	2.20	0.71
17:AS:62:LEU:HD13	17:AS:98:GLU:N	2.05	0.71
21:AW:157:LEU:CD1	21:AW:161:VAL:HG13	2.20	0.71
21:AW:2:GLU:OE2	21:AW:58:VAL:CB	2.37	0.71
21:AW:41:LEU:O	21:AW:44:PHE:HB2	1.91	0.71
34:BA:1128:C:C5	34:BA:1139:G:O6	2.44	0.71
34:BA:1226:C:N4	46:BQ:104:ARG:CD	2.53	0.71
34:BA:1267:C:N4	34:BA:1311:G:O2'	2.24	0.71
34:BA:1466:C:O3'	34:BA:1467:G:O4'	2.09	0.71
34:BA:299:G:H2'	34:BA:300:A:C8	2.24	0.71
34:BA:716:A:O2'	34:BA:717:C:H5'	1.91	0.71
34:BA:578:C:O2'	34:BA:728:A:N3	2.22	0.71
35:BF:132:LYS:O	35:BF:135:GLN:HB2	1.90	0.71
35:BF:134:GLU:OE1	35:BF:134:GLU:HA	1.89	0.71
35:BF:164:VAL:HG12	35:BF:186:ALA:CB	2.21	0.71
35:BF:48:MET:HA	35:BF:51:LEU:CD1	2.21	0.71
38:BI:76:ILE:HG21	38:BI:142:LEU:HB3	1.73	0.71
40:BK:111:ARG:NH1	40:BK:111:ARG:HB3	2.05	0.71
41:BL:126:LYS:HZ2	41:BL:127:LEU:HD23	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:39:PRO:O	43:BN:40:LEU:HB2	1.90	0.71
46:BQ:91:ARG:NH1	46:BQ:97:PRO:O	2.23	0.71
48:BS:15:PHE:CD1	48:BS:30:ALA:HB2	2.25	0.71
34:BA:582:U:C5'	48:BS:64:ARG:HH21	2.02	0.71
50:BU:8:GLY:O	50:BU:56:VAL:HA	1.91	0.71
51:BV:70:ILE:CG2	51:BV:74:ARG:HE	2.01	0.71
57:BZ:101:ALA:HA	57:BZ:140:VAL:HG21	1.71	0.71
57:BZ:178:ASP:O	57:BZ:180:ALA:N	2.23	0.71
57:BZ:309:MET:CE	57:BZ:366:LEU:HB3	2.19	0.71
57:BZ:560:PRO:HB2	57:BZ:562:ARG:HB3	1.72	0.71
57:BZ:56:ILE:O	57:BZ:71:ASN:HA	1.90	0.71
1:AA:1913:A:H2	56:BD:37:A:HO2'	1.38	0.71
56:BD:43:C:H2'	56:BD:44:G:O4'	1.91	0.71
14:AP:33:LYS:HG2	14:AP:54:LEU:HD11	1.72	0.71
1:AA:1081:U:C6	1:AA:1082:U:C5	2.79	0.71
1:AA:1142(A):A:C6	1:AA:1143:A:C8	2.79	0.71
1:AA:51:G:H1'	1:AA:118:A:H62	1.53	0.71
1:AA:586:A:C6	1:AA:1254:A:C2	2.78	0.71
1:AA:1350:C:O2'	1:AA:1351:C:H5'	1.91	0.71
1:AA:1624:G:H2'	1:AA:1625:C:C5	2.26	0.71
1:AA:1665:A:C8	1:AA:2726:U:N3	2.58	0.71
1:AA:1672:C:C5	1:AA:1673:U:C6	2.79	0.71
1:AA:1878:G:H2'	1:AA:1879:C:H6	1.56	0.71
1:AA:1992:G:H4'	1:AA:1993:U:C4	2.26	0.71
1:AA:2283:C:C2	1:AA:2389:G:N2	2.57	0.71
1:AA:2283:C:C5	1:AA:2389:G:N3	2.59	0.71
1:AA:2376:A:OP1	1:AA:2376:A:H8	1.74	0.71
1:AA:2517:C:O2'	1:AA:2518:A:O5'	2.08	0.71
1:AA:2584:U:C2'	1:AA:2585:U:C5	2.73	0.71
1:AA:2799:A:H3'	1:AA:2799:A:OP2	1.91	0.71
1:AA:299:A:O2'	1:AA:319:C:H4'	1.91	0.71
1:AA:460:A:C2'	1:AA:461:C:H6	2.02	0.71
1:AA:566:U:O4	1:AA:575:A:N1	2.24	0.71
1:AA:899:A:C2	1:AA:900:A:H2	2.07	0.71
3:AC:180:PHE:HE2	3:AC:184:LYS:CG	2.04	0.71
4:AD:206:LEU:HD13	4:AD:206:LEU:H	1.54	0.71
1:AA:1804:C:H4'	4:AD:250:TRP:CZ2	2.24	0.71
5:AE:14:ILE:HA	5:AE:19:ARG:HA	1.73	0.71
6:AF:186:ILE:HG22	6:AF:187:VAL:N	2.06	0.71
6:AF:197:ASP:O	6:AF:200:GLU:OE1	2.08	0.71
7:AG:163:ALA:CB	7:AG:172:LEU:HD23	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:36:ALA:C	12:AN:100:GLY:HA2	2.11	0.71
14:AP:23:ARG:O	14:AP:24:LEU:HD12	1.91	0.71
14:AP:53:SER:O	14:AP:55:ALA:N	2.23	0.71
15:AQ:86:ILE:HG22	15:AQ:87:ASP:N	2.05	0.71
16:AR:105:VAL:O	16:AR:108:GLU:OE1	2.09	0.71
1:AA:988:A:H3'	24:AZ:10:LYS:NZ	2.06	0.71
24:AZ:16:PRO:HG2	24:AZ:19:GLN:HB3	1.73	0.71
34:BA:1068:G:H2'	34:BA:1069:C:H6	1.55	0.71
34:BA:1126:U:O2'	34:BA:1127:G:H5'	1.91	0.71
34:BA:1216:G:H2'	34:BA:1217:C:H6	1.55	0.71
34:BA:1270:C:O4'	34:BA:1313:U:H4'	1.91	0.71
34:BA:1274:G:H22	34:BA:1275:A:H62	1.38	0.71
34:BA:1311:G:N1	34:BA:1327:C:C5	2.45	0.71
34:BA:26:A:H61	34:BA:558:G:C2'	2.03	0.71
34:BA:109:A:N7	34:BA:326:G:N3	2.37	0.71
34:BA:359:U:H2'	34:BA:360:A:H8	1.54	0.71
34:BA:484:G:C8	34:BA:486:U:N3	2.59	0.71
34:BA:519:C:OP2	45:BP:50:SER:O	2.08	0.71
34:BA:646:U:O2'	34:BA:647:C:H5'	1.90	0.71
34:BA:777:A:H2'	34:BA:778:G:C8	2.23	0.71
34:BA:803:G:O2'	34:BA:804:U:H5'	1.91	0.71
34:BA:88:C:O2'	34:BA:89:U:C6	2.40	0.71
34:BA:973:G:N2	34:BA:974:A:C6	2.58	0.71
35:BF:12:GLU:O	35:BF:14:GLY:N	2.22	0.71
36:BG:28:GLN:HA	36:BG:30:ARG:CZ	2.21	0.71
37:BH:177:ASP:OD1	37:BH:179:GLU:HB3	1.91	0.71
37:BH:50:ARG:HG2	37:BH:51:PRO:CD	2.17	0.71
40:BK:42:ILE:HG22	40:BK:120:ILE:HD11	1.73	0.71
41:BL:85:ARG:HD2	41:BL:134:ILE:O	1.90	0.71
43:BN:79:ARG:HH22	43:BN:82:ILE:CD1	2.02	0.71
43:BN:82:ILE:HG23	43:BN:86:MET:SD	2.31	0.71
44:BO:22:HIS:ND1	44:BO:29:ILE:HD11	2.05	0.71
44:BO:95:ILE:CA	44:BO:98:LEU:HG	2.20	0.71
45:BP:82:VAL:O	45:BP:106:ASP:HB2	1.91	0.71
45:BP:56:ALA:HB2	45:BP:70:ILE:HG12	1.73	0.71
48:BS:36:ILE:HG22	48:BS:37:ASN:ND2	2.06	0.71
49:BT:20:VAL:HA	49:BT:36:ILE:HG12	1.72	0.71
51:BV:40:LEU:O	51:BV:43:PHE:HD1	1.73	0.71
52:BW:22:LEU:CG	52:BW:25:LYS:HZ1	2.01	0.71
57:BZ:116:ALA:O	57:BZ:119:TYR:HB2	1.91	0.71
57:BZ:204:PRO:CA	57:BZ:290:ASP:OD1	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:377:GLY:CA	57:BZ:582:PRO:HG2	2.16	0.71
57:BZ:426:LEU:CB	57:BZ:441:TYR:CE2	2.69	0.71
1:AA:1579:A:N7	1:AA:1580:A:N3	2.38	0.71
1:AA:2111:C:C6	1:AA:2111:C:OP2	2.44	0.71
1:AA:1059:G:C3'	32:AJ:74:ALA:N	2.54	0.71
1:AA:974:G:O4'	1:AA:1187:G:H1'	1.90	0.71
1:AA:1274:A:C2	1:AA:1302:A:H2	2.08	0.71
1:AA:1382:G:H2'	1:AA:1383:C:C6	2.25	0.71
1:AA:1543:A:H5''	1:AA:1544:C:OP2	1.90	0.71
1:AA:1609:A:N7	1:AA:1616:A:N3	2.38	0.71
1:AA:1665:A:H5'	10:AL:66:LYS:HD3	1.71	0.71
1:AA:1910:G:C4	1:AA:1921:G:N3	2.43	0.71
1:AA:196:A:H3'	1:AA:197:A:H5''	1.72	0.71
1:AA:1992:G:C1'	1:AA:1993:U:O4	2.38	0.71
1:AA:200:U:H5'	1:AA:201:C:OP2	1.91	0.71
1:AA:2307:G:H3'	1:AA:2308:G:C4'	2.20	0.71
1:AA:2423:U:O2'	1:AA:2425:A:H3'	1.91	0.71
1:AA:2466:C:H2'	1:AA:2467:C:H6	1.56	0.71
1:AA:2670:A:C2	1:AA:2671:A:N7	2.58	0.71
1:AA:572:A:N7	1:AA:573:G:C6	2.59	0.71
1:AA:871:U:H2'	1:AA:872:A:H8	1.56	0.71
3:AC:162:GLU:CG	3:AC:163:PHE:H	2.02	0.71
4:AD:261:LYS:O	4:AD:263:ARG:N	2.24	0.71
4:AD:75:ILE:HD13	4:AD:99:ASP:HB3	1.72	0.71
5:AE:115:GLY:HA2	5:AE:157:ALA:HA	1.71	0.71
5:AE:172:VAL:HA	5:AE:184:VAL:HG12	1.72	0.71
5:AE:8:LYS:HG2	15:AQ:6:LEU:HD11	1.71	0.71
6:AF:12:LEU:HB3	6:AF:127:GLU:HB3	1.71	0.71
8:AH:149:ARG:HA	8:AH:162:ILE:HD13	1.72	0.71
8:AH:35:VAL:HG12	8:AH:71:LEU:HD23	1.72	0.71
8:AH:71:LEU:O	8:AH:74:ASN:HB3	1.91	0.71
12:AN:74:TYR:N	12:AN:74:TYR:CD2	2.49	0.71
13:AO:44:LEU:HD11	13:AO:48:VAL:HG21	1.72	0.71
13:AO:64:ARG:NH1	13:AO:65:LEU:HB2	2.06	0.71
14:AP:58:LEU:O	14:AP:65:VAL:HG12	1.90	0.71
14:AP:75:GLU:O	14:AP:78:LEU:HB3	1.89	0.71
20:AV:77:PRO:HG2	20:AV:78:ALA:H	1.56	0.71
34:BA:1108:G:H2'	34:BA:1109:C:C6	2.26	0.71
34:BA:1117:G:N3	34:BA:1184:G:C4	2.58	0.71
34:BA:1192:C:C6	34:BA:1192:C:C3'	2.69	0.71
34:BA:1276:G:H2'	34:BA:1277:C:O4'	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1315:U:O3'	34:BA:1360:A:H1'	1.91	0.71
34:BA:1513:A:H2'	34:BA:1514:C:C6	2.26	0.71
34:BA:66:G:C4'	34:BA:173:U:C4	2.73	0.71
34:BA:267:C:C4	34:BA:268:C:N4	2.59	0.71
34:BA:34:C:H2'	34:BA:35:G:H8	1.55	0.71
34:BA:716:A:H1'	44:BO:118:GLY:CA	2.18	0.71
34:BA:878:G:H2'	34:BA:879:C:H6	1.54	0.71
34:BA:890:G:H2'	34:BA:906:G:O6	1.90	0.71
34:BA:949:A:H2'	34:BA:950:U:C6	2.26	0.71
56:BE:4:C:C2	56:BE:6:G:H8	2.07	0.71
35:BF:187:LEU:HD13	35:BF:188:ALA:N	2.06	0.71
35:BF:21:ARG:O	35:BF:23:ARG:N	2.24	0.71
36:BG:91:LEU:HD11	36:BG:99:VAL:H	1.55	0.71
37:BH:93:PHE:O	37:BH:94:LEU:C	2.29	0.71
40:BK:50:ILE:HG21	40:BK:58:PRO:HA	1.71	0.71
41:BL:14:ARG:O	41:BL:18:ARG:NE	2.24	0.71
43:BN:31:GLY:HA3	43:BN:74:ILE:HG21	1.72	0.71
45:BP:100:ILE:HD13	45:BP:100:ILE:N	2.06	0.71
49:BT:33:ILE:O	49:BT:34:GLU:HB2	1.89	0.71
39:BJ:98:LEU:HG	51:BV:28:GLU:HG3	1.73	0.71
57:BZ:169:ASN:ND2	57:BZ:181:GLU:OE1	2.24	0.71
57:BZ:27:GLN:CG	57:BZ:28:GLN:NE2	2.54	0.71
55:BC:39:U:H2'	55:BC:40:C:H5'	1.73	0.71
34:BA:800:G:C8	34:BA:800:G:O5'	2.44	0.71
1:AA:2143:C:N4	1:AA:2144:U:O4	2.24	0.71
34:BA:1013:G:H2'	34:BA:1015:A:OP2	1.91	0.71
1:AA:1024:G:C2	1:AA:1025:G:N7	2.59	0.70
1:AA:1068:G:O4'	1:AA:1096:A:H1'	1.91	0.70
1:AA:1317:A:H2'	1:AA:1318:C:H6	1.54	0.70
1:AA:1353:A:H2'	1:AA:1354:A:H8	1.52	0.70
1:AA:1554:A:O2'	1:AA:1555:G:OP1	2.09	0.70
1:AA:1660:C:H42	1:AA:2001:A:N6	1.87	0.70
1:AA:1966:A:N3	1:AA:2593:U:C5'	2.53	0.70
1:AA:2305:A:C8	1:AA:2306:C:C5'	2.73	0.70
1:AA:2307:G:C5	1:AA:2308:G:H1'	2.26	0.70
1:AA:2423:U:H1'	1:AA:2425:A:C4	2.25	0.70
1:AA:2688:U:H1'	1:AA:2721:A:H61	1.56	0.70
1:AA:324:A:N7	1:AA:340:A:H1'	2.05	0.70
1:AA:648:G:N3	1:AA:649:G:C8	2.59	0.70
1:AA:668:G:C2	1:AA:670:A:C6	2.79	0.70
1:AA:709:U:H2'	1:AA:710:G:C8	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:H5'	1:AA:782:A:OP1	1.91	0.70
1:AA:953:A:H2'	1:AA:954:G:C5'	2.09	0.70
4:AD:12:SER:HA	4:AD:22:SER:O	1.90	0.70
4:AD:250:TRP:HA	4:AD:250:TRP:CE3	2.25	0.70
5:AE:152:LYS:O	5:AE:152:LYS:HD2	1.91	0.70
5:AE:60:ASN:CG	5:AE:61:ARG:N	2.44	0.70
5:AE:91:VAL:HG23	5:AE:180:ASN:OD1	1.91	0.70
6:AF:110:LEU:CD2	6:AF:186:ILE:HD11	2.21	0.70
6:AF:41:LEU:HB3	6:AF:184:TYR:HE1	1.53	0.70
6:AF:182:ASN:HD21	6:AF:185:ASP:CG	1.93	0.70
7:AG:49:ASP:O	7:AG:53:LEU:CB	2.33	0.70
8:AH:132:ARG:HD3	8:AH:132:ARG:N	2.06	0.70
8:AH:7:LEU:HD22	8:AH:65:HIS:CD2	2.25	0.70
32:AJ:55:VAL:HG21	32:AJ:69:THR:HG22	1.73	0.70
9:AK:37:LYS:HD2	9:AK:43:THR:CA	2.21	0.70
10:AL:108:GLU:O	10:AL:109:LYS:HB2	1.89	0.70
11:AM:124:LYS:HA	11:AM:143:GLY:HA3	1.72	0.70
11:AM:45:LEU:HB3	11:AM:46:LYS:CE	2.21	0.70
12:AN:35:VAL:HG23	12:AN:101:ARG:C	2.10	0.70
13:AO:96:ARG:HB2	13:AO:117:VAL:HB	1.73	0.70
17:AS:50:PRO:HB2	17:AS:53:GLU:OE1	1.90	0.70
18:AT:28:SER:HB2	18:AT:69:LEU:O	1.91	0.70
34:BA:1037:C:N4	34:BA:1038:C:N4	2.39	0.70
34:BA:1117:G:C2	34:BA:1184:G:C8	2.79	0.70
34:BA:397:A:C2	34:BA:548:G:O6	2.43	0.70
56:BE:9:A:N6	56:BE:22:G:C8	2.58	0.70
35:BF:115:LEU:HD13	35:BF:145:LEU:CG	2.21	0.70
35:BF:16:HIS:HA	35:BF:204:ASN:CB	2.20	0.70
35:BF:72:GLY:HA3	35:BF:81:VAL:HG21	1.71	0.70
34:BA:1206:G:C5'	36:BG:194:GLY:HA2	2.21	0.70
37:BH:139:ARG:HG2	37:BH:140:VAL:N	2.06	0.70
37:BH:173:TRP:HA	37:BH:186:LEU:HD12	1.70	0.70
40:BK:69:VAL:HG11	40:BK:104:LEU:CG	2.20	0.70
45:BP:48:PRO:HG2	45:BP:49:ASN:H	1.56	0.70
46:BQ:78:ILE:HA	46:BQ:81:LEU:CD1	2.15	0.70
51:BV:76:LEU:N	51:BV:76:LEU:HD22	2.05	0.70
53:BX:87:LYS:CA	53:BX:87:LYS:HE3	2.19	0.70
57:BZ:230:LYS:CB	57:BZ:265:THR:HB	2.20	0.70
57:BZ:21:LEU:CD1	57:BZ:98:VAL:HG21	2.21	0.70
31:AI:52:PHE:O	31:AI:54:ALA:N	2.22	0.70
57:BZ:499:PHE:HB2	57:BZ:540:GLY:C	2.11	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1032:A:C5	34:BA:1032(A):G:H1'	2.26	0.70
1:AA:1105:U:O4'	1:AA:1106:G:P	2.31	0.70
1:AA:1160:G:H2'	1:AA:1161:C:C5	2.26	0.70
1:AA:1819:A:P	4:AD:157:ARG:HA	2.30	0.70
1:AA:2033:A:N1	1:AA:2036:C:C4	2.60	0.70
1:AA:2311:A:C3'	1:AA:2312:U:H5	2.03	0.70
1:AA:2507:C:H5''	1:AA:2573:C:N4	2.01	0.70
1:AA:2556:C:C4'	57:BZ:550:GLY:HA2	2.21	0.70
1:AA:2697:G:O2'	1:AA:2698:U:H5'	1.91	0.70
1:AA:2721:A:H2'	1:AA:2722:G:C8	2.26	0.70
1:AA:411:G:N2	1:AA:2407:G:C6	2.59	0.70
1:AA:442:G:C4'	6:AF:46:ARG:HG3	2.20	0.70
1:AA:64:A:H2'	1:AA:65:C:H5'	1.72	0.70
1:AA:688:U:O2'	1:AA:689:A:H5'	1.90	0.70
1:AA:823:G:H2'	1:AA:823:G:N3	2.04	0.70
1:AA:864:G:H2'	1:AA:865:C:H1'	1.73	0.70
2:AB:114:G:H2'	2:AB:115:G:O4'	1.91	0.70
6:AF:150:GLY:O	6:AF:152:GLU:N	2.23	0.70
10:AL:106:LEU:O	10:AL:109:LYS:HA	1.90	0.70
10:AL:7:TYR:CB	10:AL:18:LYS:HE3	2.21	0.70
11:AM:137:LYS:HA	11:AM:137:LYS:CE	2.21	0.70
11:AM:13:ASN:ND2	11:AM:14:LYS:H	1.87	0.70
11:AM:65:ARG:NH1	11:AM:67:MET:N	2.36	0.70
16:AR:114:LYS:CG	16:AR:115:ALA:N	2.54	0.70
16:AR:94:ASN:HD22	17:AS:6:LYS:NZ	1.89	0.70
17:AS:63:GLY:O	17:AS:97:LYS:HB2	1.91	0.70
19:AU:44:GLU:CG	19:AU:51:VAL:HG23	2.14	0.70
1:AA:336:C:H4'	20:AV:67:LEU:CD2	2.21	0.70
21:AW:96:VAL:O	21:AW:128:VAL:HA	1.92	0.70
21:AW:56:VAL:O	21:AW:57:ILE:O	2.09	0.70
34:BA:1043:C:H2'	34:BA:1044:A:O4'	1.91	0.70
34:BA:1164:G:C6	34:BA:1165:C:N3	2.60	0.70
34:BA:1115:C:N3	34:BA:1186:G:O6	2.24	0.70
34:BA:1394:A:N6	34:BA:1500:A:O2'	2.25	0.70
1:AA:1959:G:H2'	34:BA:1418:A:C2	2.22	0.70
34:BA:611:A:N1	34:BA:629:G:N2	2.37	0.70
34:BA:674:G:H2'	34:BA:675:A:H8	1.54	0.70
34:BA:893:C:O2'	34:BA:894:G:H5'	1.92	0.70
56:BE:21:A:C6	56:BE:46:G:C6	2.78	0.70
35:BF:31:TYR:CE2	35:BF:200:ILE:CG2	2.74	0.70
37:BH:82:ALA:HB3	37:BH:89:THR:CG2	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:145:LYS:HA	38:BI:148:VAL:HG23	1.72	0.70
39:BJ:68:PRO:HB2	39:BJ:71:ARG:HG3	1.71	0.70
41:BL:29:SER:HB2	41:BL:32:LYS:NZ	2.05	0.70
46:BQ:25:ILE:HG22	46:BQ:26:GLY:N	2.04	0.70
46:BQ:16:ASP:CA	46:BQ:34:LEU:HD12	2.03	0.70
56:BD:1:G:C4	56:BD:2:C:C4	2.79	0.70
1:AA:1483:G:H2'	1:AA:1483:G:N3	2.06	0.70
57:BZ:575:ASP:CB	57:BZ:590:ARG:HB2	2.18	0.70
57:BZ:300:LEU:CB	57:BZ:301:SER:HA	2.17	0.70
37:BH:191:ARG:HH11	37:BH:192:GLU:HA	1.54	0.70
34:BA:489:C:H2'	34:BA:490:G:C8	2.27	0.70
1:AA:1050:A:N6	1:AA:2751:G:C8	2.59	0.70
1:AA:1284:A:N1	1:AA:1285:G:N2	2.40	0.70
1:AA:1292:U:O2'	1:AA:1293:C:H5'	1.91	0.70
1:AA:1306:C:O2'	1:AA:1307:A:H5'	1.91	0.70
1:AA:1324:G:H5''	1:AA:1325:G:O2'	1.91	0.70
1:AA:152:G:H22	1:AA:175:G:C1'	2.02	0.70
1:AA:1750:G:O2'	1:AA:1751:C:H5'	1.91	0.70
1:AA:18:C:OP1	16:AR:26:GLY:HA2	1.90	0.70
1:AA:2072:G:H2'	1:AA:2073:C:C6	2.26	0.70
1:AA:2226:C:O2	1:AA:2227:A:C1'	2.39	0.70
1:AA:2241:A:H2'	1:AA:2242:G:C8	2.25	0.70
1:AA:2344:U:O2	1:AA:2344:U:H3'	1.92	0.70
1:AA:2068:U:O2	1:AA:2430:A:N1	2.24	0.70
1:AA:792:G:C5	1:AA:2440:C:C2	2.79	0.70
1:AA:197:A:H61	1:AA:248:G:N2	1.88	0.70
1:AA:332:A:H4'	1:AA:333:G:OP1	1.90	0.70
1:AA:452:G:N1	1:AA:458:G:C2	2.59	0.70
1:AA:609:A:H61	1:AA:619:G:N2	1.89	0.70
1:AA:720:C:O2'	1:AA:721:C:H5'	1.91	0.70
1:AA:960:A:O2'	1:AA:961:C:H5'	1.91	0.70
2:AB:49:C:OP1	14:AP:97:ARG:N	2.23	0.70
1:AA:1788:C:H2'	4:AD:222:ARG:HE	1.54	0.70
4:AD:177:LEU:HD11	4:AD:268:ARG:CZ	2.21	0.70
4:AD:8:PRO:HG2	4:AD:26:LYS:HG3	1.73	0.70
5:AE:176:ILE:O	5:AE:176:ILE:HG23	1.91	0.70
6:AF:74:ARG:NH1	6:AF:76:GLY:N	2.38	0.70
7:AG:37:VAL:HB	7:AG:99:MET:SD	2.30	0.70
8:AH:11:VAL:HB	8:AH:50:VAL:CG2	2.21	0.70
8:AH:55:PRO:HG2	8:AH:61:HIS:CE1	2.26	0.70
9:AK:34:LEU:HB3	9:AK:116:LEU:HD21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:10:GLU:CD	9:AK:39:ARG:HD2	2.11	0.70
10:AL:73:ASP:O	15:AQ:79:HIS:CE1	2.43	0.70
12:AN:46:GLN:OE1	12:AN:126:PRO:HB3	1.90	0.70
13:AO:17:ARG:HG3	13:AO:18:LEU:H	1.56	0.70
15:AQ:108:ARG:HH11	15:AQ:108:ARG:H	1.39	0.70
16:AR:50:ARG:H	16:AR:50:ARG:HD3	1.55	0.70
16:AR:50:ARG:NE	17:AS:75:PHE:CE2	2.56	0.70
18:AT:90:ARG:HH21	18:AT:90:ARG:N	1.89	0.70
34:BA:1315:U:C2'	34:BA:1360:A:C2'	2.51	0.70
34:BA:1333:A:O2'	34:BA:1334:G:H5'	1.91	0.70
34:BA:1400:C:H1'	56:BE:34:G:C6	2.26	0.70
34:BA:1422:G:H2'	34:BA:1423:G:H8	1.55	0.70
34:BA:421:U:H5''	34:BA:422:C:OP2	1.92	0.70
34:BA:447:G:O5'	34:BA:447:G:H8	1.74	0.70
34:BA:519:C:C2'	34:BA:520:A:H5'	2.21	0.70
34:BA:623:C:O2'	34:BA:624:C:H5'	1.91	0.70
22:AX:4:LYS:CE	56:BE:75:C:H2'	2.17	0.70
35:BF:220:ASP:O	35:BF:224:GLN:HG3	1.89	0.70
37:BH:78:LEU:CD1	37:BH:96:LEU:HB3	2.22	0.70
34:BA:9:G:C5'	38:BI:126:ARG:HD3	2.17	0.70
38:BI:94:ALA:HB2	38:BI:119:LEU:HD21	1.73	0.70
41:BL:26:VAL:HG13	41:BL:27:PRO:N	2.06	0.70
41:BL:36:LEU:HA	41:BL:39:LEU:HB2	1.73	0.70
43:BN:8:LEU:CD1	43:BN:94:VAL:HG11	2.18	0.70
44:BO:20:TYR:HE1	44:BO:33:THR:HG1	1.37	0.70
45:BP:68:ALA:HB1	45:BP:99:HIS:HA	1.73	0.70
46:BQ:66:LEU:N	46:BQ:70:LEU:HB2	2.05	0.70
47:BR:42:ILE:O	47:BR:43:CYS:C	2.30	0.70
48:BS:11:VAL:HA	48:BS:14:GLU:OE2	1.91	0.70
48:BS:53:HIS:C	48:BS:57:LEU:HD13	2.11	0.70
34:BA:1318:A:C1'	52:BW:35:SER:HG	1.82	0.70
52:BW:40:ILE:HB	52:BW:67:VAL:O	1.91	0.70
57:BZ:156:GLU:N	57:BZ:157:GLN:HB3	2.06	0.70
57:BZ:227:LYS:O	57:BZ:267:LEU:HD13	1.88	0.70
55:BC:36:A:H2'	55:BC:37:A:C5'	2.21	0.70
1:AA:131:G:H2'	1:AA:132:G:C8	2.26	0.70
1:AA:1335:U:OP1	19:AU:65:ARG:HG3	1.91	0.70
1:AA:1568:G:OP1	4:AD:61:LEU:CB	2.34	0.70
1:AA:1695:G:C2'	1:AA:1696:G:H5'	2.21	0.70
1:AA:1807:G:H21	1:AA:1809:A:H5'	1.55	0.70
1:AA:1853:A:H2'	1:AA:1854:A:C8	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1899:G:N2	1:AA:1902:C:H41	1.89	0.70
1:AA:2092:U:C5	1:AA:2227:A:N6	2.58	0.70
1:AA:2265:U:H2'	1:AA:2266:A:OP1	1.92	0.70
1:AA:226:G:C2	1:AA:227:A:N3	2.59	0.70
1:AA:957:A:C2	1:AA:2459:A:H5''	2.27	0.70
1:AA:2468:G:P	1:AA:2476:A:H61	2.15	0.70
1:AA:2794:C:C2	1:AA:2799:A:N3	2.59	0.70
1:AA:282:A:H2'	1:AA:284:U:OP1	1.91	0.70
1:AA:4:C:N3	1:AA:2900:A:C6	2.49	0.70
1:AA:297:C:N4	1:AA:298:G:C2	2.59	0.70
1:AA:308:G:H22	1:AA:329:G:H2'	1.55	0.70
1:AA:371:A:H62	1:AA:424:G:C4'	2.04	0.70
1:AA:731:C:O2'	1:AA:732:C:H5'	1.92	0.70
1:AA:899:A:H2	1:AA:900:A:C2	2.04	0.70
2:AB:27:C:H3'	2:AB:28:C:C6	2.26	0.70
4:AD:136:ILE:HB	4:AD:168:ARG:HH21	1.54	0.70
4:AD:270:ILE:HG22	4:AD:271:ILE:O	1.90	0.70
4:AD:5:LYS:CD	4:AD:29:PRO:HB3	2.18	0.70
5:AE:112:GLY:C	5:AE:113:PHE:CD1	2.65	0.70
5:AE:119:ARG:HD2	5:AE:156:MET:H	1.55	0.70
5:AE:5:LEU:CD2	5:AE:196:VAL:HB	2.21	0.70
5:AE:60:ASN:CG	5:AE:61:ARG:H	1.95	0.70
7:AG:17:PRO:HA	7:AG:20:ILE:HB	1.73	0.70
32:AJ:104:VAL:CG1	32:AJ:127:ILE:HD12	1.29	0.70
32:AJ:12:LEU:HD21	32:AJ:57:ILE:CG2	2.21	0.70
9:AK:7:LYS:HD3	9:AK:39:ARG:CZ	2.21	0.70
9:AK:91:LEU:CD2	9:AK:98:VAL:HG21	2.21	0.70
10:AL:64:ARG:HE	10:AL:67:LYS:N	1.90	0.70
11:AM:46:LYS:CB	11:AM:49:ARG:CZ	2.68	0.70
12:AN:42:ILE:HD11	12:AN:46:GLN:CB	2.20	0.70
16:AR:92:ARG:HA	16:AR:95:LEU:HG	1.73	0.70
20:AV:86:ARG:O	20:AV:91:GLU:HG2	1.90	0.70
21:AW:42:VAL:HB	21:AW:43:GLU:OE1	1.90	0.70
22:AX:41:ARG:HB3	22:AX:41:ARG:HH11	1.56	0.70
34:BA:1036:G:C8	34:BA:1037:C:C5	2.78	0.70
34:BA:1104:G:H2'	34:BA:1105:A:H8	1.57	0.70
34:BA:1319:A:H8	52:BW:70:LYS:NZ	1.88	0.70
34:BA:1321:C:C5	34:BA:1322:C:H2'	2.27	0.70
34:BA:1324:A:O4'	34:BA:1362:C:H4'	1.91	0.70
34:BA:1306:A:N6	34:BA:1331:G:H1'	2.07	0.70
34:BA:1394:A:H62	34:BA:1501:C:C5'	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1407:C:H2'	34:BA:1408:A:H5'	1.74	0.70
34:BA:317:G:OP1	34:BA:353:A:N6	2.25	0.70
34:BA:519:C:H2'	34:BA:520:A:C5'	2.21	0.70
34:BA:624:C:H2'	34:BA:625:G:H8	1.57	0.70
34:BA:858:G:H22	34:BA:870:U:P	2.15	0.70
35:BF:175:ARG:HA	35:BF:178:ARG:CG	2.21	0.70
36:BG:87:LEU:HB2	36:BG:101:LEU:CD1	2.20	0.70
38:BI:78:HIS:NE2	38:BI:142:LEU:HB3	2.06	0.70
40:BK:74:GLU:HA	40:BK:145:ALA:CB	2.21	0.70
41:BL:9:MET:HG2	41:BL:13:ILE:CD1	2.22	0.70
41:BL:78:GLN:HG3	41:BL:80:ILE:O	1.89	0.70
41:BL:94:TYR:HE1	41:BL:132:GLU:OE1	1.74	0.70
42:BM:38:GLN:HA	42:BM:38:GLN:OE1	1.92	0.70
42:BM:45:ALA:HB3	42:BM:74:ILE:CG2	2.21	0.70
45:BP:82:VAL:N	45:BP:106:ASP:OD1	2.24	0.70
45:BP:41:ARG:HB3	45:BP:41:ARG:HH11	1.53	0.70
48:BS:63:ARG:HH22	48:BS:87:ILE:HD13	1.56	0.70
49:BT:51:VAL:CG2	49:BT:73:LEU:HD11	2.22	0.70
49:BT:57:ARG:O	49:BT:60:LEU:HB2	1.91	0.70
50:BU:22:LEU:HD21	50:BU:39:SER:OG	1.91	0.70
51:BV:36:ASN:HB3	51:BV:40:LEU:HG	1.74	0.70
34:BA:1327:C:H5"	54:BY:20:LYS:CE	2.19	0.70
57:BZ:13:HIS:ND1	57:BZ:109:THR:CG2	2.50	0.70
57:BZ:181:GLU:OE2	57:BZ:183:MET:N	2.24	0.70
1:AA:2660:A:C4	57:BZ:457:THR:HA	2.26	0.70
1:AA:1913:A:H5'	1:AA:1914:C:OP1	1.91	0.70
1:AA:1484:G:H2'	1:AA:1485:G:C5'	2.21	0.70
1:AA:2104:G:N2	1:AA:2105:C:C2	2.59	0.70
34:BA:1382:C:H2'	34:BA:1383:C:H6	1.56	0.70
1:AA:1064:C:H2'	1:AA:1065:U:H5'	1.72	0.70
1:AA:1213:A:H61	1:AA:1236:G:H1'	1.56	0.70
1:AA:1647:G:C4'	1:AA:1648:C:OP1	2.40	0.70
1:AA:1910:G:N9	1:AA:1921:G:N2	2.38	0.70
1:AA:202:U:H2'	1:AA:203:C:C6	2.26	0.70
1:AA:2373:G:O2'	1:AA:2374:C:O5'	2.09	0.70
1:AA:2519:U:N1	1:AA:2542:A:N1	2.39	0.70
1:AA:270(E):G:H2'	1:AA:270(F):U:H6	1.56	0.70
1:AA:296:C:O2'	1:AA:297:C:O4'	2.09	0.70
1:AA:534:U:H2'	1:AA:535:C:C5	2.26	0.70
1:AA:663:G:H4'	11:AM:18:ARG:NE	2.06	0.70
1:AA:675:A:H5"	6:AF:67:GLN:CD	2.12	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:779:U:O4	1:AA:780:G:C2	2.44	0.70
1:AA:7:G:N1	1:AA:2897:U:O5'	2.18	0.70
1:AA:95:G:O2'	23:AY:42:ASN:HB2	1.91	0.70
2:AB:33:G:H2'	2:AB:34:U:H6	1.54	0.70
2:AB:43:C:N3	2:AB:45:A:C8	2.60	0.70
3:AC:167:LYS:HG3	3:AC:168:THR:H	1.57	0.70
5:AE:41:LYS:O	5:AE:43:GLY:N	2.24	0.70
7:AG:34:LEU:HD13	7:AG:100:TRP:HE1	1.56	0.70
8:AH:76:VAL:HA	8:AH:79:VAL:HG22	1.73	0.70
10:AL:67:LYS:CA	10:AL:67:LYS:HE2	2.21	0.70
10:AL:68:GLU:HA	10:AL:104:ARG:CZ	2.21	0.70
10:AL:88:ASN:O	10:AL:90:GLN:N	2.24	0.70
12:AN:34:LEU:HD22	12:AN:118:LEU:HB3	1.71	0.70
12:AN:6:ARG:HG2	12:AN:70:PRO:HB3	1.72	0.70
14:AP:31:SER:HB3	14:AP:34:HIS:CD2	2.27	0.70
15:AQ:51:ARG:NH1	15:AQ:114:LEU:HD13	2.05	0.70
16:AR:74:LEU:HB3	16:AR:78:THR:OG1	1.91	0.70
21:AW:103:ARG:HA	21:AW:103:ARG:NE	2.05	0.70
21:AW:95:PRO:CG	21:AW:131:ARG:H	2.03	0.70
21:AW:136:PHE:HB3	21:AW:138:GLU:OE2	1.91	0.70
21:AW:15:PRO:O	21:AW:18:LEU:HB2	1.90	0.70
34:BA:1073:U:O2'	34:BA:1074:G:H5'	1.91	0.70
34:BA:1144:G:N2	34:BA:1146:A:N6	2.39	0.70
34:BA:1349:A:H2'	34:BA:1350:A:H8	1.56	0.70
34:BA:323:U:H5	34:BA:324:G:C4	2.09	0.70
34:BA:109:A:C2	34:BA:327:A:N1	2.60	0.70
56:BE:21:A:C5	56:BE:46:G:N1	2.58	0.70
36:BG:42:LEU:HD12	36:BG:94:LEU:HD12	1.72	0.70
38:BI:105:VAL:CG2	38:BI:132:ALA:HB2	2.21	0.70
38:BI:45:PHE:CE1	38:BI:47:LYS:HD2	2.27	0.70
39:BJ:14:LEU:HD12	39:BJ:15:ASP:O	1.91	0.70
41:BL:112:LEU:HB2	41:BL:133:LEU:HA	1.72	0.70
44:BO:63:LEU:C	44:BO:63:LEU:HD23	2.11	0.70
45:BP:72:GLY:HA3	45:BP:102:ARG:HD2	1.72	0.70
50:BU:104:LYS:HD3	50:BU:105:ALA:N	2.06	0.70
57:BZ:165:ALA:HB2	57:BZ:171:ILE:HG22	1.62	0.70
57:BZ:164:TYR:C	57:BZ:172:ALA:O	2.30	0.70
1:AA:1580:A:H2'	1:AA:1581:G:C8	2.27	0.70
1:AA:1028:A:C2	1:AA:2486:G:O2'	2.43	0.70
1:AA:1034:G:N1	1:AA:1122:G:N7	2.38	0.70
1:AA:1617:C:H5'	1:AA:1618:A:OP2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1730:U:O2'	1:AA:1731:G:C5	2.44	0.70
1:AA:1906:G:C4	1:AA:1929:G:N7	2.51	0.70
1:AA:2246:G:N2	1:AA:2247:A:C5	2.60	0.70
1:AA:2616:C:H2'	1:AA:2617:C:C6	2.27	0.70
1:AA:2680:C:OP1	5:AE:190:GLY:HA2	1.91	0.70
1:AA:595:C:H2'	1:AA:596:G:H8	1.56	0.70
1:AA:915:C:H2'	1:AA:916:G:H8	1.57	0.70
1:AA:979:G:N7	1:AA:981:A:OP1	2.25	0.70
3:AC:62:VAL:CG1	3:AC:192:PHE:CA	2.70	0.70
3:AC:10:LEU:HD11	3:AC:32:LEU:CB	2.22	0.70
1:AA:2129:C:C5'	3:AC:6:ARG:CD	2.51	0.70
4:AD:119:ALA:HA	4:AD:123:ALA:HB2	1.73	0.70
4:AD:5:LYS:CA	4:AD:29:PRO:HD3	2.21	0.70
1:AA:693:C:OP1	4:AD:60:ARG:CZ	2.40	0.70
4:AD:65:ILE:HD12	4:AD:104:TYR:HB3	1.74	0.70
5:AE:154:LYS:NZ	5:AE:155:LYS:O	2.20	0.70
5:AE:171:GLU:HB2	5:AE:185:LYS:NZ	2.06	0.70
6:AF:34:TRP:CE3	6:AF:37:VAL:HG21	2.26	0.70
7:AG:39:ILE:HG13	7:AG:157:ILE:CD1	2.21	0.70
7:AG:37:VAL:O	7:AG:99:MET:SD	2.49	0.70
7:AG:39:ILE:HD13	7:AG:92:VAL:CG1	2.22	0.70
8:AH:103:LEU:O	8:AH:105:LEU:HG	1.90	0.70
8:AH:15:VAL:HG13	8:AH:17:VAL:HB	1.74	0.70
32:AJ:35:MET:O	32:AJ:36:GLU:HG2	1.91	0.70
1:AA:1075:C:O2'	32:AJ:90:LYS:HD3	1.90	0.70
1:AA:558:G:OP1	9:AK:111:PRO:HG2	1.91	0.70
9:AK:75:TYR:HD1	9:AK:75:TYR:H	1.40	0.70
11:AM:111:ARG:NH2	11:AM:113:LYS:HB2	2.07	0.70
11:AM:76:LYS:HA	11:AM:101:VAL:CG1	2.21	0.70
14:AP:9:ARG:N	14:AP:9:ARG:HH11	1.88	0.70
15:AQ:65:LYS:HA	15:AQ:76:PHE:O	1.90	0.70
16:AR:97:ASP:CB	16:AR:101:ARG:HH21	2.05	0.70
16:AR:111:GLU:HA	16:AR:114:LYS:HE3	1.73	0.70
16:AR:115:ALA:O	16:AR:118:GLY:N	2.25	0.70
16:AR:74:LEU:CD2	16:AR:78:THR:HG21	2.21	0.70
1:AA:2278:A:N7	22:AX:14:ARG:HB3	2.06	0.70
34:BA:1045:C:H2'	34:BA:1046:A:C8	2.27	0.70
34:BA:1102:A:C6	34:BA:1103:C:N4	2.60	0.70
34:BA:1164:G:C2	34:BA:1165:C:C2	2.80	0.70
34:BA:1203:C:O2'	34:BA:1204:A:H5'	1.91	0.70
34:BA:959:A:H2	34:BA:1221:G:N3	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1268:A:H1'	34:BA:1311:G:H21	1.57	0.70
34:BA:1298:C:H41	40:BK:114:ARG:HB3	1.56	0.70
34:BA:1300:G:HO2'	34:BA:1301:U:P	2.15	0.70
34:BA:711:G:O2'	34:BA:712:A:H5'	1.92	0.70
34:BA:863:U:O2	34:BA:863:U:C2'	2.40	0.70
35:BF:24:TRP:CZ3	35:BF:26:PRO:HA	2.27	0.70
36:BG:11:ARG:HG3	36:BG:16:ARG:NH2	2.06	0.70
36:BG:113:ALA:HB2	36:BG:202:ILE:HG13	1.73	0.70
36:BG:59:ARG:NH2	36:BG:64:VAL:HG13	2.07	0.70
40:BK:54:THR:OG1	40:BK:56:GLN:HG2	1.90	0.70
49:BT:6:LEU:CD2	49:BT:17:TYR:HD2	2.03	0.70
50:BU:44:ALA:HB1	50:BU:72:ARG:CA	2.22	0.70
53:BX:63:ILE:O	53:BX:66:ALA:HB3	1.92	0.70
57:BZ:13:HIS:NE2	57:BZ:106:MET:N	2.40	0.70
57:BZ:405:LEU:O	57:BZ:407:VAL:HG13	1.91	0.70
57:BZ:407:VAL:HA	57:BZ:408:GLU:CB	2.21	0.70
57:BZ:406:ASP:HA	57:BZ:407:VAL:HG13	1.74	0.70
31:AI:51:LEU:N	31:AI:90:ALA:HB2	2.06	0.70
56:BD:6:G:N1	56:BD:67:C:N3	2.38	0.70
57:BZ:538:LEU:H	57:BZ:539:THR:C	1.94	0.70
57:BZ:541:LYS:HG3	57:BZ:542:LYS:CB	2.21	0.70
1:AA:1174:A:H2'	1:AA:1174:A:N3	2.06	0.70
1:AA:1241:A:C4'	1:AA:1241:A:N3	2.55	0.70
1:AA:1263:U:N3	1:AA:1264:G:N2	2.38	0.70
1:AA:126:A:N7	1:AA:127:A:C5	2.59	0.70
1:AA:1606:G:H4'	1:AA:1608:A:N3	2.06	0.70
1:AA:1632:A:C2	1:AA:1633:G:N2	2.60	0.70
1:AA:172:C:C4	1:AA:173:G:C5	2.79	0.70
1:AA:1785:A:OP2	1:AA:1785:A:H8	1.75	0.70
1:AA:1829:A:N1	1:AA:1830:C:H1'	2.07	0.70
1:AA:2077:A:H1'	1:AA:2434:A:O2'	1.91	0.70
1:AA:253:C:H2'	1:AA:254:G:C5'	2.22	0.70
1:AA:2550:G:H2'	1:AA:2551:C:C6	2.26	0.70
1:AA:2564:A:C6	1:AA:2647:U:O4'	2.45	0.70
1:AA:26:G:H22	1:AA:27:G:H21	1.36	0.70
1:AA:2676:C:O2	1:AA:2732:G:N2	2.25	0.70
1:AA:2757:A:H2'	1:AA:2758:A:C5'	2.20	0.70
1:AA:2779:U:H5'	1:AA:2781:A:OP2	1.91	0.70
59:AA:3003:8AN:H5'A	56:BE:75:C:H3'	1.73	0.70
1:AA:312:G:H3'	1:AA:313:C:H5	1.55	0.70
1:AA:33:U:O2'	1:AA:34:C:H5	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:532:A:OP1	1:AA:532:A:H4'	1.92	0.70
1:AA:571:A:H1'	1:AA:573:G:N7	2.07	0.70
1:AA:950:G:H2'	1:AA:951:C:H6	1.56	0.70
3:AC:14:VAL:HG12	3:AC:16:PRO:HD3	1.73	0.70
3:AC:46:LYS:O	3:AC:210:ARG:N	2.25	0.70
5:AE:104:VAL:HG13	5:AE:198:VAL:HA	1.72	0.70
6:AF:171:PRO:O	6:AF:173:VAL:N	2.25	0.70
7:AG:126:ASP:HA	7:AG:166:ASP:OD2	1.92	0.70
7:AG:68:PRO:HB3	7:AG:72:ARG:CZ	2.21	0.70
8:AH:156:ALA:HA	8:AH:171:LEU:CD2	2.21	0.70
10:AL:8:LEU:CD1	10:AL:82:ASN:HA	2.20	0.70
12:AN:127:ILE:HD13	12:AN:129:THR:HG21	1.72	0.70
13:AO:90:ARG:NH2	13:AO:117:VAL:HG13	2.06	0.70
2:AB:114:G:O4'	14:AP:47:THR:HB	1.91	0.70
15:AQ:53:ARG:NH2	15:AQ:102:ILE:CD1	2.55	0.70
15:AQ:103:ARG:C	15:AQ:105:LEU:N	2.42	0.70
15:AQ:30:VAL:HG13	15:AQ:32:TYR:OH	1.90	0.70
15:AQ:55:ASN:ND2	15:AQ:57:PHE:CZ	2.60	0.70
15:AQ:7:ILE:O	15:AQ:8:LYS:C	2.30	0.70
16:AR:65:ILE:O	16:AR:66:ASN:C	2.28	0.70
18:AT:11:ARG:H	18:AT:11:ARG:NH2	1.87	0.70
18:AT:36:LEU:HD11	18:AT:47:VAL:HG21	1.71	0.70
34:BA:1161:C:C2	34:BA:1162:C:C5	2.80	0.70
34:BA:453:A:N6	34:BA:480:U:N3	2.40	0.70
34:BA:595:G:O6	34:BA:641:U:H3'	1.92	0.70
34:BA:760:G:O2'	50:BU:103:GLY:HA3	1.91	0.70
34:BA:787:A:H2'	34:BA:788:U:C5'	2.21	0.70
34:BA:891:U:H5	34:BA:906:G:N1	1.89	0.70
56:BE:15:G:C2	56:BE:16:U:C4	2.79	0.70
38:BI:81:GLU:HA	38:BI:89:ILE:O	1.92	0.70
39:BJ:79:LEU:HB2	39:BJ:88:VAL:HG11	1.74	0.70
45:BP:88:GLY:HA3	45:BP:99:HIS:CE1	2.27	0.70
46:BQ:14:ARG:CA	46:BQ:43:THR:O	2.40	0.70
34:BA:130:A:N7	50:BU:64:PRO:HD2	2.07	0.70
51:BV:33:ASP:OD2	51:BV:36:ASN:HB2	1.91	0.70
53:BX:23:ARG:HD3	53:BX:24:LEU:N	2.07	0.70
57:BZ:173:GLY:N	57:BZ:174:LEU:O	2.24	0.70
57:BZ:172:ALA:HA	57:BZ:179:MET:CE	2.14	0.70
57:BZ:568:ALA:HB1	57:BZ:587:ILE:CD1	2.21	0.70
57:BZ:62:ALA:N	57:BZ:63:ALA:HA	2.06	0.70
56:BD:52:G:C6	56:BD:63:G:C6	2.80	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:131:G:H2'	1:AA:132:G:H8	1.55	0.70
1:AA:1036:G:P	8:AH:59:ARG:CZ	2.79	0.70
1:AA:1080:C:C1'	32:AJ:129:GLY:H	2.05	0.70
1:AA:1473:G:H2'	1:AA:1474:C:C6	2.26	0.70
1:AA:1557:C:H5''	1:AA:1558:A:OP2	1.92	0.70
1:AA:1931:U:C5	1:AA:1932:A:C5	2.79	0.70
1:AA:1935:G:H2'	1:AA:1962:C:N3	2.07	0.70
1:AA:197:A:O4'	1:AA:2068:U:N3	2.25	0.70
1:AA:2089:U:H2'	1:AA:2090:G:C8	2.26	0.70
1:AA:2194:G:C2	1:AA:2195:C:N4	2.60	0.70
1:AA:2262:U:H4'	1:AA:2328:A:H2	1.56	0.70
1:AA:2376:A:H2'	1:AA:2377:A:O4'	1.92	0.70
1:AA:2433:A:H2'	1:AA:2433:A:N3	2.03	0.70
1:AA:247:G:H22	5:AE:8:LYS:CD	118.04	0.70
1:AA:2805:G:H2'	1:AA:2807:G:O4'	1.92	0.70
1:AA:2810:A:O2'	5:AE:61:ARG:NH2	2.24	0.70
1:AA:307:G:N2	1:AA:310:A:C8	2.60	0.70
1:AA:323:G:N2	1:AA:333:G:H1'	2.06	0.70
1:AA:619:G:C8	1:AA:619:G:H3'	2.27	0.70
1:AA:740:U:O4	1:AA:757:U:O2	2.10	0.70
1:AA:791:C:C4	1:AA:794:G:H1'	2.26	0.70
3:AC:158:ALA:H	3:AC:159:GLY:N	1.82	0.70
4:AD:89:SER:HB2	4:AD:202:LYS:HZ1	1.57	0.70
4:AD:59:LYS:HE3	4:AD:59:LYS:O	1.92	0.70
1:AA:673:C:C4'	6:AF:82:ILE:HD12	2.22	0.70
7:AG:148:MET:HG2	7:AG:151:ALA:N	2.06	0.70
8:AH:119:GLU:O	8:AH:121:ILE:N	2.24	0.70
8:AH:157:TYR:HD1	8:AH:158:HIS:N	1.90	0.70
32:AJ:104:VAL:C	32:AJ:127:ILE:HD11	2.11	0.70
9:AK:112:LEU:O	9:AK:113:GLY:C	2.29	0.70
9:AK:107:LEU:HD11	9:AK:113:GLY:O	1.92	0.70
9:AK:17:ASP:HB3	9:AK:21:LYS:CE	2.21	0.70
1:AA:1012:U:C4	9:AK:25:ARG:HB3	2.27	0.70
10:AL:8:LEU:HD13	10:AL:9:GLU:O	1.92	0.70
11:AM:126:VAL:HG23	11:AM:146:VAL:O	1.92	0.70
11:AM:129:ALA:C	11:AM:130:PHE:HD2	1.94	0.70
12:AN:26:TYR:H	12:AN:102:VAL:HB	1.51	0.70
13:AO:105:ARG:HA	13:AO:105:ARG:NE	2.05	0.70
13:AO:11:ASN:ND2	13:AO:12:ARG:H	1.90	0.70
13:AO:61:HIS:O	13:AO:64:ARG:HD3	1.91	0.70
15:AQ:32:TYR:O	15:AQ:47:GLY:CA	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:27:LYS:HB3	18:AT:31:GLU:CD	2.10	0.70
1:AA:1342:A:OP1	19:AU:55:ASN:HB3	1.91	0.70
20:AV:9:LYS:HB2	20:AV:110:GLU:OE2	1.92	0.70
21:AW:144:LEU:HB3	21:AW:174:VAL:CG1	2.14	0.70
22:AX:40:GLN:HB3	22:AX:45:PHE:CE1	2.27	0.70
34:BA:1211:U:O2'	34:BA:1213:A:H1'	1.92	0.70
34:BA:1306:A:H2'	34:BA:1307:U:O4'	1.91	0.70
34:BA:1414:U:N1	34:BA:1487:G:N2	2.38	0.70
34:BA:795:C:O2'	34:BA:1506:U:H1'	1.91	0.70
34:BA:517:G:N2	34:BA:533:A:OP2	2.25	0.70
34:BA:51:A:C6	34:BA:353:A:C2	2.79	0.70
56:BE:6:G:C5	56:BE:69:G:C2	2.74	0.70
35:BF:102:LEU:HB3	35:BF:180:LEU:CD1	2.22	0.70
35:BF:168:THR:CG2	35:BF:192:SER:HA	2.22	0.70
37:BH:127:THR:O	37:BH:146:ILE:HG22	1.91	0.70
37:BH:152:SER:O	37:BH:158:ILE:HG13	1.91	0.70
38:BI:86:ALA:O	38:BI:125:SER:HB3	1.91	0.70
38:BI:150:ARG:O	38:BI:150:ARG:HD3	1.92	0.70
38:BI:81:GLU:CB	38:BI:90:VAL:HG22	2.21	0.70
39:BJ:52:ILE:HG22	39:BJ:53:ALA:N	2.05	0.70
40:BK:104:LEU:HD23	40:BK:134:ALA:HB1	1.73	0.70
41:BL:40:ALA:HB2	41:BL:45:ILE:HG12	1.72	0.70
41:BL:47:GLY:O	41:BL:61:VAL:HG13	1.91	0.70
41:BL:70:GLN:CA	41:BL:70:GLN:HE21	2.04	0.70
44:BO:30:VAL:O	44:BO:42:TRP:HB2	1.91	0.70
48:BS:36:ILE:HD11	48:BS:60:VAL:CG1	2.22	0.70
57:BZ:170:GLY:O	57:BZ:179:MET:HB3	1.89	0.70
57:BZ:233:PRO:CB	57:BZ:248:ASN:HB3	2.22	0.70
57:BZ:228:ARG:N	57:BZ:267:LEU:CD1	2.38	0.70
57:BZ:69:ARG:HE	57:BZ:269:GLU:HG2	1.57	0.70
57:BZ:518:VAL:HB	57:BZ:522:GLN:CD	2.12	0.70
1:AA:114:U:H2'	1:AA:115:C:C6	2.27	0.70
1:AA:145:G:H2'	1:AA:146:G:C8	2.27	0.70
1:AA:1567:A:N3	1:AA:1567:A:H2'	2.05	0.70
1:AA:1770:G:H2'	1:AA:1771:C:H6	1.57	0.70
1:AA:1944:U:H1'	1:AA:1955:U:H6	1.53	0.70
1:AA:1955:U:C2'	1:AA:1956:U:OP1	2.40	0.70
1:AA:2090:G:C6	1:AA:2230:G:O6	2.44	0.70
1:AA:213:A:H2'	1:AA:214:G:H5'	1.74	0.70
1:AA:2177:C:H5"	3:AC:223:ARG:CZ	2.20	0.70
1:AA:2213:U:C5'	1:AA:2215:G:N7	2.53	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2219:G:H2'	1:AA:2224:G:C5'	2.22	0.70
1:AA:2484:G:C2'	1:AA:2485:G:H5'	2.22	0.70
1:AA:2059:A:N1	1:AA:2503:A:C6	2.60	0.70
1:AA:2583:G:H1	59:AA:3002:8AN:H2'	1.57	0.70
1:AA:2791:C:O2'	1:AA:2792:G:H5'	1.92	0.70
1:AA:2807:G:C2	1:AA:2808:U:C6	2.80	0.70
1:AA:2850:A:H2'	1:AA:2851:A:H8	1.56	0.70
1:AA:38:A:H2'	1:AA:39:C:C6	2.27	0.70
1:AA:412:A:C2	1:AA:413:C:H1'	2.27	0.70
1:AA:686:G:N3	1:AA:686:G:H5''	2.05	0.70
1:AA:835:A:H4'	1:AA:2358:G:H1'	1.73	0.70
1:AA:893:C:C2	1:AA:894:C:C6	2.80	0.70
4:AD:146:GLU:HG2	4:AD:147:LEU:O	1.92	0.70
4:AD:39:LYS:HA	4:AD:62:TYR:CB	2.20	0.70
5:AE:147:PRO:CB	5:AE:149:ARG:HD2	2.22	0.70
7:AG:148:MET:HB3	7:AG:151:ALA:HB2	1.72	0.70
7:AG:39:ILE:CD1	7:AG:92:VAL:HG12	2.22	0.70
8:AH:99:VAL:HG23	8:AH:104:GLU:HG2	1.74	0.70
32:AJ:72:PRO:CB	32:AJ:77:LEU:CD2	2.22	0.70
9:AK:85:ILE:HB	9:AK:90:MET:HE1	1.72	0.70
12:AN:134:ARG:NH2	12:AN:137:TYR:N	2.40	0.70
12:AN:48:GLU:C	12:AN:51:ARG:HG3	2.09	0.70
14:AP:28:VAL:O	14:AP:29:PHE:HB2	1.90	0.70
16:AR:61:TRP:O	16:AR:62:ILE:C	2.30	0.70
24:AZ:23:LEU:HD11	24:AZ:53:LEU:HD13	1.74	0.70
34:BA:1129:C:OP1	42:BM:16:ARG:NH1	2.24	0.70
34:BA:1200:C:O5'	34:BA:1202:G:OP1	2.08	0.70
34:BA:1200:C:H5''	34:BA:1201:A:C3'	2.22	0.70
34:BA:129(A):G:H4'	34:BA:130:A:C5'	2.22	0.70
34:BA:168:G:N1	34:BA:169:C:N4	2.40	0.70
34:BA:61:G:C5	34:BA:62:U:C4	2.80	0.70
34:BA:695:A:H2'	34:BA:696:A:O4'	1.91	0.70
56:BE:21:A:C6	56:BE:46:G:N1	2.60	0.70
35:BF:118:LEU:CD2	35:BF:142:LEU:HB2	2.21	0.70
35:BF:212:GLN:OE1	35:BF:215:LEU:HB3	1.92	0.70
36:BG:122:GLU:HA	36:BG:125:GLU:CG	2.19	0.70
40:BK:63:LYS:CA	40:BK:63:LYS:HE2	2.21	0.70
41:BL:86:ILE:HG21	41:BL:133:LEU:CB	2.15	0.70
43:BN:68:HIS:HB3	43:BN:70:ARG:NH2	2.05	0.70
44:BO:32:ILE:HD12	44:BO:41:THR:OG1	1.91	0.70
45:BP:32:PHE:HB3	45:BP:84:LEU:HD21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1226:C:H42	46:BQ:104:ARG:HE	1.38	0.70
50:BU:29:HIS:CE1	50:BU:30:PRO:HG2	2.27	0.70
39:BJ:99:ALA:CB	51:BV:31:LEU:HD11	2.22	0.70
34:BA:1319:A:C4'	52:BW:37:ARG:CA	2.56	0.70
52:BW:63:THR:O	52:BW:66:MET:HG2	1.92	0.70
52:BW:80:TYR:CZ	52:BW:81:ARG:HG3	2.25	0.70
34:BA:192:U:H5'	53:BX:102:GLY:CA	2.21	0.70
57:BZ:400:TYR:N	57:BZ:469:PHE:HA	2.07	0.70
57:BZ:405:LEU:CB	57:BZ:455:PHE:HZ	2.05	0.70
57:BZ:568:ALA:HB1	57:BZ:587:ILE:HD11	1.73	0.70
1:AA:1487:G:N2	1:AA:1503:U:C2	2.60	0.70
1:AA:1029:A:O5'	1:AA:1029:A:H8	1.72	0.70
1:AA:1057:A:H2'	1:AA:1058:G:C8	2.27	0.70
1:AA:1166:C:H2'	1:AA:1167:U:H6	1.56	0.70
1:AA:1175:U:H5'	1:AA:1176:G:OP2	1.91	0.70
1:AA:991:C:OP2	1:AA:1186:G:OP2	2.09	0.70
1:AA:1264:G:N7	1:AA:1265:A:C4	2.59	0.70
1:AA:1332:G:C4	1:AA:1609:A:N1	2.59	0.70
1:AA:1375:C:C2	1:AA:1376:C:C5	2.80	0.70
1:AA:1479:G:N2	1:AA:1515:C:C2	2.59	0.70
1:AA:1545(A):A:H8	1:AA:1545(A):A:O5'	1.75	0.70
1:AA:1602:U:C6	1:AA:1602:U:C3'	2.69	0.70
1:AA:2011:U:H2'	1:AA:2012:G:O4'	1.92	0.70
1:AA:2114:A:C2'	1:AA:2115:G:H5'	2.22	0.70
1:AA:2134:A:H2'	1:AA:2135:A:C5'	2.22	0.70
1:AA:2178:C:C5'	3:AC:211:SER:HB3	2.21	0.70
1:AA:2584:U:H6	1:AA:2584:U:H3'	1.57	0.70
1:AA:2748:A:C2	1:AA:2757:A:N6	2.60	0.70
1:AA:2848:G:N2	1:AA:2867:G:N3	2.40	0.70
1:AA:4:C:N4	1:AA:2899:G:O6	2.25	0.70
1:AA:292:C:C3'	1:AA:293:U:N3	2.55	0.70
1:AA:300:A:O2'	1:AA:318:C:H1'	1.92	0.70
1:AA:298:G:O2'	1:AA:322:A:N1	2.24	0.70
1:AA:374:A:H3'	1:AA:375:C:C6	2.26	0.70
1:AA:530:G:O2'	1:AA:531:C:P	2.50	0.70
1:AA:532:A:H3'	1:AA:533:G:O4'	1.92	0.70
1:AA:613:U:O5'	1:AA:615:G:H1'	1.92	0.70
1:AA:687:C:H1'	1:AA:788:A:C5'	2.21	0.70
1:AA:861:A:C2'	1:AA:862:G:H5'	2.20	0.70
3:AC:103:ILE:HD12	3:AC:127:LEU:HD11	1.74	0.70
3:AC:59:ARG:NH1	3:AC:164:ARG:HG2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LEU:HD13	4:AD:86:PRO:CD	2.22	0.70
5:AE:176:ILE:HG21	5:AE:181:LEU:HB2	1.73	0.70
5:AE:22:PRO:HA	5:AE:185:LYS:CA	2.21	0.70
5:AE:91:VAL:HG22	5:AE:93:VAL:N	2.05	0.70
6:AF:9:ILE:CG1	6:AF:122:LYS:HG3	2.22	0.70
6:AF:122:LYS:HD3	6:AF:123:LEU:N	2.06	0.70
8:AH:94:TYR:OH	8:AH:128:PRO:HG2	1.91	0.70
10:AL:43:VAL:CG1	10:AL:54:GLU:HA	2.21	0.70
11:AM:74:GLU:HB2	11:AM:107:LYS:NZ	2.07	0.70
11:AM:121:LYS:H	11:AM:122:PRO:HD3	1.56	0.70
12:AN:27:VAL:HG13	12:AN:104:PHE:HE2	1.57	0.70
12:AN:110:THR:O	12:AN:111:GLU:CB	2.39	0.70
14:AP:26:LEU:HD22	14:AP:27:SER:H	1.55	0.70
15:AQ:31:SER:OG	15:AQ:49:VAL:HG22	1.91	0.70
16:AR:50:ARG:HH11	16:AR:50:ARG:CB	2.04	0.70
9:AK:42:TRP:CD1	16:AR:64:ARG:HG2	2.27	0.70
20:AV:107:ASP:O	20:AV:109:GLU:N	2.25	0.70
34:BA:1329:A:C4'	46:BQ:29:ARG:HH21	1.51	0.70
34:BA:1449:C:N3	34:BA:1454:G:N1	2.37	0.70
34:BA:1463:C:C2'	34:BA:1464:G:H5'	2.22	0.70
34:BA:330:C:O2'	34:BA:331:G:H5'	1.90	0.70
34:BA:344:A:H5''	34:BA:345:C:C5	2.26	0.70
34:BA:474:G:H5'	49:BT:81:ARG:CG	2.22	0.70
34:BA:517:G:N2	34:BA:533:A:P	2.65	0.70
34:BA:540:G:C6	34:BA:541:G:C5	2.80	0.70
34:BA:573:A:C2	34:BA:574:A:C6	2.80	0.70
34:BA:948:C:H2'	34:BA:949:A:H8	1.57	0.70
35:BF:115:LEU:HB2	35:BF:145:LEU:HG	1.74	0.70
35:BF:35:GLU:O	35:BF:36:ARG:CZ	2.40	0.70
35:BF:61:LEU:HD11	35:BF:68:ILE:HD11	1.73	0.70
37:BH:145:GLU:HG2	37:BH:184:LYS:HE2	1.72	0.70
37:BH:20:TYR:CA	37:BH:26:CYS:O	2.39	0.70
37:BH:63:LYS:HG2	37:BH:64:LEU:N	2.07	0.70
37:BH:78:LEU:HD21	37:BH:96:LEU:HD22	1.73	0.70
40:BK:141:VAL:O	40:BK:144:MET:HE2	1.92	0.70
40:BK:87:VAL:HG13	40:BK:152:ALA:CA	2.21	0.70
40:BK:5:ARG:CD	40:BK:7:ALA:H	2.03	0.70
41:BL:114:THR:HA	41:BL:131:GLY:HA3	1.71	0.70
41:BL:126:LYS:C	41:BL:126:LYS:HD2	2.13	0.70
42:BM:15:ALA:HB1	42:BM:77:ILE:HG13	1.73	0.70
46:BQ:80:ARG:NH2	46:BQ:81:LEU:HB3	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:77:ARG:O	48:BS:80:ALA:HB3	1.92	0.70
51:BV:47:THR:O	51:BV:82:THR:HA	1.92	0.70
57:BZ:82:GLY:N	57:BZ:361:ARG:HB3	2.07	0.70
57:BZ:74:ASP:O	57:BZ:75:THR:OG1	2.08	0.70
57:BZ:88:VAL:HG13	57:BZ:92:VAL:CG1	2.20	0.70
57:BZ:8:ILE:CD1	57:BZ:96:LEU:CD1	2.70	0.70
18:AT:60:ASN:HD21	18:AT:61:ASN:ND2	1.89	0.70
1:AA:1044:G:N3	31:AI:6:ASN:CB	2.53	0.69
1:AA:1116:C:H2'	1:AA:1117:G:C8	2.26	0.69
1:AA:1139:G:P	9:AK:63:THR:HG21	2.32	0.69
1:AA:1312:U:H5	19:AU:62:LYS:HG3	1.56	0.69
1:AA:1473:G:H2'	1:AA:1474:C:H6	1.56	0.69
1:AA:1527:G:H2'	1:AA:1528:A:O4'	1.92	0.69
1:AA:162:U:H3'	1:AA:163:U:C5'	2.22	0.69
1:AA:1735:C:C4	1:AA:1741:C:N4	2.60	0.69
1:AA:1748:G:H2'	1:AA:1749:A:C8	2.27	0.69
1:AA:1789:A:C4'	4:AD:222:ARG:CZ	2.71	0.69
1:AA:1935:G:H2'	1:AA:1962:C:H42	1.53	0.69
1:AA:2014:A:O5'	1:AA:2014:A:H8	1.74	0.69
1:AA:2051:A:C6	1:AA:2614:A:C5	2.79	0.69
1:AA:2083:G:C2	1:AA:2084:C:C2	2.80	0.69
1:AA:2416:C:H6	1:AA:2416:C:O5'	1.75	0.69
1:AA:221:A:N7	1:AA:266:G:C6	2.61	0.69
1:AA:2765:A:N3	1:AA:2765:A:C2'	2.55	0.69
1:AA:2764:A:H5'	1:AA:2765:A:OP2	1.92	0.69
1:AA:280:C:H5''	1:AA:282:A:OP1	1.91	0.69
1:AA:533:G:OP1	16:AR:24:TYR:HB3	1.92	0.69
1:AA:666:G:H2'	1:AA:667:U:C6	2.27	0.69
1:AA:91:A:H3'	1:AA:92:G:C8	2.27	0.69
2:AB:23:G:H2'	2:AB:24:G:C8	2.27	0.69
2:AB:45:A:H1'	7:AG:95:ARG:CZ	2.22	0.69
3:AC:213:TYR:CB	3:AC:223:ARG:HA	2.16	0.69
1:AA:728:G:O3'	4:AD:13:ARG:NH2	2.25	0.69
5:AE:149:ARG:HE	5:AE:150:VAL:C	1.95	0.69
5:AE:49:LEU:CA	5:AE:76:ARG:O	2.38	0.69
5:AE:4:ILE:HG13	5:AE:4:ILE:O	1.90	0.69
7:AG:4:ASP:HA	7:AG:7:LEU:HD12	1.72	0.69
7:AG:68:PRO:HG3	7:AG:72:ARG:HH12	1.55	0.69
8:AH:126:PRO:CG	8:AH:132:ARG:HH22	2.03	0.69
8:AH:159:GLU:OE2	8:AH:161:GLY:N	2.20	0.69
8:AH:41:MET:HE1	8:AH:68:THR:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1077:A:C2	32:AJ:133:SER:HA	2.26	0.69
32:AJ:90:LYS:HB3	32:AJ:91:PRO:HD3	1.73	0.69
10:AL:106:LEU:HD12	10:AL:107:ARG:N	2.06	0.69
10:AL:10:VAL:HG12	10:AL:17:ARG:CA	2.22	0.69
10:AL:63:VAL:HG22	10:AL:82:ASN:H	1.56	0.69
10:AL:68:GLU:CD	10:AL:76:ALA:HB3	2.13	0.69
11:AM:36:LYS:NZ	11:AM:42:SER:OG	2.21	0.69
12:AN:134:ARG:HG3	12:AN:134:ARG:NH1	2.07	0.69
13:AO:58:GLY:HA2	13:AO:80:PHE:CZ	2.27	0.69
13:AO:65:LEU:HD23	13:AO:65:LEU:C	2.13	0.69
16:AR:61:TRP:O	16:AR:65:ILE:HG12	1.92	0.69
16:AR:70:ARG:CG	16:AR:75:ASN:HA	2.20	0.69
20:AV:84:ARG:HG2	20:AV:86:ARG:H	1.55	0.69
21:AW:129:SER:HB3	21:AW:133:ILE:CG2	2.21	0.69
24:AZ:31:LEU:CD1	24:AZ:32:GLN:HE22	2.04	0.69
34:BA:1391:U:H2'	34:BA:1392:G:C8	2.27	0.69
34:BA:1393:U:C4'	34:BA:1501:C:O2'	2.38	0.69
34:BA:60:A:C2	34:BA:107:G:N3	2.60	0.69
34:BA:692:U:H2'	34:BA:694:A:OP2	1.91	0.69
34:BA:703:G:O2'	34:BA:704:A:OP2	2.07	0.69
34:BA:865:A:H5'	34:BA:1078:U:C4	2.27	0.69
35:BF:21:ARG:HE	35:BF:21:ARG:N	1.90	0.69
36:BG:110:ASN:HD21	36:BG:140:ARG:HG2	1.56	0.69
36:BG:138:VAL:HG22	36:BG:151:VAL:CG2	2.22	0.69
40:BK:143:ARG:CD	40:BK:144:MET:N	2.55	0.69
41:BL:17:THR:CG2	41:BL:18:ARG:NH2	2.55	0.69
41:BL:48:TYR:CB	41:BL:61:VAL:HG22	2.22	0.69
46:BQ:16:ASP:OD1	46:BQ:34:LEU:CD1	2.39	0.69
48:BS:34:LEU:HG	48:BS:35:ARG:N	2.06	0.69
53:BX:23:ARG:CA	53:BX:26:ASN:OD1	2.40	0.69
57:BZ:13:HIS:CB	57:BZ:108:GLN:HG3	2.21	0.69
57:BZ:54:ILE:HG13	57:BZ:211:GLN:NE2	2.05	0.69
57:BZ:446:ARG:C	57:BZ:480:VAL:HG11	2.13	0.69
57:BZ:39:GLN:C	57:BZ:40:GLU:HG3	2.11	0.69
1:AA:1488:G:C3'	1:AA:1489:U:H5'	2.21	0.69
1:AA:1036:G:C5'	8:AH:59:ARG:NH2	2.54	0.69
1:AA:1046:A:C5	31:AI:6:ASN:C	2.65	0.69
1:AA:1388:G:O2'	1:AA:1525:G:H5'	1.91	0.69
1:AA:1398:C:H2'	1:AA:1399:C:H6	1.56	0.69
1:AA:143:C:C2	1:AA:144:C:C5	2.80	0.69
1:AA:1799:G:H8	4:AD:268:ARG:HH12	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2228:G:N7	1:AA:2229:C:C6	2.60	0.69
1:AA:2291:U:H2'	1:AA:2292:C:C6	2.27	0.69
1:AA:241:A:C2'	1:AA:242:G:H4'	2.23	0.69
1:AA:2484:G:H2'	1:AA:2485:G:H5'	1.74	0.69
1:AA:2448:A:P	1:AA:2499:C:OP2	2.50	0.69
1:AA:2556:C:H5'	57:BZ:550:GLY:HA3	1.73	0.69
1:AA:2656:U:H2'	1:AA:2657:A:C5'	2.21	0.69
1:AA:498:G:H8	1:AA:498:G:O5'	1.74	0.69
1:AA:513:A:C6	1:AA:514:A:N7	2.59	0.69
1:AA:695:G:C6	1:AA:768:G:O6	2.45	0.69
1:AA:902:C:H2'	1:AA:903:C:C4	2.27	0.69
1:AA:935:C:C2	1:AA:936:C:C5	2.80	0.69
1:AA:959:A:H2'	1:AA:960:A:C8	2.27	0.69
3:AC:165:ASN:HA	3:AC:170:ALA:O	1.91	0.69
4:AD:182:LEU:HD12	4:AD:270:ILE:HD11	1.72	0.69
4:AD:226:MET:CE	4:AD:237:GLU:O	2.39	0.69
5:AE:15:PHE:CD2	5:AE:16:ARG:HG3	2.27	0.69
5:AE:98:PRO:HA	5:AE:172:VAL:CG2	2.22	0.69
1:AA:1046:A:C4	31:AI:11:ALA:HB3	2.27	0.69
10:AL:70:LYS:HE2	10:AL:104:ARG:CG	2.22	0.69
11:AM:78:PRO:HG2	11:AM:117:GLU:OE2	1.93	0.69
11:AM:72:PRO:HB3	11:AM:110:TYR:C	2.12	0.69
12:AN:37:LEU:HD23	12:AN:100:GLY:HA3	1.74	0.69
12:AN:137:TYR:O	12:AN:138:ASP:OD1	2.10	0.69
12:AN:56:ARG:HD2	12:AN:57:HIS:N	2.07	0.69
13:AO:20:LEU:HD13	13:AO:21:TYR:N	2.07	0.69
10:AL:75:SER:C	15:AQ:77:PRO:HG2	2.13	0.69
15:AQ:85:LYS:H	15:AQ:85:LYS:NZ	1.90	0.69
16:AR:94:ASN:HA	16:AR:97:ASP:OD1	1.91	0.69
18:AT:13:SER:HB3	18:AT:16:LYS:HE2	1.75	0.69
18:AT:16:LYS:N	18:AT:16:LYS:NZ	2.37	0.69
21:AW:102:LEU:HD22	21:AW:137:ILE:HB	1.72	0.69
21:AW:18:LEU:HD11	21:AW:38:TYR:CD1	2.27	0.69
21:AW:7:ALA:HB2	21:AW:38:TYR:CG	2.27	0.69
22:AX:51:VAL:HG11	22:AX:79:VAL:HG21	1.74	0.69
34:BA:1289:A:O2'	34:BA:1290:G:H5'	1.92	0.69
34:BA:1407:C:O2'	34:BA:1408:A:H5'	1.92	0.69
34:BA:1453:G:H2'	53:BX:36:LEU:HD11	1.71	0.69
34:BA:1415:G:N1	34:BA:1486:G:C6	2.60	0.69
34:BA:1520:G:H2'	34:BA:1521:G:H8	1.57	0.69
34:BA:264:U:C2'	34:BA:264:U:O2	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:535:A:H4'	34:BA:536:C:OP2	1.92	0.69
35:BF:97:TRP:CZ2	35:BF:102:LEU:HD13	2.24	0.69
35:BF:192:SER:O	35:BF:194:PRO:HD3	1.92	0.69
36:BG:30:ARG:HG2	36:BG:31:HIS:N	2.04	0.69
38:BI:20:GLN:HE22	38:BI:21:ALA:HB3	1.56	0.69
42:BM:8:GLY:HA3	42:BM:76:ALA:O	1.92	0.69
43:BN:84:GLN:HA	43:BN:88:LEU:HD12	1.73	0.69
34:BA:684:A:O3'	44:BO:12:ARG:NH2	2.25	0.69
44:BO:91:ARG:O	44:BO:94:ALA:HB3	1.92	0.69
52:BW:51:VAL:HG11	52:BW:75:ALA:HB2	1.74	0.69
53:BX:100:ILE:O	53:BX:102:GLY:N	2.19	0.69
34:BA:1326:C:H5''	54:BY:12:LYS:NZ	2.07	0.69
57:BZ:119:TYR:HD2	57:BZ:121:LEU:HG	1.57	0.69
57:BZ:509:LYS:CG	57:BZ:561:ILE:HD13	2.22	0.69
1:AA:1504:C:O5'	1:AA:1504:C:C6	2.46	0.69
1:AA:1508:A:H3'	1:AA:1510:A:C8	2.27	0.69
1:AA:1041:C:C2	1:AA:1115:G:C6	2.81	0.69
1:AA:1205:U:O2'	1:AA:1206:G:N7	2.24	0.69
1:AA:149:A:N7	1:AA:150:C:C2	2.60	0.69
1:AA:1567:A:O2'	1:AA:1568:G:C6	2.45	0.69
1:AA:1754:C:C2	1:AA:1755:A:H1'	2.28	0.69
1:AA:2009:G:H1'	13:AO:107:ASP:HA	1.74	0.69
1:AA:2129:C:H4'	3:AC:6:ARG:CB	2.20	0.69
1:AA:2231:C:H2'	1:AA:2232:U:C6	2.27	0.69
1:AA:2287:A:C8	1:AA:2289:G:N7	2.60	0.69
1:AA:2532:G:H4'	1:AA:2657:A:N3	2.01	0.69
1:AA:272:G:O2'	1:AA:273:G:H5'	1.92	0.69
1:AA:284:U:C6	1:AA:284:U:OP2	2.45	0.69
1:AA:455:C:O2'	1:AA:456:C:H5'	1.92	0.69
1:AA:491:G:H2'	1:AA:492:A:C8	2.28	0.69
1:AA:29:U:OP1	1:AA:583:G:H4'	1.91	0.69
1:AA:718:A:H3'	1:AA:719:C:C6	2.24	0.69
1:AA:720:C:H2'	1:AA:721:C:H6	1.56	0.69
3:AC:104:LEU:HD22	3:AC:127:LEU:HD23	1.74	0.69
3:AC:153:ILE:O	3:AC:156:ILE:HB	1.92	0.69
3:AC:62:VAL:HB	3:AC:191:ALA:O	1.90	0.69
3:AC:6:ARG:NH1	3:AC:7:TYR:HA	2.06	0.69
1:AA:781:A:O2'	4:AD:222:ARG:NH2	2.25	0.69
4:AD:37:LEU:CD1	4:AD:63:ARG:HA	2.21	0.69
4:AD:5:LYS:HB2	4:AD:82:ILE:HD12	1.73	0.69
1:AA:1996:C:C2'	5:AE:123:ALA:HB3	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:44:TYR:HD2	5:AE:45:THR:H	1.36	0.69
6:AF:200:GLU:OE1	6:AF:201:VAL:N	2.22	0.69
6:AF:41:LEU:O	6:AF:44:ARG:CG	2.40	0.69
8:AH:6:ARG:C	8:AH:69:ARG:HE	1.95	0.69
10:AL:103:ALA:HB1	10:AL:107:ARG:NE	2.07	0.69
10:AL:37:ASP:H	10:AL:61:VAL:CB	2.06	0.69
10:AL:68:GLU:HG2	10:AL:76:ALA:O	1.92	0.69
10:AL:85:VAL:HG12	10:AL:93:PRO:HB3	1.74	0.69
11:AM:113:LYS:HA	11:AM:129:ALA:O	1.92	0.69
12:AN:35:VAL:HG12	12:AN:130:LYS:O	1.90	0.69
12:AN:22:LYS:CD	12:AN:23:GLY:H	2.04	0.69
12:AN:42:ILE:O	12:AN:42:ILE:HG23	1.92	0.69
12:AN:6:ARG:NH2	12:AN:8:LYS:H	1.90	0.69
13:AO:41:ALA:CB	13:AO:114:VAL:HG21	2.22	0.69
14:AP:17:ARG:NE	14:AP:89:ARG:HB2	2.07	0.69
15:AQ:109:GLU:O	15:AQ:113:LYS:HB2	1.92	0.69
16:AR:44:ASN:C	16:AR:47:TYR:HB2	2.10	0.69
18:AT:34:ASN:HA	18:AT:37:ARG:NE	2.05	0.69
19:AU:7:VAL:O	19:AU:8:ILE:HG23	1.92	0.69
22:AX:59:LEU:HD13	22:AX:79:VAL:HG11	1.74	0.69
34:BA:1430:C:C2	34:BA:1431:C:H5	2.09	0.69
34:BA:19:C:O2	34:BA:572:A:H2	1.75	0.69
34:BA:336:C:H2'	34:BA:337:C:H6	1.57	0.69
34:BA:452:A:H2'	34:BA:453:A:C8	2.26	0.69
34:BA:684:A:H2	34:BA:706:A:H61	1.40	0.69
34:BA:750:G:O4'	48:BS:22:THR:OG1	2.11	0.69
34:BA:865:A:C4	34:BA:866:C:O2	2.45	0.69
34:BA:953:G:H2'	34:BA:954:G:C8	2.27	0.69
36:BG:70:VAL:O	36:BG:105:GLU:HA	1.91	0.69
37:BH:58:LEU:HD13	37:BH:58:LEU:C	2.12	0.69
39:BJ:76:ALA:CB	39:BJ:80:ARG:NH2	2.55	0.69
41:BL:9:MET:O	41:BL:13:ILE:HG13	1.93	0.69
34:BA:518:C:O2'	45:BP:50:SER:HB3	1.92	0.69
48:BS:34:LEU:CG	48:BS:35:ARG:N	2.55	0.69
51:BV:37:VAL:HG12	51:BV:41:LYS:HE3	1.72	0.69
53:BX:27:LYS:C	53:BX:27:LYS:HD3	2.12	0.69
57:BZ:184:THR:H	57:BZ:185:PRO:HD3	1.58	0.69
1:AA:1223:C:HO2'	1:AA:1225:C:H5	1.38	0.69
1:AA:1270:C:H5''	1:AA:1271:G:H5''	1.74	0.69
1:AA:1271:G:O5'	1:AA:1272:A:OP1	2.10	0.69
1:AA:1690:A:C2	1:AA:1691:C:C1'	2.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:174:C:C2'	1:AA:175:G:H5'	2.21	0.69
1:AA:1779:U:C6	1:AA:1779:U:O5'	2.46	0.69
1:AA:1779:U:H6	1:AA:1779:U:O5'	1.75	0.69
1:AA:1859:A:H2'	1:AA:1860:G:O4'	1.93	0.69
1:AA:1936:A:C1'	1:AA:1940:U:C4	2.75	0.69
1:AA:2067:G:N2	1:AA:2069:G:H1'	2.08	0.69
1:AA:2126:A:H1'	1:AA:2162:G:N2	2.07	0.69
1:AA:2296:U:C6	1:AA:2296:U:H3'	2.23	0.69
1:AA:2549:G:O2'	1:AA:2550:G:H5'	1.92	0.69
1:AA:2556:C:H4'	57:BZ:550:GLY:C	2.13	0.69
1:AA:2636:U:H4'	5:AE:79:ARG:NH2	2.08	0.69
1:AA:2849:U:C6	1:AA:2849:U:H3'	2.27	0.69
1:AA:464:U:H2'	1:AA:465:G:C8	2.27	0.69
1:AA:532:A:H8	1:AA:533:G:H1'	1.57	0.69
1:AA:665:C:H6	1:AA:665:C:OP2	1.76	0.69
1:AA:727:A:C6	1:AA:729:G:O6	2.45	0.69
1:AA:880:G:C6	1:AA:897:C:O2	2.45	0.69
3:AC:82:LYS:CD	3:AC:116:THR:HG21	2.19	0.69
3:AC:163:PHE:HA	3:AC:171:ILE:HD11	1.73	0.69
1:AA:2177:C:O3'	3:AC:211:SER:HB2	1.91	0.69
1:AA:2177:C:H5''	3:AC:223:ARG:HB2	1.72	0.69
3:AC:42:GLU:OE2	3:AC:174:PRO:HB3	1.91	0.69
3:AC:46:LYS:HD3	3:AC:210:ARG:HB3	1.75	0.69
4:AD:202:LYS:H	4:AD:202:LYS:CD	2.05	0.69
6:AF:185:ASP:O	6:AF:189:THR:HG23	1.92	0.69
7:AG:139:LEU:HD13	7:AG:142:PRO:CA	2.23	0.69
7:AG:103:LEU:HD21	7:AG:176:LEU:CD1	2.23	0.69
8:AH:8:PRO:N	8:AH:69:ARG:HH11	1.90	0.69
10:AL:64:ARG:HH11	10:AL:67:LYS:H	0.77	0.69
10:AL:90:GLN:O	10:AL:91:LEU:C	2.29	0.69
18:AT:33:ARG:CA	18:AT:33:ARG:HE	2.04	0.69
20:AV:88:LYS:HB3	20:AV:91:GLU:OE2	1.93	0.69
21:AW:9:TYR:HB3	21:AW:14:LYS:HZ3	1.57	0.69
34:BA:1120:G:H8	34:BA:1120:G:O5'	1.75	0.69
34:BA:1213:A:C6	34:BA:1215:G:C2	2.81	0.69
34:BA:310:G:H2'	34:BA:311:C:H6	1.54	0.69
34:BA:517:G:HO2'	34:BA:530:G:H4'	1.57	0.69
34:BA:745:C:H5''	34:BA:851:G:H1'	1.72	0.69
34:BA:792:A:H2'	34:BA:794:A:N6	2.00	0.69
34:BA:944:G:H3'	34:BA:945:G:C5'	2.21	0.69
56:BE:20:U:OP1	56:BE:20:U:H4'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:212:GLN:O	35:BF:216:SER:CB	2.41	0.69
36:BG:22:TRP:HB3	36:BG:59:ARG:HB3	1.74	0.69
37:BH:31:CYS:O	37:BH:33:MET:N	2.24	0.69
38:BI:118:ILE:O	38:BI:119:LEU:HD23	1.92	0.69
38:BI:59:GLY:C	38:BI:63:ARG:HH21	1.95	0.69
40:BK:78:ARG:HE	40:BK:80:VAL:HG23	1.57	0.69
45:BP:27:LEU:HD23	45:BP:33:ARG:HD3	1.74	0.69
45:BP:25:PRO:C	45:BP:27:LEU:N	2.42	0.69
49:BT:74:LEU:HD22	49:BT:79:VAL:HG21	1.73	0.69
50:BU:7:THR:HG21	50:BU:56:VAL:HG12	1.73	0.69
52:BW:48:THR:HA	52:BW:60:VAL:O	1.93	0.69
57:BZ:181:GLU:OE1	57:BZ:183:MET:HE2	1.91	0.69
1:AA:883:G:C6	1:AA:884:C:H5	2.11	0.69
1:AA:1418:G:N3	1:AA:1581:G:N2	2.40	0.69
14:AP:54:LEU:HG	14:AP:56:LEU:HD22	1.73	0.69
1:AA:1266:G:HO2'	1:AA:2012:G:H1	1.34	0.69
1:AA:1470:G:H8	1:AA:1470:G:H3'	1.58	0.69
1:AA:1529:A:H8	1:AA:1530:G:C8	2.11	0.69
1:AA:1613:G:N2	1:AA:1619:G:C4	2.60	0.69
1:AA:1735:C:N4	1:AA:1741:C:N4	2.39	0.69
1:AA:1780:A:OP2	1:AA:1782:C:P	2.51	0.69
1:AA:1835:G:C2'	1:AA:1836:C:H5'	2.23	0.69
1:AA:1966:A:C4	1:AA:2593:U:H5'	2.27	0.69
1:AA:2067:G:H5''	1:AA:2068:U:OP2	1.93	0.69
1:AA:2096:U:H2'	1:AA:2097:C:H5	1.56	0.69
1:AA:2205:C:O2'	1:AA:2206:C:H5'	1.92	0.69
1:AA:2329:G:N1	1:AA:2386:C:N4	2.39	0.69
1:AA:2392:A:C2	1:AA:2429:G:C2	2.81	0.69
1:AA:2615:U:H2'	1:AA:2616:C:H6	1.58	0.69
1:AA:541:C:H2'	1:AA:542:C:H6	1.57	0.69
1:AA:58:G:H1'	1:AA:70:G:N2	2.07	0.69
1:AA:64:A:H2'	1:AA:65:C:C5'	2.23	0.69
1:AA:685:A:O2'	1:AA:686:G:OP2	2.10	0.69
1:AA:774:A:O2'	1:AA:775:G:O5'	2.10	0.69
1:AA:920:G:C2'	1:AA:921:G:H5'	2.23	0.69
1:AA:945:A:N3	1:AA:945:A:H2'	2.05	0.69
3:AC:76:ALA:HB2	3:AC:153:ILE:HD12	1.74	0.69
1:AA:2175:C:P	3:AC:7:TYR:CB	2.80	0.69
4:AD:176:ARG:HH11	4:AD:176:ARG:CG	2.04	0.69
8:AH:69:ARG:HG3	8:AH:70:THR:H	1.57	0.69
9:AK:37:LYS:HE2	9:AK:43:THR:HG22	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:3:GLN:HE22	10:AL:33:ALA:HB3	0.68	0.69
1:AA:672:C:OP2	11:AM:38:GLN:HG2	1.92	0.69
14:AP:9:ARG:H	14:AP:9:ARG:NH1	1.89	0.69
15:AQ:6:LEU:CD2	15:AQ:7:ILE:HG23	2.21	0.69
17:AS:11:GLN:OE1	17:AS:22:VAL:HB	1.93	0.69
17:AS:18:LEU:HD12	17:AS:66:ARG:NH1	2.06	0.69
20:AV:97:ARG:CZ	20:AV:101:LYS:HG2	2.21	0.69
20:AV:28:LYS:O	20:AV:28:LYS:HG2	1.92	0.69
20:AV:33:LYS:HB3	20:AV:35:TYR:CE2	2.27	0.69
21:AW:157:LEU:HD13	21:AW:161:VAL:CG1	2.21	0.69
21:AW:48:PHE:CE2	21:AW:86:VAL:HG11	2.27	0.69
23:AY:54:ARG:HH21	23:AY:54:ARG:HG2	1.57	0.69
34:BA:1269:A:C1'	34:BA:1312:G:N2	2.55	0.69
34:BA:1506:U:C4'	34:BA:1507:A:OP2	2.41	0.69
34:BA:195:A:H4'	53:BX:68:LYS:NZ	2.08	0.69
34:BA:219:C:H2'	34:BA:220:G:O4'	1.91	0.69
34:BA:403:C:O2'	37:BH:122:ARG:CZ	2.39	0.69
34:BA:427:U:H6	34:BA:427:U:O5'	1.74	0.69
34:BA:608:A:H2'	34:BA:608:A:N3	2.08	0.69
34:BA:1230:C:H5'	56:BE:30:G:H5'	1.74	0.69
36:BG:91:LEU:HD23	36:BG:91:LEU:C	2.13	0.69
37:BH:60:GLU:HA	37:BH:63:LYS:HD3	1.74	0.69
39:BJ:28:ARG:HG2	39:BJ:28:ARG:NH1	2.08	0.69
41:BL:68:ARG:CZ	41:BL:74:PRO:HB3	2.22	0.69
43:BN:15:THR:HG23	43:BN:16:LEU:CD2	2.21	0.69
34:BA:1125:U:C4	43:BN:5:ARG:NH2	2.57	0.69
44:BO:104:GLN:NE2	44:BO:106:LYS:H	1.91	0.69
44:BO:82:VAL:HG12	44:BO:108:ILE:HG23	1.74	0.69
48:BS:36:ILE:HD12	48:BS:63:ARG:CD	2.22	0.69
50:BU:104:LYS:HD3	50:BU:105:ALA:H	1.58	0.69
34:BA:264:U:H2'	50:BU:64:PRO:HB2	1.73	0.69
50:BU:75:ARG:HH12	50:BU:77:VAL:HG22	1.55	0.69
51:BV:26:LEU:HG	51:BV:27:GLY:O	1.93	0.69
34:BA:1459:C:P	53:BX:31:SER:OG	2.51	0.69
57:BZ:431:PRO:HA	57:BZ:437:VAL:HG23	1.73	0.69
57:BZ:84:GLU:HG3	57:BZ:85:VAL:H	1.56	0.69
57:BZ:89:MET:HG2	57:BZ:119:TYR:CE2	2.28	0.69
1:AA:2191:G:N2	1:AA:2192:G:N3	2.40	0.69
1:AA:1000:A:N7	1:AA:1001:A:C6	2.60	0.69
1:AA:1007:C:O2'	9:AK:108:PRO:HB3	1.92	0.69
1:AA:1203:G:O2'	1:AA:1204:A:OP1	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1451:C:O4'	1:AA:1451:C:OP2	2.11	0.69
1:AA:1773:A:C2	1:AA:1977:A:N6	2.60	0.69
1:AA:1813:G:HO2'	4:AD:46:GLN:HG2	1.58	0.69
1:AA:1837:C:O2'	1:AA:1927:A:H1'	1.92	0.69
1:AA:1955:U:C3'	1:AA:1956:U:H5	2.05	0.69
1:AA:1995:U:C5	1:AA:1996:C:C5	2.80	0.69
1:AA:2178:C:O5'	3:AC:213:TYR:OH	2.11	0.69
1:AA:2207:C:H2'	1:AA:2208:U:C4'	2.23	0.69
1:AA:2228:G:N7	1:AA:2229:C:C5	2.60	0.69
1:AA:2572:A:C2	5:AE:144:ARG:NH1	2.61	0.69
1:AA:388:G:N3	1:AA:390:A:C6	2.60	0.69
1:AA:391:G:H2'	1:AA:392:C:H6	1.56	0.69
1:AA:411:G:O4'	1:AA:2407:G:P	2.50	0.69
1:AA:585:G:C6	1:AA:1251:C:C5	2.81	0.69
1:AA:621:A:N7	1:AA:622:G:O4'	2.25	0.69
1:AA:630:G:H1	1:AA:634:C:N4	1.91	0.69
1:AA:881:G:C4	1:AA:896:A:C2	2.80	0.69
1:AA:2175:C:P	3:AC:7:TYR:HB2	2.32	0.69
4:AD:239:ARG:N	4:AD:239:ARG:HD2	2.07	0.69
5:AE:32:PRO:HB2	5:AE:35:GLN:HE22	1.56	0.69
5:AE:47:VAL:HG13	5:AE:79:ARG:HB2	1.73	0.69
5:AE:8:LYS:HB3	5:AE:24:THR:CB	2.23	0.69
6:AF:36:VAL:HG11	6:AF:183:VAL:HG11	1.72	0.69
7:AG:20:ILE:HD12	7:AG:28:VAL:HG13	1.75	0.69
7:AG:75:LYS:NZ	7:AG:85:GLY:HA3	2.08	0.69
8:AH:118:PRO:N	8:AH:121:ILE:HG21	2.08	0.69
9:AK:55:VAL:N	9:AK:130:HIS:CE1	2.60	0.69
10:AL:35:VAL:HA	10:AL:61:VAL:CG1	2.23	0.69
1:AA:636:G:H2'	11:AM:113:LYS:HZ1	1.56	0.69
13:AO:56:LYS:O	13:AO:58:GLY:N	2.25	0.69
14:AP:14:VAL:C	14:AP:18:ILE:HD13	2.13	0.69
14:AP:31:SER:O	14:AP:35:ILE:HB	1.93	0.69
16:AR:108:GLU:OE1	16:AR:109:LEU:N	2.24	0.69
16:AR:45:TYR:HB3	16:AR:49:HIS:HE1	1.57	0.69
1:AA:1009:A:H4'	16:AR:62:ILE:HG21	1.73	0.69
17:AS:78:LYS:CB	17:AS:84:LYS:HB3	2.22	0.69
20:AV:35:TYR:HE1	20:AV:65:ALA:O	1.76	0.69
21:AW:45:ASP:N	21:AW:45:ASP:OD1	2.25	0.69
21:AW:9:TYR:CB	21:AW:14:LYS:HG2	2.22	0.69
24:AZ:35:ARG:HH12	24:AZ:47:VAL:CG2	2.04	0.69
34:BA:1152:A:O2'	34:BA:1153:C:H5'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1221:G:OP1	52:BW:52:TYR:O	2.11	0.69
34:BA:1244:C:H2'	34:BA:1245:A:C8	2.26	0.69
34:BA:1283:G:O2'	34:BA:1284:C:H5'	1.91	0.69
34:BA:1454:G:O2'	34:BA:1455:G:H8	1.75	0.69
34:BA:465:A:N7	34:BA:467:G:C2	2.60	0.69
34:BA:572:A:OP1	34:BA:573:A:OP1	2.10	0.69
34:BA:899:C:N4	34:BA:900:A:N1	2.40	0.69
35:BF:185:ILE:HG22	35:BF:199:TYR:HB2	1.73	0.69
35:BF:223:ILE:HG21	35:BF:229:VAL:HA	1.73	0.69
35:BF:43:ASP:OD1	35:BF:44:LEU:HG	1.93	0.69
35:BF:60:ASP:HB3	35:BF:64:ARG:NH1	2.07	0.69
38:BI:9:LYS:HE2	38:BI:9:LYS:HA	1.75	0.69
40:BK:38:LEU:HA	40:BK:41:ARG:CG	2.22	0.69
41:BL:51:VAL:HG11	41:BL:60:ARG:NH2	2.07	0.69
42:BM:37:PHE:HD2	42:BM:37:PHE:N	1.90	0.69
34:BA:1309:G:O2'	46:BQ:74:VAL:HG22	1.93	0.69
34:BA:1221:G:H5'	52:BW:52:TYR:O	1.91	0.69
57:BZ:179:MET:HB2	57:BZ:182:ASP:HB3	1.73	0.69
57:BZ:580:VAL:CG1	57:BZ:585:ILE:HD12	2.22	0.69
57:BZ:64:ILE:HG21	57:BZ:188:GLN:OE1	1.93	0.69
56:BD:67:C:C2'	56:BD:68:C:H5'	2.23	0.69
20:AV:42:VAL:HG23	20:AV:61:ILE:HG12	1.74	0.69
1:AA:1417:C:N3	1:AA:1581:G:N2	2.40	0.69
1:AA:363(A):A:H2'	1:AA:363(A):A:N3	2.06	0.69
1:AA:1061:U:O2	32:AJ:11:GLN:CD	2.31	0.69
1:AA:1019:U:C2	1:AA:1144:G:N2	2.61	0.69
1:AA:512:G:OP2	1:AA:1235:G:H5'	1.92	0.69
1:AA:1309:G:H2'	1:AA:1310:G:C5'	2.22	0.69
1:AA:1613:G:H3'	1:AA:1614:A:C5'	2.17	0.69
1:AA:1858:G:H22	1:AA:1884:A:H1'	1.57	0.69
1:AA:1936:A:H5'	1:AA:1937:A:C2	2.28	0.69
1:AA:200:U:C4	1:AA:201:C:H1'	2.27	0.69
1:AA:2266:A:H5''	1:AA:2267:A:O5'	1.93	0.69
1:AA:2075:U:H5	1:AA:2435:A:C2	2.09	0.69
1:AA:2468:G:H4'	12:AN:120:ILE:HD13	1.73	0.69
1:AA:2472:G:OP1	57:BZ:529:ARG:CG	2.41	0.69
1:AA:2708:G:OP1	13:AO:68:ARG:HG2	1.92	0.69
1:AA:2848:G:N2	1:AA:2849:U:H3	1.91	0.69
1:AA:353:G:C6	1:AA:354:G:C6	2.80	0.69
1:AA:527:C:O4'	1:AA:2779:U:C4	2.46	0.69
1:AA:668:G:C2	1:AA:670:A:N6	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:751:A:N7	1:AA:789:A:C6	2.61	0.69
4:AD:155:LEU:HG	4:AD:157:ARG:HE	1.57	0.69
5:AE:105:THR:HG23	5:AE:197:ILE:CD1	2.23	0.69
5:AE:49:LEU:CD1	5:AE:74:PRO:HB2	2.22	0.69
6:AF:82:ILE:N	6:AF:82:ILE:CD1	2.56	0.69
7:AG:43:LEU:HD11	7:AG:88:ILE:O	1.93	0.69
8:AH:25:LYS:HD3	8:AH:27:LYS:NZ	2.07	0.69
8:AH:97:ARG:H	8:AH:104:GLU:HB2	1.57	0.69
9:AK:74:ARG:HG3	9:AK:82:LEU:CD2	2.11	0.69
1:AA:624:C:N4	11:AM:104:GLY:HA2	2.05	0.69
11:AM:128:HIS:CG	11:AM:129:ALA:H	2.05	0.69
11:AM:77:ARG:HG2	11:AM:79:ARG:HB3	1.74	0.69
12:AN:66:ILE:N	12:AN:105:GLU:OE2	2.25	0.69
13:AO:50:HIS:NE2	13:AO:54:LEU:HD11	2.08	0.69
16:AR:63:VAL:O	16:AR:64:ARG:C	2.30	0.69
16:AR:98:LEU:HD12	16:AR:105:VAL:CG2	2.19	0.69
17:AS:4:ILE:HD12	17:AS:4:ILE:N	2.06	0.69
23:AY:33:GLN:HB3	23:AY:41:GLN:OE1	1.92	0.69
23:AY:63:ARG:O	23:AY:66:ASN:HB3	1.93	0.69
24:AZ:6:VAL:CG1	24:AZ:56:VAL:HA	2.23	0.69
34:BA:1115:C:C1'	34:BA:1186:G:C2	2.76	0.69
34:BA:1224:G:H1	34:BA:1362(A):C:H42	1.38	0.69
34:BA:1442:G:N3	34:BA:1442:G:H3'	2.08	0.69
34:BA:195:A:H4'	53:BX:68:LYS:HZ3	1.57	0.69
34:BA:345:C:H5''	34:BA:346:G:OP1	1.93	0.69
34:BA:640:A:C2'	34:BA:641:U:H5'	2.23	0.69
34:BA:654:G:C2	34:BA:753:A:H1'	2.27	0.69
34:BA:1230:C:C5'	56:BE:30:G:H5'	2.23	0.69
35:BF:82:ARG:H	35:BF:94:ASN:HD21	1.35	0.69
35:BF:9:GLU:HG2	35:BF:10:LEU:H	1.55	0.69
36:BG:116:VAL:HG11	36:BG:141:VAL:CG2	2.22	0.69
36:BG:41:GLY:O	36:BG:45:LYS:HB2	1.93	0.69
38:BI:79:GLU:HB3	38:BI:91:LEU:O	1.93	0.69
39:BJ:8:ILE:HG23	39:BJ:88:VAL:HA	1.73	0.69
41:BL:18:ARG:HG3	41:BL:18:ARG:NH1	2.02	0.69
42:BM:16:ARG:NE	42:BM:18:PHE:CZ	2.61	0.69
45:BP:58:VAL:CG1	45:BP:59:ARG:N	2.54	0.69
45:BP:68:ALA:HB1	45:BP:98:TYR:C	2.13	0.69
48:BS:15:PHE:HD1	48:BS:30:ALA:HB2	1.55	0.69
1:AA:715:G:H21	48:BS:43:LEU:CD1	2.05	0.69
49:BT:51:VAL:HG21	49:BT:73:LEU:HD11	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:48:LYS:HB3	53:BX:51:GLU:CG	2.22	0.69
57:BZ:230:LYS:HA	57:BZ:231:VAL:HB	1.74	0.69
57:BZ:231:VAL:O	57:BZ:265:THR:OG1	2.10	0.69
57:BZ:250:LYS:N	57:BZ:275:ALA:CB	2.47	0.69
56:BD:1:G:O2'	56:BD:2:C:OP2	2.10	0.69
57:BZ:39:GLN:HA	57:BZ:40:GLU:HG3	1.75	0.69
55:BC:28:G:H2'	55:BC:29:G:C8	2.27	0.69
56:BD:41:C:H2'	56:BD:42:C:O4'	1.93	0.69
14:AP:33:LYS:HG2	14:AP:54:LEU:CD1	2.21	0.69
9:AK:139:GLU:O	9:AK:140:VAL:CG2	2.41	0.69
1:AA:1212:G:O2'	1:AA:1213:A:H8	1.74	0.69
1:AA:1241:A:C4	1:AA:1241:A:H5''	2.28	0.69
1:AA:126:A:H2'	1:AA:127:A:H5'	1.73	0.69
1:AA:1618:A:H8	1:AA:1618:A:OP1	1.76	0.69
1:AA:1698:A:O2'	1:AA:1699:G:O5'	2.10	0.69
1:AA:1708:C:H2'	1:AA:1709:U:C5'	2.23	0.69
1:AA:1931:U:H5	1:AA:1932:A:N7	1.90	0.69
1:AA:2056:G:OP2	1:AA:2057:A:OP2	2.10	0.69
1:AA:2061:G:N2	1:AA:2063:C:O4'	2.26	0.69
1:AA:211:A:H2'	1:AA:212:G:O4'	1.92	0.69
1:AA:2668:G:C2	1:AA:2669:G:C5	2.80	0.69
1:AA:2725:A:C2'	1:AA:2726:U:H3'	2.16	0.69
1:AA:28:A:C2'	1:AA:29:U:H5'	2.23	0.69
1:AA:746:A:C6	1:AA:2611:U:H4'	2.28	0.69
1:AA:866:A:N6	1:AA:913:U:O2'	2.21	0.69
2:AB:4:C:C2	2:AB:117:G:N2	2.61	0.69
3:AC:133:PRO:O	55:BC:56:C:OP2	2.11	0.69
3:AC:22:ILE:CG2	3:AC:190:ARG:HH22	1.98	0.69
4:AD:178:PRO:O	4:AD:180:GLY:N	2.25	0.69
4:AD:234:GLY:HA3	4:AD:241:PRO:HG3	1.74	0.69
5:AE:202:LYS:C	5:AE:204:ALA:H	1.94	0.69
9:AK:78:TYR:CB	9:AK:79:PRO:HD2	2.21	0.69
10:AL:68:GLU:HG2	10:AL:76:ALA:C	2.13	0.69
11:AM:6:LEU:O	11:AM:6:LEU:HD23	1.92	0.69
13:AO:94:TYR:C	13:AO:117:VAL:HG12	2.13	0.69
14:AP:26:LEU:HD21	14:AP:37:ALA:CB	2.22	0.69
15:AQ:29:ARG:HG2	15:AQ:51:ARG:CG	2.20	0.69
17:AS:20:LEU:CD1	17:AS:68:LYS:HZ3	1.97	0.69
18:AT:73:ALA:O	18:AT:106:ILE:HG22	1.92	0.69
18:AT:17:VAL:O	18:AT:20:VAL:CG1	2.38	0.69
34:BA:1504:G:OP2	34:BA:1504:G:H3'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:153:C:H2'	34:BA:154:C:C6	2.27	0.69
34:BA:197:A:P	34:BA:197:A:O4'	2.50	0.69
34:BA:208:U:H4'	34:BA:209:U:OP1	1.92	0.69
34:BA:517:G:H5'	34:BA:519:C:N4	2.06	0.69
34:BA:698:G:H2'	34:BA:699:C:H6	1.58	0.69
34:BA:858:G:N1	34:BA:869:G:H3'	2.07	0.69
56:BE:2:C:H2'	56:BE:70:G:C2	2.27	0.69
37:BH:52:SER:C	37:BH:54:TYR:N	2.40	0.69
38:BI:78:HIS:H	38:BI:78:HIS:HD2	1.41	0.69
41:BL:109:ILE:CD1	41:BL:137:VAL:HB	2.23	0.69
41:BL:46:LYS:HZ1	41:BL:65:TYR:H	1.39	0.69
43:BN:76:ASN:O	43:BN:78:ASN:N	2.26	0.69
47:BR:55:GLY:O	47:BR:56:VAL:C	2.31	0.69
34:BA:580:U:H4'	48:BS:58:MET:HG2	1.73	0.69
50:BU:5:VAL:CG1	50:BU:6:LEU:N	2.56	0.69
51:BV:43:PHE:C	51:BV:51:LEU:HD22	2.13	0.69
53:BX:42:GLN:O	53:BX:45:GLN:HB2	1.92	0.69
53:BX:40:ALA:HA	53:BX:55:ILE:HD13	1.74	0.69
53:BX:55:ILE:O	53:BX:57:ARG:N	2.26	0.69
57:BZ:211:GLN:CB	57:BZ:223:ILE:HG21	2.23	0.69
57:BZ:267:LEU:HD23	57:BZ:268:ALA:N	2.06	0.69
57:BZ:374:ARG:CZ	57:BZ:581:THR:H	2.06	0.69
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.27	0.69
1:AA:1287:A:O4'	13:AO:104:ARG:HD2	1.93	0.69
1:AA:1335:U:O2'	1:AA:1336:A:H5'	1.93	0.69
1:AA:1929:G:O2'	1:AA:1930:G:H5''	1.92	0.69
1:AA:1785:A:C5'	1:AA:1982:C:H4'	2.22	0.69
1:AA:1995:U:H5''	1:AA:1996:C:H5''	1.75	0.69
1:AA:2355:C:H1'	22:AX:39:ARG:HH21	1.57	0.69
1:AA:2618:G:C2	1:AA:2619:C:C6	2.80	0.69
1:AA:2708:G:H2'	1:AA:2709:G:C8	2.27	0.69
1:AA:2792:G:C2	1:AA:2793:G:C5	2.81	0.69
1:AA:312:G:H3'	1:AA:313:C:C5	2.28	0.69
1:AA:865:C:N4	1:AA:909:A:N6	2.37	0.69
1:AA:930:U:O2'	1:AA:931:G:O5'	2.10	0.69
1:AA:955:C:H2'	1:AA:956:G:O5'	1.93	0.69
4:AD:158:ALA:C	4:AD:160:GLY:H	1.94	0.69
4:AD:46:GLN:C	4:AD:48:ARG:N	2.41	0.69
32:AJ:104:VAL:CG1	32:AJ:127:ILE:CD1	0.82	0.69
32:AJ:105:LEU:CD2	32:AJ:123:ALA:CB	2.70	0.69
9:AK:103:VAL:HG22	9:AK:104:LYS:HD3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:54:VAL:O	9:AK:122:VAL:HB	1.93	0.69
10:AL:79:PHE:HB2	15:AQ:73:GLU:CD	2.12	0.69
14:AP:49:VAL:HG22	14:AP:76:LYS:NZ	2.07	0.69
16:AR:48:ALA:HA	16:AR:51:LYS:HD2	1.75	0.69
17:AS:61:VAL:HG12	17:AS:62:LEU:N	2.07	0.69
19:AU:47:PHE:HZ	19:AU:92:LEU:HD11	1.56	0.69
19:AU:66:LEU:O	19:AU:66:LEU:HD12	1.93	0.69
34:BA:1147:C:N3	34:BA:1148:U:C4	2.61	0.69
34:BA:1152:A:N1	34:BA:1153:C:C4	2.61	0.69
34:BA:1256:A:O3'	34:BA:1257:U:C4'	2.41	0.69
34:BA:1399:C:N4	34:BA:1502:A:N7	2.39	0.69
34:BA:236:G:C3'	34:BA:237:C:H6	2.05	0.69
34:BA:277:C:C5'	50:BU:68:ARG:HH12	2.06	0.69
34:BA:306:G:O2'	34:BA:307:C:H5'	1.92	0.69
34:BA:379:C:H2'	34:BA:380:G:H5'	1.75	0.69
34:BA:668:G:HO2'	48:BS:46:HIS:CE1	2.10	0.69
38:BI:86:ALA:HB3	38:BI:130:ASN:HD21	1.58	0.69
41:BL:119:LEU:HB3	41:BL:123:GLU:OE1	1.91	0.69
34:BA:1347:G:C8	42:BM:107:ARG:HB3	2.28	0.69
34:BA:942:G:N2	42:BM:124:GLN:HE22	1.90	0.69
34:BA:564:C:OP1	45:BP:15:ARG:CZ	2.41	0.69
45:BP:84:LEU:CG	45:BP:85:ILE:N	2.56	0.69
46:BQ:20:THR:HG23	46:BQ:26:GLY:HA3	0.70	0.69
46:BQ:36:LYS:HB3	46:BQ:56:LEU:HD21	1.74	0.69
46:BQ:12:ASN:HA	46:BQ:44:ARG:O	1.93	0.69
34:BA:1202:G:H1'	47:BR:29:ARG:HD2	1.75	0.69
49:BT:51:VAL:HG21	49:BT:73:LEU:CD1	2.23	0.69
50:BU:4:LYS:O	50:BU:5:VAL:HG23	1.93	0.69
34:BA:1220:G:O3'	52:BW:52:TYR:O	2.11	0.69
57:BZ:176:HIS:ND1	57:BZ:177:GLU:HB3	2.08	0.69
57:BZ:5:LEU:HG	57:BZ:269:GLU:HG3	1.73	0.69
41:BL:53:VAL:O	41:BL:56:LYS:HB2	1.93	0.69
1:AA:112:U:C4	1:AA:113:G:H1'	2.28	0.69
1:AA:1166:C:H2'	1:AA:1167:U:C6	2.28	0.69
1:AA:1215:G:H2'	1:AA:1216:G:O4'	1.92	0.69
1:AA:1498:C:H1'	1:AA:1576:U:C4'	2.23	0.69
1:AA:1773:A:H2	1:AA:1977:A:H61	1.37	0.69
1:AA:2226:C:O2	1:AA:2227:A:O4'	2.10	0.69
1:AA:2460:U:H5'	1:AA:2461:C:OP2	1.92	0.69
1:AA:2472:G:H8	1:AA:2472:G:O5'	1.75	0.69
1:AA:2556:C:O2'	1:AA:2557:G:H5'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2588:G:N7	1:AA:2589:A:N7	2.41	0.69
1:AA:371:A:O2'	1:AA:372:G:P	2.51	0.69
2:AB:42:C:N3	7:AG:93:THR:HB	2.07	0.69
2:AB:4:C:N3	2:AB:117:G:N2	2.41	0.69
2:AB:83:G:N2	2:AB:84:C:C2	2.60	0.69
1:AA:2176:A:C1'	3:AC:44:HIS:HD2	2.05	0.69
4:AD:119:ALA:CB	4:AD:130:ALA:H	2.05	0.69
1:AA:2226:C:O2'	4:AD:262:ARG:HG2	1.93	0.69
4:AD:5:LYS:C	4:AD:82:ILE:HD12	2.13	0.69
5:AE:14:ILE:HD11	15:AQ:14:TYR:HB3	1.73	0.69
7:AG:96:ARG:O	7:AG:100:TRP:CE3	2.46	0.69
32:AJ:104:VAL:CG1	32:AJ:127:ILE:HD11	1.48	0.69
9:AK:34:LEU:HD22	9:AK:120:LEU:HB2	1.75	0.69
9:AK:10:GLU:HB3	9:AK:39:ARG:NH1	2.08	0.69
11:AM:122:PRO:HA	11:AM:134:ALA:HA	1.75	0.69
12:AN:16:ARG:HG3	12:AN:72:LYS:CD	2.22	0.69
15:AQ:50:ILE:HD12	15:AQ:66:VAL:HG23	1.75	0.69
16:AR:25:TRP:CE3	16:AR:26:GLY:N	2.61	0.69
1:AA:534:U:O2'	16:AR:49:HIS:CD2	2.46	0.69
17:AS:4:ILE:HA	17:AS:12:TYR:CD2	2.27	0.69
17:AS:13:ARG:O	17:AS:14:VAL:HG22	1.93	0.69
20:AV:56:PRO:O	20:AV:57:GLN:HG3	1.93	0.69
20:AV:9:LYS:HB2	20:AV:110:GLU:CD	2.12	0.69
21:AW:104:PHE:CZ	21:AW:171:ILE:HD11	2.27	0.69
21:AW:28:MET:CE	21:AW:88:PHE:HB2	2.22	0.69
34:BA:1201:A:O2'	34:BA:1202:G:H5''	1.92	0.69
34:BA:129(A):G:O2'	34:BA:130:A:OP2	2.07	0.69
34:BA:1315:U:N1	34:BA:1361:G:O4'	2.25	0.69
34:BA:1423:G:H2'	34:BA:1424:C:C6	2.28	0.69
1:AA:1961:C:C4'	34:BA:1484:C:H4'	2.23	0.69
34:BA:275:G:H5'	50:BU:14:LYS:HZ2	1.56	0.69
34:BA:529:G:C3'	34:BA:529:G:C8	2.75	0.69
34:BA:679:C:H2'	34:BA:680:C:H6	1.56	0.69
34:BA:856:C:N3	34:BA:857:C:C5	2.61	0.69
34:BA:888:G:H21	34:BA:909:A:H62	0.75	0.69
35:BF:136:VAL:N	35:BF:139:LYS:HZ2	1.91	0.69
39:BJ:10:LEU:N	39:BJ:10:LEU:CD2	2.55	0.69
41:BL:10:LEU:HD22	41:BL:135:CYS:SG	2.32	0.69
41:BL:10:LEU:CD1	41:BL:85:ARG:HD3	2.21	0.69
46:BQ:19:LEU:O	46:BQ:25:ILE:HD12	1.93	0.69
47:BR:46:GLU:O	47:BR:49:HIS:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:75:PRO:O	48:BS:78:TYR:HB3	1.93	0.69
50:BU:5:VAL:CG2	50:BU:60:ILE:HA	2.11	0.69
39:BJ:49:ALA:CB	51:BV:80:PRO:HD3	2.23	0.69
57:BZ:163:VAL:CG1	57:BZ:164:TYR:N	2.55	0.69
57:BZ:64:ILE:CD1	57:BZ:187:TYR:C	2.61	0.69
57:BZ:227:LYS:CA	57:BZ:267:LEU:HD11	2.23	0.69
57:BZ:306:THR:OG1	57:BZ:307:VAL:N	2.26	0.69
57:BZ:398:GLU:O	57:BZ:471:HIS:O	2.11	0.69
57:BZ:455:PHE:CE2	57:BZ:465:LEU:HD23	2.28	0.69
57:BZ:48:LEU:CD2	57:BZ:50:LYS:HG3	2.23	0.69
56:BD:59:U:C2'	56:BD:60:U:H5'	2.23	0.69
57:BZ:37:GLU:HA	57:BZ:39:GLN:HB2	1.74	0.69
1:AA:1340:U:HO2'	1:AA:1394:U:HO2'	1.38	0.69
1:AA:2212:A:C2'	1:AA:2212:A:N3	2.56	0.69
1:AA:223:A:C2	1:AA:422:A:N7	2.61	0.69
1:AA:2436:G:H2'	1:AA:2437:U:C6	2.28	0.69
1:AA:2468:G:C8	1:AA:2476:A:N1	2.61	0.69
1:AA:2492:U:O2	1:AA:2492:U:C2'	2.40	0.69
1:AA:2524:G:C5'	1:AA:2764:A:O2'	2.41	0.69
1:AA:2561:A:H2'	1:AA:2562:U:O4'	1.93	0.69
1:AA:2578:G:HO2'	1:AA:2579:C:H6	1.41	0.69
1:AA:2583:G:H1	59:AA:3002:8AN:C2'	2.05	0.69
1:AA:2697:G:N2	1:AA:2698:U:H1'	2.08	0.69
1:AA:2893:G:O5'	1:AA:2894:G:P	2.49	0.69
1:AA:1907:G:C6	58:AA:3001:NMY:H81	2.23	0.69
1:AA:594:U:C4	1:AA:595:C:N4	2.60	0.69
1:AA:657:U:H2'	1:AA:658:C:C6	2.28	0.69
1:AA:673:C:N4	1:AA:808:G:N1	2.41	0.69
1:AA:7:G:O2'	1:AA:8:A:H5'	1.93	0.69
1:AA:810:U:OP1	1:AA:1253:A:N7	2.26	0.69
1:AA:969:U:C2'	1:AA:970:C:H5'	2.23	0.69
1:AA:2152:G:C4'	3:AC:2:LYS:HB2	2.21	0.69
4:AD:106:ILE:O	4:AD:107:ALA:HB2	1.93	0.69
1:AA:1819:A:C3'	4:AD:178:PRO:HB2	2.22	0.69
4:AD:178:PRO:HG2	4:AD:179:SER:H	1.58	0.69
4:AD:180:GLY:O	4:AD:270:ILE:HG21	1.93	0.69
5:AE:36:ARG:CD	5:AE:41:LYS:HZ1	2.04	0.69
7:AG:37:VAL:CG2	7:AG:159:VAL:HG12	2.23	0.69
1:AA:1067:A:H5''	32:AJ:21:PRO:HG3	0.76	0.69
9:AK:13:TRP:O	9:AK:14:VAL:HG22	1.93	0.69
9:AK:18:ALA:HB2	9:AK:54:VAL:CG2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:87:LEU:HA	9:AK:90:MET:HG2	1.75	0.69
10:AL:11:ALA:HB1	10:AL:97:ARG:HH12	1.58	0.69
11:AM:113:LYS:HZ2	11:AM:115:LEU:HD12	1.55	0.69
15:AQ:24:PRO:O	15:AQ:25:GLY:O	2.10	0.69
15:AQ:65:LYS:HD3	15:AQ:75:ILE:CD1	2.23	0.69
17:AS:18:LEU:H	17:AS:18:LEU:CD2	2.05	0.69
17:AS:20:LEU:HB3	17:AS:95:LEU:HD13	1.74	0.69
21:AW:10:ARG:HB3	21:AW:36:LYS:CD	2.19	0.69
21:AW:158:PRO:HB2	21:AW:159:PRO:CD	2.23	0.69
23:AY:45:ILE:CG1	23:AY:46:ARG:N	2.56	0.69
34:BA:1064:G:N3	34:BA:1066:C:N4	2.40	0.69
34:BA:1067:A:H2	34:BA:1068:G:N3	1.90	0.69
34:BA:1209:C:O2'	34:BA:1210:C:H5'	1.93	0.69
34:BA:359:U:H2'	34:BA:360:A:C8	2.28	0.69
34:BA:608:A:C2	34:BA:609:A:C8	2.81	0.69
35:BF:130:ARG:CB	35:BF:131:PRO:HD2	2.23	0.69
35:BF:136:VAL:HA	35:BF:139:LYS:NZ	2.08	0.69
36:BG:118:GLN:O	36:BG:122:GLU:HG3	1.93	0.69
36:BG:187:ALA:H	36:BG:198:VAL:HG22	1.56	0.69
36:BG:38:ARG:HB2	36:BG:94:LEU:CD1	2.22	0.69
37:BH:24:GLU:C	37:BH:27:TYR:HB3	2.14	0.69
37:BH:26:CYS:HA	37:BH:31:CYS:CB	2.23	0.69
38:BI:103:GLY:O	38:BI:106:PRO:HD2	1.92	0.69
38:BI:55:VAL:HG12	38:BI:56:GLN:N	2.08	0.69
34:BA:1129:C:OP1	42:BM:16:ARG:CZ	2.41	0.69
44:BO:41:THR:CB	44:BO:71:LYS:HD3	2.22	0.69
45:BP:52:LEU:N	45:BP:52:LEU:HD23	2.09	0.69
34:BA:1329:A:C3'	46:BQ:24:GLY:O	2.40	0.69
48:BS:53:HIS:O	48:BS:56:LEU:HB3	1.92	0.69
48:BS:81:LEU:CD2	48:BS:85:LEU:HD13	2.23	0.69
48:BS:81:LEU:HD23	48:BS:85:LEU:HD13	1.74	0.69
49:BT:28:ARG:HG3	49:BT:29:ASP:OD2	1.92	0.69
57:BZ:390:ARG:CG	57:BZ:391:GLU:HG2	2.10	0.69
55:BC:38:A:H2'	55:BC:39:U:O4'	1.93	0.69
31:AI:97:ALA:CA	31:AI:132:ASP:O	2.41	0.69
1:AA:1009:A:O4'	16:AR:59:ARG:NH1	2.25	0.68
1:AA:1266:G:O2'	1:AA:2012:G:N1	2.22	0.68
1:AA:1455:G:N2	1:AA:1456:G:H1'	2.08	0.68
1:AA:1473:G:H2'	1:AA:1474:C:O4'	1.93	0.68
1:AA:1491:G:C5	1:AA:1492:G:H1'	2.28	0.68
1:AA:1521:G:O5'	1:AA:1522:G:OP2	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:172:C:C2'	1:AA:173:G:H8	2.05	0.68
1:AA:1743:G:C6	1:AA:1746:G:C5	2.80	0.68
1:AA:1759:A:C5'	1:AA:2715:C:O4'	2.41	0.68
1:AA:1858:G:C5	1:AA:1883:G:N1	2.60	0.68
1:AA:2058:A:C2'	1:AA:2059:A:H8	1.98	0.68
1:AA:2172:U:O2'	1:AA:2173:A:OP1	2.10	0.68
1:AA:2286:A:O3'	1:AA:2287:A:O4'	2.09	0.68
1:AA:2346:A:C4'	1:AA:2383:G:O4'	2.41	0.68
1:AA:2537:U:C4	1:AA:2538:C:N4	2.60	0.68
1:AA:2546:U:H4'	1:AA:2565:A:C2	2.28	0.68
1:AA:1782:C:N4	1:AA:2587:A:H61	1.92	0.68
1:AA:2661:G:C6	8:AH:175:LYS:CE	2.62	0.68
1:AA:2704:C:H2'	1:AA:2705:A:C8	2.28	0.68
1:AA:418:G:O2'	1:AA:419:C:H5'	1.91	0.68
1:AA:66:C:H2'	1:AA:67:U:O5'	1.93	0.68
1:AA:704:G:N2	1:AA:726:G:H1'	2.07	0.68
1:AA:193:U:H4'	1:AA:803:U:H4'	1.74	0.68
3:AC:103:ILE:CB	3:AC:127:LEU:HD21	2.23	0.68
3:AC:212:VAL:O	3:AC:223:ARG:HG3	1.93	0.68
3:AC:46:LYS:HG3	3:AC:211:SER:HB3	0.69	0.68
4:AD:54:ARG:HA	4:AD:219:PRO:CG	2.20	0.68
5:AE:105:THR:HG1	5:AE:106:GLY:H	1.40	0.68
6:AF:109:GLY:O	6:AF:110:LEU:C	2.31	0.68
6:AF:205:ARG:O	6:AF:208:GLY:N	2.26	0.68
6:AF:41:LEU:HA	6:AF:44:ARG:HE	1.58	0.68
7:AG:181:ARG:NH2	7:AG:181:ARG:H	1.91	0.68
7:AG:17:PRO:C	7:AG:20:ILE:HB	2.14	0.68
8:AH:70:THR:O	8:AH:73:ALA:HB3	1.92	0.68
8:AH:7:LEU:N	8:AH:69:ARG:HE	1.91	0.68
9:AK:54:VAL:CG1	9:AK:122:VAL:HB	2.21	0.68
11:AM:108:LYS:CD	11:AM:109:GLY:H	2.05	0.68
11:AM:47:ASP:OD1	11:AM:48:PRO:HD3	1.94	0.68
12:AN:55:VAL:HG22	12:AN:64:ILE:HD11	1.73	0.68
16:AR:50:ARG:NH2	17:AS:75:PHE:CD2	2.59	0.68
21:AW:27:VAL:HG21	21:AW:85:HIS:CE1	2.27	0.68
34:BA:1201:A:N3	34:BA:1201:A:H2'	2.07	0.68
34:BA:129(A):G:H3'	34:BA:129(A):G:C8	2.27	0.68
34:BA:1317:C:HO2'	34:BA:1318:A:H5'	0.87	0.68
34:BA:1360:A:N3	34:BA:1360:A:H2'	2.01	0.68
34:BA:1367:C:P	42:BM:115:GLY:HA2	2.32	0.68
34:BA:720:C:H6	34:BA:720:C:O5'	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:790:A:H2'	34:BA:791:G:O5'	1.92	0.68
35:BF:173:ALA:O	35:BF:176:GLU:HB2	1.93	0.68
35:BF:19:HIS:CE1	35:BF:204:ASN:HD21	2.11	0.68
35:BF:83:MET:HB2	35:BF:234:PRO:HG3	1.75	0.68
34:BA:529:G:N1	45:BP:49:ASN:ND2	2.40	0.68
45:BP:53:ARG:HB3	45:BP:69:TYR:HE1	1.58	0.68
41:BL:91:ARG:HG3	45:BP:7:ILE:HD12	1.74	0.68
49:BT:39:TYR:CD1	49:BT:40:ASP:N	2.61	0.68
50:BU:88:TYR:O	50:BU:92:ARG:CB	2.41	0.68
51:BV:63:GLN:O	51:BV:67:ALA:HB2	1.93	0.68
53:BX:40:ALA:HB2	53:BX:55:ILE:HG21	1.75	0.68
57:BZ:446:ARG:NH1	57:BZ:480:VAL:H	1.89	0.68
37:BH:47:ARG:CZ	37:BH:47:ARG:HB2	2.22	0.68
55:BC:67:C:H2'	55:BC:68:C:C6	2.29	0.68
1:AA:1174:A:N6	1:AA:1177:A:C2	2.61	0.68
1:AA:142:G:H2'	1:AA:143:C:C6	2.28	0.68
1:AA:1742:C:C4	1:AA:1743:G:H8	2.11	0.68
1:AA:1935:G:H2'	1:AA:1962:C:C4	2.28	0.68
1:AA:2073:C:O2'	1:AA:2074:U:H5'	1.94	0.68
1:AA:2482:G:C2'	1:AA:2483:C:H5'	2.24	0.68
1:AA:2498:C:O2	1:AA:2498:C:H2'	1.92	0.68
1:AA:2665:A:N3	1:AA:2666:C:N3	2.40	0.68
1:AA:270(K):C:H3'	1:AA:270(L):U:H6	1.57	0.68
1:AA:307:G:C2	1:AA:309:G:H5''	2.29	0.68
1:AA:501:A:C8	1:AA:501:A:O5'	2.46	0.68
1:AA:503:A:H4'	1:AA:504:U:H5''	1.75	0.68
1:AA:823:G:H3'	1:AA:824:A:H8	1.57	0.68
2:AB:117:G:N2	2:AB:118:G:C8	2.62	0.68
1:AA:2121:G:O2'	3:AC:167:LYS:HG2	1.93	0.68
3:AC:48:GLY:N	3:AC:210:ARG:CG	2.54	0.68
4:AD:226:MET:HE2	4:AD:237:GLU:H	1.58	0.68
5:AE:176:ILE:CG2	5:AE:181:LEU:HB2	2.23	0.68
1:AA:2811:G:H5''	5:AE:59:VAL:HG13	1.75	0.68
1:AA:601:C:C1'	6:AF:104:LYS:HZ1	2.05	0.68
6:AF:121:GLY:O	6:AF:191:ARG:HG3	1.93	0.68
7:AG:125:PHE:CD2	7:AG:130:ASN:N	2.60	0.68
8:AH:45:VAL:HG22	8:AH:50:VAL:CG1	2.22	0.68
10:AL:97:ARG:HH11	10:AL:98:VAL:CA	2.05	0.68
12:AN:116:GLU:OE1	12:AN:119:ARG:HD3	1.93	0.68
12:AN:62:GLY:HA2	21:AW:177:PRO:HA	1.74	0.68
13:AO:96:ARG:HG2	13:AO:98:LEU:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:34:VAL:HG21	15:AQ:36:GLU:OE2	1.93	0.68
10:AL:79:PHE:HB2	15:AQ:73:GLU:HG3	1.73	0.68
19:AU:15:GLU:HB3	19:AU:16:LYS:CE	2.23	0.68
19:AU:50:LYS:HZ2	19:AU:85:PRO:HD2	1.59	0.68
22:AX:7:LEU:HD13	56:BE:74:C:N3	2.08	0.68
34:BA:1239:A:H1'	34:BA:1241:G:N9	2.08	0.68
34:BA:1322:C:H5''	34:BA:1323:G:OP1	1.93	0.68
34:BA:1413:A:C5	34:BA:1488:G:C2	2.62	0.68
34:BA:191(C):G:H2'	34:BA:191(D):U:O4'	1.93	0.68
34:BA:370:C:C2	34:BA:371:G:C8	2.81	0.68
34:BA:663:A:N6	34:BA:742:G:O6	2.18	0.68
34:BA:745:C:H5'	34:BA:851:G:N3	2.08	0.68
34:BA:945:G:C2	34:BA:946:A:C8	2.81	0.68
34:BA:968:A:H5''	34:BA:969:A:O5'	1.94	0.68
34:BA:991:U:HO2'	34:BA:993:G:H8	1.38	0.68
35:BF:184:VAL:O	35:BF:198:ASP:CB	2.36	0.68
36:BG:7:PRO:O	36:BG:11:ARG:HG2	1.93	0.68
37:BH:104:VAL:HA	37:BH:107:ARG:HB2	1.74	0.68
37:BH:121:VAL:O	37:BH:134:ASP:HB2	1.93	0.68
37:BH:187:ARG:HE	37:BH:188:LEU:HG	1.57	0.68
38:BI:26:PHE:N	38:BI:26:PHE:CD1	2.60	0.68
45:BP:84:LEU:C	45:BP:84:LEU:HD23	2.14	0.68
52:BW:16:LEU:HD12	52:BW:19:VAL:CG1	2.22	0.68
52:BW:5:LEU:CG	52:BW:6:LYS:H	2.06	0.68
52:BW:9:VAL:HA	52:BW:41:VAL:CB	2.21	0.68
57:BZ:325:PHE:C	57:BZ:378:PHE:CD1	2.66	0.68
57:BZ:565:LEU:H	57:BZ:567:GLN:N	1.90	0.68
1:AA:1038:C:H5'	1:AA:1039:G:OP1	1.92	0.68
37:BH:192:GLU:N	37:BH:192:GLU:OE1	2.27	0.68
1:AA:988:A:O2'	1:AA:1157:G:H5'	1.94	0.68
1:AA:1158:C:H5'	24:AZ:31:LEU:CB	2.23	0.68
1:AA:1314:C:C2'	1:AA:1315:C:H5'	2.23	0.68
1:AA:1404:C:O2'	1:AA:1405:U:H5'	1.93	0.68
1:AA:1449:A:C2	1:AA:1449(A):G:H1'	2.29	0.68
1:AA:1908:C:H2'	1:AA:1909:C:C5	2.28	0.68
1:AA:1970:A:O2'	1:AA:1971:A:P	2.50	0.68
1:AA:2121:G:C1'	3:AC:167:LYS:CE	2.69	0.68
1:AA:2360:A:OP2	1:AA:2360:A:C8	2.47	0.68
1:AA:2495:G:O3'	12:AN:83:MET:SD	2.52	0.68
1:AA:284:U:OP2	1:AA:284:U:H6	1.76	0.68
1:AA:2868:A:O2'	1:AA:2869:G:H5'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:371:A:C5'	1:AA:423:A:N7	2.54	0.68
1:AA:455:C:OP1	1:AA:472:A:N1	2.27	0.68
1:AA:27:G:N1	1:AA:512:G:C2'	2.56	0.68
1:AA:727:A:C6	1:AA:729:G:C6	2.81	0.68
1:AA:778:G:N2	1:AA:787:U:C2	2.61	0.68
1:AA:781:A:C2	1:AA:1776:G:N3	2.61	0.68
3:AC:86:ALA:HB1	3:AC:153:ILE:HD12	1.73	0.68
3:AC:97:GLU:HB3	3:AC:126:LYS:NZ	2.08	0.68
4:AD:224:ALA:H	4:AD:233:HIS:CE1	2.12	0.68
1:AA:2226:C:C2	4:AD:262:ARG:CZ	2.76	0.68
8:AH:13:LYS:HG3	8:AH:15:VAL:H	1.57	0.68
32:AJ:17:ALA:CB	32:AJ:41:PHE:HB2	2.22	0.68
12:AN:6:ARG:HG2	12:AN:7:MET:N	2.08	0.68
12:AN:16:ARG:CZ	12:AN:72:LYS:HA	2.24	0.68
12:AN:85:LYS:C	12:AN:87:LYS:N	2.46	0.68
15:AQ:70:VAL:HG21	15:AQ:74:ARG:HD3	1.76	0.68
17:AS:68:LYS:HG2	17:AS:95:LEU:HD11	1.74	0.68
18:AT:82:LEU:H	18:AT:98:LYS:NZ	1.92	0.68
23:AY:27:LEU:HG	23:AY:48:LEU:HD23	1.75	0.68
19:AU:7:VAL:HG21	23:AY:28:MET:HG2	1.73	0.68
23:AY:42:ASN:O	23:AY:45:ILE:HG13	1.93	0.68
34:BA:1128:C:C1'	34:BA:1146:A:H61	2.05	0.68
34:BA:1274:G:N2	34:BA:1275:A:N7	2.40	0.68
34:BA:1314:C:N4	34:BA:1324:A:N6	2.42	0.68
34:BA:1414:U:O2	34:BA:1487:G:N2	2.00	0.68
34:BA:79:G:H2'	34:BA:80:G:O4'	1.93	0.68
34:BA:843:U:H3'	34:BA:848:C:H5'	1.74	0.68
34:BA:887:G:H2'	34:BA:888:G:C8	2.29	0.68
34:BA:572:A:O2'	34:BA:916:G:O2'	2.11	0.68
34:BA:992:U:O2'	34:BA:993:G:OP2	2.11	0.68
35:BF:174:VAL:C	35:BF:178:ARG:HG2	2.13	0.68
35:BF:222:ILE:HD12	35:BF:223:ILE:HG13	1.74	0.68
36:BG:182:ILE:CA	36:BG:204:LEU:HG	2.21	0.68
37:BH:146:ILE:HD12	37:BH:183:GLY:O	1.93	0.68
37:BH:90:GLY:HA3	37:BH:200:GLU:OE2	1.93	0.68
41:BL:10:LEU:HA	41:BL:13:ILE:HD12	1.74	0.68
41:BL:61:VAL:CG1	41:BL:62:TYR:N	2.56	0.68
44:BO:68:ALA:O	44:BO:71:LYS:HG3	1.94	0.68
45:BP:37:CYS:CB	45:BP:58:VAL:HG22	2.24	0.68
57:BZ:305:PRO:CB	57:BZ:361:ARG:CG	2.65	0.68
57:BZ:311:PHE:O	57:BZ:355:ALA:C	2.30	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:390:ARG:HB3	57:BZ:391:GLU:CB	2.21	0.68
57:BZ:401:GLU:HB3	57:BZ:468:THR:H	1.56	0.68
57:BZ:488:LEU:HD12	57:BZ:525:GLY:C	2.12	0.68
57:BZ:313:VAL:HG23	57:BZ:354:ASP:HB3	1.76	0.68
1:AA:887:A:HO2'	1:AA:888:C:C1'	2.05	0.68
1:AA:1142:U:H6	1:AA:1142(A):A:H8	1.38	0.68
1:AA:1174:A:C2'	1:AA:1175:U:H5''	2.17	0.68
1:AA:1188:U:C2'	1:AA:1189:A:H5'	2.24	0.68
1:AA:1345:C:OP1	1:AA:1385:G:H5''	1.92	0.68
1:AA:139:G:H2'	1:AA:140:A:O5'	1.94	0.68
1:AA:1472:A:H1'	1:AA:1473:G:C8	2.28	0.68
1:AA:1497:U:O4	1:AA:1577:C:C4'	2.42	0.68
1:AA:2112:G:O4'	55:BC:19:G:C8	2.44	0.68
1:AA:2097:C:N4	1:AA:2193:G:O6	2.26	0.68
1:AA:2271:G:OP1	22:AX:19:LYS:O	2.12	0.68
1:AA:2320:A:H8	1:AA:2320:A:OP2	1.77	0.68
1:AA:2521:C:C2	1:AA:2522:U:C6	2.81	0.68
1:AA:2581:G:N2	1:AA:2610:C:C6	2.62	0.68
1:AA:783:A:C5'	1:AA:2589:A:OP1	2.35	0.68
1:AA:280:C:C6	1:AA:280:C:OP2	2.41	0.68
1:AA:280:C:H41	1:AA:283:A:H62	1.38	0.68
1:AA:2631:G:N7	1:AA:2894:G:N7	2.42	0.68
1:AA:470:A:N3	1:AA:471:A:H1'	2.08	0.68
1:AA:668:G:C5	1:AA:670:A:N7	2.61	0.68
1:AA:904:C:C2'	1:AA:905:U:H5'	2.24	0.68
2:AB:14:U:H1'	2:AB:107:U:C1'	2.22	0.68
4:AD:159:ALA:CA	4:AD:196:VAL:HG11	2.23	0.68
4:AD:221:VAL:C	4:AD:222:ARG:HG3	2.13	0.68
5:AE:2:LYS:HD3	5:AE:83:ASP:CB	2.24	0.68
5:AE:38:THR:HB	5:AE:39:PRO:HD3	1.75	0.68
6:AF:188:ARG:HG2	6:AF:188:ARG:NH2	2.08	0.68
6:AF:4:VAL:O	6:AF:20:LEU:HD11	1.92	0.68
7:AG:144:ILE:HD12	7:AG:147:ASP:OD2	1.93	0.68
7:AG:166:ASP:O	7:AG:167:GLU:C	2.32	0.68
9:AK:23:LEU:HD11	9:AK:62:VAL:HA	1.75	0.68
10:AL:106:LEU:HD13	15:AQ:39:ARG:NH2	2.08	0.68
11:AM:112:LEU:O	11:AM:128:HIS:CE1	2.46	0.68
19:AU:73:ARG:CG	19:AU:74:PRO:HD2	2.22	0.68
20:AV:99:CYS:O	20:AV:101:LYS:HD2	1.94	0.68
21:AW:9:TYR:HB2	21:AW:14:LYS:HG2	1.74	0.68
34:BA:1085:U:H5'	34:BA:1094:G:H21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1191:A:H2'	34:BA:1191:A:N3	2.08	0.68
34:BA:1229:A:O3'	56:BE:29:G:O3'	2.11	0.68
34:BA:1388:C:H2'	34:BA:1389:C:C6	2.29	0.68
34:BA:1402:C:H2'	34:BA:1403:C:H6	1.57	0.68
34:BA:1412:C:H2'	34:BA:1413:A:H8	1.57	0.68
34:BA:193:C:C2	34:BA:194:C:C5	2.81	0.68
34:BA:130:A:C4	34:BA:264:U:H1'	2.28	0.68
34:BA:642:A:N7	41:BL:115:SER:HA	2.08	0.68
34:BA:870:U:H5'	34:BA:871:U:OP1	1.94	0.68
34:BA:946:A:C2'	34:BA:947:G:C8	2.75	0.68
35:BF:15:VAL:HG23	35:BF:16:HIS:CE1	2.28	0.68
35:BF:23:ARG:NH1	35:BF:23:ARG:HB2	2.09	0.68
37:BH:204:ILE:HD12	37:BH:204:ILE:H	1.58	0.68
37:BH:34:GLU:O	37:BH:35:ARG:HB2	1.92	0.68
37:BH:88:VAL:HG22	38:BI:97:GLY:H	1.59	0.68
40:BK:113:GLU:OE1	40:BK:118:VAL:HG12	1.91	0.68
46:BQ:19:LEU:O	46:BQ:25:ILE:HB	1.93	0.68
51:BV:36:ASN:HB3	51:BV:40:LEU:CD2	2.23	0.68
57:BZ:146:ASP:CA	57:BZ:149:VAL:HG12	2.23	0.68
57:BZ:19:THR:HB	57:BZ:22:VAL:CG2	2.19	0.68
57:BZ:27:GLN:H	57:BZ:28:GLN:HB3	0.85	0.68
57:BZ:406:ASP:HA	57:BZ:407:VAL:CG1	2.23	0.68
57:BZ:167:ALA:CB	60:BZ:701:GCP:HN1	1.97	0.68
41:BL:54:ASP:O	41:BL:56:LYS:HD2	1.92	0.68
1:AA:1023:U:H5'	1:AA:1123:C:OP1	1.94	0.68
1:AA:1024:G:C6	1:AA:1025:G:C8	2.82	0.68
1:AA:106:C:H1'	1:AA:294:A:H4'	1.76	0.68
1:AA:1354:A:H2'	1:AA:1355:G:H5'	1.75	0.68
1:AA:1591:G:C6	1:AA:1592:C:N4	2.62	0.68
1:AA:1728:G:N3	1:AA:1728:G:H2'	2.08	0.68
1:AA:1815:A:O2'	1:AA:1816:G:H4'	1.94	0.68
1:AA:1939:U:H1'	1:AA:2592:G:H1'	1.72	0.68
1:AA:2126:A:H1'	1:AA:2162:G:H21	1.56	0.68
1:AA:2168:G:N2	1:AA:2170:A:H3'	2.08	0.68
1:AA:2282:G:C2	1:AA:2425:A:C8	2.81	0.68
1:AA:2659:G:C1'	1:AA:2663:G:N2	2.51	0.68
1:AA:221:A:O2'	1:AA:271(B):G:C6	2.46	0.68
1:AA:585:G:H1	1:AA:1253:A:P	2.17	0.68
1:AA:645:C:H5'	1:AA:646:A:OP1	1.94	0.68
1:AA:660:G:H2'	1:AA:661:C:C6	2.29	0.68
1:AA:846:C:HO2'	1:AA:847:U:P	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:851:U:O2'	24:AZ:46:ASN:N	2.27	0.68
1:AA:99:U:H5'	1:AA:101:G:H5''	1.76	0.68
4:AD:246:PRO:O	4:AD:250:TRP:HB2	1.92	0.68
4:AD:252:TRP:HA	4:AD:252:TRP:CE3	2.29	0.68
4:AD:85:ASP:C	4:AD:87:ASN:H	1.93	0.68
5:AE:128:SER:C	5:AE:130:GLY:N	2.46	0.68
5:AE:27:LEU:HD11	5:AE:30:PRO:CD	2.23	0.68
5:AE:60:ASN:HA	5:AE:63:LEU:CD1	2.22	0.68
5:AE:80:GLU:N	5:AE:80:GLU:OE1	2.26	0.68
7:AG:116:ASP:O	7:AG:118:ARG:N	2.27	0.68
7:AG:36:LYS:CB	7:AG:95:ARG:HD3	2.22	0.68
8:AH:105:LEU:CB	8:AH:113:VAL:HG11	2.23	0.68
9:AK:55:VAL:C	9:AK:57:ALA:N	2.40	0.68
13:AO:105:ARG:CZ	13:AO:105:ARG:CA	2.65	0.68
13:AO:37:THR:H	13:AO:40:LYS:HD2	1.58	0.68
15:AQ:72:VAL:HB	15:AQ:74:ARG:CZ	2.23	0.68
16:AR:74:LEU:HB3	16:AR:78:THR:CB	2.23	0.68
1:AA:1321:A:O3'	18:AT:11:ARG:NH1	2.27	0.68
19:AU:32:PRO:HA	19:AU:77:LYS:CD	2.17	0.68
21:AW:57:ILE:HG23	21:AW:58:VAL:H	1.55	0.68
21:AW:70:LEU:O	21:AW:88:PHE:HA	1.94	0.68
22:AX:28:GLY:CA	22:AX:67:VAL:HB	2.23	0.68
22:AX:59:LEU:CD2	22:AX:79:VAL:HG21	2.23	0.68
24:AZ:7:LYS:HA	24:AZ:33:GLN:O	1.93	0.68
34:BA:1082:G:C2'	34:BA:1083:U:H5'	2.23	0.68
34:BA:1465:C:H2'	34:BA:1466:C:C5'	2.22	0.68
34:BA:1487:G:O2'	34:BA:1488:G:H5'	1.94	0.68
34:BA:1412:C:C2	34:BA:1489:G:C2	2.81	0.68
34:BA:287:U:H2'	34:BA:288:A:H5'	1.74	0.68
34:BA:346:G:O2'	34:BA:347:G:H5'	1.94	0.68
34:BA:831:U:H2'	34:BA:832:C:H6	1.59	0.68
37:BH:120:LEU:HB2	37:BH:125:HIS:CD2	2.29	0.68
37:BH:128:VAL:HG21	37:BH:133:VAL:HB	1.75	0.68
38:BI:68:GLU:O	38:BI:70:PRO:HD3	1.93	0.68
39:BJ:11:ASN:HD22	39:BJ:86:ARG:HH22	1.41	0.68
40:BK:74:GLU:HA	40:BK:145:ALA:HB1	1.75	0.68
40:BK:155:ARG:HA	40:BK:155:ARG:NE	2.02	0.68
41:BL:129:VAL:HG22	41:BL:130:GLY:N	2.04	0.68
41:BL:50:ARG:HG2	41:BL:50:ARG:NH1	2.03	0.68
44:BO:81:ASP:OD1	44:BO:106:LYS:HD2	1.93	0.68
45:BP:100:ILE:C	45:BP:101:VAL:HG22	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:56:MET:CG	53:BX:88:VAL:HG21	2.22	0.68
57:BZ:209:ILE:HG23	57:BZ:222:GLY:C	2.12	0.68
57:BZ:55:THR:CB	57:BZ:254:VAL:HG11	2.20	0.68
57:BZ:512:LEU:CG	57:BZ:524:ILE:HG22	2.22	0.68
57:BZ:560:PRO:HG2	57:BZ:562:ARG:HB2	1.73	0.68
8:AH:107:VAL:CG1	8:AH:152:ARG:HD2	2.22	0.68
1:AA:1075:C:N1	32:AJ:90:LYS:NZ	2.37	0.68
1:AA:1077:A:H5''	1:AA:1078:U:O2	1.94	0.68
1:AA:1288:U:C5'	1:AA:1289:C:OP2	2.40	0.68
1:AA:138:G:N2	1:AA:140:A:H62	1.91	0.68
1:AA:1464:C:H2'	1:AA:1465:G:H8	1.58	0.68
1:AA:1352:U:H1'	1:AA:1570:A:C2	2.28	0.68
1:AA:1700:A:OP1	1:AA:1700:A:O3'	2.11	0.68
1:AA:1839:G:N9	1:AA:1927:A:H5'	2.09	0.68
1:AA:1992:G:O4'	1:AA:1993:U:O4	2.12	0.68
1:AA:2219:G:H2'	1:AA:2224:G:H5'	1.74	0.68
1:AA:230:U:H2'	1:AA:231:C:H6	1.59	0.68
1:AA:2428:G:H4'	1:AA:2429:G:O5'	1.94	0.68
1:AA:2482:G:C5	1:AA:2483:C:C6	2.81	0.68
1:AA:257:A:O5'	1:AA:257:A:H8	1.77	0.68
1:AA:2648:C:N3	1:AA:2649:U:N3	2.42	0.68
1:AA:297:C:H2'	1:AA:298:G:O4'	1.93	0.68
1:AA:310:A:H2'	1:AA:312:G:C8	2.29	0.68
1:AA:309:G:H5'	1:AA:310:A:OP2	1.93	0.68
1:AA:447:A:N6	1:AA:473:G:H1'	2.08	0.68
1:AA:636:G:H4'	1:AA:638:G:O2'	1.92	0.68
1:AA:783:A:H2'	1:AA:784:A:C5'	2.23	0.68
1:AA:586:A:H2	1:AA:809:G:N2	1.90	0.68
3:AC:103:ILE:CD1	3:AC:127:LEU:HD11	2.24	0.68
4:AD:127:VAL:CG1	4:AD:194:GLY:HA3	2.14	0.68
4:AD:29:PRO:CB	4:AD:82:ILE:O	2.42	0.68
5:AE:114:ALA:HB3	5:AE:118:LYS:CB	2.23	0.68
5:AE:137:HIS:CB	5:AE:138:PRO:HD2	2.23	0.68
32:AJ:104:VAL:HG12	32:AJ:127:ILE:CD1	0.45	0.68
11:AM:114:ILE:HG21	11:AM:134:ALA:CB	2.24	0.68
13:AO:21:TYR:HB3	13:AO:47:PHE:CD2	2.29	0.68
13:AO:44:LEU:O	13:AO:48:VAL:HG23	1.93	0.68
13:AO:83:ILE:HD12	13:AO:86:ARG:NE	2.08	0.68
18:AT:11:ARG:HH21	18:AT:11:ARG:HB3	1.56	0.68
18:AT:14:PRO:C	18:AT:16:LYS:NZ	2.46	0.68
18:AT:25:ARG:HA	18:AT:71:VAL:CG1	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:179:ASP:HB2	56:BD:56:C:H4'	1.74	0.68
24:AZ:55:ARG:NH2	24:AZ:55:ARG:HA	2.09	0.68
34:BA:1307:U:O5'	34:BA:1307:U:H6	1.77	0.68
34:BA:1221:G:OP1	34:BA:1320:C:N4	2.27	0.68
34:BA:1497:G:C2'	34:BA:1498:U:H5'	2.24	0.68
34:BA:314:C:H5''	34:BA:315:A:OP2	1.94	0.68
34:BA:571:U:H5''	34:BA:571:U:H6	1.58	0.68
34:BA:1229:A:O3'	56:BE:30:G:P	2.52	0.68
37:BH:148:VAL:CG2	37:BH:162:LEU:HD21	2.24	0.68
37:BH:112:VAL:CG2	37:BH:161:ASN:HD21	2.06	0.68
38:BI:11:ILE:HB	38:BI:31:LEU:CD2	2.24	0.68
38:BI:35:GLY:HA3	38:BI:41:VAL:HG13	1.75	0.68
40:BK:2:ALA:HB1	40:BK:5:ARG:O	1.94	0.68
41:BL:26:VAL:CG2	41:BL:27:PRO:HD2	2.23	0.68
41:BL:32:LYS:O	41:BL:36:LEU:HD23	1.93	0.68
43:BN:50:ILE:HB	47:BR:41:ARG:HE	1.58	0.68
34:BA:563:A:H3'	45:BP:15:ARG:NH1	2.09	0.68
46:BQ:96:LEU:H	46:BQ:96:LEU:HD23	1.59	0.68
50:BU:51:TYR:H	50:BU:51:TYR:HD1	1.41	0.68
50:BU:88:TYR:CA	50:BU:91:ARG:HH21	2.06	0.68
34:BA:735:C:O2'	51:BV:75:ILE:HD13	1.94	0.68
57:BZ:239:ILE:N	57:BZ:244:GLY:CA	2.42	0.68
57:BZ:25:LEU:O	57:BZ:28:GLN:NE2	2.26	0.68
57:BZ:306:THR:O	57:BZ:360:GLY:O	2.12	0.68
57:BZ:512:LEU:CD2	57:BZ:518:VAL:HG13	2.22	0.68
57:BZ:374:ARG:NE	57:BZ:581:THR:H	1.91	0.68
57:BZ:88:VAL:HG12	57:BZ:92:VAL:HG21	1.76	0.68
55:BC:2:C:H42	55:BC:71:G:H1	1.41	0.68
21:AW:92:SER:O	21:AW:93:ASP:HB2	1.94	0.68
1:AA:1092:C:N4	1:AA:1093:G:N3	2.41	0.68
1:AA:1128:A:N3	1:AA:1128:A:H2'	2.07	0.68
1:AA:1250:G:O2'	1:AA:1251:C:P	2.52	0.68
1:AA:1264:G:C5'	1:AA:1265:A:H5''	2.22	0.68
1:AA:1352:U:O2'	1:AA:1353:A:H5'	1.93	0.68
1:AA:1376:C:C2	1:AA:1377:G:C8	2.82	0.68
1:AA:1291:C:H4'	1:AA:1535:U:O3'	1.93	0.68
1:AA:1559:G:C4	1:AA:1559:G:C3'	2.76	0.68
1:AA:1711:C:H2'	1:AA:1712:C:C6	2.29	0.68
1:AA:1933:G:N2	1:AA:1974:C:H5'	2.02	0.68
1:AA:1988:C:O2'	1:AA:1989:G:H5'	1.93	0.68
1:AA:2019:A:N1	1:AA:2020:A:N3	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2150:U:C2	1:AA:2151:G:N7	2.60	0.68
1:AA:2329:G:H2'	1:AA:2330:G:H8	1.58	0.68
1:AA:2593:U:OP2	1:AA:2593:U:H6	1.77	0.68
1:AA:270:A:N1	1:AA:370:G:C1'	2.56	0.68
1:AA:58:G:H2'	1:AA:73:A:H2	1.59	0.68
1:AA:748:G:H3'	1:AA:750:A:OP2	1.93	0.68
1:AA:972:G:OP1	1:AA:974(A):C:H3'	1.94	0.68
3:AC:161:ILE:CG2	3:AC:188:ASN:HD22	2.06	0.68
1:AA:2178:C:C5'	3:AC:211:SER:CB	2.72	0.68
4:AD:10:THR:O	4:AD:11:PRO:C	2.31	0.68
4:AD:176:ARG:HB2	4:AD:182:LEU:HD21	1.75	0.68
5:AE:147:PRO:CG	5:AE:149:ARG:HD2	2.23	0.68
6:AF:133:ASN:HB3	6:AF:165:ARG:HH22	1.57	0.68
6:AF:200:GLU:OE1	6:AF:201:VAL:CG2	2.36	0.68
7:AG:124:SER:OG	7:AG:133:LEU:HD23	1.93	0.68
32:AJ:53:VAL:CB	32:AJ:71:THR:O	2.41	0.68
9:AK:45:ASN:OD1	9:AK:45:ASN:N	2.26	0.68
9:AK:55:VAL:HG22	9:AK:125:GLY:O	1.93	0.68
13:AO:74:LYS:HA	13:AO:77:ARG:HH22	1.59	0.68
15:AQ:35:LYS:O	15:AQ:36:GLU:C	2.30	0.68
10:AL:77:ILE:HD13	15:AQ:65:LYS:NZ	2.08	0.68
16:AR:81:HIS:C	16:AR:117:GLN:NE2	2.46	0.68
17:AS:61:VAL:O	17:AS:62:LEU:HD23	1.94	0.68
17:AS:62:LEU:HD11	17:AS:96:ILE:HD13	1.75	0.68
18:AT:11:ARG:HG2	18:AT:11:ARG:O	1.92	0.68
18:AT:11:ARG:HH21	18:AT:11:ARG:N	1.89	0.68
21:AW:127:LYS:HA	21:AW:164:ALA:HB3	1.75	0.68
21:AW:29:TYR:HD1	21:AW:34:ASN:HD22	1.39	0.68
1:AA:2277:G:H5''	22:AX:12:ASN:ND2	2.08	0.68
1:AA:988:A:OP1	24:AZ:10:LYS:NZ	2.25	0.68
24:AZ:29:ARG:HB2	24:AZ:30:ARG:CZ	2.23	0.68
24:AZ:7:LYS:HB3	24:AZ:55:ARG:HB3	1.74	0.68
34:BA:1250:A:N3	34:BA:1370:G:O2'	2.26	0.68
34:BA:1292:U:H2'	34:BA:1293:G:H8	1.59	0.68
34:BA:1287:A:N6	34:BA:1371:G:O4'	2.27	0.68
34:BA:16:A:C1'	38:BI:17:ALA:HB3	2.22	0.68
34:BA:197:A:H62	34:BA:221:C:H5'	1.59	0.68
34:BA:20:U:O2'	34:BA:21:G:H5'	1.93	0.68
34:BA:645:C:H2'	34:BA:646:U:H6	1.58	0.68
34:BA:692:U:H1'	34:BA:694:A:N7	2.09	0.68
34:BA:821:G:H2'	34:BA:822:C:H6	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:999:U:H2'	34:BA:1000:A:O4'	1.93	0.68
35:BF:118:LEU:HD11	35:BF:141:GLU:OE2	1.93	0.68
35:BF:141:GLU:CD	35:BF:142:LEU:N	2.47	0.68
35:BF:47:THR:HG22	35:BF:51:LEU:HD11	1.73	0.68
35:BF:60:ASP:O	35:BF:63:MET:HB3	1.93	0.68
35:BF:82:ARG:O	35:BF:86:GLU:HG3	1.93	0.68
37:BH:113:SER:HB3	37:BH:116:GLN:HG3	1.75	0.68
37:BH:61:LYS:CG	37:BH:207:TYR:HE1	2.06	0.68
37:BH:35:ARG:O	37:BH:37:PRO:N	2.27	0.68
39:BJ:4:TYR:CE1	39:BJ:72:VAL:HG11	2.28	0.68
44:BO:69:ALA:O	44:BO:72:ALA:HB3	1.92	0.68
45:BP:82:VAL:HG12	45:BP:83:VAL:N	2.08	0.68
43:BN:65:LEU:HD13	47:BR:36:PHE:CE2	2.29	0.68
47:BR:27:CYS:H	47:BR:43:CYS:HB3	1.58	0.68
48:BS:25:THR:O	48:BS:29:VAL:HG23	1.93	0.68
53:BX:43:LEU:HD23	53:BX:46:GLU:OE2	1.94	0.68
57:BZ:130:VAL:CG2	57:BZ:165:ALA:O	2.41	0.68
57:BZ:221:ILE:N	57:BZ:221:ILE:HD12	2.08	0.68
57:BZ:401:GLU:HB3	57:BZ:467:SER:HB2	1.75	0.68
57:BZ:546:MET:CB	57:BZ:547:ARG:HG2	2.17	0.68
57:BZ:497:VAL:CA	57:BZ:514:HIS:HE1	1.95	0.68
1:AA:1418:G:H1'	1:AA:1581:G:N2	2.08	0.68
1:AA:1061:U:H2'	32:AJ:52:ILE:CD1	2.21	0.68
1:AA:1758:G:O2'	1:AA:1759:A:OP1	2.11	0.68
1:AA:1817:G:H2'	1:AA:1818:U:O4'	1.93	0.68
1:AA:1902:C:C5	1:AA:1903:G:C8	2.81	0.68
1:AA:2015:A:H8	1:AA:2016:U:C6	2.11	0.68
1:AA:2081:C:O2'	1:AA:2082:A:H5'	1.94	0.68
1:AA:2151:G:O3'	3:AC:3:HIS:CA	2.31	0.68
1:AA:2256:G:N2	1:AA:2275:C:H41	1.92	0.68
1:AA:2740:A:N6	1:AA:2764:A:C1'	2.57	0.68
1:AA:321:G:OP2	6:AF:135:LYS:HE3	1.94	0.68
1:AA:392:C:H5''	1:AA:409:C:H5''	1.75	0.68
1:AA:879:G:C2	1:AA:898:C:C2	2.79	0.68
1:AA:947:G:O2'	1:AA:948:G:H5'	1.94	0.68
4:AD:147:LEU:CB	4:AD:185:VAL:HG22	2.16	0.68
4:AD:196:VAL:HG12	4:AD:198:ASN:H	1.59	0.68
4:AD:91:ARG:NH1	4:AD:198:ASN:HB2	2.03	0.68
4:AD:46:GLN:CD	4:AD:51:VAL:HG23	2.13	0.68
5:AE:147:PRO:CD	5:AE:148:GLY:H	2.04	0.68
6:AF:51:THR:O	6:AF:52:LYS:HG3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:174:GLU:OE2	7:AG:175:LEU:HG	1.93	0.68
8:AH:103:LEU:C	8:AH:105:LEU:HG	2.14	0.68
8:AH:126:PRO:HG3	8:AH:132:ARG:HH12	1.58	0.68
8:AH:83:TYR:H	8:AH:136:ILE:HA	1.58	0.68
32:AJ:122:ALA:HA	32:AJ:126:MET:CB	2.24	0.68
9:AK:29:LYS:O	9:AK:31:ALA:N	2.26	0.68
9:AK:38:HIS:C	9:AK:42:TRP:HE3	1.97	0.68
9:AK:87:LEU:HD23	9:AK:88:GLU:OE2	1.94	0.68
10:AL:69:VAL:H	10:AL:104:ARG:NH2	1.90	0.68
11:AM:19:VAL:HG23	11:AM:19:VAL:O	1.94	0.68
12:AN:34:LEU:HB2	12:AN:67:ARG:NH2	2.03	0.68
13:AO:73:VAL:HG23	13:AO:74:LYS:N	2.08	0.68
14:AP:73:LEU:HA	14:AP:76:LYS:HD2	1.75	0.68
15:AQ:59:THR:N	15:AQ:61:PHE:CZ	2.61	0.68
17:AS:15:GLU:CD	17:AS:16:PRO:HD2	2.14	0.68
20:AV:82:PRO:HD2	20:AV:96:ILE:HA	1.75	0.68
21:AW:128:VAL:HG23	21:AW:164:ALA:HB2	1.75	0.68
23:AY:41:GLN:O	23:AY:43:HIS:N	2.26	0.68
34:BA:1077:G:N2	34:BA:1080:A:OP2	2.27	0.68
34:BA:1115:C:O2'	34:BA:1116:C:H5'	1.92	0.68
34:BA:125:U:H2'	34:BA:126:G:C8	2.28	0.68
34:BA:137:C:C2	34:BA:227:G:N2	2.62	0.68
34:BA:394:G:C4	34:BA:395:C:C5	2.82	0.68
34:BA:518:C:O2'	34:BA:519:C:P	2.51	0.68
34:BA:627:G:O2'	34:BA:628:G:H5'	1.93	0.68
34:BA:992:U:O4	34:BA:1043:C:OP2	2.11	0.68
56:BE:19:G:C4	56:BE:57:G:N2	2.62	0.68
35:BF:112:VAL:HG22	35:BF:149:LEU:HD11	1.76	0.68
35:BF:187:LEU:HD22	35:BF:201:ILE:O	1.92	0.68
36:BG:6:HIS:HB3	47:BR:49:HIS:CE1	2.28	0.68
38:BI:74:GLY:O	38:BI:115:VAL:HG12	1.92	0.68
41:BL:19:VAL:HB	41:BL:21:LYS:HG2	1.74	0.68
41:BL:45:ILE:HB	41:BL:61:VAL:HG11	1.75	0.68
41:BL:51:VAL:CG2	41:BL:60:ARG:HH21	2.06	0.68
48:BS:43:LEU:HD11	48:BS:56:LEU:HD23	1.74	0.68
51:BV:53:ARG:CG	51:BV:63:GLN:HE21	2.05	0.68
52:BW:9:VAL:HG13	52:BW:41:VAL:CB	2.23	0.68
53:BX:12:ALA:O	53:BX:15:ARG:HG2	1.94	0.68
53:BX:56:MET:SD	53:BX:84:LEU:HD12	2.33	0.68
57:BZ:13:HIS:HB3	57:BZ:109:THR:N	2.09	0.68
57:BZ:119:TYR:CB	57:BZ:120:GLY:HA3	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:200:ASP:CB	57:BZ:228:ARG:HD3	2.24	0.68
31:AI:53:VAL:CA	31:AI:86:PRO:N	2.57	0.68
57:BZ:490:SER:O	57:BZ:534:THR:HG22	1.91	0.68
34:BA:511:C:O2'	34:BA:512:U:H6	1.75	0.68
1:AA:1196:C:N3	1:AA:1250:G:O6	2.27	0.68
1:AA:810:U:OP1	1:AA:1253:A:C5	2.46	0.68
1:AA:1283:G:N2	1:AA:1286:A:O4'	2.26	0.68
1:AA:1352:U:O2	1:AA:1352:U:H2'	1.94	0.68
1:AA:1638:C:H2'	1:AA:1639:U:O4'	1.94	0.68
1:AA:1731:G:H22	1:AA:1733:G:N2	1.91	0.68
1:AA:1996:C:O2	1:AA:1997:G:H4'	1.94	0.68
1:AA:2018:G:H2'	1:AA:2019:A:O4'	1.94	0.68
1:AA:2125:G:H22	1:AA:2172:U:H5'	1.59	0.68
1:AA:2195:C:C2	1:AA:2196:C:C6	2.82	0.68
1:AA:2384:G:H3'	1:AA:2385:C:O3'	1.93	0.68
1:AA:2415:G:H5''	11:AM:61:ARG:CB	2.23	0.68
1:AA:253:C:H2'	1:AA:254:G:H5'	1.76	0.68
1:AA:2674:G:O2'	10:AL:29:ASN:HB3	1.93	0.68
1:AA:2767:C:C2	1:AA:2768:C:H5	2.12	0.68
1:AA:2834:G:O6	1:AA:2835:A:C2	2.47	0.68
1:AA:2507:C:N1	59:AA:3002:8AN:N3	2.41	0.68
1:AA:311:A:H62	1:AA:329:G:H5'	1.59	0.68
1:AA:665:C:C2	1:AA:666:G:N7	2.62	0.68
3:AC:100:ILE:HG23	3:AC:127:LEU:CG	2.16	0.68
3:AC:175:VAL:CA	3:AC:185:LEU:O	2.40	0.68
1:AA:1501:C:O4'	4:AD:100:GLY:HA2	1.93	0.68
4:AD:246:PRO:HG2	4:AD:250:TRP:CD1	2.29	0.68
4:AD:29:PRO:HB2	4:AD:82:ILE:O	1.94	0.68
1:AA:2784:C:C4'	5:AE:41:LYS:HE2	2.24	0.68
5:AE:64:LYS:CA	5:AE:67:PHE:HB2	2.23	0.68
1:AA:1110:G:O6	31:AI:60:ARG:CB	2.42	0.68
32:AJ:52:ILE:HG13	32:AJ:76:TYR:CB	2.22	0.68
9:AK:7:LYS:HZ2	9:AK:10:GLU:N	1.91	0.68
11:AM:97:PRO:N	11:AM:102:ARG:CZ	2.57	0.68
13:AO:52:ILE:HD12	13:AO:94:TYR:CD1	2.28	0.68
15:AQ:29:ARG:HA	15:AQ:50:ILE:O	1.94	0.68
15:AQ:95:ARG:NH2	15:AQ:96:ARG:HH21	1.90	0.68
16:AR:104:GLN:O	16:AR:108:GLU:OE2	2.12	0.68
1:AA:997:G:C5'	16:AR:92:ARG:HD2	2.24	0.68
21:AW:7:ALA:HB2	21:AW:38:TYR:CD1	2.28	0.68
23:AY:27:LEU:CD2	23:AY:48:LEU:HB3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1129:C:N4	34:BA:1139:G:C5	2.62	0.68
34:BA:1220:G:H21	52:BW:55:LYS:HB2	1.40	0.68
34:BA:1305:G:N2	34:BA:1331:G:H2'	2.09	0.68
34:BA:1333:A:H2'	34:BA:1334:G:O4'	1.94	0.68
34:BA:394:G:H2'	34:BA:395:C:H6	1.58	0.68
35:BF:173:ALA:HA	35:BF:176:GLU:HG3	1.76	0.68
35:BF:15:VAL:HG21	35:BF:209:ARG:HB3	1.74	0.68
38:BI:88:LYS:HB3	38:BI:123:LEU:O	1.94	0.68
34:BA:826:C:H5'	41:BL:12:ARG:HE	1.59	0.68
41:BL:36:LEU:O	41:BL:39:LEU:HB3	1.94	0.68
43:BN:27:ALA:HB2	43:BN:85:LEU:HG	1.75	0.68
44:BO:42:TRP:CE3	44:BO:43:SER:HA	2.28	0.68
46:BQ:15:VAL:CG2	46:BQ:39:ILE:CD1	0.74	0.68
47:BR:16:PHE:HE1	52:BW:14:HIS:CE1	2.09	0.68
48:BS:16:ALA:CB	48:BS:21:ASP:HB3	2.17	0.68
48:BS:34:LEU:HD12	48:BS:35:ARG:N	2.09	0.68
49:BT:20:VAL:HG13	49:BT:21:VAL:H	1.59	0.68
49:BT:73:LEU:O	49:BT:73:LEU:HD13	1.94	0.68
34:BA:474:G:H5'	49:BT:81:ARG:HE	1.58	0.68
50:BU:88:TYR:HA	50:BU:91:ARG:NE	2.08	0.68
52:BW:36:ARG:HA	52:BW:71:LEU:CD1	2.23	0.68
57:BZ:114:LYS:HA	57:BZ:117:PHE:HD2	1.58	0.68
57:BZ:427:LYS:HG3	57:BZ:442:VAL:CG2	2.23	0.68
57:BZ:560:PRO:HB2	57:BZ:562:ARG:H	1.58	0.68
37:BH:190:ASP:O	37:BH:193:ASP:OD1	2.12	0.68
37:BH:159:ARG:O	37:BH:160:GLN:C	2.30	0.68
1:AA:1012:U:O4	9:AK:25:ARG:CB	2.33	0.68
1:AA:1332:G:C5	1:AA:1609:A:C6	2.82	0.68
1:AA:1495:A:C2	1:AA:1496:A:N6	2.62	0.68
1:AA:1779:U:HO2'	1:AA:1783:A:H62	1.40	0.68
1:AA:1832:C:C4	1:AA:1833:U:C5	2.82	0.68
1:AA:1859:A:H61	1:AA:1883:G:H2'	1.58	0.68
1:AA:2169:A:N6	55:BC:19:G:N2	2.41	0.68
1:AA:2314:C:H5'	7:AG:38:VAL:HG21	1.76	0.68
1:AA:2331:G:C2	1:AA:2385:C:N4	2.61	0.68
1:AA:2411:A:H2'	1:AA:2412:A:C8	2.29	0.68
1:AA:199:A:C6	1:AA:2433:A:C2	2.82	0.68
1:AA:2436:G:C6	1:AA:2437:U:C4	2.82	0.68
1:AA:2597:G:C4'	4:AD:242:ARG:NE	2.56	0.68
1:AA:270(B):A:HO2'	1:AA:270(C):C:H6	1.40	0.68
1:AA:270(Q):C:H2'	1:AA:270(R):G:H8	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:663:G:O2'	1:AA:940:G:C4'	2.40	0.68
1:AA:667:U:H2'	1:AA:668:G:O4'	1.93	0.68
1:AA:72:U:C2'	1:AA:73:A:OP1	2.42	0.68
1:AA:775:G:H2'	1:AA:794:G:C8	2.28	0.68
1:AA:962:G:H2'	1:AA:963:U:H6	1.51	0.68
2:AB:24:G:H5''	2:AB:25:A:H5'	1.75	0.68
3:AC:123:VAL:O	3:AC:127:LEU:HB2	1.94	0.68
3:AC:51:PRO:HB3	3:AC:165:ASN:ND2	2.08	0.68
3:AC:193:ILE:O	3:AC:197:GLU:HG3	1.93	0.68
4:AD:201:HIS:HD2	4:AD:202:LYS:HE2	1.57	0.68
5:AE:105:THR:OG1	5:AE:106:GLY:N	2.25	0.68
5:AE:11:MET:O	5:AE:22:PRO:CD	2.38	0.68
5:AE:12:THR:HA	5:AE:22:PRO:HD2	1.76	0.68
1:AA:2787:C:H5'	5:AE:64:LYS:HB2	1.75	0.68
7:AG:96:ARG:HA	7:AG:100:TRP:HZ3	1.59	0.68
7:AG:120:LEU:HA	7:AG:181:ARG:HB2	1.74	0.68
7:AG:135:LEU:HD21	7:AG:137:GLU:O	1.93	0.68
7:AG:4:ASP:HA	7:AG:7:LEU:HB2	1.75	0.68
8:AH:35:VAL:HG11	8:AH:72:ILE:CA	2.13	0.68
8:AH:42:ARG:HA	8:AH:42:ARG:NE	2.09	0.68
8:AH:7:LEU:H	8:AH:8:PRO:HD2	1.57	0.68
32:AJ:103:GLN:HG2	32:AJ:107:ILE:HD11	1.76	0.68
32:AJ:51:ALA:C	32:AJ:76:TYR:HB3	2.13	0.68
9:AK:37:LYS:CE	9:AK:43:THR:HA	2.24	0.68
1:AA:995:C:H42	9:AK:3:THR:CA	2.06	0.68
9:AK:3:THR:HG22	9:AK:4:TYR:N	2.07	0.68
10:AL:103:ALA:HB1	10:AL:107:ARG:CZ	2.24	0.68
10:AL:107:ARG:O	10:AL:109:LYS:HG3	1.93	0.68
10:AL:112:MET:O	10:AL:115:VAL:CB	2.42	0.68
10:AL:24:VAL:HG21	10:AL:26:LYS:HG2	1.75	0.68
10:AL:62:VAL:HB	10:AL:82:ASN:O	1.94	0.68
11:AM:99:LEU:HD13	11:AM:101:VAL:CG2	2.24	0.68
12:AN:124:LYS:O	12:AN:125:LEU:O	2.11	0.68
15:AQ:28:VAL:N	15:AQ:93:ARG:O	2.27	0.68
15:AQ:93:ARG:HE	15:AQ:93:ARG:N	1.91	0.68
16:AR:70:ARG:HB2	16:AR:70:ARG:CZ	2.22	0.68
20:AV:29:GLU:OE1	20:AV:34:LYS:HD2	1.94	0.68
22:AX:27:GLU:HB2	22:AX:69:PHE:CE1	2.29	0.68
19:AU:7:VAL:HG21	23:AY:31:ARG:HH22	1.59	0.68
23:AY:33:GLN:NE2	23:AY:33:GLN:N	2.42	0.68
34:BA:1233:G:O2'	34:BA:1365:G:OP1	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:425:G:N2	34:BA:426:G:H1'	2.08	0.68
34:BA:454:C:H3'	34:BA:455:C:C5	2.29	0.68
34:BA:515:G:O6	34:BA:533:A:N7	2.27	0.68
34:BA:792:A:N3	34:BA:794:A:C6	2.62	0.68
34:BA:873:A:H8	34:BA:873:A:OP1	1.75	0.68
34:BA:900:A:C8	34:BA:901:A:N7	2.62	0.68
34:BA:985:C:H2'	52:BW:55:LYS:HE3	1.76	0.68
36:BG:22:TRP:HB3	36:BG:59:ARG:CB	2.24	0.68
34:BA:403:C:O3'	37:BH:122:ARG:HD2	1.93	0.68
38:BI:12:LEU:HD13	38:BI:30:ALA:HA	1.75	0.68
40:BK:143:ARG:O	40:BK:146:GLU:OE1	2.11	0.68
42:BM:82:ALA:O	42:BM:85:LEU:HB3	1.94	0.68
34:BA:1047:G:H5''	47:BR:4:LYS:CD	2.24	0.68
50:BU:59:ILE:HD11	50:BU:72:ARG:N	2.09	0.68
50:BU:75:ARG:NH1	50:BU:77:VAL:HG22	2.09	0.68
53:BX:14:LYS:N	53:BX:17:ARG:NH2	2.41	0.68
57:BZ:27:GLN:H	57:BZ:29:SER:N	1.92	0.68
57:BZ:543:LEU:CB	57:BZ:544:THR:HG23	2.23	0.68
57:BZ:502:PHE:CE1	57:BZ:556:VAL:C	2.66	0.68
1:AA:275:G:O5'	1:AA:275:G:H8	1.77	0.68
1:AA:1205:U:H2'	1:AA:1206:G:N7	2.09	0.67
1:AA:1670:C:P	1:AA:1671:U:OP2	2.51	0.67
1:AA:1700:A:H8	1:AA:1701:A:C8	2.12	0.67
1:AA:1743:G:O3'	1:AA:1743:G:OP1	2.11	0.67
1:AA:1938:A:N3	1:AA:2590:A:H1'	2.09	0.67
1:AA:194:G:H2'	1:AA:195:A:C8	2.27	0.67
1:AA:2114:A:N3	1:AA:2167:U:O2'	2.24	0.67
1:AA:2178:C:H5''	3:AC:211:SER:HB3	1.74	0.67
1:AA:792:G:N7	1:AA:2440:C:H1'	2.10	0.67
1:AA:2533:A:H2'	1:AA:2534:A:H8	1.59	0.67
1:AA:2550:G:C2	1:AA:2559:C:C2	2.83	0.67
1:AA:2578:G:N2	1:AA:2579:C:C2	2.62	0.67
1:AA:2776:A:C2	1:AA:2778:A:H2'	2.29	0.67
1:AA:2794:C:C4	1:AA:2799:A:N3	2.62	0.67
1:AA:295:G:H3'	1:AA:338:G:H1	1.59	0.67
1:AA:404:C:H4'	1:AA:406:G:C8	2.29	0.67
1:AA:464:U:H1'	1:AA:788:A:N6	2.10	0.67
1:AA:552:G:O2'	1:AA:553:U:H5'	1.94	0.67
1:AA:61:G:H5'	23:AY:45:ILE:CD1	2.24	0.67
1:AA:695:G:C6	1:AA:768:G:C6	2.81	0.67
2:AB:32:C:H5''	2:AB:33:G:OP2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:59:LYS:HD2	4:AD:60:ARG:N	2.09	0.67
5:AE:101:ARG:HD2	5:AE:169:ASN:ND2	2.09	0.67
5:AE:58:ARG:HH11	5:AE:75:VAL:CG1	2.07	0.67
6:AF:81:PRO:O	6:AF:83:PHE:N	2.26	0.67
7:AG:153:ARG:HD2	7:AG:154:GLY:N	2.09	0.67
8:AH:126:PRO:HG2	8:AH:132:ARG:NH2	2.06	0.67
11:AM:72:PRO:O	11:AM:111:ARG:NE	2.27	0.67
13:AO:107:ASP:OD1	13:AO:109:ALA:HB2	1.94	0.67
15:AQ:28:VAL:O	15:AQ:52:ILE:CG1	2.42	0.67
16:AR:27:LEU:O	16:AR:31:SER:CB	2.39	0.67
16:AR:70:ARG:HG2	16:AR:75:ASN:CA	2.18	0.67
17:AS:68:LYS:O	17:AS:69:LYS:CB	2.42	0.67
17:AS:62:LEU:HD22	17:AS:98:GLU:CA	2.21	0.67
19:AU:49:VAL:HG12	19:AU:88:LYS:CB	2.24	0.67
21:AW:116:VAL:HG21	21:AW:145:GLU:HG2	1.76	0.67
21:AW:177:PRO:CG	21:AW:178:GLU:H	2.07	0.67
21:AW:31:ARG:N	21:AW:89:PHE:CE2	2.59	0.67
59:AA:3003:8AN:O2P	22:AX:2:ALA:HB1	1.90	0.67
22:AX:70:GLN:HB3	22:AX:78:TYR:O	1.94	0.67
19:AU:7:VAL:HG22	23:AY:31:ARG:HH12	1.59	0.67
23:AY:36:ILE:HG23	23:AY:37:GLY:N	2.06	0.67
24:AZ:52:HIS:O	24:AZ:54:VAL:N	2.27	0.67
34:BA:1063:C:C5	34:BA:1064:G:N7	2.62	0.67
34:BA:112:G:OP1	34:BA:389:A:O2'	2.12	0.67
34:BA:1152:A:C2'	34:BA:1153:C:H5'	2.24	0.67
34:BA:1181:G:H2'	34:BA:1182:G:O4'	1.94	0.67
34:BA:1240:U:H1'	40:BK:42:ILE:HD11	1.76	0.67
34:BA:1285:A:H4'	34:BA:1286:A:C8	2.29	0.67
34:BA:1390:U:H2'	34:BA:1391:U:C5	2.29	0.67
34:BA:794:A:H4'	34:BA:1521:G:O2'	1.94	0.67
34:BA:592:G:H2'	34:BA:593:G:H5'	1.76	0.67
34:BA:61:G:H2'	34:BA:62:U:H6	1.56	0.67
34:BA:748:C:H6	34:BA:748:C:O5'	1.76	0.67
34:BA:894:G:C5	34:BA:895:G:N7	2.63	0.67
34:BA:963:G:O2'	34:BA:964:A:H5'	1.94	0.67
42:BM:127:LYS:CB	56:BE:31:A:H5''	2.13	0.67
7:AG:82:LEU:HD21	56:BE:52:G:OP2	1.92	0.67
35:BF:213:LEU:HD23	35:BF:213:LEU:C	2.14	0.67
36:BG:70:VAL:HG12	36:BG:71:ALA:H	1.59	0.67
37:BH:118:ARG:HG3	37:BH:118:ARG:HH21	1.58	0.67
39:BJ:23:LYS:O	39:BJ:26:ILE:CB	2.36	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:38:LEU:HD12	40:BK:41:ARG:HD3	1.75	0.67
41:BL:115:SER:O	41:BL:116:LYS:HD2	1.94	0.67
42:BM:78:LYS:HA	42:BM:81:ILE:HD12	1.74	0.67
43:BN:10:GLY:HA3	43:BN:16:LEU:HD21	1.75	0.67
43:BN:27:ALA:HB2	43:BN:85:LEU:HD11	1.76	0.67
50:BU:29:HIS:CE1	50:BU:31:LEU:H	2.12	0.67
57:BZ:204:PRO:C	57:BZ:290:ASP:OD1	2.32	0.67
57:BZ:580:VAL:HB	57:BZ:585:ILE:HD13	1.77	0.67
55:BC:31:A:O2'	55:BC:32:U:H5'	1.94	0.67
32:AJ:64:SER:HB2	32:AJ:65:PHE:HD1	1.52	0.67
34:BA:1008:C:H2'	34:BA:1009:G:O4'	1.93	0.67
1:AA:1055:G:O3'	31:AI:33:PRO:HA	1.94	0.67
1:AA:1177:A:C2	1:AA:1178:C:N3	2.61	0.67
1:AA:1472:A:O2'	1:AA:1473:G:H8	1.76	0.67
1:AA:1687:G:N1	1:AA:1688:U:C5	2.62	0.67
1:AA:2019:A:N1	1:AA:2020:A:C4	2.62	0.67
1:AA:2022:U:O2	1:AA:2022:U:H2'	1.92	0.67
1:AA:2209:C:H4'	4:AD:150:LYS:CB	2.24	0.67
1:AA:2320:A:OP1	1:AA:2320:A:C8	2.47	0.67
1:AA:2416:C:C2'	1:AA:2417:C:C5'	2.66	0.67
1:AA:2469:A:C8	1:AA:2469:A:H5'	2.23	0.67
1:AA:2619:C:H2'	1:AA:2620:C:O5'	1.94	0.67
1:AA:2507:C:H5'	59:AA:3002:8AN:O5'	1.94	0.67
1:AA:499:U:H5	1:AA:500:G:N3	1.90	0.67
1:AA:824:A:H3'	1:AA:825:C:H5	1.59	0.67
2:AB:14:U:C2'	2:AB:107:U:H1'	2.24	0.67
3:AC:62:VAL:CG2	3:AC:191:ALA:O	2.11	0.67
4:AD:17:THR:C	4:AD:19:ALA:H	1.96	0.67
5:AE:66:HIS:O	5:AE:67:PHE:C	2.32	0.67
5:AE:46:ALA:HB2	5:AE:85:ASN:HD21	1.57	0.67
6:AF:103:LYS:O	6:AF:106:ARG:HG2	1.94	0.67
6:AF:9:ILE:HG13	6:AF:122:LYS:HG3	1.75	0.67
1:AA:320:A:H2'	6:AF:136:THR:HG21	1.77	0.67
6:AF:156:LEU:O	6:AF:176:LEU:HB3	1.94	0.67
7:AG:41:GLN:HG3	7:AG:42:GLY:H	1.60	0.67
7:AG:44:GLY:CA	7:AG:72:ARG:HB3	2.24	0.67
9:AK:103:VAL:CG2	9:AK:104:LYS:HD3	2.24	0.67
9:AK:18:ALA:HB2	9:AK:54:VAL:HG22	1.75	0.67
10:AL:31:LYS:O	10:AL:32:TYR:CD1	2.47	0.67
11:AM:16:ARG:CG	11:AM:19:VAL:HG22	2.24	0.67
12:AN:127:ILE:HD12	12:AN:127:ILE:N	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:22:LYS:HD2	12:AN:23:GLY:H	1.59	0.67
13:AO:44:LEU:HD13	13:AO:48:VAL:CG2	2.23	0.67
13:AO:56:LYS:O	13:AO:57:ARG:C	2.32	0.67
15:AQ:32:TYR:HB3	15:AQ:87:ASP:O	1.95	0.67
15:AQ:87:ASP:OD2	15:AQ:89:VAL:HG23	1.94	0.67
16:AR:54:LYS:N	16:AR:54:LYS:HE2	2.09	0.67
16:AR:88:ILE:H	17:AS:52:VAL:HG22	1.58	0.67
17:AS:33:VAL:HG12	17:AS:34:GLU:N	2.07	0.67
1:AA:64:A:H5'	19:AU:73:ARG:HA	1.75	0.67
20:AV:19:LYS:HG2	20:AV:39:VAL:HG12	1.75	0.67
21:AW:4:ARG:NH2	21:AW:88:PHE:HE1	1.93	0.67
22:AX:26:TYR:O	22:AX:67:VAL:HG21	1.94	0.67
34:BA:1028:C:H2'	34:BA:1028(A):C:H6	1.58	0.67
34:BA:819:A:N6	34:BA:1529:G:N7	2.42	0.67
34:BA:51:A:O2'	34:BA:52:G:OP2	2.12	0.67
34:BA:579:G:O2'	34:BA:580:U:H5'	1.95	0.67
34:BA:775:G:C2	34:BA:776:G:N7	2.62	0.67
34:BA:789:U:H6	34:BA:789:U:H3'	1.57	0.67
34:BA:900:A:H2'	34:BA:901:A:C8	2.29	0.67
34:BA:915:A:H8	34:BA:915:A:O5'	1.77	0.67
35:BF:144:ARG:HD3	35:BF:148:TYR:CZ	2.29	0.67
36:BG:24:ALA:HB2	36:BG:32:LEU:HD12	1.76	0.67
37:BH:14:ARG:C	37:BH:14:ARG:CD	2.62	0.67
37:BH:10:ARG:NH1	37:BH:14:ARG:HB2	2.10	0.67
38:BI:102:ALA:HB3	38:BI:106:PRO:HB2	1.75	0.67
34:BA:9:G:OP2	38:BI:121:LYS:HA	1.94	0.67
38:BI:43:LEU:HB3	38:BI:136:MET:CE	2.23	0.67
38:BI:51:VAL:HB	38:BI:52:PRO:CD	2.21	0.67
39:BJ:16:GLN:HG3	39:BJ:17:SER:N	2.09	0.67
40:BK:64:GLN:HB3	40:BK:128:ALA:HB1	1.74	0.67
40:BK:38:LEU:HA	40:BK:41:ARG:HG3	1.76	0.67
40:BK:94:ARG:HG3	40:BK:94:ARG:NH1	2.09	0.67
41:BL:112:LEU:HD21	41:BL:114:THR:CG2	2.22	0.67
41:BL:11:THR:O	41:BL:12:ARG:C	2.32	0.67
41:BL:36:LEU:O	41:BL:39:LEU:CB	2.42	0.67
42:BM:10:ARG:HA	42:BM:104:ARG:HE	1.57	0.67
42:BM:15:ALA:HB1	42:BM:77:ILE:CG1	2.24	0.67
43:BN:42:THR:HG23	43:BN:68:HIS:HA	1.76	0.67
34:BA:529:G:N1	45:BP:49:ASN:HB3	2.10	0.67
46:BQ:36:LYS:HG2	46:BQ:56:LEU:CD2	2.24	0.67
49:BT:39:TYR:OH	49:BT:41:PRO:HG3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:36:ASN:HB3	51:BV:40:LEU:HD21	1.75	0.67
51:BV:74:ARG:CA	51:BV:79:LEU:HD11	2.23	0.67
52:BW:45:VAL:HG13	52:BW:64:GLU:HA	1.76	0.67
52:BW:40:ILE:HG13	52:BW:69:HIS:O	1.93	0.67
53:BX:56:MET:HG2	53:BX:88:VAL:CG2	2.22	0.67
57:BZ:206:GLN:HB3	57:BZ:227:LYS:C	2.13	0.67
57:BZ:22:VAL:CG1	57:BZ:56:ILE:CG1	2.72	0.67
57:BZ:81:PHE:HB2	57:BZ:344:ALA:CB	2.17	0.67
55:BC:27:G:O2'	55:BC:28:G:H5'	1.94	0.67
1:AA:1341:U:OP2	1:AA:1397:U:C4	2.47	0.67
1:AA:1518:C:N4	1:AA:1519:G:C8	2.62	0.67
1:AA:1568:G:O2'	1:AA:1569:A:OP2	2.11	0.67
1:AA:752:A:H62	1:AA:1781:C:H1'	1.56	0.67
1:AA:2176:A:P	3:AC:222:VAL:HG23	2.33	0.67
1:AA:20:C:O2'	1:AA:21:A:C5'	2.42	0.67
1:AA:2485:G:O2'	1:AA:2486:G:H5'	1.92	0.67
1:AA:2575:C:H5''	1:AA:2576:G:OP2	1.94	0.67
1:AA:1456:G:H1	1:AA:2703:C:N4	1.91	0.67
1:AA:573:G:O2'	1:AA:574:C:O5'	2.13	0.67
1:AA:618:G:C8	1:AA:618(A):C:C5	2.81	0.67
3:AC:104:LEU:CD1	3:AC:130:ILE:HD11	2.23	0.67
3:AC:89:ALA:HB1	3:AC:154:ARG:N	2.09	0.67
4:AD:107:ALA:N	4:AD:108:PRO:HD3	2.08	0.67
4:AD:46:GLN:C	4:AD:48:ARG:H	1.98	0.67
4:AD:51:VAL:HB	4:AD:52:ARG:NH2	2.09	0.67
5:AE:109:LYS:HG3	5:AE:191:PRO:CG	2.18	0.67
6:AF:201:VAL:CG1	6:AF:205:ARG:HH21	2.07	0.67
1:AA:669:G:N7	6:AF:54:ARG:NH1	2.40	0.67
32:AJ:90:LYS:CA	32:AJ:90:LYS:HE2	2.24	0.67
32:AJ:90:LYS:HE2	32:AJ:90:LYS:HA	1.76	0.67
12:AN:132:VAL:HG12	12:AN:133:ARG:NH2	2.09	0.67
12:AN:86:GLY:O	12:AN:87:LYS:HB3	1.94	0.67
15:AQ:115:ARG:NH1	34:BA:1463:C:OP2	2.27	0.67
15:AQ:95:ARG:NH2	15:AQ:95:ARG:HB3	2.10	0.67
1:AA:1252:G:N2	16:AR:37:GLU:HG3	2.04	0.67
20:AV:39:VAL:O	20:AV:40:GLU:CB	2.42	0.67
21:AW:95:PRO:HG2	21:AW:131:ARG:H	1.59	0.67
24:AZ:15:TYR:CD1	24:AZ:15:TYR:N	2.60	0.67
34:BA:1428:A:H2'	34:BA:1429:C:H6	1.53	0.67
34:BA:1476:G:H2'	34:BA:1477:C:C6	2.29	0.67
34:BA:366:C:H4'	34:BA:367:U:OP1	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:38:G:N2	34:BA:397:A:C5'	2.36	0.67
34:BA:432:A:N7	34:BA:433:C:C5	2.61	0.67
34:BA:59:A:H4'	34:BA:388:G:C5'	2.24	0.67
34:BA:832:C:H2'	34:BA:833:U:C6	2.29	0.67
56:BE:15:G:H2'	56:BE:16:U:H5'	1.76	0.67
56:BE:15:G:N1	56:BE:16:U:O4	2.27	0.67
37:BH:109:GLY:O	37:BH:110:PHE:C	2.30	0.67
38:BI:56:GLN:NE2	38:BI:56:GLN:H	1.92	0.67
39:BJ:17:SER:O	39:BJ:20:ALA:HB3	1.95	0.67
40:BK:70:LYS:HB3	40:BK:96:GLN:HG2	1.75	0.67
44:BO:110:ASP:HB2	51:BV:88:LYS:HD2	1.75	0.67
46:BQ:37:THR:HB	46:BQ:56:LEU:HG	0.75	0.67
51:BV:38:GLU:O	51:BV:41:LYS:HB2	1.94	0.67
34:BA:958:A:C1'	52:BW:55:LYS:HZ3	1.99	0.67
57:BZ:5:LEU:CB	57:BZ:268:ALA:HB1	2.21	0.67
57:BZ:314:ASN:ND2	57:BZ:379:GLU:O	2.26	0.67
57:BZ:81:PHE:O	57:BZ:344:ALA:HB1	1.94	0.67
14:AP:33:LYS:HG2	14:AP:54:LEU:CD2	2.23	0.67
1:AA:1023:U:C4	1:AA:1024:G:H1'	2.29	0.67
1:AA:1092:C:H6	1:AA:1092:C:H3'	1.59	0.67
1:AA:128:C:C2	1:AA:129:C:C5	2.82	0.67
1:AA:1321:A:N3	1:AA:1321:A:H2'	2.09	0.67
1:AA:1532:C:N4	1:AA:1540:G:N1	2.42	0.67
1:AA:2018:G:H2'	1:AA:2019:A:C8	2.30	0.67
1:AA:2025:C:H2'	1:AA:2026:C:H6	1.58	0.67
1:AA:251:A:C4	1:AA:252:G:H1'	2.30	0.67
1:AA:2589:A:H2'	1:AA:2590:A:H8	1.58	0.67
1:AA:2660:A:C8	1:AA:2661:G:N7	2.62	0.67
1:AA:2747:G:N2	1:AA:2754:U:N3	2.43	0.67
1:AA:26:G:H22	1:AA:27:G:N2	1.91	0.67
1:AA:2872:G:N2	1:AA:2873:A:N1	2.42	0.67
1:AA:417:C:H2'	1:AA:418:G:O4'	1.95	0.67
1:AA:703:U:H2'	1:AA:704:G:H1'	1.77	0.67
1:AA:974:G:N3	1:AA:1186:G:N7	2.42	0.67
1:AA:976:C:O2	1:AA:977:G:C8	2.48	0.67
4:AD:47:GLY:O	4:AD:49:ILE:HD12	1.93	0.67
6:AF:104:LYS:CG	6:AF:108:LYS:HZ1	2.03	0.67
6:AF:184:TYR:N	6:AF:184:TYR:HD2	1.92	0.67
6:AF:30:PRO:O	6:AF:33:LEU:CG	2.35	0.67
7:AG:135:LEU:HD11	7:AG:137:GLU:C	2.14	0.67
7:AG:151:ALA:O	7:AG:152:LEU:HD23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:32:PRO:CB	7:AG:163:ALA:HA	2.24	0.67
8:AH:25:LYS:HD3	8:AH:27:LYS:HD2	1.77	0.67
8:AH:8:PRO:CA	8:AH:51:ARG:NH1	2.57	0.67
32:AJ:104:VAL:HG11	32:AJ:127:ILE:CD1	1.35	0.67
9:AK:104:LYS:HA	9:AK:117:PHE:HZ	1.59	0.67
9:AK:127:ASP:N	9:AK:129:PRO:HD2	2.09	0.67
9:AK:74:ARG:O	9:AK:75:TYR:C	2.31	0.67
12:AN:130:LYS:NZ	12:AN:132:VAL:HG13	2.10	0.67
13:AO:26:LYS:HE2	13:AO:70:LEU:HA	1.77	0.67
13:AO:3:HIS:ND1	13:AO:4:LEU:N	2.42	0.67
14:AP:11:LYS:HB3	14:AP:15:ARG:HH22	1.58	0.67
16:AR:81:HIS:HB3	16:AR:117:GLN:NE2	2.09	0.67
17:AS:14:VAL:HG11	17:AS:19:LYS:CG	2.15	0.67
18:AT:1:MET:H2	18:AT:4:LYS:HD3	1.60	0.67
18:AT:63:ASP:O	18:AT:64:MET:O	2.13	0.67
20:AV:5:MET:SD	20:AV:33:LYS:HG2	2.34	0.67
19:AU:7:VAL:HG22	23:AY:31:ARG:NH1	2.09	0.67
34:BA:1156:G:H21	34:BA:1179:A:H2	1.42	0.67
34:BA:1115:C:O2	34:BA:1186:G:C2	2.46	0.67
34:BA:1298:C:N4	40:BK:114:ARG:HB3	2.10	0.67
34:BA:427:U:C2	34:BA:428:G:N7	2.62	0.67
34:BA:435:C:H2'	34:BA:436:C:O4'	1.94	0.67
34:BA:644:G:O2'	34:BA:645:C:H5'	1.94	0.67
34:BA:781:A:O2'	34:BA:782:A:H5'	1.95	0.67
34:BA:781:A:HO2'	34:BA:782:A:P	2.17	0.67
34:BA:570:G:C5'	34:BA:820:U:H1'	2.19	0.67
34:BA:829:G:O2'	35:BF:26:PRO:HG2	1.95	0.67
34:BA:831:U:H2'	34:BA:832:C:C6	2.29	0.67
34:BA:961:U:H2'	34:BA:962:C:O4'	1.95	0.67
35:BF:187:LEU:CD2	35:BF:201:ILE:O	2.42	0.67
35:BF:47:THR:HG23	35:BF:51:LEU:HD21	1.76	0.67
35:BF:80:ILE:HD12	35:BF:208:ILE:HG23	1.74	0.67
35:BF:82:ARG:CA	35:BF:92:TYR:HE1	2.07	0.67
37:BH:16:GLY:O	37:BH:18:LYS:N	2.28	0.67
37:BH:147:ALA:CB	37:BH:181:MET:O	2.42	0.67
38:BI:122:GLU:CG	38:BI:126:ARG:HG3	2.23	0.67
38:BI:79:GLU:CB	38:BI:91:LEU:O	2.42	0.67
38:BI:94:ALA:HB3	38:BI:117:ASP:C	2.15	0.67
39:BJ:60:PHE:CE2	51:BV:78:LEU:HD21	2.29	0.67
40:BK:69:VAL:CB	40:BK:104:LEU:HD11	2.25	0.67
42:BM:83:ARG:O	42:BM:86:VAL:HB	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:78:GLN:OE1	44:BO:79:SER:N	2.27	0.67
45:BP:50:SER:O	45:BP:51:ALA:HB2	1.95	0.67
53:BX:37:SER:O	53:BX:40:ALA:HB3	1.95	0.67
54:BY:6:ARG:HB3	54:BY:15:ARG:NH2	2.09	0.67
31:AI:56:ASN:HA	31:AI:83:TYR:HA	1.77	0.67
1:AA:84:A:H1'	1:AA:103:A:N6	2.10	0.67
1:AA:107:C:H4'	1:AA:293:U:C1'	2.23	0.67
1:AA:1164:G:C6	1:AA:1165:U:C4	2.83	0.67
1:AA:10:G:H2'	1:AA:11:G:C8	2.29	0.67
1:AA:1213:A:O2'	1:AA:1239:G:O4'	2.12	0.67
1:AA:1270:C:C1'	1:AA:1325:G:N7	2.48	0.67
1:AA:1394:U:H4'	1:AA:1603:A:C4'	2.25	0.67
1:AA:1439:A:C2'	1:AA:1440:G:H5'	2.24	0.67
1:AA:1500:G:H2'	1:AA:1501:C:H6	1.60	0.67
1:AA:1516:U:H2'	1:AA:1517:G:H8	1.58	0.67
1:AA:1793:C:H42	1:AA:1825:A:N6	1.91	0.67
1:AA:1832:C:C2'	1:AA:1833:U:H5'	2.25	0.67
1:AA:1889:A:O4'	1:AA:2087:G:O4'	2.13	0.67
1:AA:1948:G:O2'	1:AA:1949:G:H5'	1.93	0.67
1:AA:1970:A:O2'	1:AA:1971:A:O5'	2.12	0.67
1:AA:2197:U:H2'	1:AA:2224:G:N2	2.08	0.67
1:AA:2246:G:C2	1:AA:2247:A:C6	2.82	0.67
1:AA:2416:C:O2'	1:AA:2417:C:H5''	1.94	0.67
1:AA:2532:G:H2'	1:AA:2533:A:O4'	1.94	0.67
1:AA:2440:C:C5'	1:AA:2587:A:H4'	2.23	0.67
1:AA:2731:G:N2	1:AA:2732:G:C2	2.62	0.67
1:AA:2792:G:O2'	1:AA:2805:G:N2	2.27	0.67
1:AA:2848:G:H22	1:AA:2867:G:C1'	2.00	0.67
1:AA:455:C:P	1:AA:472:A:N1	2.67	0.67
1:AA:566:U:C6	1:AA:567:A:N7	2.63	0.67
1:AA:627:A:C4'	1:AA:627:A:OP2	2.43	0.67
1:AA:740:U:P	1:AA:1784:A:N1	2.68	0.67
1:AA:907:U:OP1	12:AN:26:TYR:CE1	2.47	0.67
2:AB:78:A:O2'	2:AB:79:C:H5'	1.94	0.67
2:AB:89:G:H2'	2:AB:89(A):A:N7	2.09	0.67
1:AA:2178:C:H5'	3:AC:211:SER:CB	2.24	0.67
4:AD:174:ILE:N	4:AD:174:ILE:HD12	2.09	0.67
4:AD:180:GLY:O	4:AD:181:GLU:OE1	2.12	0.67
1:AA:2218:G:H4'	4:AD:186:HIS:NE2	2.09	0.67
1:AA:1901:A:O2'	4:AD:244:ARG:NH1	2.27	0.67
6:AF:57:VAL:O	6:AF:58:ALA:O	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:78:ILE:HD13	6:AF:79:GLY:H	1.60	0.67
6:AF:98:SER:O	6:AF:99:TYR:HB2	1.94	0.67
7:AG:139:LEU:CD1	7:AG:142:PRO:HB3	2.25	0.67
32:AJ:112:MET:CE	32:AJ:119:ASP:HB3	2.24	0.67
32:AJ:53:VAL:HG13	32:AJ:71:THR:N	2.09	0.67
1:AA:558:G:H5'	9:AK:109:LYS:HD3	1.76	0.67
9:AK:55:VAL:HG21	9:AK:127:ASP:HA	1.76	0.67
9:AK:7:LYS:HE3	9:AK:8:GLN:H	1.57	0.67
10:AL:10:VAL:H	10:AL:17:ARG:CG	2.05	0.67
10:AL:86:ILE:HG23	10:AL:90:GLN:O	1.95	0.67
13:AO:5:LYS:CA	13:AO:5:LYS:HE2	2.24	0.67
14:AP:9:ARG:HD3	14:AP:12:PHE:CE2	2.24	0.67
15:AQ:29:ARG:C	15:AQ:30:VAL:HG12	2.14	0.67
1:AA:563:G:N2	16:AR:34:LYS:NZ	2.42	0.67
16:AR:84:LYS:HE2	16:AR:84:LYS:HA	1.77	0.67
17:AS:40:LEU:HG	17:AS:54:GLY:C	2.14	0.67
17:AS:60:GLU:HG3	17:AS:100:ARG:O	1.95	0.67
17:AS:62:LEU:HD13	17:AS:98:GLU:HA	1.74	0.67
19:AU:30:VAL:O	19:AU:77:LYS:HB3	1.94	0.67
20:AV:35:TYR:CE1	20:AV:65:ALA:O	2.47	0.67
20:AV:74:PRO:HB2	20:AV:101:LYS:N	2.10	0.67
21:AW:109:ALA:C	21:AW:113:ALA:HB2	2.15	0.67
21:AW:53:ILE:HG12	21:AW:58:VAL:CG2	2.22	0.67
22:AX:62:LEU:HD23	22:AX:62:LEU:O	1.95	0.67
34:BA:1002:G:O4'	34:BA:1002:G:OP2	2.12	0.67
34:BA:1305:G:H2'	34:BA:1331:G:H22	1.58	0.67
34:BA:609:A:C4	34:BA:610:G:C8	2.82	0.67
34:BA:821:G:O2'	34:BA:822:C:H5'	1.94	0.67
34:BA:834:C:O2'	34:BA:835:U:C5'	2.42	0.67
56:BE:73:A:N3	56:BE:73:A:H3'	2.08	0.67
35:BF:136:VAL:HA	35:BF:139:LYS:HZ3	1.60	0.67
37:BH:90:GLY:HA3	37:BH:200:GLU:CD	2.14	0.67
39:BJ:6:VAL:CG1	39:BJ:6:VAL:O	2.42	0.67
40:BK:143:ARG:HD3	40:BK:144:MET:N	2.10	0.67
41:BL:6:ILE:HG13	41:BL:85:ARG:CZ	2.24	0.67
41:BL:77:GLU:OE2	41:BL:78:GLN:N	2.28	0.67
44:BO:65:ALA:HB1	44:BO:98:LEU:CD2	2.22	0.67
44:BO:63:LEU:HA	44:BO:66:LEU:HG	1.77	0.67
45:BP:36:VAL:HG23	45:BP:81:SER:C	2.15	0.67
50:BU:35:VAL:CG1	50:BU:36:ILE:N	2.58	0.67
52:BW:11:VAL:HG12	52:BW:15:LEU:CG	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:51:VAL:HG11	52:BW:75:ALA:HB3	1.75	0.67
57:BZ:207:MET:HE1	57:BZ:224:GLY:HA3	1.74	0.67
57:BZ:233:PRO:CG	57:BZ:248:ASN:HB3	2.24	0.67
57:BZ:250:LYS:O	57:BZ:274:VAL:N	2.20	0.67
57:BZ:251:VAL:HG12	57:BZ:273:ILE:HA	0.77	0.67
57:BZ:240:ILE:CA	57:BZ:286:ASP:CB	2.68	0.67
57:BZ:502:PHE:CZ	57:BZ:556:VAL:C	2.66	0.67
55:BC:38:A:C6	55:BC:39:U:C5	2.82	0.67
23:AY:2:ARG:CA	23:AY:5:LEU:HD13	2.23	0.67
1:AA:2655:G:N3	1:AA:2655:G:H3'	2.08	0.67
34:BA:1097:C:H2'	34:BA:1098:C:H6	1.60	0.67
1:AA:1085:A:OP2	1:AA:1085:A:H2'	1.94	0.67
1:AA:1102:C:O2	1:AA:1102:C:H2'	1.93	0.67
1:AA:1037:G:O6	1:AA:1119:C:C4	2.48	0.67
1:AA:126:A:C2'	1:AA:127:A:H5'	2.24	0.67
1:AA:1341:U:O2'	19:AU:56:THR:N	2.28	0.67
1:AA:1363:C:H2'	1:AA:1363:C:O2	1.95	0.67
1:AA:1608:A:O2'	1:AA:1609:A:H5'	1.95	0.67
1:AA:1675:C:H5	5:AE:129:HIS:CD2	2.13	0.67
1:AA:1779:U:HO2'	1:AA:1783:A:N6	1.91	0.67
1:AA:1824:G:N3	1:AA:1825:A:H1'	2.09	0.67
1:AA:1942:C:H3'	1:AA:1942:C:P	2.35	0.67
1:AA:195:A:H2'	1:AA:198:C:H42	1.60	0.67
1:AA:2503:A:O2'	1:AA:2504:U:OP1	2.09	0.67
1:AA:270:A:H2'	1:AA:270(A):A:C4'	2.25	0.67
1:AA:2689:U:O2	1:AA:2713:A:OP2	2.12	0.67
1:AA:2748:A:N7	1:AA:2749:A:C6	2.63	0.67
1:AA:2876:G:H2'	1:AA:2877:G:H8	1.59	0.67
1:AA:1:G:N1	1:AA:2902:C:C6	2.02	0.67
1:AA:301:G:OP1	1:AA:301:G:H4'	1.94	0.67
1:AA:543:C:H2'	1:AA:544:C:C5	2.30	0.67
1:AA:590:A:H2'	1:AA:591:C:O4'	1.93	0.67
1:AA:59:U:H2'	1:AA:60:G:O4'	1.95	0.67
1:AA:722:A:H2'	1:AA:723:G:C8	2.27	0.67
1:AA:704:G:N2	1:AA:726:G:HO2'	1.92	0.67
1:AA:919:G:C4	1:AA:920:G:C8	2.82	0.67
1:AA:848:G:H21	1:AA:933:A:C1'	2.07	0.67
1:AA:945:A:H2'	1:AA:946:G:O5'	1.94	0.67
2:AB:76:G:H1'	21:AW:75:ASN:HD21	1.59	0.67
3:AC:40:THR:C	3:AC:216:THR:HG21	2.14	0.67
3:AC:60:GLY:O	3:AC:162:GLU:HG3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:181:GLU:HG2	4:AD:268:ARG:NE	2.10	0.67
4:AD:44:ASN:HB2	4:AD:217:ARG:NH2	2.00	0.67
5:AE:103:ASP:O	5:AE:104:VAL:CG2	2.43	0.67
5:AE:30:PRO:CA	5:AE:49:LEU:O	2.39	0.67
5:AE:92:THR:HG23	5:AE:96:PHE:HB2	1.76	0.67
1:AA:38:A:H1'	6:AF:48:THR:HB	1.76	0.67
6:AF:81:PRO:HG2	6:AF:82:ILE:CD1	2.24	0.67
8:AH:43:VAL:HG12	8:AH:44:VAL:N	2.08	0.67
8:AH:7:LEU:CG	8:AH:51:ARG:HH21	2.04	0.67
8:AH:69:ARG:HG3	8:AH:69:ARG:HH21	1.59	0.67
1:AA:1137:G:H4'	9:AK:105:GLY:HA2	1.75	0.67
9:AK:116:LEU:HD23	9:AK:116:LEU:C	2.14	0.67
9:AK:4:TYR:HB2	16:AR:64:ARG:NH1	2.02	0.67
12:AN:101:ARG:HH11	12:AN:101:ARG:CG	2.08	0.67
14:AP:92:TYR:OH	14:AP:93:LYS:HD3	1.94	0.67
1:AA:814:C:OP1	17:AS:85:LYS:HB2	1.94	0.67
18:AT:42:ARG:HG3	18:AT:43:GLY:N	2.09	0.67
19:AU:43:VAL:HG11	19:AU:51:VAL:HG22	1.75	0.67
20:AV:37:VAL:HG22	20:AV:39:VAL:CG2	2.25	0.67
34:BA:1226:C:N4	46:BQ:104:ARG:HE	1.91	0.67
34:BA:1396:A:O4'	34:BA:1398:A:H1'	1.94	0.67
1:AA:1916:A:N6	34:BA:1409:C:O4'	2.28	0.67
34:BA:1429:C:C2	34:BA:1430:C:C5	2.83	0.67
34:BA:1454:G:H2'	34:BA:1455:G:H8	0.92	0.67
34:BA:1518:A:O5'	34:BA:1518:A:H8	1.78	0.67
34:BA:373:A:N7	34:BA:482:A:N7	2.42	0.67
34:BA:483:C:OP2	34:BA:484:G:H3'	1.95	0.67
34:BA:572:A:O5'	34:BA:573:A:OP2	2.11	0.67
34:BA:97:U:O2'	34:BA:99:C:H5'	1.94	0.67
35:BF:96:ARG:O	35:BF:98:LEU:HD22	1.94	0.67
38:BI:11:ILE:HD12	38:BI:104:ALA:HB1	1.75	0.67
38:BI:135:THR:O	38:BI:139:LEU:HD12	1.94	0.67
40:BK:79:ARG:CD	40:BK:84:ASN:HB3	2.25	0.67
41:BL:82:HIS:O	41:BL:137:VAL:CA	2.41	0.67
43:BN:7:LYS:O	43:BN:97:GLU:CB	2.40	0.67
44:BO:126:ARG:HH11	44:BO:126:ARG:HB3	1.60	0.67
44:BO:21:ILE:HG22	44:BO:30:VAL:HG22	1.76	0.67
45:BP:114:LYS:O	45:BP:117:ARG:NH1	2.27	0.67
34:BA:760:G:H1	50:BU:105:ALA:C	1.97	0.67
52:BW:40:ILE:HG12	52:BW:71:LEU:HD23	1.77	0.67
53:BX:73:HIS:O	53:BX:76:ALA:N	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:81:PHE:CB	57:BZ:365:HIS:NE2	2.40	0.67
57:BZ:401:GLU:OE1	57:BZ:401:GLU:HA	1.94	0.67
56:BD:67:C:H3'	56:BD:68:C:H5'	1.76	0.67
1:AA:2187:G:H2'	1:AA:2188:C:C6	2.30	0.67
1:AA:1279:G:H2'	1:AA:1280:G:C8	2.29	0.67
1:AA:1398:C:O2'	1:AA:1399:C:H5'	1.94	0.67
1:AA:1421:G:C2	1:AA:1422:G:N7	2.63	0.67
1:AA:1559:G:C6	1:AA:1560:G:H4'	2.28	0.67
1:AA:1608:A:H4'	1:AA:1609:A:OP1	1.93	0.67
1:AA:1636:C:H1'	1:AA:1761:C:H1'	1.76	0.67
1:AA:1851:U:N3	1:AA:1852:C:N4	2.43	0.67
1:AA:1858:G:N7	1:AA:1883:G:N1	2.42	0.67
1:AA:1951:U:H2'	1:AA:1953:A:O5'	1.95	0.67
1:AA:2858:C:H5'	1:AA:2859:G:OP2	1.94	0.67
1:AA:331:A:H61	1:AA:1209:G:H2'	1.58	0.67
1:AA:586:A:C4'	6:AF:89:VAL:HG21	2.25	0.67
1:AA:778:G:C2	1:AA:787:U:C2	2.83	0.67
1:AA:917:A:C8	1:AA:918:A:C5'	2.78	0.67
2:AB:13:A:H61	2:AB:69:G:C2'	2.07	0.67
3:AC:120:MET:HG3	3:AC:145:VAL:HG13	1.77	0.67
4:AD:132:PRO:HD3	4:AD:190:TYR:OH	1.93	0.67
4:AD:45:ASN:OD1	4:AD:50:THR:HG23	1.94	0.67
5:AE:198:VAL:CG1	5:AE:200:GLU:OE2	2.42	0.67
5:AE:49:LEU:HD13	5:AE:76:ARG:HG2	1.75	0.67
7:AG:18:GLU:OE1	7:AG:19:LEU:HD12	1.95	0.67
8:AH:87:LEU:HD21	8:AH:162:ILE:HG13	1.76	0.67
1:AA:1007:C:H4'	9:AK:108:PRO:HD3	1.75	0.67
11:AM:117:GLU:HG2	11:AM:118:GLY:H	1.60	0.67
14:AP:67:ARG:HG2	14:AP:67:ARG:NH2	2.09	0.67
16:AR:16:LYS:HG2	16:AR:20:LEU:HD21	1.75	0.67
16:AR:8:VAL:CG2	16:AR:9:VAL:H	2.01	0.67
17:AS:11:GLN:NE2	17:AS:24:LYS:NZ	2.37	0.67
19:AU:43:VAL:HG12	19:AU:51:VAL:HG22	1.76	0.67
20:AV:47:LYS:HD3	20:AV:49:VAL:CG2	2.19	0.67
21:AW:42:VAL:HB	21:AW:43:GLU:CD	2.14	0.67
34:BA:1049:U:H1'	34:BA:1201:A:C8	2.30	0.67
34:BA:1231:G:OP1	42:BM:126:SER:OG	2.13	0.67
34:BA:1309:G:C5	34:BA:1330:U:C4	2.83	0.67
34:BA:1389:C:O2'	34:BA:1390:U:H5'	1.95	0.67
34:BA:1462:G:C2'	34:BA:1463:C:H5'	2.25	0.67
34:BA:198:G:O2'	34:BA:199:G:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:262:A:C2'	34:BA:263:A:C8	2.74	0.67
34:BA:295:C:N4	34:BA:303:A:N1	2.43	0.67
34:BA:315:A:N1	34:BA:330:C:C6	2.62	0.67
34:BA:80:G:C2'	34:BA:81:G:O4'	2.35	0.67
34:BA:872:A:H2'	34:BA:873:A:C5'	2.24	0.67
34:BA:940:C:H2'	34:BA:941:G:H8	1.60	0.67
34:BA:959:A:C3'	34:BA:960:U:H5''	2.18	0.67
56:BE:72:C:C2'	56:BE:73:A:H5''	2.25	0.67
35:BF:80:ILE:HD13	35:BF:211:ILE:CG2	2.25	0.67
35:BF:219:VAL:CG1	35:BF:223:ILE:HD11	2.14	0.67
34:BA:829:G:O2'	35:BF:26:PRO:CG	2.43	0.67
36:BG:118:GLN:O	36:BG:121:ALA:HB3	1.94	0.67
37:BH:58:LEU:CD1	37:BH:59:ARG:HH11	2.07	0.67
41:BL:109:ILE:HG13	41:BL:111:ILE:HD11	1.77	0.67
41:BL:88:LYS:NZ	41:BL:88:LYS:N	2.42	0.67
44:BO:102:GLY:HA2	44:BO:105:VAL:CG2	2.24	0.67
44:BO:106:LYS:HG2	44:BO:107:SER:H	1.59	0.67
51:BV:47:THR:N	51:BV:49:LYS:HZ3	1.92	0.67
52:BW:11:VAL:HG12	52:BW:15:LEU:HD12	1.76	0.67
57:BZ:13:HIS:HB2	57:BZ:108:GLN:C	2.14	0.67
57:BZ:153:ALA:HB3	57:BZ:154:THR:C	2.15	0.67
57:BZ:67:ASP:HB3	57:BZ:191:VAL:HG22	1.76	0.67
57:BZ:204:PRO:C	57:BZ:229:GLY:HA3	2.15	0.67
57:BZ:82:GLY:CA	57:BZ:361:ARG:CD	2.33	0.67
57:BZ:398:GLU:OE1	57:BZ:444:PRO:HB2	1.92	0.67
56:BD:5:G:C4	56:BD:69:G:C4	2.83	0.67
1:AA:2797:U:C4'	1:AA:2798:C:H4'	2.25	0.67
1:AA:2797:U:C5'	1:AA:2798:C:H4'	2.25	0.67
1:AA:1036:G:OP1	8:AH:59:ARG:CD	2.42	0.67
1:AA:1183:G:O3'	1:AA:1183:G:OP2	2.13	0.67
1:AA:1340:U:O2'	1:AA:1394:U:O2'	2.12	0.67
1:AA:1428:C:O2'	1:AA:1429:G:OP1	2.12	0.67
1:AA:1538:G:H1	1:AA:1539:G:N2	1.92	0.67
1:AA:1908:C:O2'	1:AA:1909:C:H5'	1.94	0.67
1:AA:1917:U:O4	34:BA:1409:C:H5'	1.94	0.67
1:AA:1786:A:C4'	1:AA:1938:A:H61	2.05	0.67
1:AA:572:A:H2	1:AA:2033:A:C2	2.12	0.67
1:AA:2405:G:O2'	1:AA:2406:U:H5''	1.95	0.67
1:AA:2542:A:C4'	1:AA:2543:G:OP1	2.41	0.67
1:AA:2630:G:H5'	1:AA:2631:G:OP2	1.94	0.67
1:AA:2849:U:H6	1:AA:2849:U:H3'	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2:G:C2	1:AA:2902:C:C6	2.83	0.67
1:AA:375:C:H2'	1:AA:376:C:C6	2.29	0.67
1:AA:388:G:N2	1:AA:390:A:C2	2.63	0.67
1:AA:565:C:O2	1:AA:565:C:H2'	1.95	0.67
1:AA:717:G:C2	1:AA:718:A:H1'	2.29	0.67
1:AA:728:G:C6	1:AA:762:U:C2'	2.78	0.67
1:AA:824:A:H3'	1:AA:825:C:C5	2.29	0.67
1:AA:832:G:OP1	11:AM:36:LYS:NZ	2.28	0.67
1:AA:864:G:H2'	1:AA:865:C:O4'	1.94	0.67
1:AA:878:A:H2'	1:AA:878:A:N3	2.09	0.67
1:AA:821:A:C8	1:AA:946:G:C5	2.83	0.67
1:AA:988:A:H4'	1:AA:1155:A:C2	2.25	0.67
1:AA:993:G:H1'	17:AS:91:TYR:HE2	1.54	0.67
3:AC:11:LEU:O	3:AC:14:VAL:HB	1.94	0.67
3:AC:52:ARG:HD3	55:BC:62:C:O4'	1.95	0.67
4:AD:7:LYS:HE2	4:AD:25:THR:CB	2.24	0.67
5:AE:36:ARG:O	5:AE:44:TYR:CD2	2.48	0.67
6:AF:158:THR:HG23	6:AF:159:GLY:N	2.09	0.67
6:AF:64:ILE:CG2	6:AF:78:ILE:HB	2.24	0.67
7:AG:9:ARG:HG2	7:AG:13:GLU:OE1	1.95	0.67
7:AG:16:ARG:HB3	7:AG:17:PRO:CD	2.25	0.67
8:AH:29:PRO:CD	8:AH:79:VAL:O	2.42	0.67
32:AJ:104:VAL:HG13	32:AJ:127:ILE:CG1	1.99	0.67
1:AA:5:A:O2'	9:AK:134:ARG:NH1	2.26	0.67
10:AL:98:VAL:HG23	10:AL:98:VAL:O	1.93	0.67
12:AN:8:LYS:HZ3	12:AN:11:LYS:CE	2.08	0.67
13:AO:113:LEU:HD13	13:AO:114:VAL:H	1.58	0.67
15:AQ:20:PRO:HB3	15:AQ:22:PHE:CE1	2.30	0.67
16:AR:27:LEU:C	16:AR:29:SER:H	1.96	0.67
1:AA:1225:C:O5'	17:AS:87:HIS:HE1	1.77	0.67
17:AS:62:LEU:CD2	17:AS:99:ILE:H	2.04	0.67
1:AA:1339:G:C5'	19:AU:16:LYS:HD3	2.23	0.67
20:AV:44:ILE:O	20:AV:44:ILE:HG22	1.93	0.67
21:AW:51:ALA:C	21:AW:53:ILE:H	1.94	0.67
21:AW:57:ILE:C	21:AW:58:VAL:HG22	2.15	0.67
22:AX:31:VAL:HG11	22:AX:67:VAL:HG22	1.75	0.67
24:AZ:5:LYS:HZ2	24:AZ:59:VAL:HG22	1.59	0.67
34:BA:1116:C:H6	34:BA:1116:C:O5'	1.78	0.67
34:BA:1163:C:C4	34:BA:1174:G:N1	2.63	0.67
34:BA:1283:G:C2'	34:BA:1284:C:H5'	2.25	0.67
34:BA:1326:C:H5"	54:BY:12:LYS:HZ1	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:255:G:O4'	50:BU:16:GLN:HB2	1.95	0.67
34:BA:390:C:H2'	34:BA:391:G:H8	1.60	0.67
34:BA:516:U:C4	34:BA:517:G:N1	2.62	0.67
34:BA:592:G:C2'	34:BA:593:G:H5'	2.25	0.67
34:BA:742:G:H2'	34:BA:743:U:O4'	1.94	0.67
56:BD:55:U:C5	56:BD:57:G:H5'	2.30	0.67
36:BG:124:ILE:HG12	36:BG:130:VAL:HG22	1.75	0.67
37:BH:19:LEU:H	37:BH:33:MET:CE	2.01	0.67
37:BH:12:CYS:HB3	37:BH:31:CYS:O	1.95	0.67
38:BI:76:ILE:HG21	38:BI:142:LEU:CB	2.23	0.67
38:BI:79:GLU:CB	38:BI:92:LYS:HA	2.22	0.67
39:BJ:84:ASN:O	39:BJ:86:ARG:N	2.28	0.67
41:BL:107:LEU:N	41:BL:107:LEU:HD23	2.08	0.67
34:BA:1367:C:OP1	42:BM:115:GLY:N	2.27	0.67
42:BM:6:GLY:CA	42:BM:83:ARG:HB3	2.23	0.67
42:BM:77:ILE:O	42:BM:81:ILE:HG13	1.95	0.67
44:BO:102:GLY:C	44:BO:104:GLN:H	1.95	0.67
45:BP:56:ALA:CB	45:BP:68:ALA:O	2.36	0.67
47:BR:22:THR:O	47:BR:23:ARG:HG2	1.94	0.67
50:BU:21:VAL:HG22	50:BU:43:LEU:HA	1.76	0.67
51:BV:66:LEU:CD1	51:BV:67:ALA:N	2.52	0.67
52:BW:30:LEU:CD2	52:BW:50:ALA:HB2	2.25	0.67
34:BA:194:C:H5''	53:BX:65:LYS:NZ	2.09	0.67
53:BX:90:GLN:O	53:BX:93:GLU:HB2	1.94	0.67
31:AI:51:LEU:CB	31:AI:90:ALA:HB2	2.25	0.67
37:BH:195:ALA:O	37:BH:196:LEU:HD12	1.95	0.67
1:AA:1036:G:C6	1:AA:1120:G:C6	2.68	0.67
1:AA:1059:G:C1'	32:AJ:75:SER:N	2.58	0.67
1:AA:551:G:O5'	1:AA:1220:A:H2	1.77	0.67
1:AA:1224:G:H2'	17:AS:87:HIS:CD2	2.29	0.67
1:AA:1357:U:H2'	1:AA:1358:G:O4'	1.95	0.67
1:AA:1688:U:N3	1:AA:1700:A:H5''	2.10	0.67
1:AA:172:C:N1	1:AA:173:G:C8	2.62	0.67
1:AA:1838:C:O2	1:AA:1838:C:H2'	1.95	0.67
1:AA:1943:U:H1'	1:AA:1945:G:H5''	1.75	0.67
1:AA:1949:G:H2'	1:AA:1950:G:O4'	1.94	0.67
1:AA:2031:A:H62	1:AA:2498:C:C1'	2.08	0.67
1:AA:2592:G:C6	1:AA:2593:U:C4	2.83	0.67
1:AA:2049:G:N2	1:AA:2620:C:C2	2.63	0.67
1:AA:270(B):A:H1'	1:AA:270(C):C:C6	2.30	0.67
1:AA:2863:C:O2'	1:AA:2864:G:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:336:C:H2'	1:AA:337:C:C5'	2.25	0.67
1:AA:408:G:O5'	1:AA:408:G:H8	1.76	0.67
1:AA:638:G:H2'	1:AA:639:U:C5'	2.24	0.67
1:AA:654:A:N3	1:AA:654:A:H2'	2.10	0.67
1:AA:811:U:OP2	11:AM:28:GLY:HA3	1.95	0.67
3:AC:211:SER:HB2	3:AC:213:TYR:CZ	2.29	0.67
3:AC:49:ILE:HG13	3:AC:51:PRO:HD3	1.77	0.67
3:AC:60:GLY:O	3:AC:61:THR:HB	1.95	0.67
4:AD:243:GLY:O	4:AD:244:ARG:CB	2.42	0.67
5:AE:151:TYR:CZ	5:AE:152:LYS:HG3	2.30	0.67
5:AE:171:GLU:O	5:AE:184:VAL:HG12	1.95	0.67
5:AE:33:VAL:CG1	5:AE:48:GLN:HA	2.24	0.67
6:AF:137:LYS:O	6:AF:140:LEU:HB3	1.95	0.67
7:AG:11:TYR:O	7:AG:15:VAL:HG22	1.95	0.67
7:AG:131:TYR:HE1	7:AG:133:LEU:O	1.77	0.67
7:AG:135:LEU:CD1	7:AG:137:GLU:H	2.08	0.67
7:AG:94:LEU:HB2	7:AG:99:MET:CE	2.25	0.67
10:AL:105:GLU:C	10:AL:111:PHE:HZ	1.96	0.67
11:AM:126:VAL:HA	11:AM:146:VAL:H	1.59	0.67
11:AM:122:PRO:HB2	11:AM:138:LEU:CB	2.25	0.67
12:AN:20:ALA:O	12:AN:21:THR:HB	1.94	0.67
12:AN:58:PHE:C	12:AN:60:ARG:H	1.98	0.67
12:AN:85:LYS:HD2	12:AN:86:GLY:H	1.60	0.67
13:AO:33:ARG:HA	13:AO:115:GLU:CB	2.25	0.67
13:AO:37:THR:O	13:AO:40:LYS:HB2	1.95	0.67
14:AP:65:VAL:CG2	14:AP:66:ALA:N	2.58	0.67
14:AP:64:GLU:CD	14:AP:67:ARG:HB3	2.15	0.67
15:AQ:50:ILE:HB	15:AQ:66:VAL:HB	0.84	0.67
15:AQ:70:VAL:HB	15:AQ:74:ARG:HD3	1.77	0.67
16:AR:40:PHE:HD2	17:AS:78:LYS:HE2	1.60	0.67
16:AR:65:ILE:HD12	16:AR:96:ALA:CB	2.21	0.67
16:AR:84:LYS:HE2	16:AR:84:LYS:CA	2.25	0.67
18:AT:59:VAL:HG21	18:AT:66:GLU:HB2	1.77	0.67
22:AX:40:GLN:HB3	22:AX:45:PHE:CD1	2.30	0.67
24:AZ:29:ARG:O	24:AZ:30:ARG:C	2.33	0.67
34:BA:1100:C:OP2	35:BF:98:LEU:HD21	1.95	0.67
34:BA:1152:A:H2'	34:BA:1153:C:H5'	1.77	0.67
34:BA:1309:G:C2	34:BA:1328:C:C5	2.81	0.67
34:BA:1407:C:H2'	34:BA:1408:A:C5'	2.24	0.67
34:BA:1452:C:O4'	34:BA:1453:G:N2	2.27	0.67
34:BA:13:U:H5'	34:BA:14:U:OP2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:129(A):G:N2	34:BA:191(A):G:C8	2.63	0.67
34:BA:292:G:C5	34:BA:293:G:H1'	2.29	0.67
34:BA:55:A:H2'	34:BA:56:U:C5'	2.23	0.67
21:AW:179:ASP:OD2	56:BD:56:C:H5''	1.95	0.67
34:BA:1230:C:H5'	56:BE:30:G:C5'	2.25	0.67
22:AX:4:LYS:HZ1	56:BE:75:C:H2'	0.84	0.67
35:BF:101:MET:HA	35:BF:108:ILE:CG1	2.25	0.67
35:BF:55:PHE:HE2	35:BF:218:ALA:HA	1.60	0.67
38:BI:52:PRO:O	38:BI:55:VAL:CB	2.37	0.67
39:BJ:50:TYR:OH	51:BV:77:GLY:CA	2.43	0.67
43:BN:52:GLY:H	43:BN:59:SER:HB2	1.59	0.67
43:BN:76:ASN:C	43:BN:78:ASN:H	1.98	0.67
46:BQ:108:ARG:HH11	46:BQ:108:ARG:CA	2.03	0.67
34:BA:1228:C:OP1	46:BQ:115:LYS:CB	2.41	0.67
34:BA:189:U:C4	50:BU:72:ARG:NH2	2.63	0.67
51:BV:66:LEU:HD12	51:BV:67:ALA:CA	2.25	0.67
57:BZ:136:ARG:HG3	57:BZ:139:TRP:CB	2.16	0.67
57:BZ:580:VAL:HG12	57:BZ:585:ILE:CD1	2.24	0.67
57:BZ:313:VAL:O	57:BZ:315:THR:N	2.25	0.67
20:AV:41:GLY:O	20:AV:42:VAL:HG13	1.95	0.67
37:BH:47:ARG:HH11	37:BH:47:ARG:HB2	1.60	0.67
1:AA:1059:G:C3'	32:AJ:74:ALA:H	2.08	0.67
1:AA:1064:C:C2	1:AA:1065:U:C6	2.83	0.67
1:AA:1080:C:H2'	1:AA:1081:U:C6	2.30	0.67
1:AA:1225:C:O5'	17:AS:87:HIS:CE1	2.47	0.67
1:AA:1491:G:N1	1:AA:1493:C:N4	2.43	0.67
1:AA:1531:C:O2	1:AA:1532:C:H5	1.76	0.67
1:AA:740:U:H1'	1:AA:1784:A:C8	2.29	0.67
1:AA:2280:G:C2	1:AA:2281:C:C5	2.83	0.67
1:AA:2394:C:OP1	11:AM:57:THR:HG23	1.94	0.67
1:AA:2507:C:C2	1:AA:2583:G:N3	2.63	0.67
1:AA:2516:G:H2'	1:AA:2517:C:C6	2.30	0.67
1:AA:2660:A:N7	1:AA:2661:G:C6	2.63	0.67
1:AA:2678:C:C2	1:AA:2679:A:C8	2.83	0.67
1:AA:2875:C:H2'	1:AA:2876:G:O4'	1.95	0.67
1:AA:2876:G:P	15:AQ:2:ASN:HB3	2.35	0.67
1:AA:370:G:N3	1:AA:424:G:N7	2.43	0.67
1:AA:457:A:H1'	1:AA:459:U:H3	1.56	0.67
1:AA:491:G:C2	1:AA:492:A:C4	2.83	0.67
1:AA:609:A:N1	1:AA:619:G:N3	2.42	0.67
1:AA:692:C:O2'	1:AA:693:C:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:721:C:C2	1:AA:722:A:C8	2.82	0.67
1:AA:76:C:H4'	23:AY:54:ARG:HH21	1.60	0.67
1:AA:846:C:H1'	1:AA:847:U:C5	2.30	0.67
1:AA:91:A:C2	1:AA:92:G:H5'	2.30	0.67
4:AD:210:GLY:N	4:AD:213:ARG:HE	1.92	0.67
4:AD:23:GLU:HB3	4:AD:204:ILE:HG13	1.76	0.67
4:AD:32:SER:O	4:AD:33:LEU:O	2.13	0.67
7:AG:40:ASN:ND2	7:AG:41:GLN:N	2.42	0.67
8:AH:87:LEU:H	8:AH:132:ARG:CB	2.08	0.67
9:AK:16:ILE:O	9:AK:54:VAL:HG23	1.94	0.67
9:AK:95:PRO:O	9:AK:98:VAL:HG23	1.94	0.67
5:AE:13:ARG:NE	11:AM:56:SER:HB3	122.95	0.67
11:AM:73:GLY:HA2	11:AM:111:ARG:CZ	2.24	0.67
11:AM:74:GLU:CB	11:AM:107:LYS:HZ2	2.07	0.67
14:AP:12:PHE:O	14:AP:13:ARG:C	2.33	0.67
14:AP:28:VAL:HA	14:AP:37:ALA:HB2	1.77	0.67
14:AP:24:LEU:HG	14:AP:40:ILE:O	1.94	0.67
10:AL:106:LEU:HD22	15:AQ:39:ARG:CZ	2.25	0.67
15:AQ:3:ARG:O	15:AQ:4:GLY:C	2.34	0.67
15:AQ:15:VAL:CG1	15:AQ:81:PRO:HB3	2.24	0.67
16:AR:94:ASN:O	16:AR:95:LEU:C	2.34	0.67
17:AS:30:GLY:O	17:AS:31:ALA:O	2.13	0.67
17:AS:34:GLU:O	17:AS:35:LEU:HD12	1.94	0.67
17:AS:61:VAL:CG1	17:AS:62:LEU:N	2.56	0.67
18:AT:16:LYS:HD3	18:AT:16:LYS:N	2.05	0.67
19:AU:16:LYS:H	19:AU:16:LYS:CE	2.08	0.67
20:AV:36:ALA:HA	20:AV:64:GLU:HB2	1.77	0.67
21:AW:116:VAL:CG2	21:AW:145:GLU:HG2	2.25	0.67
1:AA:988:A:C3'	24:AZ:10:LYS:NZ	2.57	0.67
34:BA:286:G:C5	34:BA:287:U:C5	2.83	0.67
34:BA:300:A:H2'	34:BA:301:G:H5'	1.77	0.67
34:BA:380:G:N2	34:BA:382:A:H3'	2.10	0.67
34:BA:451:A:H61	34:BA:480:U:H2'	1.60	0.67
34:BA:558:G:H2'	34:BA:559:A:C2	2.28	0.67
34:BA:791:G:H2'	34:BA:792:A:C8	2.29	0.67
34:BA:795:C:H6	34:BA:795:C:O5'	1.77	0.67
34:BA:824:C:O4'	41:BL:1:MET:N	2.26	0.67
34:BA:990:C:H2'	34:BA:991:U:C6	2.30	0.67
56:BE:2:C:C5	56:BE:70:G:C5	2.82	0.67
35:BF:91:PRO:HB3	35:BF:152:PHE:CE1	2.30	0.67
36:BG:38:ARG:HB2	36:BG:94:LEU:CD2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:93:PHE:CA	37:BH:96:LEU:HD12	2.21	0.67
38:BI:140:ARG:HB3	38:BI:140:ARG:NH1	2.10	0.67
38:BI:152:ARG:HH21	41:BL:44:PHE:H	1.41	0.67
39:BJ:81:ILE:O	39:BJ:83:ASP:N	2.27	0.67
43:BN:24:VAL:CG2	43:BN:72:VAL:HG13	2.25	0.67
44:BO:111:ASP:CG	44:BO:113:PRO:HD3	2.16	0.67
44:BO:45:GLY:HA3	44:BO:55:LYS:HB3	1.76	0.67
45:BP:117:ARG:HH21	45:BP:124:LYS:CA	1.97	0.67
46:BQ:16:ASP:OD2	46:BQ:17:VAL:HG23	1.94	0.67
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:HD22	2.28	0.67
48:BS:62:GLN:HA	48:BS:65:ARG:NH1	2.09	0.67
49:BT:32:TYR:N	49:BT:32:TYR:CD1	2.62	0.67
49:BT:58:TYR:C	49:BT:58:TYR:CD1	2.68	0.67
52:BW:10:PHE:O	52:BW:41:VAL:HG22	1.95	0.67
57:BZ:211:GLN:HB2	57:BZ:223:ILE:CG2	2.25	0.67
34:BA:617:G:H4'	49:BT:44:THR:OG1	1.94	0.67
1:AA:80:G:O4'	1:AA:347:A:N6	2.28	0.67
1:AA:1069:A:N7	1:AA:1073:A:N7	2.43	0.66
1:AA:1263:U:H5	1:AA:1265:A:H61	1.40	0.66
1:AA:1373:A:H2'	1:AA:1374:G:C8	2.30	0.66
1:AA:1386:C:H2'	1:AA:1387:C:C6	2.30	0.66
1:AA:2020:A:OP2	16:AR:27:LEU:CD1	2.42	0.66
1:AA:2041:U:C2	1:AA:2042:A:C8	2.82	0.66
1:AA:204:A:OP1	1:AA:206:U:O2	2.13	0.66
1:AA:2152:G:OP1	3:AC:3:HIS:O	2.13	0.66
1:AA:2394:C:N4	1:AA:2422:A:N6	2.43	0.66
1:AA:2437:U:H2'	1:AA:2438:U:C6	2.30	0.66
1:AA:2568:C:H2'	1:AA:2569:G:C5'	2.24	0.66
1:AA:2619:C:C2'	1:AA:2620:C:O5'	2.43	0.66
1:AA:2809:A:O4'	1:AA:2811:G:N7	2.28	0.66
1:AA:2844:G:H2'	1:AA:2844:G:N3	2.09	0.66
1:AA:659:C:O2'	1:AA:660:G:H5'	1.93	0.66
1:AA:728:G:H1'	1:AA:729:G:C8	2.29	0.66
1:AA:774:A:O2'	1:AA:775:G:H8	1.77	0.66
2:AB:82:G:N3	2:AB:83:G:C8	2.64	0.66
1:AA:764:A:OP1	4:AD:211:ARG:HA	1.94	0.66
1:AA:2227:A:H5''	4:AD:260:ARG:CD	2.25	0.66
4:AD:260:ARG:HH11	4:AD:260:ARG:CG	2.08	0.66
5:AE:156:MET:SD	5:AE:157:ALA:N	2.67	0.66
6:AF:117:ARG:NE	6:AF:190:GLU:O	2.29	0.66
1:AA:450:G:H5'	6:AF:52:LYS:CD	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:7:TYR:H	6:AF:20:LEU:HD22	1.59	0.66
7:AG:118:ARG:HG3	7:AG:119:GLY:N	2.10	0.66
7:AG:56:ALA:O	7:AG:59:GLU:HG3	1.95	0.66
8:AH:65:HIS:O	8:AH:69:ARG:HG2	1.95	0.66
8:AH:97:ARG:HB3	8:AH:97:ARG:NH2	2.11	0.66
32:AJ:29:GLN:HG2	57:BZ:431:PRO:CB	2.24	0.66
9:AK:104:LYS:HD3	9:AK:117:PHE:CE2	2.29	0.66
9:AK:85:ILE:HB	9:AK:90:MET:SD	2.34	0.66
10:AL:6:THR:HA	10:AL:7:TYR:HD1	1.55	0.66
11:AM:117:GLU:HG2	11:AM:118:GLY:N	2.10	0.66
12:AN:97:VAL:C	12:AN:98:LYS:HE2	2.15	0.66
13:AO:79:LEU:HD23	13:AO:80:PHE:HA	1.77	0.66
15:AQ:71:GLY:N	15:AQ:74:ARG:NH1	2.43	0.66
15:AQ:7:ILE:C	15:AQ:11:GLU:OE1	2.34	0.66
16:AR:80:ILE:O	16:AR:84:LYS:HG2	1.95	0.66
17:AS:11:GLN:HE22	17:AS:24:LYS:CE	2.07	0.66
18:AT:36:LEU:HD11	18:AT:47:VAL:CB	2.25	0.66
18:AT:8:ARG:CZ	18:AT:102:HIS:CE1	2.78	0.66
19:AU:15:GLU:HB3	19:AU:16:LYS:NZ	2.09	0.66
20:AV:46:LYS:HG3	20:AV:58:GLY:N	2.10	0.66
20:AV:50:ARG:HB2	20:AV:54:LYS:HD3	1.75	0.66
21:AW:10:ARG:CD	21:AW:36:LYS:HB2	2.25	0.66
34:BA:1003:G:C6	34:BA:1004:A:H1'	2.30	0.66
34:BA:795:C:O4'	34:BA:1506:U:C2	2.49	0.66
34:BA:160:A:C1'	34:BA:344:A:N7	2.59	0.66
34:BA:67:C:O4'	34:BA:172:A:H1'	1.95	0.66
34:BA:236:G:H3'	34:BA:237:C:C6	2.30	0.66
34:BA:266:G:H2'	50:BU:67:LYS:HZ3	1.57	0.66
34:BA:291:C:C3'	34:BA:305:G:H22	1.99	0.66
34:BA:442:C:O2	34:BA:442:C:H2'	1.93	0.66
56:BE:27:G:H2'	56:BE:28:G:C8	2.29	0.66
35:BF:217:ARG:HG3	35:BF:217:ARG:HH11	1.60	0.66
35:BF:49:GLU:OE2	35:BF:49:GLU:N	2.28	0.66
34:BA:1189:C:O2'	36:BG:176:HIS:NE2	2.27	0.66
36:BG:94:LEU:HD23	36:BG:94:LEU:O	1.95	0.66
37:BH:20:TYR:O	37:BH:26:CYS:SG	2.53	0.66
40:BK:42:ILE:HG22	40:BK:120:ILE:CD1	2.25	0.66
40:BK:46:ALA:HB2	40:BK:120:ILE:HD12	1.76	0.66
41:BL:33:GLU:HG2	41:BL:59:LEU:CD1	2.24	0.66
41:BL:87:SER:CB	41:BL:93:VAL:H	2.08	0.66
34:BA:1128:C:C3'	42:BM:16:ARG:HH22	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:8:LEU:HD22	43:BN:94:VAL:CG1	2.25	0.66
43:BN:90:LEU:H	43:BN:91:PRO:HD2	1.58	0.66
45:BP:27:LEU:HB2	45:BP:64:TYR:CZ	2.30	0.66
34:BA:1360:A:N7	47:BR:17:LYS:HD3	2.09	0.66
48:BS:62:GLN:CA	48:BS:65:ARG:HH22	2.07	0.66
49:BT:20:VAL:CG2	49:BT:35:LYS:HA	2.21	0.66
34:BA:760:G:H2'	50:BU:103:GLY:O	1.95	0.66
52:BW:11:VAL:HG11	52:BW:15:LEU:HB2	1.76	0.66
53:BX:61:SER:OG	53:BX:62:LEU:N	2.28	0.66
57:BZ:234:ASN:HB3	57:BZ:248:ASN:O	1.94	0.66
57:BZ:446:ARG:HH11	57:BZ:480:VAL:H	1.42	0.66
1:AA:1944:U:O4	57:BZ:543:LEU:CD2	2.43	0.66
57:BZ:564:THR:CB	57:BZ:567:GLN:HB3	2.25	0.66
57:BZ:18:LYS:CG	57:BZ:76:PRO:HG3	1.89	0.66
56:BD:66:U:O5'	56:BD:66:U:H6	1.78	0.66
1:AA:1886:C:C2	1:AA:1887:C:C5	2.82	0.66
57:BZ:99:VAL:CG1	57:BZ:104:GLY:C	2.63	0.66
1:AA:1069:A:H4'	1:AA:1070:A:O5'	1.95	0.66
1:AA:1042:G:N1	1:AA:1113:U:C4	2.56	0.66
1:AA:1027:A:H61	1:AA:1126:A:H1'	1.60	0.66
1:AA:1203:G:C4	1:AA:1241:A:C8	2.81	0.66
1:AA:1567:A:H5''	4:AD:59:LYS:HG2	1.75	0.66
1:AA:1703:G:O2'	1:AA:1704:G:H5'	1.96	0.66
1:AA:1905:C:O2'	1:AA:1929:G:C2'	2.43	0.66
1:AA:2459:A:C4	1:AA:2460:U:H1'	2.27	0.66
1:AA:2581:G:C2	1:AA:2610:C:C6	2.82	0.66
1:AA:2672:G:H2'	1:AA:2673:G:C8	2.28	0.66
1:AA:2748:A:N7	1:AA:2749:A:N6	2.43	0.66
1:AA:374:A:C3'	1:AA:375:C:H6	2.07	0.66
1:AA:35:G:N2	1:AA:450:G:H21	1.92	0.66
1:AA:627:A:N6	1:AA:638:G:H1'	2.08	0.66
2:AB:105:G:H4'	21:AW:32:HIS:CE1	2.31	0.66
4:AD:132:PRO:HB3	4:AD:190:TYR:CE1	2.29	0.66
4:AD:230:ASP:O	4:AD:231:HIS:C	2.33	0.66
5:AE:128:SER:C	5:AE:130:GLY:H	1.98	0.66
5:AE:31:CYS:HB3	5:AE:32:PRO:HD2	1.78	0.66
1:AA:1257:C:O2'	6:AF:83:PHE:HB2	1.95	0.66
7:AG:181:ARG:N	7:AG:181:ARG:CD	2.58	0.66
7:AG:74:LYS:HB3	7:AG:87:PRO:HG2	1.76	0.66
7:AG:81:LYS:O	56:BE:52:G:C5'	2.43	0.66
8:AH:26:VAL:HG12	8:AH:79:VAL:CG1	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1080:C:O2	32:AJ:129:GLY:HA3	1.88	0.66
9:AK:33:LEU:HD11	9:AK:52:VAL:HG21	1.77	0.66
1:AA:2780:G:H22	9:AK:97:ARG:HH12	0.75	0.66
10:AL:10:VAL:O	10:AL:11:ALA:CB	2.42	0.66
10:AL:26:LYS:HG3	10:AL:27:GLY:N	2.08	0.66
11:AM:114:ILE:HG21	11:AM:122:PRO:HA	1.75	0.66
15:AQ:70:VAL:CB	15:AQ:74:ARG:HD3	2.24	0.66
16:AR:79:PHE:O	16:AR:83:LEU:HD12	1.94	0.66
1:AA:997:G:C5'	16:AR:92:ARG:NH1	2.54	0.66
17:AS:15:GLU:HA	17:AS:100:ARG:NH1	2.07	0.66
17:AS:31:ALA:O	17:AS:33:VAL:N	2.28	0.66
17:AS:31:ALA:O	17:AS:33:VAL:HG23	1.95	0.66
18:AT:51:LEU:O	18:AT:54:ALA:HB3	1.95	0.66
22:AX:68:GLU:HB2	22:AX:80:HIS:O	1.94	0.66
19:AU:7:VAL:CG2	23:AY:28:MET:HG2	2.25	0.66
34:BA:1040:U:H2'	34:BA:1041:A:C8	2.31	0.66
34:BA:1234:C:C5'	34:BA:1364:U:O2'	2.41	0.66
34:BA:1333:A:H8	34:BA:1333:A:O5'	1.79	0.66
34:BA:1347:G:H3'	42:BM:107:ARG:C	2.16	0.66
34:BA:1349:A:H2'	34:BA:1350:A:C8	2.29	0.66
34:BA:937:A:H1'	34:BA:1379:G:N2	2.10	0.66
34:BA:1466:C:H3'	34:BA:1467:G:H8	1.59	0.66
34:BA:1470:G:O2'	34:BA:1471:G:H5'	1.95	0.66
34:BA:1520:G:H2'	34:BA:1521:G:C8	2.29	0.66
34:BA:331:G:OP1	34:BA:332:G:C8	2.48	0.66
34:BA:428:G:C2	34:BA:430:A:N6	2.64	0.66
35:BF:95:GLN:O	35:BF:97:TRP:N	2.27	0.66
36:BG:52:LEU:HA	36:BG:70:VAL:CG2	2.23	0.66
37:BH:118:ARG:HG3	37:BH:136:PRO:CB	2.26	0.66
37:BH:39:PRO:O	37:BH:44:GLY:HA3	1.95	0.66
38:BI:102:ALA:HB1	38:BI:106:PRO:CB	2.25	0.66
38:BI:84:PHE:CZ	38:BI:133:TYR:CB	2.76	0.66
39:BJ:76:ALA:O	39:BJ:79:LEU:HG	1.95	0.66
39:BJ:53:ALA:HB2	39:BJ:86:ARG:HD2	1.77	0.66
41:BL:103:VAL:CB	41:BL:108:GLY:HA3	2.24	0.66
47:BR:12:ARG:O	47:BR:14:PRO:N	2.27	0.66
47:BR:52:GLN:O	47:BR:53:LEU:HD23	1.96	0.66
34:BA:582:U:OP1	48:BS:68:ARG:NH1	2.28	0.66
50:BU:91:ARG:O	50:BU:94:ASN:HB2	1.94	0.66
52:BW:39:THR:O	52:BW:40:ILE:O	2.14	0.66
53:BX:63:ILE:HD11	53:BX:80:ARG:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:89:MET:HE3	57:BZ:116:ALA:HA	1.76	0.66
57:BZ:157:GLN:C	57:BZ:158:LEU:HD12	2.15	0.66
57:BZ:173:GLY:HA3	57:BZ:174:LEU:CB	2.24	0.66
57:BZ:226:ILE:CB	57:BZ:267:LEU:HA	2.25	0.66
57:BZ:287:THR:O	57:BZ:297:LEU:HD22	1.95	0.66
57:BZ:64:ILE:H	57:BZ:65:LYS:HG2	1.59	0.66
1:AA:1131:G:C1'	9:AK:82:LEU:HD11	2.24	0.66
1:AA:1222:C:C2'	1:AA:1223:C:H5'	2.25	0.66
1:AA:1347:G:O2'	1:AA:1348:G:H5'	1.95	0.66
1:AA:1491:G:O4'	4:AD:99:ASP:HB2	1.96	0.66
1:AA:14:A:N7	1:AA:15:G:C4	2.63	0.66
1:AA:1647:G:H3'	1:AA:1647:G:OP2	1.94	0.66
1:AA:1674:G:O2'	1:AA:1676:A:N6	2.28	0.66
1:AA:1735:C:N3	1:AA:1741:C:N4	2.40	0.66
1:AA:1793:C:N4	1:AA:1825:A:N6	2.42	0.66
1:AA:1906:G:C2	1:AA:1907:G:C5	2.83	0.66
1:AA:1922:G:O6	58:AA:3001:NMY:N6	2.28	0.66
1:AA:1944:U:C1'	1:AA:1955:U:C6	2.78	0.66
1:AA:1669:A:C2	1:AA:1994:C:H1'	2.29	0.66
1:AA:2314:C:H2'	1:AA:2315:G:C8	2.26	0.66
1:AA:479:A:O2'	1:AA:480:A:H3'	1.96	0.66
1:AA:482:A:N7	1:AA:506:G:N1	2.42	0.66
1:AA:526:A:H4'	1:AA:527:C:OP1	1.94	0.66
1:AA:764:A:N6	1:AA:1789:A:H2	1.90	0.66
1:AA:848:G:H2'	1:AA:849:A:H8	1.57	0.66
1:AA:959:A:C6	1:AA:960:A:N6	2.63	0.66
1:AA:961:C:C5	1:AA:2031:A:C2	2.84	0.66
1:AA:972:G:C8	1:AA:973:A:H3'	2.29	0.66
2:AB:16:G:H2'	2:AB:17:C:C6	2.31	0.66
2:AB:24:G:O5'	2:AB:24:G:H8	1.77	0.66
2:AB:63:G:H2'	2:AB:64:C:C6	2.31	0.66
4:AD:132:PRO:O	4:AD:133:LEU:C	2.34	0.66
5:AE:49:LEU:HD22	5:AE:76:ARG:O	1.95	0.66
7:AG:177:GLY:O	7:AG:178:PHE:HB3	1.96	0.66
7:AG:55:LYS:HG3	7:AG:148:MET:SD	2.35	0.66
8:AH:38:SER:N	8:AH:41:MET:HE2	2.09	0.66
32:AJ:58:THR:O	32:AJ:59:ILE:HG23	1.96	0.66
32:AJ:68:VAL:O	32:AJ:69:THR:HG23	1.96	0.66
10:AL:28:SER:O	10:AL:29:ASN:HB2	1.96	0.66
11:AM:88:LEU:HD11	11:AM:124:LYS:NZ	2.11	0.66
12:AN:6:ARG:HG2	12:AN:70:PRO:CB	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:113:LYS:O	15:AQ:116:ALA:HB3	1.95	0.66
15:AQ:53:ARG:HH21	15:AQ:102:ILE:CD1	2.08	0.66
17:AS:4:ILE:HG13	17:AS:13:ARG:HG2	1.76	0.66
18:AT:20:VAL:HG22	18:AT:24:ILE:CD1	2.21	0.66
21:AW:96:VAL:HG13	21:AW:128:VAL:CG2	2.25	0.66
22:AX:25:ARG:HG3	22:AX:37:LEU:HA	1.76	0.66
1:AA:2602:A:C8	22:AX:2:ALA:HB2	2.31	0.66
34:BA:1054:C:C2'	34:BA:1055:A:H5'	2.25	0.66
34:BA:1062:U:C2'	34:BA:1063:C:C5	2.67	0.66
34:BA:1231:G:P	42:BM:127:LYS:HE2	2.34	0.66
34:BA:1449:C:N4	34:BA:1454:G:N1	2.42	0.66
34:BA:1454:G:HO2'	34:BA:1455:G:H8	1.41	0.66
34:BA:1528:U:H1'	34:BA:1529:G:H21	1.59	0.66
34:BA:715:A:O2'	34:BA:716:A:H5'	1.95	0.66
34:BA:943:U:H2'	34:BA:944:G:C8	2.31	0.66
34:BA:973:G:H22	34:BA:974:A:N6	1.89	0.66
56:BE:2:C:C4	56:BE:70:G:C5	2.83	0.66
35:BF:102:LEU:HD13	35:BF:102:LEU:H	1.58	0.66
35:BF:92:TYR:O	35:BF:152:PHE:HB2	1.94	0.66
35:BF:78:GLN:NE2	35:BF:96:ARG:NH2	2.43	0.66
38:BI:12:LEU:HG	38:BI:129:ILE:HG12	1.77	0.66
39:BJ:12:PRO:HB2	39:BJ:57:GLN:HE21	1.61	0.66
40:BK:70:LYS:O	40:BK:138:LYS:HE3	1.95	0.66
40:BK:155:ARG:NH1	40:BK:156:TRP:N	2.40	0.66
40:BK:15:ASP:H	40:BK:20:ASP:N	1.92	0.66
40:BK:94:ARG:HH11	40:BK:94:ARG:HG3	1.58	0.66
41:BL:40:ALA:HB2	41:BL:45:ILE:CG1	2.24	0.66
43:BN:18:ALA:CB	43:BN:91:PRO:HB3	2.23	0.66
44:BO:19:ALA:CB	44:BO:80:VAL:HG21	2.24	0.66
45:BP:101:VAL:HG23	45:BP:104:VAL:CG2	2.25	0.66
45:BP:62:SER:O	45:BP:63:GLY:C	2.34	0.66
46:BQ:56:LEU:CD1	46:BQ:60:VAL:CG2	2.72	0.66
46:BQ:81:LEU:HD13	46:BQ:81:LEU:H	1.61	0.66
53:BX:43:LEU:CD1	53:BX:55:ILE:HD11	2.19	0.66
57:BZ:54:ILE:HD13	57:BZ:54:ILE:N	2.10	0.66
57:BZ:495:LYS:CB	57:BZ:515:GLY:O	2.43	0.66
1:AA:1485:G:H2'	1:AA:1486:A:C8	2.31	0.66
23:AY:7:GLU:CA	23:AY:10:LYS:HG2	2.25	0.66
1:AA:124:G:OP1	1:AA:1376:C:H1'	1.95	0.66
1:AA:1399:C:H2'	1:AA:1400:G:C8	2.29	0.66
1:AA:1431:U:O2'	1:AA:1432:C:H5'	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1472:A:C1'	1:AA:1473:G:N7	2.58	0.66
1:AA:1627:G:N2	1:AA:1628:G:H1'	2.11	0.66
1:AA:1709:U:H5'	1:AA:1709:U:H6	1.61	0.66
1:AA:1794:U:C2	1:AA:1795:C:C5	2.83	0.66
1:AA:1803:A:OP2	1:AA:1803:A:H8	1.79	0.66
1:AA:1925:C:H2'	1:AA:1926:U:C6	2.31	0.66
1:AA:195:A:N6	1:AA:198:C:OP2	2.28	0.66
1:AA:2114:A:H8	1:AA:2114:A:O5'	1.78	0.66
1:AA:46:C:N4	1:AA:214:G:H8	1.94	0.66
1:AA:218:A:N1	1:AA:235:U:O2'	2.25	0.66
1:AA:2507:C:C4'	1:AA:2573:C:H41	2.09	0.66
1:AA:476:G:N2	1:AA:478:A:H3'	2.10	0.66
1:AA:653:A:H3'	1:AA:654:A:O3'	1.95	0.66
1:AA:733:G:C8	1:AA:761:A:N6	2.64	0.66
1:AA:800:A:O2'	1:AA:801:G:C5'	2.44	0.66
1:AA:826:U:C5'	1:AA:2428:G:O3'	2.43	0.66
1:AA:892:G:N3	1:AA:893:C:N3	2.43	0.66
1:AA:901:A:C8	1:AA:902:C:C5	2.83	0.66
2:AB:69:G:H5''	2:AB:70:C:OP2	1.95	0.66
2:AB:77:U:H2'	2:AB:78:A:H8	1.57	0.66
3:AC:171:ILE:HG12	3:AC:172:HIS:N	2.09	0.66
6:AF:110:LEU:HD23	6:AF:186:ILE:HD11	1.76	0.66
7:AG:8:LYS:HZ1	7:AG:176:LEU:CD1	2.09	0.66
7:AG:120:LEU:HD22	7:AG:181:ARG:CG	2.24	0.66
7:AG:18:GLU:CD	7:AG:22:ARG:HH11	1.97	0.66
7:AG:60:LEU:CB	7:AG:66:GLN:O	2.41	0.66
8:AH:11:VAL:HB	8:AH:50:VAL:HG21	1.75	0.66
9:AK:55:VAL:HG22	9:AK:56:ASN:H	1.59	0.66
10:AL:34:THR:C	10:AL:61:VAL:HG11	2.15	0.66
6:AF:38:ARG:NH1	11:AM:10:PRO:CA	2.58	0.66
11:AM:113:LYS:CB	11:AM:129:ALA:HB1	2.25	0.66
11:AM:114:ILE:HG13	11:AM:123:LEU:HB2	1.78	0.66
11:AM:76:LYS:HD2	11:AM:101:VAL:HG21	1.77	0.66
12:AN:87:LYS:HG2	12:AN:87:LYS:O	1.95	0.66
13:AO:20:LEU:O	13:AO:21:TYR:C	2.33	0.66
15:AQ:93:ARG:NE	15:AQ:93:ARG:N	2.43	0.66
16:AR:97:ASP:HB3	16:AR:101:ARG:NH2	2.10	0.66
17:AS:43:GLU:O	17:AS:43:GLU:OE1	2.13	0.66
17:AS:61:VAL:O	17:AS:99:ILE:CB	2.39	0.66
18:AT:34:ASN:HD22	18:AT:34:ASN:N	1.94	0.66
20:AV:6:HIS:HD2	20:AV:67:LEU:HD11	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:10:LYS:NZ	24:AZ:12:PRO:HG3	2.09	0.66
34:BA:1053:G:C5'	34:BA:1054:C:H5'	2.20	0.66
34:BA:1117:G:N3	34:BA:1184:G:N3	2.43	0.66
34:BA:1138:G:C6	34:BA:1140:C:C6	2.83	0.66
34:BA:1165:C:H2'	34:BA:1166:G:H8	1.60	0.66
34:BA:1326:C:H2'	34:BA:1327:C:H6	1.60	0.66
34:BA:1455:G:C4'	53:BX:31:SER:HG	1.99	0.66
34:BA:259:G:C2	34:BA:260:G:C4	2.83	0.66
34:BA:647:C:C2	34:BA:648:A:C8	2.83	0.66
34:BA:665:A:C8	34:BA:733:A:C2	2.83	0.66
34:BA:959:A:C2'	34:BA:960:U:H4'	2.25	0.66
34:BA:967:C:O5'	34:BA:967:C:H6	1.79	0.66
35:BF:118:LEU:CD1	35:BF:142:LEU:HD12	2.25	0.66
35:BF:80:ILE:CD1	35:BF:212:GLN:HG2	2.25	0.66
37:BH:112:VAL:HG23	37:BH:161:ASN:HD21	1.59	0.66
38:BI:149:GLU:HA	38:BI:152:ARG:HB3	1.77	0.66
41:BL:89:PRO:HB3	41:BL:92:ARG:NH2	2.10	0.66
46:BQ:13:LYS:N	46:BQ:44:ARG:C	2.48	0.66
47:BR:35:ARG:O	47:BR:37:PHE:N	2.28	0.66
49:BT:82:GLN:HG3	49:BT:82:GLN:O	1.94	0.66
50:BU:16:GLN:O	50:BU:17:LYS:HB2	1.95	0.66
50:BU:40:LYS:CB	50:BU:40:LYS:HZ3	2.09	0.66
53:BX:88:VAL:HG12	53:BX:92:LEU:HD11	1.77	0.66
57:BZ:153:ALA:N	57:BZ:154:THR:HA	1.93	0.66
57:BZ:87:ARG:NH2	57:BZ:210:SER:HB3	2.09	0.66
57:BZ:493:GLN:HG2	57:BZ:519:TYR:HB2	1.78	0.66
31:AI:53:VAL:O	31:AI:85:ASP:HA	1.89	0.66
57:BZ:541:LYS:HB3	57:BZ:542:LYS:HB3	1.77	0.66
1:AA:1914:C:C4	1:AA:1915:U:C5	2.83	0.66
1:AA:1105:U:C2	1:AA:1107:G:C5	2.84	0.66
1:AA:1308:A:N3	1:AA:1309:G:H1'	2.11	0.66
1:AA:1289:C:H4'	1:AA:1330:C:H4'	1.77	0.66
1:AA:1500:G:H2'	1:AA:1501:C:C6	2.31	0.66
1:AA:1670:C:OP1	1:AA:1671:U:OP2	2.13	0.66
1:AA:1679:U:H3	1:AA:1764:G:H5''	1.60	0.66
1:AA:1806:C:C4	1:AA:1807:G:N7	2.64	0.66
1:AA:181:A:C8	1:AA:181:A:H5'	2.30	0.66
1:AA:2362:G:O2'	1:AA:2363:C:H5'	1.94	0.66
1:AA:2493:U:C6	1:AA:2493:U:C3'	2.75	0.66
1:AA:292:C:C6	1:AA:293:U:O4	2.49	0.66
1:AA:2506:U:C2	59:AA:3002:8AN:H3'	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:439:G:H2'	1:AA:440:G:C8	2.30	0.66
1:AA:988:A:P	24:AZ:10:LYS:HZ2	2.18	0.66
3:AC:122:ALA:O	3:AC:126:LYS:HB2	1.94	0.66
3:AC:200:LYS:NZ	3:AC:204:ALA:HB3	2.10	0.66
1:AA:2124:G:C3'	3:AC:42:GLU:CD	2.49	0.66
4:AD:133:LEU:O	4:AD:136:ILE:N	2.28	0.66
4:AD:154:LYS:O	4:AD:155:LEU:CB	2.42	0.66
4:AD:222:ARG:O	4:AD:225:ALA:HB2	1.96	0.66
1:AA:1675:C:N4	5:AE:128:SER:OG	2.28	0.66
5:AE:169:ASN:ND2	5:AE:170:LEU:N	2.44	0.66
5:AE:48:GLN:N	5:AE:48:GLN:NE2	2.44	0.66
7:AG:181:ARG:H	7:AG:181:ARG:CD	2.08	0.66
7:AG:29:TRP:C	7:AG:31:VAL:H	1.98	0.66
12:AN:56:ARG:CD	12:AN:57:HIS:N	2.58	0.66
13:AO:49:ASP:O	13:AO:52:ILE:HG22	1.96	0.66
13:AO:70:LEU:HD23	13:AO:70:LEU:N	2.11	0.66
14:AP:9:ARG:CD	14:AP:12:PHE:HE2	2.07	0.66
14:AP:24:LEU:O	14:AP:86:ALA:HB1	1.96	0.66
15:AQ:57:PHE:C	15:AQ:58:ASN:HD22	1.98	0.66
17:AS:78:LYS:HA	17:AS:83:ARG:O	1.96	0.66
18:AT:75:TYR:O	18:AT:104:THR:O	2.14	0.66
18:AT:25:ARG:CD	18:AT:74:ALA:HB3	2.24	0.66
24:AZ:23:LEU:CA	24:AZ:28:LEU:HD12	2.25	0.66
34:BA:1113:C:H6	34:BA:1113:C:O5'	1.78	0.66
34:BA:1185:G:O2'	34:BA:1186:G:H5'	1.95	0.66
34:BA:1200:C:H5''	34:BA:1201:A:H3'	1.77	0.66
34:BA:1269:A:C1'	34:BA:1312:G:H21	2.08	0.66
34:BA:1339:A:H2'	34:BA:1340:A:C5'	2.22	0.66
34:BA:1514:C:H2'	34:BA:1515:C:H6	1.58	0.66
34:BA:236:G:H2'	34:BA:237:C:C6	2.31	0.66
34:BA:611:A:N6	34:BA:629:G:N1	2.25	0.66
35:BF:101:MET:C	35:BF:103:THR:H	1.99	0.66
35:BF:126:GLU:O	35:BF:129:GLU:HB2	1.96	0.66
35:BF:91:PRO:HG2	35:BF:155:LEU:HD23	1.78	0.66
35:BF:163:PHE:CD2	35:BF:164:VAL:N	2.64	0.66
36:BG:143:GLU:O	36:BG:145:GLY:N	2.27	0.66
36:BG:52:LEU:O	36:BG:53:ALA:HB2	1.93	0.66
36:BG:67:THR:HG22	36:BG:104:GLN:CG	2.24	0.66
39:BJ:12:PRO:CB	39:BJ:58:GLY:HA2	2.20	0.66
40:BK:140:ASP:O	40:BK:144:MET:CB	2.43	0.66
34:BA:597:G:N2	41:BL:94:TYR:CE2	2.57	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:121:ARG:HG2	42:BM:121:ARG:HH11	1.60	0.66
42:BM:53:VAL:HG11	42:BM:92:TYR:OH	1.96	0.66
44:BO:62:GLN:OE1	44:BO:63:LEU:HB2	1.95	0.66
45:BP:84:LEU:N	45:BP:104:VAL:HG11	2.10	0.66
46:BQ:81:LEU:N	46:BQ:81:LEU:HD13	2.09	0.66
47:BR:52:GLN:C	47:BR:53:LEU:HD23	2.16	0.66
46:BQ:86:CYS:HA	52:BW:74:PHE:CD2	2.31	0.66
57:BZ:179:MET:HB2	57:BZ:181:GLU:O	1.94	0.66
57:BZ:239:ILE:CG1	57:BZ:244:GLY:HA3	2.25	0.66
57:BZ:556:VAL:O	57:BZ:557:LEU:CG	2.43	0.66
55:BC:38:A:C6	55:BC:39:U:C6	2.83	0.66
41:BL:54:ASP:HB2	41:BL:56:LYS:HD3	1.77	0.66
1:AA:1044:G:C2	1:AA:1046:A:N7	2.64	0.66
1:AA:1378:A:H2'	1:AA:1380:G:N7	2.11	0.66
1:AA:1477:A:C3'	1:AA:1478:G:O4'	2.43	0.66
1:AA:150:C:O2'	1:AA:151:C:H5'	1.95	0.66
1:AA:1520:U:C3'	1:AA:1521:G:H5''	2.26	0.66
1:AA:1591:G:C4	1:AA:1592:C:C5	2.83	0.66
1:AA:1779:U:H3'	1:AA:1779:U:H6	1.61	0.66
1:AA:1800:C:O2'	1:AA:1802:A:O4'	2.12	0.66
1:AA:2004:G:N7	1:AA:2005:A:N7	2.43	0.66
1:AA:2051:A:C1'	5:AE:141:ILE:HD11	2.25	0.66
1:AA:2123:G:H2'	3:AC:215:THR:HG23	1.78	0.66
1:AA:216:A:H2'	1:AA:217:G:H8	1.58	0.66
1:AA:2178:C:C5'	3:AC:46:LYS:HZ3	2.09	0.66
1:AA:2213:U:C3'	1:AA:2213:U:O2	2.43	0.66
1:AA:2225:A:C5'	1:AA:2226:C:H6	2.08	0.66
1:AA:2286:A:H3'	1:AA:2286:A:C8	2.31	0.66
1:AA:2296:U:C6	1:AA:2296:U:C3'	2.79	0.66
1:AA:2312:U:P	7:AG:86:MET:HG2	2.36	0.66
1:AA:2392:A:H2'	1:AA:2393:A:O5'	1.95	0.66
1:AA:411:G:N3	1:AA:2408:U:O4	2.28	0.66
1:AA:199:A:C5	1:AA:2433:A:C2	2.84	0.66
1:AA:2472:G:H5''	57:BZ:529:ARG:HG3	1.77	0.66
1:AA:2075:U:O4'	1:AA:2597:G:N2	2.29	0.66
1:AA:2780:G:N2	9:AK:97:ARG:HH22	1.94	0.66
1:AA:401:A:N6	1:AA:423:A:C2	2.63	0.66
1:AA:470:A:C6	1:AA:471:A:N3	2.63	0.66
1:AA:663:G:H4'	11:AM:18:ARG:CZ	2.26	0.66
2:AB:110:G:H2'	2:AB:111:U:O4'	1.95	0.66
4:AD:159:ALA:O	4:AD:196:VAL:HG21	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:5:LEU:C	5:AE:5:LEU:HD22	2.15	0.66
1:AA:2635:C:O3'	5:AE:78:LEU:HD12	1.96	0.66
5:AE:92:THR:C	5:AE:94:GLU:N	2.49	0.66
5:AE:98:PRO:HD3	5:AE:175:VAL:CG1	2.25	0.66
1:AA:38:A:N3	6:AF:48:THR:HG21	2.10	0.66
7:AG:103:LEU:HD21	7:AG:176:LEU:HD11	1.78	0.66
7:AG:19:LEU:O	7:AG:22:ARG:HG2	1.96	0.66
8:AH:171:LEU:HA	8:AH:172:LYS:HZ2	1.61	0.66
8:AH:7:LEU:C	8:AH:51:ARG:NH2	2.48	0.66
8:AH:9:ILE:HD11	8:AH:69:ARG:HH22	1.60	0.66
32:AJ:105:LEU:HD23	32:AJ:123:ALA:CB	2.24	0.66
32:AJ:76:TYR:HD2	32:AJ:80:LYS:HD2	1.61	0.66
9:AK:103:VAL:HG22	9:AK:104:LYS:CD	2.26	0.66
9:AK:17:ASP:HB3	9:AK:21:LYS:HE3	1.76	0.66
9:AK:23:LEU:HD23	9:AK:60:ILE:CG2	2.25	0.66
10:AL:84:ALA:CB	10:AL:114:ILE:HD11	2.26	0.66
10:AL:97:ARG:NH1	10:AL:98:VAL:N	2.42	0.66
13:AO:61:HIS:C	13:AO:64:ARG:HD3	2.14	0.66
17:AS:25:LEU:HA	17:AS:28:GLU:CD	2.16	0.66
20:AV:31:LEU:HB3	20:AV:32:PRO:HD2	1.76	0.66
34:BA:1405:G:H2'	34:BA:1406:U:H6	1.61	0.66
34:BA:1454:G:H5''	53:BX:36:LEU:CA	1.93	0.66
34:BA:168:G:C6	34:BA:169:C:N4	2.63	0.66
34:BA:185:A:H2'	34:BA:186:C:C6	2.30	0.66
34:BA:834:C:N4	34:BA:853:G:C6	2.63	0.66
34:BA:945:G:H1'	34:BA:1337:G:O2'	1.96	0.66
56:BE:2:C:C5	56:BE:70:G:O6	2.47	0.66
35:BF:185:ILE:CG2	35:BF:199:TYR:HB2	2.26	0.66
34:BA:1206:G:H5'	36:BG:194:GLY:CA	2.23	0.66
36:BG:35:GLU:HA	36:BG:38:ARG:HG3	1.76	0.66
37:BH:146:ILE:N	37:BH:146:ILE:HD12	2.10	0.66
37:BH:2:GLY:O	37:BH:4:TYR:N	2.25	0.66
38:BI:81:GLU:CA	38:BI:90:VAL:HG22	2.25	0.66
41:BL:100:ILE:HD13	41:BL:125:ARG:HE	1.60	0.66
41:BL:101:PRO:O	41:BL:102:ARG:CB	2.43	0.66
42:BM:9:ARG:CD	42:BM:14:VAL:HG22	2.22	0.66
34:BA:1060:C:H4'	43:BN:52:GLY:CA	2.26	0.66
47:BR:24:CYS:SG	47:BR:27:CYS:N	2.68	0.66
34:BA:581:G:H4'	48:BS:64:ARG:HH12	1.60	0.66
51:BV:55:ARG:HH11	51:BV:55:ARG:CB	2.06	0.66
52:BW:6:LYS:HD2	52:BW:7:LYS:H	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:20:THR:O	57:BZ:24:LYS:HG2	1.96	0.66
57:BZ:220:VAL:O	57:BZ:274:VAL:CG1	2.42	0.66
57:BZ:493:GLN:HA	57:BZ:519:TYR:HA	1.76	0.66
1:AA:115:C:O2'	1:AA:116:C:H5'	1.95	0.66
1:AA:1332:G:N7	1:AA:1609:A:N6	2.42	0.66
1:AA:195:A:N7	1:AA:197:A:OP1	2.29	0.66
1:AA:2023:G:O2'	1:AA:2024:G:H5'	1.95	0.66
1:AA:2129:C:C4'	3:AC:6:ARG:CD	2.72	0.66
1:AA:2181:G:H5'	55:BC:17:C:C5	2.30	0.66
1:AA:2252:G:N1	59:AA:3003:8AN:N3	2.25	0.66
1:AA:2587:A:O2'	1:AA:2588:G:H5'	1.96	0.66
1:AA:2660:A:C2	57:BZ:456:MET:CA	2.78	0.66
1:AA:2687:U:C2	1:AA:2688:U:C6	2.82	0.66
1:AA:270(J):G:C6	1:AA:270(K):C:N3	2.64	0.66
1:AA:280:C:N4	1:AA:283:A:N6	2.44	0.66
1:AA:2692:C:C2'	1:AA:2847:U:HO2'	2.08	0.66
1:AA:296:C:C6	1:AA:338:G:N2	2.64	0.66
1:AA:531:C:H5'	1:AA:532:A:N3	2.10	0.66
1:AA:558:G:H2'	1:AA:559:G:H5'	1.78	0.66
1:AA:779:U:H2'	1:AA:780:G:O4'	1.95	0.66
1:AA:894:C:O2'	1:AA:895:U:H5'	1.95	0.66
1:AA:977:G:H2'	1:AA:978:G:C4'	2.26	0.66
2:AB:57:A:H3'	2:AB:57:A:H8	1.60	0.66
2:AB:75:G:H22	21:AW:87:ASP:CG	1.98	0.66
1:AA:2123:G:C4'	3:AC:172:HIS:HB3	2.10	0.66
4:AD:181:GLU:HA	4:AD:270:ILE:CD1	2.25	0.66
4:AD:209:ALA:O	4:AD:210:GLY:C	2.34	0.66
4:AD:80:ALA:HB2	4:AD:96:HIS:ND1	2.11	0.66
6:AF:192:LEU:HD22	6:AF:193:VAL:N	2.10	0.66
8:AH:28:GLY:HA3	8:AH:79:VAL:O	1.95	0.66
32:AJ:21:PRO:HD2	32:AJ:22:PRO:CD	2.23	0.66
9:AK:104:LYS:HA	9:AK:117:PHE:CE2	2.31	0.66
9:AK:23:LEU:HD21	9:AK:61:ARG:O	1.94	0.66
1:AA:1244:G:H5'	11:AM:9:ASN:HB2	1.78	0.66
13:AO:47:PHE:C	13:AO:49:ASP:N	2.43	0.66
13:AO:97:VAL:C	13:AO:98:LEU:HG	2.14	0.66
14:AP:87:PHE:CG	14:AP:88:ASP:N	2.62	0.66
15:AQ:61:PHE:O	15:AQ:62:THR:HG23	1.96	0.66
15:AQ:64:ARG:NE	15:AQ:77:PRO:CB	2.59	0.66
15:AQ:82:LEU:O	15:AQ:85:LYS:NZ	2.28	0.66
17:AS:3:ALA:CB	17:AS:44:LYS:HZ2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:28:SER:CA	18:AT:70:TYR:HA	2.23	0.66
20:AV:95:LYS:HE3	20:AV:103:GLY:N	2.11	0.66
21:AW:118:GLN:NE2	21:AW:120:ILE:HG23	2.09	0.66
21:AW:57:ILE:HD11	21:AW:70:LEU:HG	1.78	0.66
23:AY:23:LYS:HE3	23:AY:55:LEU:HD21	1.78	0.66
24:AZ:40:THR:CG2	24:AZ:42:ALA:HB3	2.26	0.66
34:BA:129(A):G:H3'	34:BA:129(A):G:H8	1.61	0.66
34:BA:191(D):U:H2'	34:BA:191(E):G:H8	1.59	0.66
34:BA:380:G:H21	34:BA:382:A:H3'	1.60	0.66
34:BA:47:C:O2'	34:BA:48:C:P	2.52	0.66
34:BA:486:U:C2'	34:BA:487:A:O5'	2.44	0.66
34:BA:877:C:O2'	41:BL:3:THR:HG21	1.96	0.66
34:BA:963:G:H2'	34:BA:964:A:H8	1.61	0.66
35:BF:69:LEU:HB2	35:BF:159:PRO:HB2	1.76	0.66
35:BF:72:GLY:HA2	35:BF:165:VAL:CG2	2.25	0.66
36:BG:136:GLN:O	36:BG:139:GLN:HB2	1.96	0.66
34:BA:1190:G:OP2	36:BG:5:ILE:HG13	1.96	0.66
37:BH:101:LEU:HD23	37:BH:135:LEU:O	1.96	0.66
37:BH:141:ARG:HH11	37:BH:142:PRO:HD2	1.60	0.66
37:BH:61:LYS:CB	37:BH:203:VAL:HG13	2.24	0.66
38:BI:17:ALA:HA	38:BI:26:PHE:HD2	1.61	0.66
40:BK:43:PHE:HD2	40:BK:44:TYR:CE2	2.13	0.66
41:BL:29:SER:CB	41:BL:32:LYS:HZ3	2.08	0.66
41:BL:31:PHE:O	41:BL:35:ILE:HG12	1.96	0.66
41:BL:70:GLN:HB2	41:BL:73:ASP:O	1.95	0.66
45:BP:53:ARG:NE	45:BP:92:ASP:OD2	2.29	0.66
34:BA:255:G:C4'	50:BU:16:GLN:O	2.44	0.66
34:BA:1014:A:O2'	52:BW:34:TRP:CZ3	2.48	0.66
53:BX:25:ARG:HH11	53:BX:25:ARG:HG3	1.61	0.66
53:BX:28:ALA:O	53:BX:31:SER:OG	2.13	0.66
53:BX:53:LEU:HD21	53:BX:92:LEU:HD13	1.78	0.66
57:BZ:132:ARG:HB3	57:BZ:133:PRO:CD	2.25	0.66
57:BZ:564:THR:CA	57:BZ:566:GLU:HG3	2.26	0.66
57:BZ:586:ARG:HH21	57:BZ:586:ARG:HB3	1.61	0.66
57:BZ:57:LEU:O	57:BZ:58:ALA:O	2.13	0.66
57:BZ:79:ALA:HA	57:BZ:80:ASP:CB	2.24	0.66
1:AA:1081:U:C4	1:AA:1086:A:H2	2.14	0.66
1:AA:1048:A:N1	1:AA:1113:U:C5'	2.57	0.66
1:AA:1391:U:H2'	1:AA:1391:U:O2	1.95	0.66
1:AA:1668:A:N7	1:AA:1674:G:C4	2.63	0.66
1:AA:1907:G:H2'	1:AA:1908:C:C6	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1935:G:C2'	1:AA:1962:C:N4	2.57	0.66
1:AA:2009:G:O2'	1:AA:2010:G:H5'	1.95	0.66
1:AA:530:G:H1	1:AA:2022:U:P	2.17	0.66
1:AA:241:A:O2'	1:AA:242:G:H4'	1.95	0.66
1:AA:2564:A:H5'	1:AA:2649:U:OP1	1.95	0.66
1:AA:2832:U:H1'	1:AA:2834:G:N3	2.10	0.66
1:AA:378:C:O2'	1:AA:379:G:H5'	1.95	0.66
1:AA:629:G:H1'	1:AA:639:U:O2'	1.95	0.66
1:AA:751:A:O4'	18:AT:90:ARG:HD3	1.95	0.66
1:AA:76:C:O2'	23:AY:54:ARG:HA	1.96	0.66
1:AA:784:A:OP1	1:AA:2588:G:C5'	2.44	0.66
1:AA:875:G:C6	1:AA:902:C:N3	2.64	0.66
4:AD:131:LEU:CG	4:AD:132:PRO:HD2	2.22	0.66
4:AD:7:LYS:HZ2	4:AD:91:ARG:HD2	1.60	0.66
4:AD:8:PRO:CD	4:AD:26:LYS:O	2.44	0.66
5:AE:44:TYR:CD2	5:AE:45:THR:N	2.61	0.66
6:AF:11:VAL:CG1	6:AF:127:GLU:HB2	2.24	0.66
6:AF:45:ARG:HG3	6:AF:46:ARG:H	1.60	0.66
6:AF:74:ARG:NH1	6:AF:76:GLY:H	1.94	0.66
7:AG:93:THR:O	7:AG:93:THR:HG22	1.95	0.66
8:AH:119:GLU:N	8:AH:121:ILE:HG22	2.10	0.66
8:AH:149:ARG:HA	8:AH:162:ILE:HG21	1.77	0.66
32:AJ:104:VAL:HG13	32:AJ:127:ILE:HD13	0.68	0.66
32:AJ:12:LEU:HB3	32:AJ:13:PRO:HD3	1.76	0.66
32:AJ:17:ALA:CB	32:AJ:41:PHE:C	2.54	0.66
32:AJ:90:LYS:HE2	32:AJ:90:LYS:N	2.11	0.66
9:AK:15:LEU:HD21	9:AK:137:LYS:CB	2.26	0.66
10:AL:103:ALA:HB1	10:AL:107:ARG:CD	2.26	0.66
10:AL:4:PRO:O	10:AL:6:THR:HG22	1.96	0.66
1:AA:1665:A:H4'	10:AL:66:LYS:HB2	1.77	0.66
11:AM:96:THR:OG1	11:AM:102:ARG:HD3	1.96	0.66
13:AO:6:SER:OG	13:AO:9:LYS:NZ	2.27	0.66
14:AP:10:ARG:HH11	14:AP:89:ARG:HH12	1.44	0.66
14:AP:42:ASP:O	14:AP:44:LYS:N	2.27	0.66
15:AQ:20:PRO:HA	15:AQ:22:PHE:CZ	2.31	0.66
15:AQ:53:ARG:HH21	15:AQ:102:ILE:HD13	1.61	0.66
15:AQ:63:VAL:CG1	15:AQ:63:VAL:O	2.44	0.66
17:AS:72:VAL:HG12	17:AS:73:SER:H	1.61	0.66
23:AY:35:SER:HA	23:AY:38:GLN:OE1	1.95	0.66
24:AZ:10:LYS:NZ	24:AZ:12:PRO:CG	2.58	0.66
34:BA:1117:G:C5	34:BA:1184:G:C5	2.81	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1151:A:N6	34:BA:1152:A:N6	2.43	0.66
34:BA:1239:A:C2	34:BA:1298:C:C5	2.83	0.66
34:BA:178:C:C2	34:BA:179:A:C8	2.84	0.66
34:BA:671:G:H2'	34:BA:672:U:C1'	2.25	0.66
34:BA:858:G:N2	34:BA:869:G:C3'	2.56	0.66
34:BA:948:C:OP1	46:BQ:109:THR:CB	2.44	0.66
35:BF:84:GLU:N	35:BF:234:PRO:HG3	2.10	0.66
38:BI:105:VAL:HG12	38:BI:106:PRO:N	2.09	0.66
40:BK:70:LYS:HA	40:BK:100:ALA:CB	2.25	0.66
42:BM:37:PHE:N	42:BM:37:PHE:CD2	2.62	0.66
42:BM:51:ARG:CA	42:BM:51:ARG:HH11	2.07	0.66
43:BN:11:PHE:CZ	43:BN:65:LEU:HG	2.31	0.66
46:BQ:12:ASN:C	46:BQ:44:ARG:HG3	2.08	0.66
34:BA:1114:C:O2'	47:BR:60:SER:HB3	1.96	0.66
48:BS:34:LEU:HD12	48:BS:38:ARG:HE	1.61	0.66
48:BS:34:LEU:CG	48:BS:35:ARG:H	2.09	0.66
50:BU:57:VAL:HG23	50:BU:58:GLU:N	2.10	0.66
57:BZ:157:GLN:HG2	57:BZ:158:LEU:HD13	1.78	0.66
1:AA:1024:G:H3'	1:AA:1025:G:C5'	2.26	0.66
1:AA:1023:U:P	1:AA:1025:G:H1	2.19	0.66
1:AA:83:G:H1	1:AA:102:G:HO2'	1.44	0.66
1:AA:1070:A:H5''	1:AA:1071:G:OP1	1.96	0.66
1:AA:1025:G:H1'	1:AA:1134:G:O4'	1.95	0.66
1:AA:1174:A:N6	1:AA:1177:A:C6	2.59	0.66
1:AA:974:G:O2'	1:AA:1186:G:C4	2.45	0.66
1:AA:1208:C:N4	1:AA:1209:G:O6	2.28	0.66
1:AA:330:A:C2	1:AA:1210:A:H2'	2.30	0.66
1:AA:1249:U:O4	11:AM:21:ARG:CZ	2.44	0.66
1:AA:1604:C:O2'	1:AA:1605:C:H5'	1.95	0.66
1:AA:1759:A:O2'	1:AA:1760:A:H5'	1.96	0.66
1:AA:176:G:C2'	1:AA:177:G:O4'	2.42	0.66
1:AA:1814:G:H5''	1:AA:1815:A:OP2	1.96	0.66
1:AA:206:U:OP2	1:AA:206:U:C6	2.49	0.66
1:AA:2564:A:C2'	1:AA:2565:A:C8	2.72	0.66
1:AA:2681:C:H5	1:AA:2727:G:C2	2.14	0.66
1:AA:2777:G:H3'	1:AA:2777:G:H8	1.59	0.66
1:AA:460:A:H3'	1:AA:461:C:C6	2.31	0.66
1:AA:501:A:C6	1:AA:502:A:N1	2.63	0.66
1:AA:13:A:N6	1:AA:525:U:N1	2.44	0.66
1:AA:583:G:O2'	1:AA:584:C:H5'	1.96	0.66
1:AA:66:C:H2'	1:AA:67:U:C5'	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:703:U:H2'	1:AA:704:G:C1'	2.26	0.66
1:AA:71:A:H5''	1:AA:73:A:C8	2.30	0.66
1:AA:763:G:HO2'	1:AA:764:A:H5''	1.60	0.66
1:AA:777:A:O2'	1:AA:778:G:H5'	1.95	0.66
2:AB:3:C:H2'	2:AB:4:C:H6	1.60	0.66
1:AA:2210:G:N7	4:AD:150:LYS:HA	2.09	0.66
4:AD:71:ASP:O	4:AD:72:LYS:HB2	1.95	0.66
4:AD:84:TYR:CG	4:AD:91:ARG:HG3	2.31	0.66
5:AE:154:LYS:HZ1	5:AE:156:MET:HB2	1.59	0.66
5:AE:59:VAL:CB	5:AE:62:PRO:HD2	2.26	0.66
1:AA:605:C:OP1	6:AF:104:LYS:HB2	1.96	0.66
7:AG:37:VAL:HG13	7:AG:159:VAL:HA	1.76	0.66
8:AH:52:VAL:HG11	8:AH:69:ARG:HB3	1.77	0.66
8:AH:76:VAL:HG23	8:AH:77:LYS:H	1.57	0.66
9:AK:128:HIS:O	9:AK:131:GLN:HB2	1.95	0.66
9:AK:88:GLU:HB2	9:AK:89:LYS:HE2	1.78	0.66
10:AL:13:ASN:OD1	10:AL:52:VAL:HG12	1.96	0.66
1:AA:623:G:C8	11:AM:105:LEU:CD1	2.79	0.66
12:AN:109:VAL:HG11	12:AN:114:ALA:H	1.61	0.66
12:AN:16:ARG:NH1	12:AN:72:LYS:HA	2.11	0.66
12:AN:6:ARG:CB	12:AN:44:ALA:HB1	2.21	0.66
16:AR:99:ALA:HA	16:AR:106:PHE:CB	2.26	0.66
16:AR:81:HIS:HB3	16:AR:117:GLN:CD	2.16	0.66
16:AR:94:ASN:HD22	17:AS:6:LYS:HZ1	1.42	0.66
20:AV:74:PRO:CB	20:AV:101:LYS:N	2.59	0.66
20:AV:49:VAL:HB	20:AV:51:VAL:H	1.61	0.66
21:AW:11:GLU:HG3	21:AW:36:LYS:NZ	2.11	0.66
21:AW:4:ARG:CG	21:AW:38:TYR:O	2.44	0.66
22:AX:46:LYS:HE2	22:AX:77:ARG:N	2.11	0.66
24:AZ:3:ARG:CZ	24:AZ:3:ARG:HB3	2.25	0.66
24:AZ:4:LEU:HD23	24:AZ:5:LYS:N	2.10	0.66
34:BA:1148:U:O2'	34:BA:1149:C:H5'	1.96	0.66
34:BA:1181:G:C2'	34:BA:1182:G:H5'	2.26	0.66
34:BA:1219:U:P	47:BR:19:ARG:HH22	2.19	0.66
34:BA:1378:C:O2	34:BA:1378:C:C2'	2.44	0.66
34:BA:192:U:C2	34:BA:193:C:C5	2.83	0.66
34:BA:397:A:O2'	34:BA:399:G:OP2	2.14	0.66
34:BA:686:U:O2'	34:BA:687:A:OP1	2.14	0.66
34:BA:981:U:O5'	34:BA:981:U:H6	1.79	0.66
56:BE:21:A:C2	56:BE:46:G:N2	2.64	0.66
35:BF:103:THR:O	35:BF:104:ASN:HB3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:17:PHE:CA	35:BF:42:ILE:HG22	2.25	0.66
35:BF:61:LEU:HA	35:BF:64:ARG:CD	2.25	0.66
36:BG:59:ARG:CZ	36:BG:59:ARG:HB2	2.26	0.66
37:BH:149:ALA:O	37:BH:152:SER:HB3	1.95	0.66
37:BH:144:ASP:C	37:BH:184:LYS:HD3	2.16	0.66
38:BI:61:TYR:HA	38:BI:64:ARG:CG	2.25	0.66
40:BK:12:LEU:O	40:BK:12:LEU:HD12	1.94	0.66
41:BL:84:ARG:CB	41:BL:84:ARG:HH11	1.99	0.66
43:BN:89:ASP:O	43:BN:90:LEU:HG	1.95	0.66
45:BP:58:VAL:HG12	45:BP:59:ARG:N	2.10	0.66
45:BP:85:ILE:HD11	45:BP:98:TYR:HB3	1.75	0.66
46:BQ:64:TRP:C	46:BQ:65:LYS:HD3	2.15	0.66
46:BQ:65:LYS:HB2	46:BQ:69:GLU:CB	2.19	0.66
57:BZ:267:LEU:CG	57:BZ:268:ALA:H	2.08	0.66
57:BZ:8:ILE:HG23	57:BZ:72:ILE:CD1	2.23	0.66
56:BD:47:U:O2'	56:BD:48:C:H5''	1.95	0.66
56:BD:48:C:OP1	56:BD:49:C:H5''	1.96	0.66
23:AY:7:GLU:HA	23:AY:10:LYS:HG2	1.77	0.66
23:AY:6:GLU:C	23:AY:10:LYS:HE2	2.16	0.66
1:AA:1181:C:H2'	1:AA:1182:A:C1'	2.25	0.66
1:AA:1166:C:O2	1:AA:1184:G:N2	2.29	0.66
1:AA:1226:G:H8	1:AA:1226:G:H3'	1.61	0.66
1:AA:1212:G:C6	1:AA:1236:G:O6	2.49	0.66
1:AA:1203:G:C5	1:AA:1240:U:N3	2.63	0.66
1:AA:1567:A:N1	4:AD:85:ASP:CA	2.60	0.66
1:AA:1363:C:O3'	1:AA:1809:A:C6	2.48	0.66
1:AA:1916:A:C6	34:BA:1409:C:C5'	2.79	0.66
1:AA:1920:C:H1'	1:AA:1921:G:O5'	1.96	0.66
1:AA:1993:U:H6	1:AA:1993:U:H3'	1.61	0.66
1:AA:2063:C:H3'	1:AA:2064:C:C5'	2.21	0.66
1:AA:2075:U:O4	1:AA:2077:A:N7	2.29	0.66
1:AA:226:G:O2'	1:AA:228:A:N1	2.29	0.66
1:AA:2631:G:H4'	1:AA:2892:A:O5'	1.95	0.66
1:AA:2661:G:O2'	1:AA:2662:A:H5'	1.96	0.66
1:AA:407:G:H2'	1:AA:408:G:C8	2.31	0.66
1:AA:503:A:N1	1:AA:505:A:N6	2.44	0.66
1:AA:523:C:O2'	1:AA:524:U:H5'	1.95	0.66
1:AA:586:A:N1	1:AA:810:U:H5'	2.10	0.66
1:AA:871:U:H2'	1:AA:872:A:C8	2.31	0.66
2:AB:110:G:C2	2:AB:111:U:H1'	2.31	0.66
2:AB:47:C:H2'	2:AB:48:A:H5'	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:68:LEU:HB3	3:AC:157:LYS:O	1.94	0.66
3:AC:86:ALA:HB2	3:AC:149:ILE:C	2.17	0.66
4:AD:233:HIS:ND1	4:AD:233:HIS:N	2.45	0.66
1:AA:2597:G:H5'	4:AD:242:ARG:HE	1.59	0.66
4:AD:91:ARG:N	4:AD:91:ARG:HH11	1.94	0.66
5:AE:102:VAL:CG2	5:AE:103:ASP:N	2.59	0.66
5:AE:164:ARG:C	5:AE:165:VAL:CG2	2.64	0.66
5:AE:92:THR:HG22	5:AE:92:THR:O	1.94	0.66
6:AF:44:ARG:HG3	6:AF:45:ARG:N	2.10	0.66
8:AH:87:LEU:O	8:AH:131:VAL:O	2.13	0.66
1:AA:1046:A:H61	31:AI:9:LEU:N	1.78	0.66
9:AK:89:LYS:HA	9:AK:92:ALA:CB	2.26	0.66
10:AL:41:ALA:O	10:AL:56:ASP:HA	1.95	0.66
11:AM:121:LYS:H	11:AM:137:LYS:HB2	1.59	0.66
11:AM:7:ARG:HD2	11:AM:7:ARG:N	2.10	0.66
13:AO:17:ARG:CG	13:AO:18:LEU:H	2.09	0.66
14:AP:29:PHE:CD1	14:AP:29:PHE:O	2.48	0.66
14:AP:49:VAL:CB	14:AP:80:LEU:HG	2.25	0.66
1:AA:2876:G:C5'	15:AQ:1:MET:H2	2.08	0.66
17:AS:62:LEU:CD2	17:AS:98:GLU:HA	2.21	0.66
17:AS:69:LYS:CG	17:AS:70:ILE:H	2.07	0.66
17:AS:6:LYS:NZ	17:AS:10:LYS:HD2	2.10	0.66
18:AT:13:SER:OG	18:AT:14:PRO:CD	2.36	0.66
20:AV:37:VAL:HG22	20:AV:39:VAL:HG23	1.77	0.66
21:AW:24:LEU:HD13	21:AW:83:PRO:HG2	1.78	0.66
21:AW:94:GLU:O	21:AW:94:GLU:HG2	1.96	0.66
22:AX:22:GLY:O	22:AX:38:VAL:HG13	1.95	0.66
34:BA:1227:A:H4'	46:BQ:115:LYS:NZ	2.11	0.66
34:BA:1263:C:C2	34:BA:1264:C:C5	2.84	0.66
34:BA:1317:C:C2	34:BA:1318:A:N9	2.64	0.66
34:BA:1366:C:O2'	34:BA:1367:C:H5'	1.96	0.66
34:BA:1409:C:O2	34:BA:1410:G:C8	2.49	0.66
34:BA:192:U:H2'	34:BA:193:C:H6	1.59	0.66
34:BA:434:U:H2'	34:BA:435:C:H6	1.60	0.66
34:BA:767:A:N6	34:BA:768:A:C6	2.64	0.66
34:BA:931:C:H2'	34:BA:932:C:C5	2.31	0.66
35:BF:80:ILE:HG21	35:BF:211:ILE:HG21	1.78	0.66
35:BF:68:ILE:O	35:BF:90:MET:HB3	1.96	0.66
36:BG:151:VAL:HG12	36:BG:152:ILE:N	2.09	0.66
36:BG:24:ALA:HB1	36:BG:28:GLN:NE2	2.11	0.66
36:BG:28:GLN:N	36:BG:30:ARG:NE	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:55:VAL:HG13	36:BG:68:VAL:HG22	1.77	0.66
36:BG:94:LEU:O	36:BG:95:THR:HG23	1.96	0.66
37:BH:117:ALA:O	37:BH:121:VAL:HG23	1.95	0.66
37:BH:57:ARG:HH22	38:BI:107:ARG:HD3	1.60	0.66
39:BJ:78:GLU:O	39:BJ:81:ILE:HD12	1.96	0.66
34:BA:1373:G:H5''	40:BK:36:LYS:HD2	1.76	0.66
36:BG:5:ILE:HG23	43:BN:51:ARG:HH12	1.61	0.66
34:BA:528:C:H42	45:BP:49:ASN:HD21	1.43	0.66
45:BP:60:LEU:CD1	45:BP:64:TYR:HB3	2.26	0.66
44:BO:110:ASP:CB	51:BV:88:LYS:HD2	2.26	0.66
52:BW:9:VAL:HG22	52:BW:42:PRO:CD	2.26	0.66
57:BZ:446:ARG:HG3	57:BZ:480:VAL:CG1	2.19	0.66
57:BZ:18:LYS:HD2	60:BZ:701:GCP:O3G	1.96	0.66
57:BZ:507:ARG:C	57:BZ:528:SER:HG	1.98	0.66
1:AA:1059:G:C4'	32:AJ:74:ALA:N	2.57	0.65
1:AA:1124:C:H3'	1:AA:1125:G:H8	1.60	0.65
1:AA:1359:A:N6	1:AA:1360:A:N7	2.44	0.65
1:AA:1386:C:H2'	1:AA:1387:C:H6	1.60	0.65
1:AA:1406:U:C2	1:AA:1407:C:C5	2.84	0.65
1:AA:1630:G:H2'	1:AA:1630(A):C:H6	1.61	0.65
1:AA:1797:C:H2'	1:AA:1798:U:C5	2.31	0.65
1:AA:1952:A:C5	1:AA:1953:A:C2	2.84	0.65
1:AA:1992:G:C1'	1:AA:1993:U:C5	2.80	0.65
1:AA:528:A:N1	1:AA:2043:C:OP2	2.29	0.65
1:AA:2098:U:H2'	1:AA:2099:U:H6	1.61	0.65
1:AA:2115:G:N3	1:AA:2117:A:N7	2.43	0.65
1:AA:221:A:H8	1:AA:221:A:H3'	1.61	0.65
1:AA:226:G:C2	1:AA:227:A:C2	2.84	0.65
1:AA:2369:A:H61	1:AA:2382:G:N2	1.93	0.65
1:AA:2408:U:O5'	1:AA:2408:U:C6	2.43	0.65
1:AA:2439:A:H4'	1:AA:2440:C:C5'	2.26	0.65
1:AA:2491:U:N1	1:AA:2492:U:H5'	2.10	0.65
1:AA:2507:C:H4'	56:BD:75:C:C2	2.31	0.65
1:AA:2529:G:H5''	1:AA:2530:A:H5''	1.77	0.65
1:AA:2690:C:C6	1:AA:2690:C:C3'	2.78	0.65
1:AA:2690:C:C3'	1:AA:2690:C:H6	2.09	0.65
1:AA:2747:G:C4	1:AA:2756:U:O4	2.49	0.65
1:AA:2820:A:C2'	1:AA:2821:A:OP1	2.44	0.65
1:AA:729:G:N9	1:AA:730:C:H1'	2.10	0.65
1:AA:838:C:H2'	1:AA:839:U:C6	2.31	0.65
1:AA:865:C:O2	1:AA:865:C:H2'	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:976:C:O2	1:AA:977:G:H8	1.79	0.65
2:AB:14:U:H6	2:AB:14:U:H3'	1.60	0.65
2:AB:75:G:H4'	21:AW:36:LYS:NZ	2.10	0.65
3:AC:82:LYS:HE3	3:AC:147:PHE:CD1	2.23	0.65
4:AD:134:ARG:HA	4:AD:168:ARG:CZ	2.26	0.65
4:AD:55:GLY:H	4:AD:218:ARG:CD	2.09	0.65
4:AD:54:ARG:HB3	4:AD:218:ARG:HD2	1.78	0.65
5:AE:13:ARG:HE	5:AE:21:VAL:C	1.99	0.65
5:AE:59:VAL:HB	5:AE:62:PRO:HD2	1.78	0.65
6:AF:125:LEU:O	6:AF:126:VAL:HG12	1.96	0.65
6:AF:131:GLY:O	6:AF:133:ASN:N	2.29	0.65
6:AF:131:GLY:CA	6:AF:138:GLU:HB2	2.26	0.65
7:AG:16:ARG:HD2	7:AG:20:ILE:CG1	2.25	0.65
7:AG:68:PRO:HG3	7:AG:90:LEU:HD21	1.77	0.65
1:AA:2746:U:C5'	8:AH:139:GLN:HA	2.25	0.65
8:AH:148:ILE:HG23	8:AH:162:ILE:CD1	2.25	0.65
8:AH:167:GLU:O	8:AH:169:VAL:N	2.29	0.65
8:AH:40:GLU:HG3	8:AH:61:HIS:NE2	2.11	0.65
32:AJ:84:LEU:HD12	32:AJ:86:LYS:CE	2.17	0.65
9:AK:37:LYS:HD2	9:AK:42:TRP:O	1.95	0.65
9:AK:16:ILE:HD12	9:AK:53:VAL:O	1.96	0.65
10:AL:18:LYS:NZ	10:AL:44:LYS:NZ	2.44	0.65
10:AL:63:VAL:HB	10:AL:78:ARG:CG	2.26	0.65
11:AM:126:VAL:HA	11:AM:145:PRO:HA	1.78	0.65
11:AM:76:LYS:HZ2	11:AM:99:LEU:CD1	2.09	0.65
1:AA:1287:A:H5'	13:AO:104:ARG:HG3	1.77	0.65
13:AO:34:ILE:C	13:AO:113:LEU:HD22	2.16	0.65
13:AO:5:LYS:NZ	13:AO:6:SER:N	2.43	0.65
13:AO:22:ARG:HG2	13:AO:70:LEU:HD22	1.78	0.65
14:AP:62:LYS:HB2	14:AP:65:VAL:CG1	2.26	0.65
1:AA:445:C:H5''	16:AR:3:ARG:HG3	1.78	0.65
1:AA:997:G:OP1	16:AR:92:ARG:CD	2.44	0.65
18:AT:36:LEU:HD11	18:AT:47:VAL:HB	1.77	0.65
18:AT:6:ILE:HG12	18:AT:103:ILE:O	1.96	0.65
19:AU:12:VAL:HG23	19:AU:28:PHE:C	2.17	0.65
12:AN:137:TYR:CE2	21:AW:124:ILE:HD12	2.30	0.65
21:AW:123:ASP:H	21:AW:171:ILE:CD1	2.09	0.65
1:AA:931:G:H21	24:AZ:25:ALA:N	1.94	0.65
34:BA:109:A:H4'	34:BA:110:C:OP2	1.95	0.65
34:BA:1266:G:H2'	34:BA:1268:A:OP2	1.96	0.65
34:BA:1315:U:C2	34:BA:1361:G:H1'	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1405:G:H1'	34:BA:1519:A:O4'	1.96	0.65
34:BA:1430:C:O2'	34:BA:1431:C:O5'	2.14	0.65
34:BA:1399:C:N3	34:BA:1502:A:N6	2.44	0.65
34:BA:274:A:HO2'	34:BA:275:G:C1'	2.09	0.65
34:BA:329:A:O2'	34:BA:330:C:H5'	1.95	0.65
34:BA:714:G:H2'	34:BA:715:A:C8	2.31	0.65
34:BA:900:A:H2'	34:BA:901:A:H8	1.59	0.65
34:BA:989:C:H2'	34:BA:990:C:H5'	1.77	0.65
35:BF:102:LEU:HB3	35:BF:180:LEU:HD13	1.78	0.65
35:BF:164:VAL:HG22	35:BF:165:VAL:N	2.11	0.65
37:BH:18:LYS:HE3	37:BH:33:MET:CB	2.27	0.65
38:BI:109:ILE:HG23	38:BI:110:LEU:N	2.10	0.65
41:BL:104:ARG:HG2	41:BL:104:ARG:NH1	2.04	0.65
41:BL:40:ALA:N	41:BL:45:ILE:HG23	2.11	0.65
45:BP:33:ARG:O	45:BP:85:ILE:HG22	1.97	0.65
39:BJ:98:LEU:HG	51:BV:28:GLU:HG2	1.78	0.65
51:BV:61:LYS:HD2	51:BV:64:ARG:NH2	2.06	0.65
52:BW:38:SER:HB3	52:BW:71:LEU:HG	1.78	0.65
52:BW:69:HIS:CB	52:BW:74:PHE:HZ	2.04	0.65
57:BZ:157:GLN:C	57:BZ:159:ASP:HB3	2.17	0.65
57:BZ:205:PHE:HA	57:BZ:229:GLY:CA	2.25	0.65
57:BZ:208:GLN:O	57:BZ:210:SER:N	2.29	0.65
57:BZ:22:VAL:HG12	57:BZ:56:ILE:CG1	2.22	0.65
57:BZ:64:ILE:HG23	57:BZ:188:GLN:OE1	1.93	0.65
46:BQ:4:ILE:HD13	46:BQ:57:ARG:CG	2.00	0.65
57:BZ:39:GLN:HA	57:BZ:40:GLU:CG	2.26	0.65
32:AJ:64:SER:HB2	32:AJ:65:PHE:CG	2.31	0.65
23:AY:8:ALA:O	23:AY:9:ARG:C	2.35	0.65
1:AA:347:A:H2'	1:AA:347:A:N3	2.11	0.65
1:AA:1036:G:N2	1:AA:1120:G:C4	2.64	0.65
1:AA:1116:C:OP2	1:AA:1116:C:H6	1.78	0.65
1:AA:49:A:H2	1:AA:120:U:H3	1.43	0.65
1:AA:1229:G:C6	1:AA:1230:C:C2	2.84	0.65
1:AA:1277:G:O2'	1:AA:1278:A:H5'	1.95	0.65
1:AA:1307:A:O3'	1:AA:1379:A:N6	2.29	0.65
1:AA:1407:C:O2'	1:AA:1408:C:H5'	1.96	0.65
1:AA:1789:A:H2'	4:AD:213:ARG:HH22	1.61	0.65
1:AA:1799:G:N2	4:AD:157:ARG:HH22	1.93	0.65
1:AA:1820:U:C5	4:AD:159:ALA:HB3	2.32	0.65
1:AA:1882:C:H2'	1:AA:1883:G:H5'	1.78	0.65
1:AA:2072:G:H2'	1:AA:2073:C:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2209:C:O2'	1:AA:2210:G:H3'	1.95	0.65
1:AA:2371:G:N2	1:AA:2372:G:C6	2.64	0.65
1:AA:412:A:H62	1:AA:2411:A:H1'	1.61	0.65
1:AA:2521:C:H2'	1:AA:2522:U:O4'	1.97	0.65
1:AA:2661:G:H2'	1:AA:2662:A:H8	1.61	0.65
1:AA:286:C:H2'	1:AA:287:C:C6	2.32	0.65
1:AA:2251:G:C4	59:AA:3003:8AN:H2	1.66	0.65
1:AA:475:U:C6	1:AA:509:C:N4	2.65	0.65
1:AA:515:A:H8	1:AA:515:A:O5'	1.78	0.65
1:AA:613:U:H5'	1:AA:614:U:C6	2.30	0.65
1:AA:835:A:C4'	1:AA:2358:G:H1'	2.25	0.65
1:AA:964:C:O2'	1:AA:2273:A:C8	2.49	0.65
2:AB:55:U:H2'	2:AB:56:G:O4'	1.96	0.65
3:AC:180:PHE:CE2	3:AC:184:LYS:CG	2.79	0.65
4:AD:208:LYS:HZ1	4:AD:211:ARG:HH21	1.44	0.65
4:AD:251:GLY:CA	4:AD:255:LYS:HZ2	2.10	0.65
7:AG:39:ILE:HG13	7:AG:157:ILE:HG13	1.77	0.65
8:AH:13:LYS:HE3	8:AH:80:SER:HA	1.78	0.65
32:AJ:104:VAL:HG13	32:AJ:127:ILE:CD1	1.28	0.65
32:AJ:42:ASN:O	32:AJ:46:ALA:HB2	1.96	0.65
32:AJ:77:LEU:HD13	32:AJ:77:LEU:O	1.97	0.65
10:AL:10:VAL:O	10:AL:11:ALA:HB3	1.95	0.65
10:AL:70:LYS:HB3	10:AL:72:PRO:HD2	1.78	0.65
15:AQ:53:ARG:NH2	15:AQ:101:PHE:N	2.43	0.65
15:AQ:57:PHE:CD2	15:AQ:57:PHE:N	2.63	0.65
15:AQ:45:PHE:CE1	15:AQ:87:ASP:HB2	2.31	0.65
17:AS:20:LEU:O	17:AS:21:ARG:HG2	1.96	0.65
17:AS:83:ARG:CD	17:AS:83:ARG:C	2.63	0.65
17:AS:68:LYS:CG	17:AS:95:LEU:HD21	2.26	0.65
19:AU:50:LYS:HG3	19:AU:85:PRO:CD	2.26	0.65
20:AV:16:ALA:CB	20:AV:68:HIS:ND1	2.59	0.65
21:AW:110:GLY:HA2	21:AW:144:LEU:HB2	1.77	0.65
21:AW:53:ILE:O	21:AW:54:HIS:CG	2.50	0.65
23:AY:36:ILE:HG12	23:AY:37:GLY:H	1.59	0.65
34:BA:1162:C:H2'	34:BA:1163:C:C5	2.31	0.65
34:BA:1285:A:O2'	34:BA:1286:A:OP2	2.14	0.65
34:BA:1317:C:C5	34:BA:1318:A:C6	2.85	0.65
34:BA:173:U:H5''	34:BA:197:A:O2'	1.96	0.65
34:BA:250:A:O2'	34:BA:251:G:OP2	2.14	0.65
34:BA:405:U:H3'	34:BA:406:G:H5'	1.77	0.65
34:BA:701:C:H5''	34:BA:702:A:H3'	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:758:G:O5'	34:BA:758:G:H8	1.79	0.65
34:BA:878:G:H2'	34:BA:879:C:C6	2.31	0.65
34:BA:87:A:H2'	34:BA:88:C:O4'	1.96	0.65
34:BA:978:A:O2'	34:BA:979:C:H5'	1.96	0.65
34:BA:981:U:H6	34:BA:981:U:H3'	1.61	0.65
56:BE:21:A:C2'	56:BE:22:G:C5'	2.66	0.65
35:BF:212:GLN:HA	35:BF:212:GLN:OE1	1.92	0.65
36:BG:187:ALA:HB3	36:BG:198:VAL:HG22	1.76	0.65
40:BK:115:ARG:HG3	40:BK:118:VAL:HG21	1.78	0.65
42:BM:23:ASN:ND2	42:BM:57:GLY:O	2.29	0.65
45:BP:35:GLY:O	45:BP:82:VAL:HA	1.96	0.65
45:BP:54:LYS:CB	45:BP:70:ILE:HB	2.26	0.65
48:BS:49:ASP:CG	48:BS:52:SER:HB2	2.17	0.65
50:BU:29:HIS:CE1	50:BU:31:LEU:N	2.64	0.65
50:BU:60:ILE:HD13	50:BU:62:SER:OG	1.95	0.65
34:BA:1225:A:C5'	52:BW:78:ARG:HD3	2.10	0.65
53:BX:26:ASN:ND2	53:BX:27:LYS:N	2.44	0.65
34:BA:1455:G:C4'	53:BX:28:ALA:O	2.44	0.65
57:BZ:172:ALA:CA	57:BZ:179:MET:HE1	2.22	0.65
57:BZ:309:MET:HE3	57:BZ:366:LEU:HD13	1.78	0.65
57:BZ:564:THR:CA	57:BZ:567:GLN:HB3	2.25	0.65
14:AP:56:LEU:HD12	14:AP:59:LYS:HD2	1.77	0.65
9:AK:6:PRO:CA	9:AK:41:ASP:HB3	2.27	0.65
31:AI:87:VAL:CB	31:AI:92:THR:CB	2.74	0.65
1:AA:1475:G:N3	1:AA:1475:G:H2'	2.11	0.65
1:AA:1492:G:N3	1:AA:1493:C:N4	2.44	0.65
1:AA:1528:A:N1	1:AA:1545:A:N1	2.43	0.65
1:AA:1608:A:C5	1:AA:1611:C:C4	2.85	0.65
1:AA:1710:C:H1'	1:AA:2858:C:H42	1.60	0.65
1:AA:1750:G:O2'	1:AA:2860:A:N1	2.27	0.65
1:AA:2010:G:H2'	1:AA:2011:U:C5'	2.26	0.65
1:AA:2016:U:H2'	1:AA:2017:U:O4'	1.96	0.65
1:AA:574:C:H1'	1:AA:2055:C:H5	1.59	0.65
1:AA:2160:G:H2'	1:AA:2161:C:H6	1.60	0.65
1:AA:784:A:P	1:AA:2588:G:H5''	2.37	0.65
1:AA:2599:G:O2'	1:AA:2600:A:H5'	1.96	0.65
1:AA:2791:C:N4	1:AA:2893:G:O4'	2.29	0.65
1:AA:297:C:H3'	1:AA:298:G:C8	2.31	0.65
1:AA:266:G:N2	1:AA:427:U:H3	1.94	0.65
1:AA:465:G:O6	1:AA:466:A:N6	2.29	0.65
1:AA:650:C:N3	1:AA:651:G:C2	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:728:G:C6	1:AA:762:U:H3'	2.30	0.65
1:AA:783:A:N1	1:AA:785:G:O4'	2.30	0.65
1:AA:988:A:C4'	1:AA:1155:A:H2	2.07	0.65
2:AB:84:C:C2	2:AB:85:G:C8	2.84	0.65
3:AC:214:VAL:HG23	3:AC:224:ILE:HD13	1.68	0.65
4:AD:208:LYS:NZ	4:AD:211:ARG:NH2	2.43	0.65
1:AA:2227:A:O4'	4:AD:262:ARG:HD2	1.95	0.65
1:AA:1813:G:H21	4:AD:52:ARG:NH1	1.94	0.65
4:AD:7:LYS:HG3	4:AD:27:THR:N	2.10	0.65
1:AA:2305:A:O3'	7:AG:136:ARG:HG2	1.95	0.65
7:AG:17:PRO:CA	7:AG:20:ILE:HB	2.27	0.65
8:AH:103:LEU:HB3	8:AH:105:LEU:CD1	2.26	0.65
8:AH:119:GLU:C	8:AH:121:ILE:H	1.99	0.65
32:AJ:103:GLN:HG3	32:AJ:106:GLU:OE2	1.96	0.65
10:AL:108:GLU:HB3	10:AL:111:PHE:HE2	1.61	0.65
12:AN:42:ILE:CD1	12:AN:46:GLN:HE21	2.08	0.65
12:AN:54:MET:HB3	12:AN:58:PHE:HE2	1.60	0.65
13:AO:86:ARG:HH12	13:AO:87:TYR:HE2	1.43	0.65
15:AQ:76:PHE:CZ	15:AQ:78:LEU:HD12	2.31	0.65
1:AA:1341:U:H2'	19:AU:55:ASN:HB3	1.79	0.65
20:AV:14:LEU:O	20:AV:20:TYR:HA	1.94	0.65
21:AW:71:VAL:HG22	21:AW:88:PHE:CE2	2.31	0.65
23:AY:38:GLN:O	23:AY:41:GLN:HB2	1.97	0.65
34:BA:1225:A:H5'	52:BW:78:ARG:HD2	0.67	0.65
34:BA:1448:C:O5'	34:BA:1448:C:H6	1.79	0.65
34:BA:1394:A:N7	34:BA:1501:C:H1'	2.11	0.65
34:BA:194:C:H5''	53:BX:65:LYS:HZ3	1.59	0.65
34:BA:267:C:N4	34:BA:268:C:N4	2.44	0.65
34:BA:533:A:C5	34:BA:536:C:N4	2.65	0.65
34:BA:597:G:C6	34:BA:644:G:C6	2.84	0.65
34:BA:888:G:C2	34:BA:889:A:N6	2.63	0.65
56:BE:15:G:H2'	56:BE:16:U:C5'	2.26	0.65
36:BG:57:ILE:HG22	36:BG:59:ARG:NH2	2.10	0.65
37:BH:116:GLN:O	37:BH:119:GLN:HB3	1.97	0.65
37:BH:124:GLY:O	37:BH:126:ILE:HG12	1.96	0.65
37:BH:20:TYR:C	37:BH:26:CYS:SG	2.75	0.65
37:BH:13:ARG:C	37:BH:40:PRO:HD3	2.17	0.65
37:BH:52:SER:O	37:BH:54:TYR:N	2.29	0.65
39:BJ:46:ARG:NH2	51:BV:37:VAL:CG1	2.59	0.65
40:BK:155:ARG:HH11	40:BK:156:TRP:H	1.44	0.65
41:BL:109:ILE:O	41:BL:136:GLU:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:827:U:H5'	41:BL:16:ALA:HA	1.78	0.65
41:BL:6:ILE:CG2	41:BL:7:ALA:H	1.91	0.65
42:BM:93:ARG:NH2	42:BM:97:LYS:HG2	2.10	0.65
44:BO:48:ILE:CG2	44:BO:63:LEU:HD13	2.25	0.65
45:BP:34:ARG:HB2	45:BP:105:TYR:OH	1.95	0.65
45:BP:42:THR:OG1	45:BP:52:LEU:HD12	1.96	0.65
34:BA:1226:C:N4	46:BQ:104:ARG:NE	2.44	0.65
47:BR:23:ARG:N	47:BR:33:VAL:HG21	2.10	0.65
47:BR:42:ILE:HA	47:BR:45:ARG:HG2	1.79	0.65
50:BU:41:LYS:O	50:BU:42:TYR:CD1	2.49	0.65
53:BX:57:ARG:O	53:BX:59:ALA:N	2.29	0.65
57:BZ:213:ASP:OD2	57:BZ:221:ILE:HD13	1.95	0.65
57:BZ:509:LYS:CD	57:BZ:561:ILE:HD13	2.25	0.65
57:BZ:67:ASP:N	57:BZ:68:TYR:HA	2.10	0.65
57:BZ:69:ARG:HH11	57:BZ:253:LYS:HZ2	0.69	0.65
57:BZ:556:VAL:O	57:BZ:557:LEU:HB3	1.95	0.65
56:BD:2:C:N4	56:BD:71:G:C6	2.46	0.65
45:BP:126:LYS:HZ2	45:BP:128:ALA:H	1.45	0.65
1:AA:1414:G:C6	1:AA:1415:U:C4	2.85	0.65
21:AW:8:TYR:CD1	21:AW:8:TYR:N	2.64	0.65
1:AA:1023:U:OP2	1:AA:1025:G:C6	2.49	0.65
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.62	0.65
1:AA:1470:G:C8	1:AA:1470:G:H3'	2.32	0.65
1:AA:1535:U:C2'	1:AA:1536:A:O4'	2.36	0.65
1:AA:1657:C:H2'	1:AA:1658:C:C6	2.27	0.65
1:AA:1692:U:C1'	1:AA:1696:G:N2	2.60	0.65
1:AA:176:G:C2'	1:AA:177:G:H8	2.09	0.65
1:AA:1805:U:H2'	1:AA:1806:C:H6	1.60	0.65
1:AA:1904:G:H2'	1:AA:1905:C:C5'	2.26	0.65
1:AA:189:G:H2'	1:AA:205:G:N2	2.11	0.65
1:AA:2208:U:H1'	1:AA:2217:G:C2	2.32	0.65
1:AA:2238:G:H1'	1:AA:2240:C:C5	2.31	0.65
1:AA:2396:G:C6	1:AA:2421:G:O6	2.50	0.65
1:AA:2536:G:C6	1:AA:2537:U:C4	2.84	0.65
1:AA:2564:A:C2	1:AA:2647:U:H4'	2.31	0.65
1:AA:2670:A:H2'	1:AA:2671:A:C8	2.31	0.65
1:AA:2781:A:O3'	1:AA:2782:G:H4'	1.96	0.65
1:AA:2839:G:H2'	1:AA:2840:C:C6	2.31	0.65
1:AA:391:G:H2'	1:AA:392:C:C5	2.32	0.65
1:AA:459:U:H5	1:AA:469:G:N2	1.94	0.65
1:AA:537:C:H2'	1:AA:539:G:C8	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:603:A:N6	11:AM:104:GLY:HA2	2.11	0.65
1:AA:735:A:H2'	1:AA:736:C:H5'	1.78	0.65
2:AB:39:A:H2	2:AB:44:G:OP2	1.79	0.65
2:AB:50:G:H2'	2:AB:50:G:N3	2.11	0.65
2:AB:78:A:H2'	2:AB:79:C:H5'	1.76	0.65
2:AB:80:U:H2'	2:AB:81:G:C8	2.32	0.65
4:AD:121:PRO:O	4:AD:122:ASP:HB3	1.97	0.65
5:AE:13:ARG:HG3	5:AE:22:PRO:CG	2.25	0.65
5:AE:173:VAL:HG11	5:AE:184:VAL:HA	1.77	0.65
7:AG:44:GLY:C	7:AG:72:ARG:HB3	2.16	0.65
8:AH:105:LEU:HD12	8:AH:113:VAL:HG11	1.79	0.65
8:AH:137:ASP:HB3	8:AH:140:LYS:HG2	1.76	0.65
9:AK:100:GLU:CA	9:AK:103:VAL:HG13	2.26	0.65
1:AA:558:G:C5'	9:AK:109:LYS:HD3	2.27	0.65
10:AL:59:LYS:CA	10:AL:86:ILE:HD12	2.20	0.65
1:AA:671:C:OP1	11:AM:38:GLN:O	2.14	0.65
11:AM:81:GLN:CA	11:AM:86:LYS:HE3	2.26	0.65
12:AN:99:PRO:O	12:AN:100:GLY:C	2.33	0.65
12:AN:75:THR:HG22	12:AN:77:LYS:CD	2.25	0.65
15:AQ:39:ARG:O	15:AQ:42:ILE:HG13	1.96	0.65
17:AS:15:GLU:CA	17:AS:100:ARG:HH12	2.09	0.65
17:AS:78:LYS:HE2	17:AS:84:LYS:HG2	1.79	0.65
1:AA:852:G:C5'	24:AZ:45:GLY:HA3	2.27	0.65
34:BA:1299:A:N7	34:BA:1301:U:C6	2.64	0.65
34:BA:1319:A:OP2	52:BW:12:ASP:OD1	2.12	0.65
34:BA:976:G:C6	34:BA:1362:C:C4	2.84	0.65
34:BA:1376:U:O2	34:BA:1377:A:N7	2.29	0.65
34:BA:22:G:C2'	34:BA:23:C:H6	2.05	0.65
34:BA:339:C:H2'	34:BA:340:U:C6	2.28	0.65
34:BA:112:G:H21	34:BA:354:G:H5'	1.60	0.65
34:BA:50:A:C2	34:BA:360:A:N3	2.65	0.65
34:BA:705:U:C5	34:BA:706:A:N7	2.64	0.65
35:BF:69:LEU:HB2	35:BF:159:PRO:CB	2.27	0.65
36:BG:112:SER:O	36:BG:116:VAL:HG23	1.96	0.65
36:BG:11:ARG:HD3	36:BG:15:THR:CG2	2.25	0.65
36:BG:15:THR:HB	36:BG:181:ASN:OD1	1.97	0.65
37:BH:119:GLN:HG3	37:BH:123:HIS:CE1	2.31	0.65
37:BH:26:CYS:O	37:BH:33:MET:CG	2.43	0.65
38:BI:31:LEU:HD12	38:BI:129:ILE:HA	1.77	0.65
34:BA:520:A:OP2	45:BP:51:ALA:HB1	1.96	0.65
47:BR:45:ARG:HH11	47:BR:45:ARG:CG	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:4:LYS:CE	50:BU:5:VAL:O	2.44	0.65
34:BA:958:A:N3	52:BW:56:GLN:NE2	2.42	0.65
34:BA:323:U:H5'	53:BX:23:ARG:HB2	1.76	0.65
34:BA:1454:G:P	53:BX:39:LYS:HD2	2.33	0.65
57:BZ:6:ARG:HB3	57:BZ:194:VAL:HG11	1.79	0.65
57:BZ:346:ARG:NH1	57:BZ:346:ARG:HG2	2.03	0.65
57:BZ:419:LEU:O	57:BZ:424:GLY:N	2.29	0.65
57:BZ:487:VAL:HG12	57:BZ:571:PHE:CE1	2.31	0.65
57:BZ:258:LEU:CD2	57:BZ:260:LEU:HD13	2.26	0.65
1:AA:1019:U:H5''	1:AA:1019:U:H6	1.60	0.65
1:AA:1068:G:N3	1:AA:1096:A:OP1	2.30	0.65
1:AA:1248:G:O2'	1:AA:1249:U:OP1	2.14	0.65
1:AA:1398:C:H2'	1:AA:1399:C:C6	2.32	0.65
1:AA:1518:C:H2'	1:AA:1519:G:H4'	1.79	0.65
1:AA:1654:A:C2	1:AA:1655:A:C8	2.84	0.65
1:AA:1834:U:H4'	1:AA:1834:U:OP1	1.96	0.65
1:AA:200:U:H3'	1:AA:201:C:C5'	2.27	0.65
1:AA:2124:G:C5'	3:AC:42:GLU:OE1	2.45	0.65
1:AA:2246:G:N3	1:AA:2247:A:N7	2.44	0.65
1:AA:2356:C:H3'	1:AA:2357:U:H5	1.61	0.65
1:AA:2569:G:N3	1:AA:2570:G:C8	2.65	0.65
1:AA:2652:C:O2	1:AA:2670:A:H1'	1.95	0.65
1:AA:2716:U:O2'	1:AA:2717:G:O5'	2.15	0.65
1:AA:2850:A:N3	1:AA:2869:G:H4'	2.12	0.65
1:AA:558:G:H5''	9:AK:109:LYS:HG2	1.79	0.65
1:AA:559:G:H2'	1:AA:560:C:O4'	1.95	0.65
1:AA:611:C:H2'	1:AA:612:G:O4'	1.97	0.65
1:AA:638:G:H8	1:AA:638:G:H3'	1.61	0.65
1:AA:756:C:H2'	1:AA:757:U:C5'	2.27	0.65
1:AA:970:C:C2	1:AA:971:C:C5	2.85	0.65
3:AC:49:ILE:HD11	3:AC:165:ASN:HD22	1.62	0.65
3:AC:66:HIS:CB	3:AC:67:GLY:N	2.56	0.65
4:AD:159:ALA:HB3	4:AD:202:LYS:NZ	2.12	0.65
5:AE:15:PHE:CE2	5:AE:16:ARG:HG3	2.31	0.65
5:AE:172:VAL:O	5:AE:182:LEU:HD21	1.95	0.65
6:AF:74:ARG:NH1	6:AF:75:HIS:CA	2.57	0.65
1:AA:1257:C:HO2'	6:AF:83:PHE:HD1	1.45	0.65
7:AG:75:LYS:CG	7:AG:85:GLY:H	2.10	0.65
7:AG:77:ILE:HG13	7:AG:78:SER:N	2.10	0.65
7:AG:75:LYS:HB3	7:AG:84:LYS:CB	2.27	0.65
14:AP:23:ARG:NH1	14:AP:42:ASP:CB	2.54	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:49:VAL:CG1	14:AP:76:LYS:HE3	2.25	0.65
15:AQ:21:GLU:O	15:AQ:23:ARG:N	2.30	0.65
13:AO:103:ARG:HD2	18:AT:40:ASN:HB2	1.78	0.65
1:AA:750:A:H2'	18:AT:90:ARG:HH12	1.61	0.65
20:AV:14:LEU:CB	20:AV:20:TYR:HA	2.20	0.65
21:AW:74:VAL:HG22	21:AW:86:VAL:HA	1.78	0.65
34:BA:1182:G:H4'	34:BA:1183:A:O5'	1.96	0.65
34:BA:953:G:C6	34:BA:1229:A:N6	2.64	0.65
34:BA:127:G:H2'	34:BA:128:G:H5'	1.79	0.65
34:BA:1329:A:OP1	46:BQ:29:ARG:CD	2.45	0.65
34:BA:1358:U:OP2	34:BA:1359:C:C5	2.49	0.65
34:BA:1373:G:C5'	40:BK:36:LYS:HB2	2.27	0.65
34:BA:1376:U:H3	34:BA:1377:A:H62	1.45	0.65
34:BA:1446:A:H2'	34:BA:1447:G:C5'	2.26	0.65
34:BA:1483:A:C8	34:BA:1483:A:O5'	2.49	0.65
34:BA:181:G:O2'	34:BA:182:U:H5'	1.96	0.65
34:BA:344:A:O2'	34:BA:345:C:P	2.54	0.65
34:BA:437:U:H2'	34:BA:438:G:O4'	1.96	0.65
34:BA:454:C:H3'	34:BA:455:C:C6	2.32	0.65
34:BA:51:A:H4'	34:BA:52:G:C5'	2.27	0.65
34:BA:568:G:N2	34:BA:574:A:H2	1.95	0.65
34:BA:687:A:H61	34:BA:703:G:C1'	2.09	0.65
34:BA:867:G:H2'	34:BA:868:C:C5	2.31	0.65
34:BA:983:A:H1'	34:BA:1201:A:C8	2.31	0.65
35:BF:194:PRO:O	35:BF:196:LEU:N	2.29	0.65
35:BF:96:ARG:N	35:BF:96:ARG:HD2	2.11	0.65
36:BG:187:ALA:HB3	36:BG:198:VAL:CG2	2.26	0.65
37:BH:123:HIS:HB2	37:BH:125:HIS:CE1	2.31	0.65
37:BH:30:LYS:HG2	37:BH:35:ARG:HD2	1.78	0.65
38:BI:41:VAL:HG11	38:BI:112:LEU:HB3	1.77	0.65
38:BI:18:ARG:N	38:BI:26:PHE:HB3	2.11	0.65
38:BI:17:ALA:HA	38:BI:26:PHE:CB	2.27	0.65
38:BI:12:LEU:O	38:BI:30:ALA:HA	1.96	0.65
40:BK:6:ARG:CZ	40:BK:6:ARG:N	2.60	0.65
45:BP:34:ARG:HD3	45:BP:105:TYR:OH	1.95	0.65
47:BR:22:THR:CG2	47:BR:33:VAL:HG23	2.26	0.65
48:BS:35:ARG:HH22	48:BS:59:MET:HE3	1.62	0.65
34:BA:266:G:C3'	50:BU:67:LYS:HD2	2.13	0.65
52:BW:40:ILE:C	52:BW:68:GLY:HA2	2.16	0.65
57:BZ:11:ILE:HG23	57:BZ:112:VAL:CG2	2.24	0.65
57:BZ:129:LYS:NZ	60:BZ:701:GCP:C4	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:885:C:H42	1:AA:890:A:P	2.19	0.65
1:AA:885:C:N4	1:AA:890:A:P	2.69	0.65
55:BC:36:A:H2'	55:BC:37:A:C4'	2.26	0.65
55:BC:14:A:H3'	55:BC:15:G:H8	1.60	0.65
1:AA:1062:G:H1'	1:AA:1063:G:O5'	1.97	0.65
1:AA:1081:U:H4'	32:AJ:125:ARG:HB2	1.76	0.65
1:AA:330:A:O2'	1:AA:1210:A:N6	2.30	0.65
1:AA:150:C:O2	1:AA:151:C:C6	2.50	0.65
1:AA:1687:G:C5	1:AA:1688:U:H5	2.15	0.65
1:AA:1703:G:N2	1:AA:1704:G:H1'	2.11	0.65
1:AA:1934:C:N3	1:AA:1967:C:N4	2.44	0.65
1:AA:1975:G:O2'	1:AA:1976:U:H5'	1.97	0.65
1:AA:2132:U:H2'	1:AA:2134:A:C8	2.31	0.65
1:AA:2305:A:N7	1:AA:2306:C:C6	2.64	0.65
1:AA:1953:A:H62	1:AA:2550:G:C4'	2.10	0.65
1:AA:25:U:C2	1:AA:26:G:C8	2.85	0.65
1:AA:2716:U:C2'	1:AA:2717:G:O5'	2.45	0.65
1:AA:2720:U:C2'	1:AA:2721:A:H8	2.10	0.65
1:AA:412:A:N6	1:AA:2411:A:H1'	2.12	0.65
1:AA:544:C:H2'	1:AA:545:G:O4'	1.97	0.65
2:AB:30:C:C2'	2:AB:31:C:H5'	2.25	0.65
2:AB:61:G:N2	2:AB:62:C:C2	2.64	0.65
3:AC:48:GLY:HA2	3:AC:210:ARG:HD3	1.76	0.65
3:AC:52:ARG:HG3	3:AC:53:ARG:HG3	1.78	0.65
1:AA:2124:G:C5'	3:AC:71:GLN:HE22	2.08	0.65
3:AC:77:ILE:CD1	3:AC:123:VAL:HG13	2.27	0.65
4:AD:214:TRP:CH2	4:AD:219:PRO:HB3	2.32	0.65
1:AA:1803:A:O3'	4:AD:257:LEU:HD22	1.96	0.65
4:AD:52:ARG:O	4:AD:53:PHE:O	2.15	0.65
6:AF:132:VAL:CG2	6:AF:135:LYS:HB2	2.27	0.65
6:AF:39:TRP:CB	6:AF:101:LEU:HG	2.26	0.65
8:AH:4:ILE:N	8:AH:4:ILE:HD12	2.12	0.65
32:AJ:35:MET:HG3	32:AJ:36:GLU:H	1.61	0.65
9:AK:34:LEU:CD2	9:AK:116:LEU:HD21	2.27	0.65
10:AL:52:VAL:O	10:AL:53:LYS:HG2	1.97	0.65
11:AM:113:LYS:HA	11:AM:129:ALA:HB1	1.78	0.65
12:AN:22:LYS:HD2	12:AN:99:PRO:CB	2.26	0.65
16:AR:105:VAL:CG1	16:AR:106:PHE:N	2.60	0.65
16:AR:66:ASN:C	16:AR:70:ARG:HE	2.00	0.65
18:AT:6:ILE:CD1	18:AT:104:THR:HA	2.27	0.65
18:AT:68:ARG:HG3	18:AT:109:GLU:OE2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:25:ARG:HD3	18:AT:74:ALA:CB	2.26	0.65
20:AV:72:VAL:HG21	20:AV:81:LYS:HE2	1.79	0.65
21:AW:9:TYR:HB2	21:AW:14:LYS:CG	2.26	0.65
21:AW:39:VAL:HA	21:AW:44:PHE:CZ	2.30	0.65
23:AY:27:LEU:HD13	23:AY:52:ILE:CD1	2.26	0.65
34:BA:1085:U:OP2	34:BA:1086:U:O4	2.15	0.65
34:BA:1167:A:N3	34:BA:1167:A:H2'	2.11	0.65
34:BA:1278:U:H5'	34:BA:1279:A:H5'	1.78	0.65
34:BA:1437:C:O5'	34:BA:1437:C:H6	1.79	0.65
34:BA:251:G:H22	34:BA:272:C:H42	1.42	0.65
34:BA:286:G:C4	34:BA:287:U:C6	2.84	0.65
34:BA:449:C:C2'	34:BA:450:G:O4'	2.44	0.65
34:BA:522:C:H41	34:BA:523:A:N6	1.94	0.65
34:BA:556:C:O2'	34:BA:557:G:H5'	1.96	0.65
34:BA:564:C:OP1	45:BP:15:ARG:NH2	2.29	0.65
34:BA:59:A:H1'	34:BA:354:G:N2	2.11	0.65
34:BA:656:C:C2'	34:BA:657:G:H5'	2.27	0.65
36:BG:193:TYR:HB2	36:BG:196:LEU:HD22	1.78	0.65
36:BG:44:GLU:HA	36:BG:52:LEU:HD11	1.78	0.65
37:BH:141:ARG:HH11	37:BH:142:PRO:CD	2.10	0.65
42:BM:101:PHE:CD1	42:BM:101:PHE:N	2.64	0.65
42:BM:28:VAL:O	42:BM:30:GLY:N	2.30	0.65
42:BM:49:PRO:HD3	42:BM:78:LYS:HZ3	1.61	0.65
43:BN:34:VAL:CG1	43:BN:35:SER:H	2.06	0.65
44:BO:58:PRO:CB	44:BO:93:GLN:HB2	2.19	0.65
45:BP:85:ILE:CD1	45:BP:98:TYR:CB	2.74	0.65
46:BQ:10:PRO:CB	46:BQ:18:ALA:HB2	2.22	0.65
46:BQ:29:ARG:HD3	46:BQ:64:TRP:CZ3	2.31	0.65
46:BQ:37:THR:CA	46:BQ:56:LEU:HB2	2.25	0.65
47:BR:40:CYS:O	47:BR:44:LEU:CB	2.45	0.65
48:BS:42:HIS:CE1	48:BS:43:LEU:HA	2.32	0.65
50:BU:44:ALA:HA	50:BU:71:PHE:O	1.95	0.65
50:BU:62:SER:CB	50:BU:72:ARG:HG2	2.26	0.65
57:BZ:251:VAL:HB	57:BZ:273:ILE:HA	1.72	0.65
57:BZ:26:LEU:HD12	57:BZ:29:SER:CB	2.27	0.65
57:BZ:377:GLY:CA	57:BZ:582:PRO:HG3	2.23	0.65
57:BZ:313:VAL:HG13	57:BZ:326:VAL:O	1.96	0.65
1:AA:1077:A:H61	1:AA:1088:A:H4'	1.59	0.65
1:AA:118:A:O2'	1:AA:178:G:H5'	1.94	0.65
1:AA:1519:G:OP1	1:AA:1519:G:H4'	1.95	0.65
1:AA:1633:G:C8	1:AA:1635:G:O6	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1818:U:O2	1:AA:1818:U:H2'	1.94	0.65
1:AA:1949:G:N2	1:AA:1958:C:C2	2.65	0.65
1:AA:2075:U:C5	1:AA:2435:A:C2	2.84	0.65
1:AA:2113:U:H3	1:AA:2169:A:N6	1.93	0.65
1:AA:2173:A:C4	3:AC:218:MET:HE2	2.30	0.65
1:AA:2323:G:H2'	1:AA:2324:C:C5	2.31	0.65
1:AA:241:A:H2'	1:AA:242:G:H4'	1.79	0.65
1:AA:2777:G:H3'	1:AA:2777:G:C8	2.32	0.65
1:AA:2805:G:H2'	1:AA:2807:G:C4'	2.27	0.65
1:AA:371:A:N7	1:AA:424:G:O5'	2.30	0.65
1:AA:641:C:H2'	1:AA:642:G:O4'	1.97	0.65
1:AA:71:A:H62	1:AA:114:U:H1'	1.60	0.65
1:AA:74:A:N1	23:AY:46:ARG:HD2	2.12	0.65
1:AA:780:G:H2'	1:AA:782:A:C8	2.31	0.65
1:AA:843:G:N2	1:AA:936:C:C2	2.65	0.65
4:AD:17:THR:HG23	4:AD:18:VAL:HG23	1.78	0.65
1:AA:1775:U:N1	4:AD:208:LYS:HD2	2.12	0.65
4:AD:5:LYS:CE	4:AD:31:LYS:HZ2	2.09	0.65
5:AE:164:ARG:O	5:AE:165:VAL:CG2	2.44	0.65
6:AF:184:TYR:N	6:AF:184:TYR:CD2	2.64	0.65
1:AA:2305:A:H1'	7:AG:154:GLY:C	2.17	0.65
7:AG:75:LYS:HZ3	7:AG:87:PRO:HD3	1.61	0.65
8:AH:66:GLY:O	8:AH:70:THR:HG23	1.96	0.65
32:AJ:29:GLN:OE1	32:AJ:29:GLN:HA	1.94	0.65
1:AA:2024:G:HO2'	9:AK:78:TYR:HH	1.45	0.65
10:AL:97:ARG:NH1	10:AL:98:VAL:C	2.48	0.65
11:AM:114:ILE:CD1	11:AM:114:ILE:N	2.59	0.65
1:AA:389:G:N1	11:AM:64:LYS:HG2	2.11	0.65
11:AM:91:PHE:CE2	11:AM:96:THR:HG22	2.32	0.65
12:AN:67:ARG:NH2	12:AN:103:MET:HB3	2.10	0.65
14:AP:11:LYS:HB3	14:AP:15:ARG:NH2	2.12	0.65
1:AA:30:G:P	16:AR:11:ARG:HH22	2.20	0.65
18:AT:13:SER:O	18:AT:17:VAL:HG22	1.97	0.65
18:AT:30:GLU:O	18:AT:33:ARG:HB3	1.96	0.65
18:AT:33:ARG:NH1	18:AT:36:LEU:HB3	2.10	0.65
19:AU:39:ILE:HB	19:AU:54:VAL:HG11	1.78	0.65
19:AU:65:ARG:HA	19:AU:70:LEU:HD12	1.78	0.65
24:AZ:23:LEU:HA	24:AZ:28:LEU:CD1	2.27	0.65
34:BA:1079:G:C2	34:BA:1080:A:N1	2.65	0.65
34:BA:994:A:C8	34:BA:1216:G:H4'	2.31	0.65
34:BA:1321:C:C4	34:BA:1322:C:H2'	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1439:C:O2	34:BA:1463:C:O2	2.15	0.65
34:BA:1448:C:N3	34:BA:1459:C:O2	2.28	0.65
34:BA:263:A:O5'	34:BA:263:A:C8	2.49	0.65
34:BA:363:A:C2'	34:BA:364:A:H5'	2.26	0.65
34:BA:522:C:N4	34:BA:523:A:C6	2.65	0.65
35:BF:15:VAL:HG21	35:BF:210:SER:N	2.11	0.65
35:BF:39:ILE:O	35:BF:41:ILE:CD1	2.45	0.65
36:BG:39:ILE:HG22	36:BG:40:ARG:N	2.11	0.65
36:BG:82:GLU:O	36:BG:85:ARG:HB3	1.97	0.65
37:BH:11:LEU:CA	37:BH:14:ARG:HB3	2.26	0.65
38:BI:133:TYR:CD2	38:BI:136:MET:HG3	2.32	0.65
34:BA:1367:C:OP1	42:BM:115:GLY:HA2	1.97	0.65
42:BM:26:VAL:HG13	42:BM:63:ILE:HD11	1.78	0.65
42:BM:50:LEU:HD22	42:BM:51:ARG:NH1	2.10	0.65
43:BN:7:LYS:HG3	43:BN:71:LEU:HD11	1.78	0.65
45:BP:85:ILE:HA	45:BP:99:HIS:O	1.97	0.65
46:BQ:56:LEU:HD13	46:BQ:60:VAL:HG22	1.78	0.65
46:BQ:65:LYS:HA	46:BQ:66:LEU:HB3	1.78	0.65
48:BS:3:ILE:HD12	48:BS:3:ILE:H	1.62	0.65
52:BW:22:LEU:O	52:BW:25:LYS:NZ	2.29	0.65
53:BX:26:ASN:HD22	53:BX:27:LYS:N	1.95	0.65
53:BX:73:HIS:N	53:BX:76:ALA:HB3	2.09	0.65
57:BZ:70:ILE:O	57:BZ:71:ASN:HB2	1.97	0.65
1:AA:1579:A:C8	1:AA:1580:A:N3	2.64	0.65
1:AA:1579:A:H2'	1:AA:1580:A:C4'	2.27	0.65
2:AB:0:A:N3	2:AB:0:A:H5''	2.11	0.65
1:AA:1238:G:C2	1:AA:1239:G:C4	2.85	0.65
1:AA:1275:A:H2'	1:AA:1276:A:O4'	1.96	0.65
1:AA:1307:A:O2'	1:AA:1308:A:H5'	1.97	0.65
1:AA:1400:G:H2'	1:AA:1401:G:C8	2.32	0.65
1:AA:1519:G:H3'	1:AA:1520:U:C2	2.31	0.65
1:AA:1433:U:O2	1:AA:1561:G:C2	2.50	0.65
1:AA:1710:C:H4'	1:AA:2858:C:N3	2.12	0.65
1:AA:1955:U:P	1:AA:1956:U:O4	2.55	0.65
1:AA:2049:G:C2	1:AA:2620:C:C2	2.84	0.65
1:AA:2051:A:C2	1:AA:2052:G:N7	2.65	0.65
1:AA:227:A:N6	1:AA:2407:G:C8	2.65	0.65
1:AA:2531:A:H2'	1:AA:2532:G:O5'	1.97	0.65
1:AA:2546:U:C4'	1:AA:2565:A:C2	2.80	0.65
1:AA:2651:C:O2	1:AA:2670:A:C6	2.42	0.65
1:AA:2652:C:C4	1:AA:2670:A:N9	2.38	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2681:C:O2'	1:AA:2682:U:C5'	2.38	0.65
1:AA:270(A):A:H3'	1:AA:366:C:O2'	1.97	0.65
1:AA:350:U:O2	1:AA:350:U:C2'	2.44	0.65
1:AA:445:C:H5"	16:AR:3:ARG:CG	2.27	0.65
1:AA:502:A:H3'	1:AA:502:A:C8	2.32	0.65
1:AA:878:A:C4	1:AA:879:G:C8	2.85	0.65
1:AA:783:A:H3'	4:AD:227:ASN:CG	2.17	0.65
4:AD:57:GLY:H	4:AD:217:ARG:CD	2.08	0.65
5:AE:104:VAL:CG2	5:AE:198:VAL:HG22	2.26	0.65
6:AF:31:HIS:HB2	11:AM:14:LYS:NZ	2.10	0.65
1:AA:673:C:H5"	6:AF:81:PRO:CG	2.27	0.65
7:AG:18:GLU:OE1	7:AG:22:ARG:NH1	2.30	0.65
7:AG:39:ILE:HD12	7:AG:92:VAL:O	1.97	0.65
8:AH:40:GLU:CB	8:AH:55:PRO:HG3	2.27	0.65
8:AH:60:ARG:HG2	8:AH:64:LEU:CD1	2.27	0.65
32:AJ:104:VAL:HG11	32:AJ:127:ILE:HD13	1.05	0.65
32:AJ:66:THR:O	32:AJ:67:PHE:HB2	1.96	0.65
9:AK:14:VAL:HG22	9:AK:138:LEU:HD13	1.78	0.65
10:AL:25:LEU:HD13	10:AL:38:VAL:HB	1.79	0.65
10:AL:15:GLY:CA	10:AL:47:ILE:HB	2.26	0.65
10:AL:97:ARG:NE	10:AL:98:VAL:N	2.45	0.65
14:AP:94:TYR:CD1	14:AP:94:TYR:N	2.64	0.65
15:AQ:30:VAL:HG22	15:AQ:32:TYR:HE2	1.58	0.65
15:AQ:64:ARG:O	15:AQ:65:LYS:C	2.35	0.65
16:AR:108:GLU:C	16:AR:110:VAL:N	2.42	0.65
1:AA:532:A:H4'	16:AR:28:ARG:NH1	2.12	0.65
16:AR:44:ASN:O	16:AR:47:TYR:CB	2.27	0.65
17:AS:12:TYR:CE1	17:AS:14:VAL:N	2.65	0.65
17:AS:43:GLU:N	17:AS:44:LYS:NZ	2.37	0.65
18:AT:19:LEU:O	18:AT:22:ASP:HB2	1.97	0.65
19:AU:43:VAL:HG12	19:AU:44:GLU:N	2.11	0.65
20:AV:98:VAL:N	20:AV:101:LYS:HE3	2.12	0.65
21:AW:49:ARG:O	21:AW:50:GLN:C	2.34	0.65
22:AX:12:ASN:HA	22:AX:14:ARG:NE	2.12	0.65
34:BA:1049:U:O5'	34:BA:1049:U:H6	1.78	0.65
34:BA:1152:A:C2	34:BA:1153:C:C4	2.84	0.65
34:BA:1151:A:C4	34:BA:1152:A:C8	2.85	0.65
34:BA:1171:G:H2'	34:BA:1172:C:C6	2.32	0.65
34:BA:1186:G:N2	47:BR:61:TRP:O	2.25	0.65
34:BA:1069:C:H1'	34:BA:1191:A:H2	1.60	0.65
34:BA:1248:A:H2'	42:BM:70:LYS:HZ1	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:130:A:H4'	34:BA:190:G:N3	2.12	0.65
34:BA:1345:U:H5'	34:BA:1346:A:OP1	1.95	0.65
34:BA:1405:G:H2'	34:BA:1406:U:C6	2.31	0.65
34:BA:1443:G:O3'	34:BA:1446:A:H4'	1.95	0.65
34:BA:1526:G:H2'	34:BA:1527:C:C5	2.31	0.65
34:BA:479:C:H2'	34:BA:480:U:C2	2.31	0.65
34:BA:520:A:H8	34:BA:521:G:H5''	1.62	0.65
34:BA:543:C:P	37:BH:10:ARG:HH22	2.19	0.65
34:BA:562:C:O2'	45:BP:15:ARG:HB3	1.96	0.65
34:BA:566:G:H4'	34:BA:567:G:OP1	1.96	0.65
34:BA:696:A:N3	34:BA:697:U:O4'	2.29	0.65
34:BA:735:C:H2'	34:BA:736:C:C6	2.26	0.65
34:BA:908:A:C2	34:BA:909:A:N7	2.64	0.65
36:BG:76:VAL:HG12	36:BG:77:ILE:N	2.11	0.65
38:BI:17:ALA:HA	38:BI:26:PHE:CD2	2.31	0.65
43:BN:5:ARG:HB2	43:BN:5:ARG:NH1	2.11	0.65
44:BO:44:SER:H	44:BO:47:VAL:HB	1.62	0.65
44:BO:63:LEU:O	44:BO:66:LEU:HB2	1.97	0.65
45:BP:25:PRO:O	45:BP:27:LEU:N	2.30	0.65
49:BT:26:ARG:O	49:BT:27:LYS:O	2.14	0.65
49:BT:35:LYS:HZ2	49:BT:37:GLY:N	1.94	0.65
53:BX:66:ALA:O	53:BX:67:ALA:C	2.33	0.65
57:BZ:234:ASN:ND2	57:BZ:247:ARG:HB2	2.05	0.65
57:BZ:2:ILE:HG21	57:BZ:267:LEU:HD22	1.76	0.65
57:BZ:303:ASP:CB	57:BZ:343:VAL:O	2.43	0.65
57:BZ:62:ALA:HB2	57:BZ:187:TYR:CG	2.32	0.65
57:BZ:6:ARG:CZ	57:BZ:195:PRO:C	2.65	0.65
57:BZ:8:ILE:HA	57:BZ:72:ILE:HG21	1.77	0.65
1:AA:2142:C:H2'	1:AA:2143:C:H6	1.56	0.65
14:AP:54:LEU:HG	14:AP:56:LEU:CD2	2.27	0.65
1:AA:1025:G:H1'	1:AA:1134:G:H4'	1.79	0.65
1:AA:1296:G:H2'	1:AA:1297:C:H6	1.62	0.65
1:AA:1497:U:O4	1:AA:1577:C:O5'	2.14	0.65
1:AA:1312:U:H3	1:AA:1604:C:H41	1.44	0.65
1:AA:229:A:H5'	1:AA:230:U:OP1	1.95	0.65
1:AA:2661:G:O5'	1:AA:2661:G:H8	1.80	0.65
1:AA:2770:G:O5'	1:AA:2770:G:H8	1.79	0.65
1:AA:2779:U:C5'	1:AA:2780:G:H3'	2.27	0.65
1:AA:308:G:N2	1:AA:329:G:H2'	2.12	0.65
1:AA:400:G:C8	1:AA:400:G:H3'	2.32	0.65
1:AA:446:G:OP2	1:AA:446:G:C8	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:772:C:O2'	1:AA:773:U:H5'	1.96	0.65
1:AA:464:U:C2	1:AA:788:A:N7	2.65	0.65
1:AA:904:C:HO2'	1:AA:905:U:H5'	1.61	0.65
1:AA:917:A:N6	1:AA:918:A:C6	2.64	0.65
3:AC:128:GLY:HA2	3:AC:137:LEU:CD1	2.27	0.65
3:AC:209:LEU:HD21	3:AC:212:VAL:HB	1.77	0.65
1:AA:1798:U:H5''	4:AD:257:LEU:HB2	1.78	0.65
4:AD:63:ARG:HD2	4:AD:85:ASP:HB3	1.79	0.65
5:AE:132:HIS:O	5:AE:133:LYS:HB2	1.96	0.65
5:AE:182:LEU:HD22	5:AE:184:VAL:HG13	1.77	0.65
5:AE:41:LYS:N	5:AE:41:LYS:HE3	2.12	0.65
8:AH:84:SER:CA	8:AH:134:SER:HA	2.25	0.65
8:AH:88:LEU:C	8:AH:88:LEU:HD23	2.16	0.65
1:AA:1080:C:H5'	32:AJ:128:ALA:C	2.17	0.65
11:AM:74:GLU:CB	11:AM:111:ARG:O	2.31	0.65
11:AM:46:LYS:HB3	11:AM:49:ARG:NH1	2.11	0.65
11:AM:81:GLN:HG2	11:AM:86:LYS:CE	2.26	0.65
12:AN:45:GLN:HA	12:AN:48:GLU:HG2	1.79	0.65
13:AO:51:LEU:CD2	13:AO:70:LEU:HD11	2.26	0.65
14:AP:75:GLU:CA	14:AP:78:LEU:HB3	2.27	0.65
15:AQ:56:GLY:O	15:AQ:61:PHE:HA	1.97	0.65
16:AR:89:GLU:HB3	17:AS:52:VAL:H	1.55	0.65
18:AT:34:ASN:ND2	18:AT:37:ARG:HH11	1.95	0.65
19:AU:27:THR:HG22	19:AU:80:ILE:CG2	2.26	0.65
19:AU:54:VAL:C	19:AU:55:ASN:HD22	1.99	0.65
20:AV:24:VAL:O	20:AV:24:VAL:HG23	1.97	0.65
19:AU:7:VAL:HG11	23:AY:31:ARG:NH2	2.11	0.65
24:AZ:6:VAL:CG2	24:AZ:35:ARG:HG3	2.13	0.65
34:BA:1003:G:C4	34:BA:1004:A:H1'	2.32	0.65
34:BA:1115:C:O2	34:BA:1186:G:C4	2.50	0.65
34:BA:1202:G:N2	34:BA:1203:C:H1'	2.11	0.65
34:BA:1378:C:OP1	40:BK:6:ARG:HD3	1.97	0.65
34:BA:1508:G:O2'	34:BA:1509:C:H5'	1.96	0.65
34:BA:187:C:O2	34:BA:191(A):G:C6	2.50	0.65
34:BA:236:G:N3	34:BA:236:G:H2'	2.12	0.65
34:BA:313:A:H2'	34:BA:314:C:H6	1.58	0.65
34:BA:481:G:H5'	34:BA:482:A:OP1	1.97	0.65
34:BA:524:G:H2'	34:BA:525:C:H6	1.62	0.65
34:BA:809:G:C2'	34:BA:810:C:H5'	2.27	0.65
34:BA:982:U:H1'	34:BA:983:A:N6	2.12	0.65
34:BA:986:A:H5'	52:BW:55:LYS:HZ1	0.82	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1158:C:H1'	35:BF:133:LYS:HZ1	1.60	0.65
35:BF:163:PHE:CE1	35:BF:186:ALA:HA	2.32	0.65
35:BF:196:LEU:C	35:BF:196:LEU:HD12	2.18	0.65
35:BF:61:LEU:HD11	35:BF:68:ILE:HD13	1.78	0.65
41:BL:29:SER:O	41:BL:32:LYS:HG2	1.96	0.65
42:BM:26:VAL:HG13	42:BM:63:ILE:CD1	2.26	0.65
51:BV:74:ARG:HA	51:BV:79:LEU:HD13	1.76	0.65
53:BX:49:ALA:HA	53:BX:92:LEU:CD2	2.26	0.65
57:BZ:188:GLN:OE1	57:BZ:188:GLN:HA	1.95	0.65
57:BZ:64:ILE:HB	57:BZ:65:LYS:HA	1.79	0.65
57:BZ:216:SER:O	57:BZ:217:TYR:HB2	1.96	0.65
34:BA:772:U:O2'	34:BA:773:G:H5'	1.97	0.65
1:AA:1064:C:N3	1:AA:1065:U:C2	2.65	0.65
1:AA:1184:G:OP1	24:AZ:30:ARG:NH1	2.30	0.65
1:AA:331:A:C5	1:AA:1209:G:C2	2.85	0.65
1:AA:1429:G:H3'	1:AA:1430:C:C6	2.32	0.65
1:AA:1394:U:O3'	1:AA:1603:A:H5''	1.97	0.65
1:AA:1634:A:O2'	1:AA:1635:G:P	2.55	0.65
1:AA:1803:A:H2'	1:AA:1804:C:H6	1.61	0.65
1:AA:1858:G:N2	1:AA:1884:A:H1'	2.11	0.65
1:AA:197:A:O4'	1:AA:2068:U:C2	2.51	0.65
1:AA:2176:A:C4	3:AC:44:HIS:CD2	2.84	0.65
1:AA:2324:C:O2	1:AA:2385:C:H5	1.79	0.65
1:AA:411:G:N2	1:AA:2408:U:H3	1.92	0.65
1:AA:270(S):G:C2	1:AA:270(T):G:N7	2.66	0.65
58:AA:3001:NMY:N23	58:AA:3001:NMY:H15	2.11	0.65
1:AA:261:G:C4'	1:AA:608:A:H2	1.99	0.65
1:AA:77:C:H2'	1:AA:78:A:C8	2.32	0.65
1:AA:801:G:O2'	1:AA:802:A:OP1	2.13	0.65
1:AA:973:A:O2'	1:AA:974:G:O5'	2.14	0.65
1:AA:975:G:C6	1:AA:976:C:C5	2.85	0.65
1:AA:9:U:H2'	1:AA:9:U:O2	1.97	0.65
2:AB:110:G:H2'	2:AB:111:U:O5'	1.97	0.65
2:AB:14:U:H1'	2:AB:107:U:H1'	1.78	0.65
3:AC:89:ALA:HB1	3:AC:154:ARG:CB	2.26	0.65
4:AD:172:TYR:HB3	4:AD:184:LYS:CG	2.26	0.65
4:AD:27:THR:C	4:AD:29:PRO:HD2	2.17	0.65
5:AE:112:GLY:O	5:AE:159:HIS:HA	1.96	0.65
1:AA:2636:U:H4'	5:AE:79:ARG:CD	2.27	0.65
5:AE:36:ARG:CG	5:AE:79:ARG:HH11	1.97	0.65
7:AG:113:ARG:O	7:AG:114:ILE:HG22	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:19:LEU:HG	7:AG:22:ARG:NH2	2.12	0.65
7:AG:68:PRO:HG3	7:AG:72:ARG:NH1	2.11	0.65
7:AG:75:LYS:HB3	7:AG:84:LYS:CA	2.27	0.65
8:AH:8:PRO:HD2	8:AH:69:ARG:HH11	1.62	0.65
8:AH:85:LYS:HE2	8:AH:142:GLY:HA2	1.78	0.65
9:AK:108:PRO:O	9:AK:113:GLY:HA3	1.97	0.65
9:AK:37:LYS:HE2	9:AK:43:THR:CG2	2.26	0.65
9:AK:39:ARG:HD3	9:AK:48:MET:HG2	1.78	0.65
9:AK:89:LYS:HA	9:AK:92:ALA:HB3	1.79	0.65
9:AK:87:LEU:O	9:AK:91:LEU:HD21	1.97	0.65
10:AL:89:ASN:HD22	10:AL:91:LEU:HB2	1.58	0.65
13:AO:108:GLY:O	13:AO:110:PRO:HD3	1.97	0.65
14:AP:30:ARG:CG	14:AP:91:PRO:HG3	2.26	0.65
15:AQ:109:GLU:HB2	15:AQ:114:LEU:HD21	1.79	0.65
16:AR:102:GLU:O	16:AR:105:VAL:N	2.30	0.65
17:AS:43:GLU:H	17:AS:44:LYS:CE	2.10	0.65
20:AV:108:THR:HG22	20:AV:109:GLU:OE1	1.97	0.65
21:AW:141:VAL:CG1	21:AW:142:SER:H	2.10	0.65
21:AW:152:ALA:O	21:AW:155:LEU:HB2	1.97	0.65
21:AW:128:VAL:HB	21:AW:162:GLU:HB3	1.79	0.65
22:AX:23:VAL:CA	22:AX:38:VAL:HG13	2.27	0.65
1:AA:1158:C:H5'	24:AZ:31:LEU:HB3	1.78	0.65
24:AZ:50:VAL:O	24:AZ:52:HIS:ND1	2.29	0.65
34:BA:1005:A:H1'	34:BA:1036:G:N2	2.12	0.65
34:BA:1240:U:OP2	40:BK:116:ALA:N	2.29	0.65
34:BA:1251:A:H61	34:BA:1285:A:H2	1.43	0.65
34:BA:1252:A:C6	34:BA:1253:G:N7	2.65	0.65
34:BA:314:C:H2'	34:BA:315:A:H1'	1.78	0.65
34:BA:328:C:O2'	34:BA:329:A:P	2.55	0.65
34:BA:759:A:N6	34:BA:760:G:N3	2.44	0.65
34:BA:765:G:H21	34:BA:816:A:H2	1.45	0.65
34:BA:865:A:H2'	34:BA:866:C:O4'	1.97	0.65
56:BE:18:G:C2	56:BE:58:A:O4'	2.50	0.65
56:BE:18:G:C4	56:BE:58:A:N3	2.65	0.65
35:BF:97:TRP:HH2	35:BF:176:GLU:CG	2.09	0.65
35:BF:224:GLN:HG2	35:BF:229:VAL:CG2	2.27	0.65
37:BH:143:GLY:HA2	37:BH:185:PHE:CG	2.32	0.65
37:BH:67:ILE:C	37:BH:67:ILE:HD12	2.17	0.65
38:BI:142:LEU:N	38:BI:143:ARG:HE	1.94	0.65
39:BJ:7:ASN:CG	39:BJ:62:TRP:HD1	2.01	0.65
43:BN:11:PHE:HZ	43:BN:65:LEU:HG	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:27:ALA:HB2	43:BN:85:LEU:CD1	2.26	0.65
44:BO:48:ILE:O	44:BO:49:GLY:C	2.36	0.65
45:BP:85:ILE:CD1	45:BP:98:TYR:HB2	2.26	0.65
46:BQ:56:LEU:HD12	46:BQ:60:VAL:HG21	1.79	0.65
46:BQ:66:LEU:H	46:BQ:70:LEU:HB2	1.62	0.65
49:BT:49:LEU:HD11	49:BT:51:VAL:CG2	2.20	0.65
51:BV:29:PHE:CD2	51:BV:39:VAL:HG11	2.32	0.65
52:BW:53:ASN:ND2	52:BW:56:GLN:HB2	2.07	0.65
52:BW:62:ILE:CD1	52:BW:67:VAL:HA	2.26	0.65
52:BW:36:ARG:HA	52:BW:71:LEU:HD12	1.79	0.65
53:BX:88:VAL:HG12	53:BX:92:LEU:CD1	2.26	0.65
57:BZ:172:ALA:HB2	57:BZ:179:MET:SD	2.35	0.65
57:BZ:392:ILE:HD12	57:BZ:392:ILE:C	2.17	0.65
56:BD:59:U:O5'	56:BD:59:U:H6	1.80	0.65
57:BZ:38:THR:HA	57:BZ:39:GLN:CB	2.06	0.65
1:AA:1024:G:C5	1:AA:1025:G:H8	2.12	0.64
1:AA:1084:A:N7	1:AA:1085:A:N1	2.45	0.64
1:AA:1105:U:C4	1:AA:1107:G:N1	2.63	0.64
1:AA:1519:G:C3'	1:AA:1520:U:O4'	2.45	0.64
1:AA:1543:A:O5'	1:AA:1544:C:H5''	1.97	0.64
1:AA:1681:G:C2'	1:AA:1682:G:OP1	2.44	0.64
1:AA:1703:G:C2	1:AA:1704:G:C4	2.85	0.64
1:AA:1681:G:N1	1:AA:1762:A:N7	2.45	0.64
1:AA:1834:U:C1'	1:AA:1969:A:C2	2.80	0.64
1:AA:18:C:H6	1:AA:18:C:O5'	1.80	0.64
1:AA:2025:C:C2'	1:AA:2026:C:C6	2.76	0.64
1:AA:2178:C:OP1	3:AC:211:SER:HB3	1.97	0.64
1:AA:231:C:C4	1:AA:232:G:N2	2.66	0.64
1:AA:2356:C:O2'	22:AX:20:ARG:NE	2.27	0.64
1:AA:2346:A:C1'	1:AA:2383:G:C8	2.74	0.64
1:AA:2471:C:C4'	57:BZ:529:ARG:NH2	1.73	0.64
1:AA:2447:G:H8	1:AA:2500:U:H3'	0.87	0.64
1:AA:2567:G:C6	1:AA:2568:C:N4	2.64	0.64
1:AA:565:C:O3'	1:AA:1253:A:H2	1.80	0.64
1:AA:566:U:C5'	17:AS:82:ARG:CZ	2.75	0.64
1:AA:60:G:O6	1:AA:88:G:O6	2.15	0.64
1:AA:89:G:OP2	1:AA:91:A:OP1	2.15	0.64
1:AA:941:A:C2	1:AA:942:G:C4	2.85	0.64
1:AA:979:G:N7	1:AA:981:A:P	2.71	0.64
2:AB:24:G:N2	2:AB:27:C:H42	1.96	0.64
3:AC:182:PRO:HG2	3:AC:183:GLU:CD	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2124:G:O3'	3:AC:42:GLU:CD	2.35	0.64
4:AD:136:ILE:CD1	4:AD:173:VAL:HG21	2.26	0.64
4:AD:55:GLY:HA2	4:AD:217:ARG:CZ	2.27	0.64
1:AA:1789:A:O4'	4:AD:222:ARG:NH2	2.29	0.64
4:AD:261:LYS:C	4:AD:263:ARG:N	2.46	0.64
5:AE:128:SER:O	5:AE:130:GLY:N	2.31	0.64
7:AG:49:ASP:N	7:AG:53:LEU:HD13	2.13	0.64
8:AH:157:TYR:CD1	8:AH:158:HIS:N	2.65	0.64
8:AH:18:GLU:OE1	8:AH:25:LYS:HG2	1.97	0.64
8:AH:52:VAL:HG22	8:AH:65:HIS:CE1	2.32	0.64
8:AH:72:ILE:O	8:AH:75:ALA:HB3	1.96	0.64
31:AI:152:VAL:O	31:AI:155:GLY:C	2.35	0.64
11:AM:35:HIS:O	11:AM:36:LYS:HD3	1.97	0.64
14:AP:11:LYS:N	14:AP:11:LYS:CD	2.59	0.64
16:AR:35:ALA:O	16:AR:38:THR:OG1	2.15	0.64
16:AR:94:ASN:HA	16:AR:97:ASP:CG	2.17	0.64
17:AS:69:LYS:HE2	17:AS:70:ILE:HD11	1.79	0.64
20:AV:32:PRO:HB2	20:AV:34:LYS:HE3	1.80	0.64
20:AV:47:LYS:HZ3	20:AV:51:VAL:HG21	1.60	0.64
21:AW:98:MET:HE2	21:AW:100:VAL:HG12	1.77	0.64
21:AW:159:PRO:O	21:AW:161:VAL:HG23	1.97	0.64
22:AX:37:LEU:HD21	22:AX:60:PHE:HA	1.77	0.64
1:AA:987:G:OP2	24:AZ:13:ILE:HD13	1.97	0.64
1:AA:931:G:N3	24:AZ:24:LYS:HE3	2.12	0.64
24:AZ:35:ARG:HH22	24:AZ:47:VAL:CG1	2.10	0.64
34:BA:1054:C:H6	34:BA:1054:C:H3'	1.62	0.64
34:BA:1295:G:N2	34:BA:1302:U:H3	1.95	0.64
34:BA:1329:A:O2'	46:BQ:70:LEU:CG	2.45	0.64
34:BA:391:G:OP1	49:BT:28:ARG:NH2	2.30	0.64
34:BA:576:G:C8	34:BA:881:G:H1'	2.30	0.64
34:BA:647:C:N3	34:BA:648:A:N7	2.44	0.64
34:BA:701:C:O2'	34:BA:702:A:OP2	2.12	0.64
56:BD:74:C:C1'	56:BD:75:C:P	2.84	0.64
56:BE:21:A:N1	56:BE:46:G:N2	2.45	0.64
41:BL:97:VAL:HG13	41:BL:98:LYS:NZ	2.11	0.64
46:BQ:16:ASP:HA	46:BQ:30:ALA:HB1	1.79	0.64
50:BU:51:TYR:N	50:BU:51:TYR:CD1	2.61	0.64
50:BU:65:ILE:HG23	50:BU:69:LYS:O	1.96	0.64
50:BU:6:LEU:HD12	50:BU:6:LEU:C	2.17	0.64
34:BA:189:U:N3	50:BU:72:ARG:NH2	2.44	0.64
50:BU:88:TYR:CA	50:BU:91:ARG:NH2	2.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:20:LEU:HG	52:BW:21:GLU:H	1.62	0.64
52:BW:62:ILE:CD1	52:BW:67:VAL:HG13	2.26	0.64
57:BZ:55:THR:O	57:BZ:56:ILE:HB	1.97	0.64
57:BZ:89:MET:CG	57:BZ:119:TYR:CE2	2.79	0.64
56:BD:67:C:C6	56:BD:68:C:C6	2.85	0.64
57:BZ:515:GLY:O	57:BZ:516:ALA:C	2.33	0.64
1:AA:1482:U:O2'	1:AA:1512:G:N2	2.30	0.64
1:AA:2797:U:H4'	1:AA:2798:C:O4'	1.98	0.64
34:BA:772:U:H2'	34:BA:773:G:H8	1.62	0.64
1:AA:1142(A):A:P	1:AA:1143:A:H5'	2.37	0.64
1:AA:942:G:O2'	1:AA:1189:A:N3	2.29	0.64
1:AA:1202:C:C6	1:AA:1203:G:C1'	2.71	0.64
1:AA:1221:C:C2	1:AA:1229:G:N2	2.65	0.64
1:AA:1420:U:O2'	1:AA:1421:G:H5''	1.97	0.64
1:AA:1464:C:C4'	1:AA:1528:A:H1'	2.27	0.64
1:AA:1471:A:OP2	1:AA:1472:A:H2	1.79	0.64
1:AA:1534:G:H21	1:AA:1537:C:H41	1.46	0.64
1:AA:1980:G:C5	1:AA:1982:C:C5	2.85	0.64
1:AA:2021:C:H5'	1:AA:2022:U:C5	2.31	0.64
1:AA:2331:G:H2'	1:AA:2332:U:C1'	2.25	0.64
1:AA:2538:C:C2	1:AA:2539:C:C5	2.86	0.64
1:AA:746:A:C8	1:AA:2612:C:O5'	2.50	0.64
1:AA:2670:A:C4	1:AA:2671:A:C8	2.85	0.64
1:AA:2749:A:H5'	8:AH:62:LYS:C	2.18	0.64
1:AA:2758:A:N6	1:AA:2759:G:O6	2.30	0.64
1:AA:465:G:C5	1:AA:466:A:N7	2.65	0.64
1:AA:516:C:H6	1:AA:516:C:O5'	1.80	0.64
1:AA:13:A:N6	1:AA:525:U:C2	2.65	0.64
1:AA:563:G:N2	1:AA:578:A:N1	2.45	0.64
1:AA:641:C:N4	1:AA:646:A:H61	1.94	0.64
1:AA:714:U:O2	1:AA:717:G:C8	2.50	0.64
1:AA:800:A:O2'	1:AA:801:G:P	2.55	0.64
1:AA:826:U:H5''	1:AA:2429:G:P	2.37	0.64
1:AA:930:U:O2'	1:AA:931:G:P	2.55	0.64
1:AA:930:U:O2	1:AA:932:G:C2	2.50	0.64
1:AA:950:G:C6	1:AA:951:C:C4	2.85	0.64
2:AB:75:G:H21	21:AW:27:VAL:CG2	2.10	0.64
3:AC:120:MET:SD	3:AC:145:VAL:HG22	2.36	0.64
3:AC:180:PHE:HB3	3:AC:182:PRO:CA	2.14	0.64
3:AC:62:VAL:HG23	3:AC:191:ALA:O	1.95	0.64
4:AD:69:ARG:NH2	4:AD:130:ALA:CB	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:150:LYS:C	4:AD:152:GLY:H	2.00	0.64
4:AD:181:GLU:CB	4:AD:268:ARG:NH2	2.58	0.64
4:AD:246:PRO:HG3	4:AD:252:TRP:HA	1.79	0.64
4:AD:252:TRP:N	4:AD:255:LYS:NZ	2.41	0.64
4:AD:45:ASN:C	4:AD:46:GLN:HG3	2.17	0.64
6:AF:118:ALA:HB1	6:AF:122:LYS:HB2	1.79	0.64
8:AH:126:PRO:CG	8:AH:132:ARG:NH2	2.61	0.64
32:AJ:14:ALA:C	32:AJ:48:MET:O	2.35	0.64
32:AJ:76:TYR:HD2	32:AJ:80:LYS:CD	2.10	0.64
9:AK:60:ILE:HG22	9:AK:61:ARG:N	2.13	0.64
10:AL:97:ARG:HD3	10:AL:118:ALA:HB2	1.78	0.64
11:AA:637:A:N7	11:AM:115:LEU:HG	2.11	0.64
11:AM:64:LYS:O	11:AM:64:LYS:HD2	1.96	0.64
12:AN:63:LYS:HZ2	12:AN:64:ILE:HG13	1.61	0.64
13:AO:17:ARG:CG	13:AO:18:LEU:N	2.60	0.64
1:AA:2882:A:C5'	13:AO:98:LEU:HD21	2.27	0.64
2:AB:115:G:H4'	14:AP:50:SER:CB	2.27	0.64
14:AP:69:VAL:HG12	14:AP:73:LEU:HD21	1.78	0.64
15:AQ:34:VAL:HG23	15:AQ:36:GLU:HB2	1.78	0.64
1:AA:2018:G:C1'	16:AR:34:LYS:NZ	2.59	0.64
18:AT:12:ILE:O	18:AT:13:SER:HB2	1.98	0.64
18:AT:66:GLU:O	18:AT:69:LEU:HD13	1.97	0.64
19:AU:31:HIS:O	19:AU:33:LYS:N	2.29	0.64
20:AV:14:LEU:HD12	20:AV:14:LEU:N	2.12	0.64
34:BA:103:C:H1'	34:BA:151:A:C2	2.32	0.64
34:BA:1436:U:O5'	34:BA:1436:U:H6	1.79	0.64
34:BA:1485:U:HO2'	34:BA:1486:G:H8	1.44	0.64
34:BA:1415:G:C6	34:BA:1486:G:O6	2.49	0.64
34:BA:579:G:O5'	34:BA:579:G:H8	1.80	0.64
35:BF:69:LEU:HD13	35:BF:70:PHE:N	2.12	0.64
36:BG:157:ILE:HG13	36:BG:164:ARG:HG2	1.80	0.64
36:BG:38:ARG:CG	36:BG:94:LEU:HD21	2.27	0.64
39:BJ:76:ALA:O	39:BJ:80:ARG:HG3	1.98	0.64
41:BL:126:LYS:HE3	41:BL:127:LEU:HB2	1.80	0.64
45:BP:9:GLN:HA	45:BP:12:ARG:NH1	2.13	0.64
46:BQ:14:ARG:CB	46:BQ:41:PRO:C	2.47	0.64
46:BQ:84:ILE:HG13	46:BQ:86:CYS:HB3	1.80	0.64
47:BR:34:TYR:OH	47:BR:44:LEU:HD22	1.97	0.64
49:BT:4:ILE:CG2	49:BT:21:VAL:CG1	2.72	0.64
49:BT:42:ARG:O	49:BT:43:LYS:HB2	1.96	0.64
50:BU:3:LYS:HD3	50:BU:61:GLU:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:30:LEU:HA	52:BW:49:ILE:CA	2.26	0.64
52:BW:3:ARG:HE	52:BW:45:VAL:HG11	1.61	0.64
53:BX:87:LYS:O	53:BX:88:VAL:C	2.36	0.64
1:AA:2471:C:H4'	57:BZ:529:ARG:HH22	0.48	0.64
57:BZ:552:ASP:O	57:BZ:553:GLU:HB2	1.96	0.64
1:AA:1418:G:OP1	1:AA:1588:C:C4'	2.45	0.64
1:AA:1001:A:N7	1:AA:1002:G:C4	2.66	0.64
1:AA:1058:G:H1'	32:AJ:116:ASN:HD22	1.57	0.64
1:AA:1058:G:H2'	1:AA:1059:G:H5'	1.80	0.64
1:AA:1198:U:H2'	1:AA:1199:U:H5	1.60	0.64
1:AA:1242:A:OP1	1:AA:1242:A:O4'	2.15	0.64
1:AA:1252:G:O2'	16:AR:33:ARG:NE	2.25	0.64
1:AA:1570:A:N6	1:AA:1571:A:N6	2.41	0.64
1:AA:1791:A:O3'	4:AD:206:LEU:HD21	1.97	0.64
1:AA:1824:G:C2	1:AA:1825:A:H1'	2.32	0.64
1:AA:1926:U:H6	1:AA:1926:U:O5'	1.80	0.64
1:AA:2460:U:H2'	1:AA:2461:C:C6	2.32	0.64
1:AA:1954:G:N3	1:AA:2551:C:H5''	2.11	0.64
1:AA:2585:U:H6	1:AA:2585:U:OP1	1.80	0.64
1:AA:2660:A:C8	1:AA:2661:G:C5	2.84	0.64
1:AA:2720:U:H3'	1:AA:2721:A:C8	2.33	0.64
1:AA:388:G:H1'	1:AA:390:A:H62	1.62	0.64
1:AA:527:C:O4'	1:AA:2779:U:O4	2.15	0.64
1:AA:604:G:H21	1:AA:658:C:H5'	1.62	0.64
1:AA:830:G:O2'	1:AA:831:G:OP1	2.11	0.64
1:AA:975:G:C8	1:AA:990:A:N6	2.65	0.64
2:AB:95:U:H2'	2:AB:96:G:C8	2.32	0.64
3:AC:64:LEU:CD1	3:AC:188:ASN:HD22	1.92	0.64
3:AC:171:ILE:HD11	3:AC:192:PHE:HZ	1.00	0.64
4:AD:143:HIS:O	4:AD:145:VAL:N	2.26	0.64
5:AE:178:GLU:N	5:AE:178:GLU:OE1	2.22	0.64
5:AE:27:LEU:CD1	5:AE:76:ARG:NH1	2.61	0.64
6:AF:36:VAL:CG2	6:AF:183:VAL:HG21	2.21	0.64
7:AG:131:TYR:CD1	7:AG:158:ALA:HA	2.32	0.64
7:AG:38:VAL:HG12	7:AG:93:THR:HA	1.79	0.64
7:AG:78:SER:HB2	7:AG:82:LEU:HB3	1.78	0.64
8:AH:51:ARG:HD3	8:AH:52:VAL:N	2.13	0.64
32:AJ:12:LEU:HD13	32:AJ:23:VAL:HG21	1.80	0.64
10:AL:11:ALA:CB	10:AL:97:ARG:NH1	2.55	0.64
10:AL:7:TYR:HA	10:AL:18:LYS:CE	2.28	0.64
10:AL:94:ARG:HG2	10:AL:96:THR:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:96:THR:C	11:AM:102:ARG:HD3	2.17	0.64
11:AM:97:PRO:HB3	11:AM:102:ARG:NH1	2.12	0.64
11:AM:29:LYS:HD2	11:AM:29:LYS:N	2.11	0.64
12:AN:25:ASP:CB	12:AN:101:ARG:HD2	2.23	0.64
12:AN:59:ARG:HA	12:AN:60:ARG:CZ	2.27	0.64
13:AO:83:ILE:CG2	13:AO:86:ARG:CZ	2.74	0.64
15:AQ:53:ARG:NH2	15:AQ:102:ILE:HD13	2.12	0.64
15:AQ:11:GLU:O	15:AQ:12:SER:C	2.33	0.64
15:AQ:49:VAL:C	15:AQ:50:ILE:HG12	2.17	0.64
15:AQ:6:LEU:HA	15:AQ:9:LEU:HD12	1.79	0.64
1:AA:996:A:C4'	16:AR:93:LYS:HG3	2.26	0.64
17:AS:66:ARG:NE	17:AS:95:LEU:HD12	2.11	0.64
17:AS:83:ARG:HD3	17:AS:84:LYS:N	2.12	0.64
18:AT:74:ALA:O	18:AT:75:TYR:CG	2.50	0.64
20:AV:12:THR:HG21	20:AV:70:SER:O	1.97	0.64
22:AX:31:VAL:CG2	22:AX:65:GLY:O	2.45	0.64
23:AY:32:PHE:H	23:AY:32:PHE:HD1	1.46	0.64
24:AZ:6:VAL:HG13	24:AZ:56:VAL:HA	1.77	0.64
34:BA:1311:G:O6	34:BA:1327:C:C4	2.40	0.64
34:BA:1433:A:H62	34:BA:1467:G:H21	0.79	0.64
34:BA:1413:A:C2	34:BA:1488:G:C4	2.85	0.64
34:BA:138:G:N2	34:BA:226:G:H1'	2.12	0.64
34:BA:372:C:N4	34:BA:389:A:H62	1.95	0.64
34:BA:688:G:O2'	34:BA:689:C:H5'	1.96	0.64
34:BA:722:A:O3'	34:BA:723:U:N3	2.31	0.64
34:BA:748:C:C3'	34:BA:748:C:C6	2.80	0.64
56:BE:20:U:C3'	56:BE:21:A:H5''	2.09	0.64
35:BF:208:ILE:CD1	35:BF:239:VAL:HG11	2.27	0.64
35:BF:78:GLN:HE22	35:BF:96:ARG:HH22	1.43	0.64
34:BA:1191:A:P	36:BG:4:LYS:HZ3	2.20	0.64
37:BH:101:LEU:CB	37:BH:138:TYR:O	2.45	0.64
37:BH:108:LEU:O	37:BH:110:PHE:N	2.30	0.64
37:BH:110:PHE:O	37:BH:161:ASN:ND2	2.31	0.64
37:BH:205:GLU:CD	38:BI:100:VAL:HB	2.17	0.64
41:BL:13:ILE:HG22	41:BL:14:ARG:H	1.58	0.64
42:BM:40:LEU:C	42:BM:42:ARG:N	2.45	0.64
44:BO:122:LYS:O	44:BO:126:ARG:HG3	1.96	0.64
44:BO:18:ARG:HB2	44:BO:20:TYR:HE1	1.62	0.64
45:BP:76:ASN:ND2	45:BP:77:LEU:HD23	2.13	0.64
46:BQ:37:THR:HG23	46:BQ:39:ILE:CG1	2.25	0.64
48:BS:6:GLU:HG2	48:BS:7:GLU:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:59:ILE:CG1	50:BU:71:PHE:HB3	2.27	0.64
51:BV:52:PRO:HG2	51:BV:54:ARG:HB3	1.78	0.64
51:BV:74:ARG:H	51:BV:74:ARG:HD2	1.62	0.64
51:BV:73:ALA:C	51:BV:79:LEU:HD11	2.16	0.64
52:BW:45:VAL:HA	52:BW:67:VAL:CG2	2.27	0.64
54:BY:5:ASP:O	54:BY:7:ARG:HG2	1.97	0.64
57:BZ:129:LYS:NZ	60:BZ:701:GCP:C1'	2.60	0.64
57:BZ:240:ILE:HD13	57:BZ:297:LEU:HG	1.73	0.64
57:BZ:24:LYS:HG3	57:BZ:25:LEU:N	2.11	0.64
57:BZ:284:ILE:H	57:BZ:284:ILE:HD12	1.60	0.64
57:BZ:73:VAL:CB	57:BZ:75:THR:OG1	2.35	0.64
57:BZ:10:ILE:HG12	57:BZ:96:LEU:CB	2.28	0.64
55:BC:13:C:O2	55:BC:23:A:N1	2.30	0.64
34:BA:350:G:N2	34:BA:351:G:C2	2.66	0.64
1:AA:1092:C:C6	1:AA:1092:C:H3'	2.31	0.64
1:AA:1195:G:C2'	1:AA:1226:G:H22	2.10	0.64
1:AA:1204:A:OP2	1:AA:1204:A:C1'	2.46	0.64
1:AA:586:A:C6	1:AA:1254:A:H2	2.15	0.64
1:AA:1257:C:H4'	6:AF:83:PHE:HD1	1.58	0.64
1:AA:1446:C:H2'	1:AA:1447:G:C8	2.31	0.64
1:AA:1492:G:N3	1:AA:1493:C:N3	2.45	0.64
1:AA:1592:C:O2'	1:AA:1593:G:H5'	1.98	0.64
1:AA:1784:A:H4'	1:AA:1785:A:N9	2.13	0.64
1:AA:1943:U:O2'	1:AA:1944:U:OP2	2.16	0.64
1:AA:1947:C:C2	1:AA:1948:G:C8	2.85	0.64
1:AA:2039:C:H2'	1:AA:2040:C:C5	2.33	0.64
1:AA:2114:A:N3	1:AA:2168:G:H5'	2.12	0.64
1:AA:827:U:C6	1:AA:2430:A:C2	2.85	0.64
1:AA:2526:G:H2'	1:AA:2527:C:O5'	1.97	0.64
1:AA:2550:G:H2'	1:AA:2551:C:H6	1.62	0.64
1:AA:257:A:C2	1:AA:258:G:H1'	2.31	0.64
1:AA:2809:A:H3'	1:AA:2809:A:P	2.37	0.64
1:AA:2507:C:H6	59:AA:3002:8AN:C1'	2.03	0.64
1:AA:566:U:H6	1:AA:567:A:N7	1.94	0.64
3:AC:83:ILE:HG23	3:AC:87:GLU:OE2	1.98	0.64
4:AD:246:PRO:HD2	4:AD:250:TRP:C	2.18	0.64
4:AD:77:ALA:HB1	4:AD:95:LEU:HD11	1.79	0.64
4:AD:97:TYR:HB2	4:AD:101:GLU:O	1.97	0.64
5:AE:17:ASP:N	5:AE:17:ASP:OD2	2.23	0.64
6:AF:140:LEU:O	6:AF:143:ALA:HB3	1.96	0.64
7:AG:104:GLU:HA	7:AG:108:ASN:HD22	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:126:ASP:HA	7:AG:166:ASP:CG	2.18	0.64
7:AG:94:LEU:HG	7:AG:98:ARG:CZ	2.27	0.64
9:AK:87:LEU:O	9:AK:91:LEU:CD2	2.45	0.64
12:AN:75:THR:HA	12:AN:91:GLU:CD	2.18	0.64
12:AN:85:LYS:NZ	22:AX:10:THR:HG21	2.12	0.64
14:AP:103:GLU:HA	14:AP:106:ARG:CB	2.28	0.64
14:AP:19:LYS:O	14:AP:20:ARG:C	2.34	0.64
17:AS:21:ARG:O	17:AS:22:VAL:O	2.15	0.64
18:AT:10:VAL:HB	18:AT:12:ILE:HD11	1.78	0.64
24:AZ:52:HIS:CE1	24:AZ:53:LEU:HG	2.33	0.64
34:BA:1229:A:H5''	56:BE:29:G:H4'	1.79	0.64
34:BA:1371:G:P	42:BM:11:LYS:HE3	2.37	0.64
34:BA:376:G:H5''	49:BT:5:ARG:HD2	1.80	0.64
34:BA:560:U:O2'	34:BA:561:U:OP2	2.13	0.64
34:BA:603:U:H2'	34:BA:604:G:H8	1.62	0.64
34:BA:672:U:O2	34:BA:672:U:H2'	1.97	0.64
34:BA:721:G:O6	51:BV:71:LYS:NZ	2.27	0.64
1:AA:2602:A:N1	56:BD:74:C:C3'	2.61	0.64
36:BG:51:GLY:O	36:BG:52:LEU:O	2.16	0.64
37:BH:4:TYR:O	37:BH:5:ILE:HG23	1.96	0.64
38:BI:43:LEU:C	38:BI:43:LEU:HD23	2.16	0.64
38:BI:79:GLU:HB3	38:BI:92:LYS:CA	2.23	0.64
39:BJ:75:LEU:O	39:BJ:79:LEU:HG	1.97	0.64
39:BJ:7:ASN:C	39:BJ:8:ILE:HG12	2.18	0.64
40:BK:69:VAL:HG11	40:BK:104:LEU:CD2	2.27	0.64
41:BL:37:ARG:HD3	41:BL:41:ARG:CG	2.16	0.64
44:BO:106:LYS:CG	44:BO:107:SER:H	2.09	0.64
44:BO:31:THR:HG23	44:BO:41:THR:O	1.97	0.64
46:BQ:5:ALA:CB	46:BQ:67:GLU:CG	2.31	0.64
49:BT:43:LYS:HG3	49:BT:48:TRP:CE3	2.33	0.64
50:BU:41:LYS:HG2	50:BU:42:TYR:N	2.11	0.64
34:BA:836:G:P	51:BV:61:LYS:HZ1	2.21	0.64
52:BW:30:LEU:HD12	52:BW:59:PRO:HB3	1.79	0.64
54:BY:9:ARG:H	54:BY:9:ARG:HD2	1.61	0.64
57:BZ:205:PHE:CE2	57:BZ:207:MET:HB2	2.32	0.64
57:BZ:539:THR:N	57:BZ:540:GLY:HA3	2.12	0.64
55:BC:30:G:H2'	55:BC:31:A:C8	2.32	0.64
55:BC:34:G:C3'	55:BC:35:A:H5'	2.28	0.64
1:AA:274:G:C2'	1:AA:275:G:H5'	2.27	0.64
9:AK:139:GLU:O	9:AK:140:VAL:HG23	1.97	0.64
34:BA:1097:C:O2'	34:BA:1098:C:H5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:351:GLU:HG2	57:BZ:352:ASP:H	1.61	0.64
1:AA:1549:C:H2'	1:AA:1550:C:H6	1.63	0.64
1:AA:1051:G:C3'	1:AA:1052:C:H5''	2.27	0.64
1:AA:105:C:C2	1:AA:106:C:H5	2.16	0.64
1:AA:1083:U:C2'	1:AA:1084:A:H5''	2.28	0.64
1:AA:1197:G:C5	1:AA:1198:U:C6	2.85	0.64
1:AA:1341:U:O2	1:AA:1341:U:C2'	2.46	0.64
1:AA:1392:A:C6	1:AA:1393:A:N6	2.66	0.64
1:AA:1472:A:C1'	1:AA:1473:G:C8	2.81	0.64
1:AA:1558:A:H2	1:AA:1560:G:N9	1.96	0.64
1:AA:1667:G:O3'	10:AL:7:TYR:OH	2.13	0.64
1:AA:1941:C:C2'	1:AA:1942:C:O5'	2.43	0.64
1:AA:2052:G:N3	5:AE:150:VAL:HB	2.12	0.64
1:AA:574:C:H41	1:AA:2054:A:H5''	1.62	0.64
1:AA:2094:G:C2	1:AA:2196:C:C2	2.85	0.64
1:AA:2231:C:C2	1:AA:2232:U:C5	2.86	0.64
1:AA:2376:A:N3	1:AA:2377:A:H1'	2.13	0.64
1:AA:2387:U:H1'	22:AX:41:ARG:HH21	1.56	0.64
1:AA:2404:C:C2	1:AA:2414:G:N2	2.66	0.64
1:AA:2478:A:N7	1:AA:2479:G:N7	2.45	0.64
1:AA:2059:A:C2	1:AA:2503:A:N7	2.65	0.64
1:AA:2558:C:H4'	57:BZ:543:LEU:CD2	2.16	0.64
1:AA:2569:G:N1	1:AA:2570:G:N7	2.45	0.64
1:AA:2571:C:H1'	5:AE:146:THR:CG2	2.27	0.64
1:AA:283:A:O2'	1:AA:284:U:H5'	1.98	0.64
1:AA:270(C):C:OP2	1:AA:365:C:O2'	2.16	0.64
1:AA:472:A:H2'	1:AA:473:G:H5'	1.78	0.64
1:AA:596:G:C2	1:AA:597:U:C2	2.85	0.64
2:AB:74:U:H2'	2:AB:75:G:H1'	1.80	0.64
3:AC:7:TYR:CD1	3:AC:10:LEU:HB3	2.33	0.64
4:AD:134:ARG:O	4:AD:168:ARG:NH2	2.31	0.64
4:AD:57:GLY:C	4:AD:58:HIS:ND1	2.51	0.64
5:AE:102:VAL:HG22	5:AE:103:ASP:N	2.12	0.64
5:AE:5:LEU:HG	5:AE:25:VAL:HG13	1.80	0.64
7:AG:131:TYR:CG	7:AG:158:ALA:HA	2.32	0.64
7:AG:16:ARG:HH21	7:AG:16:ARG:CG	2.08	0.64
8:AH:164:TYR:CE2	8:AH:167:GLU:N	2.58	0.64
8:AH:26:VAL:CG2	8:AH:75:ALA:HB1	2.27	0.64
32:AJ:72:PRO:CD	32:AJ:77:LEU:HD21	1.88	0.64
1:AA:1059:G:H1'	32:AJ:75:SER:H	1.58	0.64
10:AL:103:ALA:HB1	10:AL:107:ARG:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:24:VAL:CA	10:AL:39:ILE:HG22	2.24	0.64
10:AL:21:CYS:HA	10:AL:41:ALA:CB	2.28	0.64
11:AM:113:LYS:HA	11:AM:129:ALA:HB3	1.79	0.64
14:AP:78:LEU:HG	14:AP:111:GLU:OE2	1.97	0.64
15:AQ:50:ILE:HD12	15:AQ:66:VAL:CG2	2.27	0.64
16:AR:79:PHE:CE1	16:AR:83:LEU:HD11	2.32	0.64
17:AS:3:ALA:HB2	17:AS:44:LYS:CD	2.28	0.64
17:AS:57:VAL:CG1	17:AS:58:VAL:H	2.02	0.64
18:AT:28:SER:H	18:AT:31:GLU:CD	2.01	0.64
20:AV:39:VAL:O	20:AV:40:GLU:HB2	1.98	0.64
21:AW:48:PHE:HD2	21:AW:54:HIS:NE2	1.92	0.64
1:AA:2261:C:OP1	22:AX:17:GLN:HB2	1.98	0.64
22:AX:46:LYS:N	22:AX:46:LYS:HD3	2.12	0.64
23:AY:58:VAL:O	23:AY:59:LEU:C	2.36	0.64
34:BA:1125:U:H4'	34:BA:1126:U:C5	2.32	0.64
34:BA:1165:C:H2'	34:BA:1166:G:C8	2.32	0.64
34:BA:1242:C:HO2'	34:BA:1303:C:H5''	1.61	0.64
34:BA:132:C:N3	34:BA:231:G:C2	2.66	0.64
34:BA:378:G:H2'	34:BA:379:C:C6	2.33	0.64
34:BA:59:A:H4'	34:BA:388:G:H5''	1.80	0.64
34:BA:394:G:C6	34:BA:395:C:N4	2.66	0.64
34:BA:570:G:H5'	34:BA:820:U:C1'	2.20	0.64
34:BA:731:G:O2'	34:BA:732:C:H5'	1.97	0.64
34:BA:817:C:O2'	34:BA:818:G:O5'	2.15	0.64
34:BA:959:A:H1'	34:BA:985:C:C1'	2.27	0.64
35:BF:175:ARG:O	35:BF:176:GLU:C	2.33	0.64
36:BG:84:ILE:O	36:BG:101:LEU:HD13	1.97	0.64
36:BG:35:GLU:O	36:BG:38:ARG:HG2	1.97	0.64
37:BH:56:VAL:HG12	37:BH:57:ARG:N	2.10	0.64
39:BJ:4:TYR:CZ	39:BJ:72:VAL:HG11	2.33	0.64
39:BJ:85:VAL:CG1	39:BJ:88:VAL:HG13	2.28	0.64
40:BK:65:ALA:N	40:BK:128:ALA:HA	2.12	0.64
40:BK:17:VAL:HG11	40:BK:44:TYR:CE2	2.32	0.64
44:BO:21:ILE:HG22	44:BO:30:VAL:CG2	2.27	0.64
52:BW:3:ARG:C	52:BW:5:LEU:HB3	2.18	0.64
53:BX:44:ALA:HB3	53:BX:91:LEU:CD1	2.13	0.64
57:BZ:190:ILE:O	57:BZ:194:VAL:N	2.29	0.64
57:BZ:405:LEU:CG	57:BZ:463:GLY:HA2	2.28	0.64
57:BZ:405:LEU:HD11	57:BZ:464:LEU:CD2	2.24	0.64
56:BD:63:G:C4	56:BD:64:A:N7	2.65	0.64
57:BZ:35:ARG:HA	57:BZ:36:ALA:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1007:C:H2'	34:BA:1008:C:C6	2.33	0.64
1:AA:1058:G:C2	1:AA:1059:G:H8	2.15	0.64
1:AA:1061:U:O2	32:AJ:11:GLN:NE2	2.31	0.64
1:AA:108:U:H2'	1:AA:109:G:C8	2.33	0.64
1:AA:1434:A:H61	1:AA:1558:A:H61	1.45	0.64
1:AA:1698:A:HO2'	1:AA:1699:G:C3'	2.09	0.64
1:AA:1905:C:O2'	1:AA:1929:G:H2'	1.98	0.64
1:AA:2052:G:H2'	1:AA:2053:G:C8	2.29	0.64
1:AA:2385:C:C2	1:AA:2386:C:C6	2.85	0.64
1:AA:807:U:O4'	1:AA:2445:G:H4'	1.97	0.64
1:AA:2572:A:H5''	1:AA:2574:G:H5''	1.79	0.64
1:AA:2645:G:OP2	1:AA:2645:G:C8	2.50	0.64
1:AA:270(W):G:C5	1:AA:270(X):G:C8	2.85	0.64
1:AA:354:G:O2'	1:AA:355:G:H5'	1.98	0.64
1:AA:594:U:H2'	1:AA:595:C:H6	1.61	0.64
1:AA:60:G:C8	1:AA:63:U:C4	2.86	0.64
1:AA:612:G:C4'	1:AA:616:A:H61	2.03	0.64
1:AA:623:G:C3'	11:AM:105:LEU:HD22	2.23	0.64
1:AA:702:G:N2	1:AA:731:C:C2	2.66	0.64
1:AA:815:C:C2'	1:AA:816:C:H5'	2.27	0.64
3:AC:43:VAL:CG1	3:AC:213:TYR:O	2.46	0.64
3:AC:43:VAL:CB	3:AC:224:ILE:HD13	2.24	0.64
3:AC:43:VAL:CG2	3:AC:189:ILE:CD1	2.76	0.64
3:AC:64:LEU:HD12	3:AC:161:ILE:HG12	1.79	0.64
4:AD:74:GLY:O	4:AD:118:VAL:HG11	1.98	0.64
5:AE:51:PHE:CZ	5:AE:53:PRO:HD3	2.32	0.64
6:AF:153:SER:H	6:AF:190:GLU:HG3	1.62	0.64
6:AF:162:LEU:HD22	6:AF:165:ARG:HH21	1.63	0.64
6:AF:196:LEU:HB3	6:AF:199:TRP:CD1	2.33	0.64
6:AF:65:TRP:CD2	6:AF:66:PRO:HD2	2.33	0.64
7:AG:74:LYS:O	7:AG:75:LYS:HB2	1.97	0.64
8:AH:17:VAL:CG2	8:AH:45:VAL:HG11	2.25	0.64
9:AK:12:ARG:HB3	9:AK:12:ARG:CZ	2.26	0.64
9:AK:67:LEU:N	9:AK:87:LEU:HD21	2.09	0.64
10:AL:77:ILE:HA	10:AL:78:ARG:NH1	2.12	0.64
11:AM:51:PHE:C	11:AM:55:ARG:HG3	2.18	0.64
11:AM:76:LYS:HZ2	11:AM:99:LEU:HD12	1.61	0.64
16:AR:19:LYS:HB2	16:AR:19:LYS:HZ2	1.61	0.64
16:AR:92:ARG:O	16:AR:95:LEU:HG	1.97	0.64
17:AS:38:LEU:HD23	17:AS:38:LEU:H	1.63	0.64
19:AU:11:PRO:HA	19:AU:28:PHE:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:14:LEU:HD22	20:AV:20:TYR:N	2.11	0.64
20:AV:26:LYS:O	20:AV:27:VAL:HG23	1.97	0.64
21:AW:152:ALA:CB	21:AW:168:GLU:HA	2.22	0.64
21:AW:153:SER:CB	21:AW:168:GLU:HB2	2.27	0.64
22:AX:50:ASN:HA	22:AX:62:LEU:HD13	1.78	0.64
22:AX:65:GLY:HA2	22:AX:82:ARG:O	1.97	0.64
34:BA:1227:A:O2'	46:BQ:115:LYS:HG2	1.98	0.64
34:BA:1269:A:H1'	34:BA:1313:U:C6	2.28	0.64
34:BA:1260:C:H4'	34:BA:1284:C:C5'	2.28	0.64
34:BA:1269:A:H1'	34:BA:1312:G:N3	2.11	0.64
34:BA:1435:G:N1	34:BA:1436:U:O4	2.30	0.64
34:BA:1443:G:C4'	34:BA:1446:A:H5'	2.19	0.64
34:BA:707:C:H4'	44:BO:20:TYR:CD2	2.32	0.64
34:BA:719:C:OP2	34:BA:720:C:N4	2.30	0.64
34:BA:588:G:H1'	34:BA:753:A:N1	2.12	0.64
34:BA:817:C:O2	34:BA:817:C:C2'	2.45	0.64
38:BI:81:GLU:HB3	38:BI:90:VAL:CG2	2.28	0.64
39:BJ:30:LEU:HD23	39:BJ:75:LEU:HD13	1.78	0.64
40:BK:69:VAL:HB	40:BK:104:LEU:HD11	1.80	0.64
42:BM:15:ALA:CB	42:BM:77:ILE:HG13	2.27	0.64
43:BN:48:THR:HG23	43:BN:61:GLU:O	1.98	0.64
44:BO:14:VAL:O	44:BO:16:SER:N	2.30	0.64
45:BP:69:TYR:O	45:BP:71:PRO:HD3	1.96	0.64
45:BP:83:VAL:HA	45:BP:104:VAL:O	1.98	0.64
46:BQ:36:LYS:CG	46:BQ:56:LEU:HD21	2.18	0.64
36:BG:29:TYR:HB3	47:BR:36:PHE:HE1	1.63	0.64
34:BA:667:G:H4'	48:BS:51:HIS:ND1	2.12	0.64
48:BS:53:HIS:CD2	48:BS:57:LEU:HD11	2.32	0.64
34:BA:581:G:H4'	48:BS:64:ARG:NH1	2.13	0.64
34:BA:277:C:H5"	50:BU:68:ARG:NH1	2.11	0.64
52:BW:40:ILE:HG12	52:BW:71:LEU:CD2	2.28	0.64
52:BW:74:PHE:CD1	52:BW:74:PHE:N	2.64	0.64
52:BW:51:VAL:CG1	52:BW:75:ALA:HB3	2.27	0.64
53:BX:51:GLU:O	53:BX:55:ILE:HG13	1.98	0.64
57:BZ:69:ARG:HH11	57:BZ:253:LYS:HZ3	1.40	0.64
57:BZ:541:LYS:HG3	57:BZ:542:LYS:HB2	1.80	0.64
1:AA:888:C:H4'	1:AA:889:C:OP1	1.98	0.64
57:BZ:35:ARG:CA	57:BZ:36:ALA:HB3	2.27	0.64
14:AP:33:LYS:CE	14:AP:54:LEU:HD21	2.27	0.64
8:AH:107:VAL:HG13	8:AH:152:ARG:NE	2.12	0.64
50:BU:24:GLU:N	50:BU:24:GLU:CD	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:85:G:N3	1:AA:103:A:C2	2.65	0.64
1:AA:1058:G:N1	1:AA:1059:G:N7	2.46	0.64
1:AA:1227:A:H2'	1:AA:1228:G:H5''	1.80	0.64
1:AA:1298:C:H4'	1:AA:1302:A:N6	2.12	0.64
1:AA:1306:C:C2	1:AA:1307:A:C8	2.86	0.64
1:AA:138:G:N2	1:AA:139:G:N7	2.46	0.64
1:AA:1407:C:C6	1:AA:1407:C:OP2	2.50	0.64
1:AA:1407:C:H2'	1:AA:1408:C:C6	2.33	0.64
1:AA:1669:A:N3	1:AA:1669:A:H2'	2.11	0.64
1:AA:172:C:C5	1:AA:173:G:C5	2.84	0.64
1:AA:1759:A:H2'	1:AA:1760:A:O5'	1.98	0.64
1:AA:1916:A:N1	34:BA:1409:C:H5'	2.13	0.64
1:AA:1935:G:H22	1:AA:1962:C:C2'	2.10	0.64
1:AA:2157:G:N2	1:AA:2157:G:OP2	2.30	0.64
1:AA:2335:A:C6	1:AA:2337:G:C2	2.85	0.64
1:AA:2282:G:N2	1:AA:2427:C:N3	2.40	0.64
1:AA:2592:G:O6	1:AA:2593:U:C4	2.50	0.64
1:AA:2754:U:C2'	1:AA:2756:U:OP1	2.46	0.64
1:AA:2543:G:N2	1:AA:2765:A:C4	2.65	0.64
1:AA:2788:C:C2	1:AA:2789:C:C4	2.84	0.64
1:AA:2882:A:OP1	13:AO:96:ARG:NE	2.31	0.64
1:AA:421:U:OP2	1:AA:421:U:H6	1.80	0.64
1:AA:624:C:OP2	11:AM:105:LEU:HB3	1.98	0.64
1:AA:641:C:H2'	1:AA:642:G:H5'	1.79	0.64
1:AA:763:G:C2	1:AA:765:G:C4	2.85	0.64
2:AB:30:C:O4'	2:AB:58:A:H2	1.81	0.64
3:AC:10:LEU:HD12	3:AC:13:LYS:HD2	1.79	0.64
4:AD:119:ALA:HB2	4:AD:130:ALA:N	2.09	0.64
4:AD:146:GLU:CB	4:AD:154:LYS:H	2.03	0.64
4:AD:14:ARG:HB3	4:AD:15:PHE:CD1	2.33	0.64
4:AD:14:ARG:HB3	4:AD:15:PHE:CE1	2.33	0.64
4:AD:181:GLU:HB3	4:AD:268:ARG:NE	2.12	0.64
4:AD:232:PRO:HG2	4:AD:246:PRO:C	2.18	0.64
4:AD:63:ARG:HD2	4:AD:85:ASP:CB	2.28	0.64
4:AD:90:ALA:HB2	4:AD:159:ALA:CB	2.27	0.64
5:AE:102:VAL:HG23	5:AE:200:GLU:CD	2.18	0.64
5:AE:119:ARG:HH11	5:AE:120:TRP:HA	1.62	0.64
5:AE:102:VAL:O	5:AE:169:ASN:ND2	2.27	0.64
5:AE:40:GLU:C	5:AE:41:LYS:HE3	2.18	0.64
6:AF:12:LEU:O	6:AF:14:PRO:CD	2.46	0.64
1:AA:1036:G:P	8:AH:59:ARG:HD3	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:87:LEU:HD23	9:AK:88:GLU:H	1.60	0.64
10:AL:96:THR:O	10:AL:97:ARG:CB	2.45	0.64
11:AM:73:GLY:CA	11:AM:111:ARG:NH1	2.48	0.64
11:AM:114:ILE:CG1	11:AM:130:PHE:HA	2.26	0.64
12:AN:27:VAL:CG1	12:AN:104:PHE:HE2	2.11	0.64
12:AN:43:THR:CG2	12:AN:46:GLN:HB2	2.27	0.64
12:AN:85:LYS:HG3	12:AN:87:LYS:H	1.60	0.64
12:AN:75:THR:OG1	12:AN:91:GLU:OE2	2.13	0.64
13:AO:17:ARG:HB2	13:AO:17:ARG:HH11	1.63	0.64
15:AQ:6:LEU:HD21	15:AQ:7:ILE:HG23	1.78	0.64
1:AA:1161:C:H1'	17:AS:22:VAL:CG1	2.28	0.64
20:AV:82:PRO:HD3	20:AV:97:ARG:H	1.63	0.64
21:AW:10:ARG:NE	21:AW:36:LYS:HB2	2.12	0.64
21:AW:46:LYS:O	21:AW:49:ARG:HB3	1.97	0.64
1:AA:855:G:H21	22:AX:27:GLU:HB3	1.61	0.64
22:AX:28:GLY:O	22:AX:29:GLN:O	2.15	0.64
22:AX:65:GLY:CA	22:AX:81:VAL:HG12	2.25	0.64
24:AZ:11:SER:H	24:AZ:12:PRO:CD	2.09	0.64
34:BA:1196:U:H4'	34:BA:1197:G:O5'	1.98	0.64
34:BA:1202:G:H21	34:BA:1203:C:C1'	2.11	0.64
34:BA:1276:G:O2'	34:BA:1282:C:H4'	1.97	0.64
34:BA:1308:U:H3'	46:BQ:92:HIS:HE2	1.60	0.64
34:BA:1346:A:H62	34:BA:1374:A:H3'	1.61	0.64
34:BA:1378:C:N3	34:BA:1379:G:C1'	2.60	0.64
34:BA:1409:C:C2	34:BA:1410:G:C8	2.85	0.64
34:BA:1459:C:P	53:BX:31:SER:HB3	2.35	0.64
34:BA:1431:C:H42	34:BA:1469:G:H1	1.45	0.64
34:BA:361:G:N7	34:BA:362:G:C6	2.65	0.64
34:BA:754:C:C3'	34:BA:754:C:O2	2.46	0.64
34:BA:80:G:N3	34:BA:81:G:H1'	2.13	0.64
34:BA:967:C:C6	34:BA:967:C:O5'	2.50	0.64
35:BF:49:GLU:O	35:BF:52:GLU:CD	2.36	0.64
36:BG:124:ILE:CD1	36:BG:130:VAL:HG13	2.27	0.64
36:BG:23:TYR:CD2	36:BG:24:ALA:N	2.64	0.64
37:BH:154:ASN:HD22	37:BH:155:LEU:HD22	1.62	0.64
37:BH:74:GLN:HA	37:BH:77:ASN:ND2	1.99	0.64
39:BJ:1:MET:HG2	39:BJ:68:PRO:HA	1.78	0.64
40:BK:72:ARG:HH11	40:BK:72:ARG:CB	2.07	0.64
41:BL:21:LYS:C	41:BL:63:LEU:HD13	2.18	0.64
41:BL:67:PRO:HD2	41:BL:77:GLU:H	1.62	0.64
42:BM:38:GLN:O	42:BM:40:LEU:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:79:SER:HA	44:BO:104:GLN:CG	2.28	0.64
45:BP:39:VAL:HB	45:BP:57:LYS:CB	2.26	0.64
46:BQ:37:THR:O	46:BQ:55:ARG:NH2	2.30	0.64
47:BR:26:ARG:HB2	47:BR:43:CYS:CB	2.27	0.64
49:BT:14:ASN:HA	49:BT:42:ARG:NH1	2.12	0.64
49:BT:14:ASN:HB2	49:BT:42:ARG:HH12	1.62	0.64
52:BW:9:VAL:CA	52:BW:41:VAL:CG2	2.75	0.64
57:BZ:120:GLY:O	57:BZ:121:LEU:HD23	1.98	0.64
57:BZ:148:PHE:O	57:BZ:152:ASP:N	2.17	0.64
57:BZ:128:ASN:HA	57:BZ:164:TYR:O	1.96	0.64
57:BZ:441:TYR:O	57:BZ:443:ILE:N	2.30	0.64
57:BZ:546:MET:HB3	57:BZ:547:ARG:CG	2.16	0.64
57:BZ:89:MET:SD	57:BZ:119:TYR:CZ	2.90	0.64
1:AA:1416:G:H1'	1:AA:1583:A:N1	2.12	0.64
1:AA:1022:G:H3'	1:AA:1025:G:O6	1.97	0.64
1:AA:1075:C:C1'	32:AJ:90:LYS:HD2	2.19	0.64
1:AA:1153:C:C4	1:AA:1154:G:O6	2.51	0.64
1:AA:1271:G:P	1:AA:1272:A:OP1	2.56	0.64
1:AA:1554:A:HO2'	1:AA:1555:G:P	2.21	0.64
1:AA:1572:A:O2'	1:AA:1573:G:OP1	2.16	0.64
1:AA:1695:G:H1'	4:AD:15:PHE:HB3	1.80	0.64
1:AA:1717:G:C2	1:AA:1718:G:N3	2.66	0.64
1:AA:1771:C:H2'	1:AA:1772:G:H8	1.61	0.64
1:AA:1782:C:H42	1:AA:2587:A:H61	1.44	0.64
1:AA:1859:A:C8	1:AA:1860:G:C8	2.85	0.64
1:AA:1966:A:O2'	1:AA:1967:C:P	2.56	0.64
1:AA:1977:A:C2	1:AA:1978:A:C4	2.86	0.64
1:AA:2150:U:H2'	1:AA:2151:G:H8	1.63	0.64
1:AA:216:A:H61	1:AA:431:U:H3	1.46	0.64
1:AA:230:U:H2'	1:AA:231:C:C6	2.32	0.64
1:AA:242:G:C2'	1:AA:254:G:C6	2.81	0.64
1:AA:2244:U:O2'	1:AA:2434:A:N7	2.26	0.64
1:AA:245:G:H1	1:AA:253:C:H42	1.44	0.64
1:AA:2815:C:C2	1:AA:2816:C:C6	2.86	0.64
1:AA:460:A:H2'	1:AA:461:C:C6	2.33	0.64
1:AA:566:U:H2'	1:AA:567:A:C8	2.33	0.64
1:AA:97:C:H2'	1:AA:98:G:O4'	1.97	0.64
1:AA:99:U:H5'	1:AA:101:G:C5'	2.27	0.64
3:AC:62:VAL:HG22	3:AC:63:SER:N	2.11	0.64
4:AD:200:ASP:O	4:AD:203:ASN:N	2.29	0.64
4:AD:5:LYS:CD	4:AD:81:ALA:HB1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:152:GLU:O	6:AF:172:TRP:HA	1.98	0.64
6:AF:7:TYR:CD2	6:AF:119:ARG:HB3	2.33	0.64
7:AG:130:ASN:O	7:AG:159:VAL:O	2.16	0.64
7:AG:181:ARG:H	7:AG:181:ARG:HH21	1.44	0.64
8:AH:122:THR:O	8:AH:133:VAL:HG23	1.97	0.64
8:AH:156:ALA:HB1	8:AH:172:LYS:HZ1	1.61	0.64
8:AH:29:PRO:HD3	8:AH:79:VAL:CA	2.27	0.64
32:AJ:98:ARG:NH1	32:AJ:101:TRP:H	1.95	0.64
9:AK:128:HIS:N	9:AK:129:PRO:CD	2.60	0.64
9:AK:46:VAL:CG1	9:AK:47:ALA:N	2.40	0.64
10:AL:65:THR:O	10:AL:66:LYS:HB2	1.96	0.64
11:AM:114:ILE:N	11:AM:114:ILE:HD13	2.13	0.64
12:AN:42:ILE:HG12	12:AN:126:PRO:HG3	1.80	0.64
13:AO:46:GLY:O	13:AO:49:ASP:CB	2.40	0.64
1:AA:2851:A:H1'	13:AO:61:HIS:CD2	2.33	0.64
13:AO:75:LEU:O	13:AO:78:LYS:N	2.30	0.64
5:AE:8:LYS:HZ2	15:AQ:3:ARG:HG2	1.62	0.64
16:AR:97:ASP:HB3	16:AR:101:ARG:CZ	2.28	0.64
16:AR:40:PHE:CD2	17:AS:84:LYS:HG2	2.33	0.64
16:AR:88:ILE:CA	17:AS:52:VAL:HG22	2.27	0.64
18:AT:27:LYS:HB3	18:AT:31:GLU:OE2	1.97	0.64
20:AV:6:HIS:HB3	20:AV:71:LYS:HG2	1.79	0.64
24:AZ:6:VAL:HG21	24:AZ:35:ARG:NH2	2.11	0.64
34:BA:1072:G:C6	34:BA:1073:U:C4	2.86	0.64
34:BA:1449:C:C2	34:BA:1450:U:C6	2.86	0.64
34:BA:191:G:O2'	53:BX:102:GLY:HA2	1.97	0.64
34:BA:307:C:N4	34:BA:308:C:C5	2.66	0.64
34:BA:307:C:N4	34:BA:308:C:H5	1.94	0.64
34:BA:675:A:H1'	44:BO:116:HIS:CG	2.33	0.64
34:BA:737:A:O2'	34:BA:738:C:H5'	1.97	0.64
34:BA:740:U:H2'	34:BA:741:G:H8	1.63	0.64
34:BA:841:U:H2'	34:BA:841:U:O2	1.97	0.64
34:BA:858:G:N2	34:BA:870:U:OP2	2.30	0.64
56:BE:30:G:H2'	56:BE:31:A:H5'	1.80	0.64
42:BM:127:LYS:CD	56:BE:30:G:O3'	2.46	0.64
36:BG:14:ILE:HG22	36:BG:15:THR:N	2.12	0.64
34:BA:1206:G:H4'	36:BG:192:THR:C	2.18	0.64
36:BG:51:GLY:O	36:BG:70:VAL:HG13	1.97	0.64
37:BH:121:VAL:HG11	37:BH:136:PRO:HA	1.79	0.64
38:BI:84:PHE:CG	38:BI:134:ALA:HA	2.33	0.64
38:BI:76:ILE:HG22	38:BI:78:HIS:CD2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:135:VAL:HG12	40:BK:139:GLU:OE2	1.98	0.64
40:BK:38:LEU:HA	40:BK:41:ARG:HB2	1.80	0.64
41:BL:102:ARG:CZ	41:BL:102:ARG:CB	2.69	0.64
43:BN:85:LEU:HD12	43:BN:85:LEU:N	2.13	0.64
45:BP:97:ARG:HB3	45:BP:98:TYR:CE1	2.33	0.64
46:BQ:6:GLY:N	46:BQ:67:GLU:CD	2.51	0.64
57:BZ:150:ASN:HD22	57:BZ:151:LEU:HD22	1.62	0.64
57:BZ:6:ARG:NH1	57:BZ:196:ALA:HA	2.12	0.64
1:AA:2471:C:C5'	57:BZ:529:ARG:HH12	2.04	0.64
57:BZ:55:THR:O	57:BZ:56:ILE:HD13	1.97	0.64
56:BD:2:C:C4	56:BD:3:C:C4	2.86	0.64
34:BA:489:C:O2'	34:BA:490:G:H5'	1.98	0.64
57:BZ:351:GLU:HG2	57:BZ:352:ASP:N	2.12	0.64
34:BA:1021:G:H2'	34:BA:1022:G:C1'	2.27	0.64
1:AA:1074:G:H8	1:AA:1074:G:O5'	1.81	0.64
1:AA:1057:A:N6	1:AA:1086:A:C2'	2.61	0.64
1:AA:116:C:H1'	1:AA:127:A:H1'	1.80	0.64
1:AA:1498:C:H1'	1:AA:1576:U:H4'	1.80	0.64
1:AA:1623:G:C2	1:AA:1624:G:C8	2.85	0.64
1:AA:1670:C:O5'	1:AA:1671:U:H5	1.81	0.64
1:AA:1774:C:C6	1:AA:1775:U:C5	2.71	0.64
1:AA:1858:G:O6	1:AA:1883:G:C6	2.51	0.64
1:AA:1924:C:C2	1:AA:1925:C:C5	2.86	0.64
1:AA:2020:A:N7	1:AA:2022:U:C4	2.66	0.64
1:AA:2181:G:H21	1:AA:2182:G:H22	1.46	0.64
1:AA:2362:G:N2	1:AA:2363:C:H1'	2.13	0.64
1:AA:2651:C:C2	1:AA:2652:C:C5	2.86	0.64
1:AA:271(B):G:H5''	1:AA:271(C):U:C4'	2.26	0.64
1:AA:399:G:C5	1:AA:400:G:H1'	2.33	0.64
1:AA:582:G:H2'	1:AA:583:G:C8	2.32	0.64
1:AA:5:A:H2'	1:AA:6:A:H8	1.63	0.64
1:AA:60:G:C8	1:AA:63:U:O4	2.51	0.64
1:AA:642:G:H3'	1:AA:642:G:C8	2.33	0.64
1:AA:910:A:N6	1:AA:911:A:N6	2.45	0.64
1:AA:93:C:H2'	1:AA:94:G:C8	2.32	0.64
1:AA:969:U:C4	1:AA:970:C:C5	2.85	0.64
2:AB:25:A:H2'	2:AB:26:A:O4'	1.98	0.64
2:AB:95:U:H2'	2:AB:96:G:H8	1.63	0.64
3:AC:48:GLY:CA	3:AC:210:ARG:CD	2.76	0.64
3:AC:75:LEU:HB2	3:AC:110:PHE:CG	2.33	0.64
5:AE:131:ALA:HB1	5:AE:134:ILE:CG1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:59:VAL:HB	5:AE:62:PRO:CD	2.28	0.64
5:AE:98:PRO:HA	5:AE:172:VAL:HG23	1.79	0.64
8:AH:136:ILE:HG23	8:AH:137:ASP:N	2.10	0.64
32:AJ:99:ILE:O	32:AJ:103:GLN:HB3	1.97	0.64
32:AJ:90:LYS:H	32:AJ:90:LYS:HE2	1.62	0.64
10:AL:105:GLU:C	10:AL:111:PHE:CZ	2.71	0.64
12:AN:121:ALA:O	12:AN:125:LEU:CG	2.44	0.64
14:AP:7:TYR:HB3	14:AP:11:LYS:HZ2	1.63	0.64
14:AP:89:ARG:CG	14:AP:90:GLY:N	2.57	0.64
15:AQ:43:GLN:N	15:AQ:43:GLN:OE1	2.30	0.64
15:AQ:54:ARG:H	15:AQ:64:ARG:HB3	1.62	0.64
18:AT:69:LEU:HB3	18:AT:107:LEU:HD11	1.79	0.64
18:AT:66:GLU:HA	18:AT:69:LEU:CD1	2.28	0.64
20:AV:57:GLN:O	20:AV:58:GLY:O	2.16	0.64
23:AY:27:LEU:CG	23:AY:48:LEU:HB3	2.28	0.64
23:AY:48:LEU:HD12	23:AY:51:GLN:NE2	2.12	0.64
24:AZ:4:LEU:HD21	24:AZ:56:VAL:CG2	2.24	0.64
34:BA:1003:G:H8	34:BA:1003:G:O5'	1.81	0.64
34:BA:1163:C:C2'	34:BA:1164:G:H5'	2.27	0.64
34:BA:1243:C:OP2	54:BY:10:ARG:CZ	2.45	0.64
34:BA:1287:A:H61	34:BA:1371:G:C4'	2.10	0.64
34:BA:1357:A:C5	34:BA:1358:U:C4	2.84	0.64
34:BA:1506:U:H6	34:BA:1506:U:O5'	1.80	0.64
34:BA:1519:A:C2'	34:BA:1520:G:H5'	2.27	0.64
34:BA:1528:U:C1'	34:BA:1529:G:H21	2.10	0.64
34:BA:43:C:H2'	34:BA:44:G:C8	2.33	0.64
34:BA:523:A:H8	34:BA:523:A:O5'	1.81	0.64
34:BA:569:C:H1'	34:BA:574:A:C2	2.33	0.64
34:BA:620:C:O2'	34:BA:621:A:H5'	1.98	0.64
34:BA:698:G:H2'	34:BA:699:C:C6	2.32	0.64
34:BA:978:A:H8	34:BA:980:C:H41	1.45	0.64
34:BA:981:U:O5'	34:BA:981:U:C6	2.51	0.64
56:BE:16:U:C2	56:BE:59:U:N3	2.56	0.64
34:BA:1158:C:C3'	35:BF:133:LYS:HZ2	2.06	0.64
36:BG:132:ARG:HB3	36:BG:136:GLN:NE2	2.13	0.64
36:BG:131:ARG:HH12	38:BI:51:VAL:HG23	1.62	0.64
43:BN:49:VAL:O	43:BN:60:ARG:HB3	1.98	0.64
45:BP:93:LEU:HD23	45:BP:93:LEU:N	2.11	0.64
47:BR:40:CYS:HB2	47:BR:42:ILE:HG13	1.80	0.64
48:BS:5:LYS:HB2	48:BS:5:LYS:HZ2	1.63	0.64
34:BA:392:G:H5'	49:BT:12:LYS:HZ3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:18:ARG:HH21	51:BV:21:LYS:CB	2.10	0.64
52:BW:36:ARG:NH2	52:BW:51:VAL:HG12	2.13	0.64
52:BW:9:VAL:CG2	52:BW:42:PRO:CA	2.67	0.64
53:BX:59:ALA:O	53:BX:60:GLU:C	2.36	0.64
57:BZ:212:LEU:HD11	57:BZ:220:VAL:CG1	2.28	0.64
57:BZ:403:VAL:HG23	57:BZ:466:TYR:O	1.96	0.64
56:BD:1:G:N3	56:BD:2:C:C2	2.66	0.64
55:BC:39:U:C2'	55:BC:40:C:H5'	2.27	0.64
55:BC:12:U:O5'	55:BC:12:U:H6	1.81	0.64
1:AA:1005:C:C1'	1:AA:1012:U:O2	2.46	0.64
1:AA:1083:U:HO2'	1:AA:1084:A:H8	1.45	0.64
1:AA:1142(A):A:C6	1:AA:1143:A:H8	2.15	0.64
1:AA:973:A:C1'	1:AA:1188:U:C4	2.81	0.64
1:AA:1195:G:C2'	1:AA:1226:G:N2	2.61	0.64
1:AA:1264:G:C3'	1:AA:1265:A:C5'	2.75	0.64
1:AA:1480:G:N3	1:AA:1480:G:H2'	2.11	0.64
1:AA:1529:A:H3'	1:AA:1530:G:H8	1.62	0.64
1:AA:1650:G:H5'	13:AO:104:ARG:NH2	2.12	0.64
1:AA:1684:C:H2'	1:AA:1685:C:C6	2.33	0.64
1:AA:1792:G:H2'	1:AA:1792:G:N3	2.12	0.64
1:AA:1904:G:C2'	1:AA:1905:C:H5'	2.28	0.64
1:AA:1931:U:H2'	1:AA:1932:A:O5'	1.98	0.64
1:AA:954:G:H1'	1:AA:2274:A:C2	2.33	0.64
1:AA:834:C:O2'	1:AA:2358:G:N3	2.26	0.64
1:AA:2519:U:C5'	1:AA:2520:C:OP1	2.46	0.64
1:AA:2532:G:O2'	1:AA:2533:A:H5'	1.98	0.64
1:AA:2611:U:H2'	1:AA:2612:C:O4'	1.97	0.64
1:AA:2667:C:H2'	1:AA:2668:G:C5'	2.28	0.64
1:AA:2747:G:O6	1:AA:2755:C:C5'	2.46	0.64
1:AA:312:G:H5''	1:AA:313:C:OP2	1.97	0.64
1:AA:476:G:C4	1:AA:478:A:OP2	2.51	0.64
1:AA:72:U:H2'	1:AA:73:A:OP1	1.97	0.64
1:AA:746:A:O2'	1:AA:747:U:OP2	2.12	0.64
3:AC:130:ILE:N	3:AC:130:ILE:CD1	2.61	0.64
1:AA:2176:A:O2'	3:AC:213:TYR:CB	2.46	0.64
3:AC:29:VAL:HG13	3:AC:30:LYS:N	2.13	0.64
3:AC:48:GLY:HA2	3:AC:210:ARG:CD	2.28	0.64
1:AA:1819:A:C5'	4:AD:178:PRO:HG3	2.21	0.64
4:AD:214:TRP:O	4:AD:217:ARG:N	2.31	0.64
4:AD:232:PRO:HG2	4:AD:246:PRO:O	1.98	0.64
4:AD:54:ARG:CB	4:AD:218:ARG:HD2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:65:ILE:HG22	4:AD:66:ASP:N	2.13	0.64
5:AE:48:GLN:CD	5:AE:48:GLN:N	2.51	0.64
7:AG:114:ILE:HD12	7:AG:115:ARG:N	2.13	0.64
7:AG:4:ASP:O	7:AG:7:LEU:HB2	1.97	0.64
8:AH:127:GLU:HG3	8:AH:130:ARG:CB	2.28	0.64
1:AA:2659:G:OP2	8:AH:158:HIS:NE2	2.31	0.64
32:AJ:20:ALA:CB	32:AJ:21:PRO:HD3	2.25	0.64
10:AL:11:ALA:HB2	10:AL:17:ARG:NE	2.13	0.64
11:AM:52:GLU:O	11:AM:55:ARG:HB2	1.98	0.64
12:AN:44:ALA:HB2	12:AN:93:TYR:O	1.98	0.64
17:AS:15:GLU:HB3	17:AS:16:PRO:HD2	1.78	0.64
17:AS:62:LEU:HD13	17:AS:97:LYS:C	2.18	0.64
20:AV:74:PRO:HG2	20:AV:100:ALA:HB3	1.79	0.64
20:AV:1:MET:HA	20:AV:33:LYS:HE3	1.78	0.64
34:BA:1312:G:N2	34:BA:1325:C:O2'	2.28	0.64
34:BA:1392:G:H8	34:BA:1392:G:O5'	1.81	0.64
34:BA:1416:G:N1	34:BA:1485:U:C2	2.66	0.64
34:BA:1486:G:C3'	34:BA:1487:G:H5''	2.28	0.64
34:BA:1520:G:C2'	34:BA:1521:G:H8	2.11	0.64
34:BA:597:G:H2'	34:BA:598:U:H5'	1.79	0.64
34:BA:679:C:O2'	34:BA:680:C:H5'	1.97	0.64
34:BA:68:G:H2'	34:BA:69:G:O4'	1.97	0.64
35:BF:171:ALA:O	35:BF:174:VAL:N	2.30	0.64
35:BF:74:LYS:HZ3	35:BF:76:GLN:HB2	1.61	0.64
35:BF:76:GLN:O	35:BF:77:ALA:HB2	1.98	0.64
36:BG:8:ILE:CG1	36:BG:16:ARG:HD2	2.28	0.64
36:BG:142:MET:HG2	36:BG:170:GLN:HG3	1.80	0.64
37:BH:170:VAL:N	37:BH:176:LEU:HD22	2.10	0.64
37:BH:15:GLU:CB	37:BH:19:LEU:HD11	2.28	0.64
37:BH:199:ASN:CG	37:BH:200:GLU:H	1.99	0.64
40:BK:74:GLU:CG	40:BK:75:VAL:H	2.10	0.64
34:BA:826:C:H5'	41:BL:12:ARG:HH21	1.63	0.64
42:BM:62:TYR:C	42:BM:63:ILE:HD12	2.18	0.64
44:BO:23:ALA:HB2	44:BO:28:THR:HG23	1.78	0.64
45:BP:117:ARG:NH2	45:BP:124:LYS:HG3	2.13	0.64
45:BP:53:ARG:CZ	45:BP:93:LEU:HD22	2.28	0.64
49:BT:6:LEU:HD22	49:BT:6:LEU:C	2.17	0.64
49:BT:75:ARG:HA	49:BT:80:PHE:HB2	1.79	0.64
50:BU:58:GLU:CD	50:BU:74:LEU:HB3	2.19	0.64
52:BW:45:VAL:CG2	52:BW:67:VAL:HG21	2.27	0.64
52:BW:5:LEU:CD2	52:BW:6:LYS:H	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:13:LEU:O	53:BX:14:LYS:C	2.36	0.64
57:BZ:101:ALA:HB2	57:BZ:130:VAL:HG12	1.79	0.64
57:BZ:82:GLY:CA	57:BZ:361:ARG:CG	2.74	0.64
57:BZ:426:LEU:CD1	57:BZ:441:TYR:CZ	2.52	0.64
57:BZ:7:ASN:OD1	57:BZ:69:ARG:HG2	1.97	0.64
31:AI:26:LEU:O	31:AI:114:GLY:N	2.30	0.64
31:AI:54:ALA:CB	31:AI:85:ASP:N	2.42	0.64
1:AA:884:C:H1'	1:AA:885:C:OP2	1.98	0.64
57:BZ:31:THR:HB	57:BZ:32:PHE:CD1	2.32	0.64
1:AA:1887:C:O2'	1:AA:2190:G:O2'	2.10	0.64
40:BK:67:GLU:OE2	40:BK:67:GLU:HA	1.97	0.64
1:AA:1058:G:H1'	32:AJ:116:ASN:CG	2.17	0.63
1:AA:1085:A:H1'	1:AA:1086:A:OP2	1.98	0.63
1:AA:1047:G:H1'	1:AA:1111:A:C2	2.33	0.63
1:AA:1043:C:C1'	1:AA:1112:G:N2	2.41	0.63
1:AA:1264:G:H5''	1:AA:1265:A:C5'	2.25	0.63
1:AA:1336:A:H2'	1:AA:1337:G:C8	2.33	0.63
1:AA:1342:A:C2'	1:AA:1345:C:N4	2.52	0.63
1:AA:1527:G:N2	1:AA:1545:A:N7	2.46	0.63
1:AA:1639:U:H2'	1:AA:1640:C:C5'	2.28	0.63
1:AA:1659:U:O2'	1:AA:2712(A):A:N6	2.31	0.63
1:AA:1878:G:O2'	1:AA:1879:C:H5'	1.98	0.63
1:AA:2009:G:C6	1:AA:2010:G:N7	2.66	0.63
1:AA:2063:C:H2'	1:AA:2064:C:C4'	2.28	0.63
1:AA:212:G:H2'	1:AA:213:A:H8	1.63	0.63
1:AA:2141:G:C6	1:AA:2151:G:C6	2.86	0.63
1:AA:2210:G:H4'	1:AA:2211:G:H5'	1.78	0.63
1:AA:2250:G:O2'	1:AA:2496:C:H5'	1.98	0.63
1:AA:2346:A:N3	1:AA:2383:G:C4	2.66	0.63
1:AA:2491:U:C6	1:AA:2492:U:P	2.90	0.63
1:AA:2636:U:O5'	5:AE:79:ARG:HB3	1.98	0.63
1:AA:2647:U:O2'	1:AA:2648:C:O5'	2.15	0.63
1:AA:2682:U:H2'	1:AA:2683:C:O5'	1.98	0.63
1:AA:351:G:O2'	1:AA:352:G:OP2	2.16	0.63
1:AA:3:U:O4	1:AA:2900:A:N1	2.32	0.63
1:AA:469:G:OP2	6:AF:59:TYR:CE2	2.51	0.63
1:AA:61:G:H5'	23:AY:45:ILE:HG12	1.80	0.63
1:AA:638:G:C8	1:AA:638:G:H3'	2.33	0.63
1:AA:748:G:C5'	18:AT:88:ARG:NH1	2.59	0.63
1:AA:76:C:H6	1:AA:76:C:O5'	1.81	0.63
1:AA:874:G:C2	1:AA:875:G:C5	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:878:A:C2'	1:AA:879:G:H8	2.11	0.63
1:AA:955:C:C2'	1:AA:956:G:O5'	2.46	0.63
1:AA:960:A:C2	1:AA:962:G:C1'	2.81	0.63
3:AC:102:LYS:NZ	3:AC:107:TRP:HB2	2.14	0.63
4:AD:151:LYS:HB2	4:AD:154:LYS:HE3	1.81	0.63
4:AD:246:PRO:HG2	4:AD:251:GLY:O	1.98	0.63
4:AD:247:ALA:O	4:AD:248:SER:O	2.15	0.63
4:AD:24:ILE:HG22	4:AD:25:THR:N	2.12	0.63
5:AE:119:ARG:NH2	5:AE:155:LYS:HB3	2.13	0.63
5:AE:49:LEU:HD21	5:AE:76:ARG:N	2.13	0.63
6:AF:152:GLU:HA	6:AF:152:GLU:OE2	1.97	0.63
6:AF:139:PHE:CE2	6:AF:167:ALA:HA	2.32	0.63
6:AF:6:VAL:HA	6:AF:20:LEU:HD22	1.78	0.63
8:AH:85:LYS:HZ1	8:AH:141:VAL:HG12	1.61	0.63
32:AJ:28:GLY:O	57:BZ:431:PRO:CG	2.46	0.63
9:AK:87:LEU:CA	9:AK:90:MET:HB2	2.28	0.63
9:AK:91:LEU:O	9:AK:93:THR:N	2.31	0.63
12:AN:75:THR:HB	12:AN:77:LYS:HE3	1.79	0.63
14:AP:23:ARG:HH11	14:AP:42:ASP:H	1.46	0.63
1:AA:1248:G:H8	16:AR:2:PRO:HA	1.55	0.63
17:AS:40:LEU:C	17:AS:51:VAL:HG13	2.18	0.63
20:AV:65:ALA:HB3	20:AV:66:PRO:CD	2.25	0.63
21:AW:63:ASP:CG	21:AW:64:GLY:N	2.51	0.63
24:AZ:22:ALA:O	24:AZ:25:ALA:HB3	1.98	0.63
24:AZ:24:LYS:HA	24:AZ:27:GLY:O	1.98	0.63
24:AZ:35:ARG:NH1	24:AZ:47:VAL:HG22	2.13	0.63
34:BA:1154:G:H8	34:BA:1154:G:O5'	1.81	0.63
34:BA:127:G:C2'	34:BA:128:G:H5'	2.28	0.63
34:BA:1321:C:C6	34:BA:1321:C:O5'	2.51	0.63
34:BA:601:C:H2'	34:BA:602:A:C8	2.31	0.63
34:BA:921:U:O2'	34:BA:922:G:H5'	1.98	0.63
34:BA:961:U:C5	34:BA:983:A:N6	2.66	0.63
35:BF:115:LEU:HA	35:BF:118:LEU:HD12	1.80	0.63
35:BF:169:LYS:HE2	35:BF:170:GLU:CA	2.28	0.63
35:BF:169:LYS:HE2	35:BF:170:GLU:N	2.13	0.63
35:BF:219:VAL:O	35:BF:223:ILE:CG1	2.46	0.63
35:BF:17:PHE:HA	35:BF:42:ILE:HG22	1.80	0.63
36:BG:24:ALA:HB1	36:BG:28:GLN:HE22	1.63	0.63
38:BI:31:LEU:CD1	38:BI:129:ILE:HA	2.27	0.63
40:BK:99:LEU:HD23	40:BK:102:ARG:HB3	1.80	0.63
41:BL:44:PHE:HE2	41:BL:109:ILE:HD13	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:126:LYS:CD	41:BL:127:LEU:N	2.61	0.63
44:BO:66:LEU:O	44:BO:69:ALA:HB3	1.97	0.63
44:BO:19:ALA:N	44:BO:80:VAL:HG21	2.14	0.63
44:BO:82:VAL:HB	44:BO:108:ILE:CG1	2.27	0.63
34:BA:537:G:O3'	45:BP:113:ARG:NH1	2.32	0.63
45:BP:77:LEU:HD22	45:BP:81:SER:HB3	1.81	0.63
46:BQ:65:LYS:HG3	46:BQ:69:GLU:HG2	1.79	0.63
36:BG:8:ILE:HD13	47:BR:50:LYS:O	1.97	0.63
51:BV:56:THR:O	51:BV:58:LEU:HG	1.97	0.63
51:BV:63:GLN:HA	51:BV:66:LEU:HD11	1.79	0.63
52:BW:3:ARG:HE	52:BW:45:VAL:CG1	2.11	0.63
34:BA:1243:C:OP1	54:BY:10:ARG:HD2	1.98	0.63
57:BZ:167:ALA:HB2	60:BZ:701:GCP:C2	2.28	0.63
57:BZ:253:LYS:HD2	57:BZ:262:ARG:HE	1.57	0.63
57:BZ:2:ILE:CD1	57:BZ:267:LEU:HB3	2.28	0.63
57:BZ:564:THR:CG2	57:BZ:566:GLU:HG3	2.28	0.63
56:BD:48:C:C2	56:BD:59:U:H1'	2.33	0.63
1:AA:1511:A:C2'	1:AA:1512:G:H5''	2.28	0.63
8:AH:20:ALA:CB	8:AH:21:PRO:CD	2.76	0.63
56:BD:45:U:O5'	56:BD:45:U:H6	1.80	0.63
1:AA:1335:U:OP2	19:AU:65:ARG:NE	2.31	0.63
1:AA:1359:A:N1	1:AA:1360:A:C4	2.67	0.63
1:AA:1459:G:O6	1:AA:1461:G:C2	2.51	0.63
1:AA:172:C:H2'	1:AA:173:G:C8	2.22	0.63
1:AA:1890:A:H2'	1:AA:1891:G:O4'	1.98	0.63
1:AA:1908:C:O5'	1:AA:1908:C:H6	1.80	0.63
1:AA:1956:U:C2'	1:AA:1957:C:C6	2.74	0.63
1:AA:1773:A:H2	1:AA:1977:A:N6	1.94	0.63
1:AA:2134:A:C2'	1:AA:2135:A:O5'	2.45	0.63
1:AA:2281:C:HO2'	1:AA:2282:G:C5'	2.11	0.63
1:AA:233:A:H2'	1:AA:234:C:C5'	2.28	0.63
1:AA:2516:G:O6	1:AA:2567:G:O6	2.15	0.63
1:AA:2531:A:C2'	1:AA:2532:G:O5'	2.46	0.63
1:AA:2644:G:C8	1:AA:2644:G:O5'	2.48	0.63
1:AA:2674:G:C2'	1:AA:2675:A:H5'	2.27	0.63
1:AA:2749:A:H8	1:AA:2749:A:OP2	1.80	0.63
1:AA:292:C:H6	1:AA:293:U:O4	1.80	0.63
1:AA:364:C:C2	1:AA:365:C:C4	2.86	0.63
1:AA:503:A:C4	1:AA:505:A:N7	2.66	0.63
1:AA:597:U:O2	1:AA:598:G:N7	2.30	0.63
1:AA:729:G:H5''	4:AD:211:ARG:HH12	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:669:G:C4	1:AA:801:G:C2	2.85	0.63
1:AA:832:G:HO2'	1:AA:833:U:H6	1.46	0.63
1:AA:899:A:N3	1:AA:900:A:C2	2.66	0.63
1:AA:972:G:C5	1:AA:973:A:N7	2.67	0.63
1:AA:975:G:C2	1:AA:976:C:H6	2.16	0.63
3:AC:111:ASP:O	3:AC:136:LEU:HD23	1.98	0.63
4:AD:148:GLU:O	4:AD:149:PRO:O	2.16	0.63
4:AD:176:ARG:NH2	4:AD:270:ILE:HD11	2.10	0.63
4:AD:39:LYS:N	4:AD:39:LYS:HD2	2.13	0.63
5:AE:154:LYS:HZ2	5:AE:156:MET:HB2	1.63	0.63
5:AE:53:PRO:CG	5:AE:75:VAL:HG13	2.29	0.63
7:AG:9:ARG:HG2	7:AG:13:GLU:CD	2.19	0.63
8:AH:38:SER:H	8:AH:41:MET:HE3	1.63	0.63
32:AJ:107:ILE:O	32:AJ:111:LYS:HB2	1.98	0.63
9:AK:72:TYR:CD2	9:AK:72:TYR:C	2.71	0.63
10:AL:85:VAL:HB	10:AL:93:PRO:HG3	1.79	0.63
11:AM:132:LYS:HA	11:AM:135:LEU:HD13	1.79	0.63
11:AM:79:ARG:HA	11:AM:79:ARG:CZ	2.29	0.63
13:AO:97:VAL:O	13:AO:98:LEU:HD23	1.97	0.63
16:AR:111:GLU:CA	16:AR:114:LYS:HE3	2.28	0.63
1:AA:533:G:P	16:AR:25:TRP:HB2	2.37	0.63
1:AA:581:C:H4'	16:AR:32:PHE:CZ	2.33	0.63
16:AR:50:ARG:CZ	16:AR:50:ARG:HB2	2.27	0.63
16:AR:83:LEU:O	16:AR:90:VAL:HG22	1.98	0.63
17:AS:66:ARG:NE	17:AS:95:LEU:HB2	2.09	0.63
18:AT:6:ILE:HA	18:AT:103:ILE:O	1.98	0.63
18:AT:74:ALA:HB1	18:AT:105:VAL:CG2	2.28	0.63
20:AV:46:LYS:HZ2	20:AV:52:SER:HB2	1.62	0.63
21:AW:102:LEU:HG	21:AW:125:LEU:HG	1.80	0.63
21:AW:177:PRO:HG2	21:AW:178:GLU:N	2.12	0.63
21:AW:18:LEU:HD22	21:AW:23:LYS:CG	2.28	0.63
34:BA:1239:A:H62	34:BA:1299:A:H61	1.43	0.63
34:BA:1434:A:N6	34:BA:1435:G:C2	2.66	0.63
34:BA:1449:C:C2'	34:BA:1450:U:O5'	2.45	0.63
34:BA:1499:A:H2'	34:BA:1500:A:C5'	2.23	0.63
34:BA:452:A:N6	34:BA:480:U:C2	2.66	0.63
34:BA:494:U:H2'	34:BA:494:U:O2	1.96	0.63
34:BA:566:G:H4'	34:BA:567:G:H5'	1.81	0.63
34:BA:706:A:C2	34:BA:707:C:C6	2.86	0.63
34:BA:755:G:H2'	34:BA:756:C:C6	2.33	0.63
34:BA:585:G:N3	34:BA:879:C:H4'	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:907:A:H4'	34:BA:907:A:OP1	1.98	0.63
34:BA:936:C:H2'	34:BA:937:A:O4'	1.97	0.63
36:BG:134:ILE:HD11	36:BG:153:VAL:HG11	1.79	0.63
37:BH:173:TRP:CE2	37:BH:189:PRO:HB3	2.32	0.63
38:BI:62:ALA:O	38:BI:66:MET:SD	2.55	0.63
39:BJ:45:LEU:HG	39:BJ:59:TYR:CD1	2.34	0.63
40:BK:111:ARG:HB3	40:BK:111:ARG:HH11	1.62	0.63
41:BL:36:LEU:N	41:BL:36:LEU:HD23	2.10	0.63
41:BL:79:VAL:HB	41:BL:80:ILE:HD12	1.80	0.63
42:BM:19:LEU:HD23	42:BM:20:ARG:N	2.12	0.63
49:BT:3:LYS:HE2	49:BT:24:ALA:CB	2.28	0.63
50:BU:97:SER:O	50:BU:98:LEU:HD13	1.98	0.63
57:BZ:400:TYR:CZ	57:BZ:444:PRO:CB	2.62	0.63
1:AA:2556:C:H5'	57:BZ:550:GLY:CA	2.28	0.63
57:BZ:7:ASN:O	57:BZ:92:VAL:HA	1.99	0.63
57:BZ:502:PHE:HZ	57:BZ:556:VAL:CA	2.10	0.63
56:BD:5:G:C4	56:BD:69:G:C8	2.86	0.63
57:BZ:35:ARG:HA	57:BZ:36:ALA:C	2.19	0.63
57:BZ:38:THR:CA	57:BZ:39:GLN:HB3	2.15	0.63
55:BC:35:A:O2'	55:BC:36:A:H5'	1.99	0.63
37:BH:191:ARG:NH1	37:BH:192:GLU:HA	2.13	0.63
1:AA:1135:C:O2'	1:AA:1136:G:H5'	1.99	0.63
1:AA:1165:U:H2'	1:AA:1166:C:C5	2.33	0.63
1:AA:1475:G:C2	1:AA:1477:A:N6	2.58	0.63
1:AA:149:A:C6	1:AA:150:C:C4	2.86	0.63
1:AA:1567:A:H4'	1:AA:1568:G:N1	2.14	0.63
1:AA:742:G:C5'	1:AA:1675:C:O2'	2.47	0.63
1:AA:1779:U:C6	1:AA:1779:U:H3'	2.31	0.63
1:AA:1920:C:C5	58:AA:3001:NMY:H4	2.33	0.63
1:AA:1909:C:N3	1:AA:1922:G:O6	2.31	0.63
1:AA:2161:C:C2	1:AA:2162:G:N7	2.66	0.63
1:AA:2181:G:C4	1:AA:2182:G:C6	2.54	0.63
1:AA:220:G:H21	1:AA:265:A:N6	1.97	0.63
1:AA:2291:U:H2'	1:AA:2292:C:H6	1.63	0.63
1:AA:2378:A:H2'	1:AA:2378:A:N3	2.13	0.63
1:AA:2459:A:OP2	1:AA:2460:U:C5	2.51	0.63
1:AA:2481:G:O2'	1:AA:2482:G:C5'	2.46	0.63
1:AA:2584:U:C6	1:AA:2584:U:H3'	2.34	0.63
1:AA:2732:G:H3'	1:AA:2733:A:H5'	1.81	0.63
1:AA:348:G:H2'	1:AA:349:G:H8	1.63	0.63
1:AA:404:C:H5'	1:AA:406:G:C1'	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:35:G:C4	1:AA:454:A:C2	2.86	0.63
1:AA:515:A:C8	1:AA:515:A:H3'	2.34	0.63
1:AA:556:G:H8	1:AA:556:G:O5'	1.82	0.63
1:AA:821:A:N6	1:AA:972:G:O2'	2.31	0.63
1:AA:974:G:N2	1:AA:1187:G:C6	2.65	0.63
1:AA:989:G:H2'	1:AA:990:A:OP2	1.99	0.63
2:AB:71:C:H2'	2:AB:72:G:C4'	2.28	0.63
2:AB:81:G:C6	2:AB:96:G:C6	2.86	0.63
3:AC:86:ALA:CB	3:AC:149:ILE:HG12	2.29	0.63
1:AA:1790:C:O2'	4:AD:213:ARG:NH2	2.32	0.63
4:AD:37:LEU:HD12	4:AD:62:TYR:O	1.98	0.63
5:AE:179:GLU:O	5:AE:181:LEU:N	2.31	0.63
5:AE:50:GLY:H	5:AE:76:ARG:CG	2.10	0.63
6:AF:77:ASP:OD1	6:AF:80:ALA:HB2	1.98	0.63
9:AK:93:THR:HG22	9:AK:94:HIS:HD2	1.63	0.63
10:AL:13:ASN:O	10:AL:13:ASN:OD1	2.16	0.63
12:AN:36:ALA:O	12:AN:37:LEU:CG	2.47	0.63
15:AQ:32:TYR:HD2	15:AQ:88:ILE:HA	1.62	0.63
17:AS:22:VAL:CG1	17:AS:23:GLU:N	2.61	0.63
17:AS:40:LEU:CD2	17:AS:51:VAL:O	2.44	0.63
20:AV:7:VAL:HG22	20:AV:71:LYS:CG	2.28	0.63
20:AV:81:LYS:HG2	20:AV:96:ILE:CG2	2.28	0.63
24:AZ:50:VAL:HG22	24:AZ:53:LEU:HD12	1.79	0.63
34:BA:111:G:H5''	34:BA:112:G:OP2	1.98	0.63
34:BA:1202:G:N2	34:BA:1203:C:C1'	2.61	0.63
34:BA:1256:A:O2'	34:BA:1257:U:H1'	1.97	0.63
34:BA:1399:C:O2'	34:BA:1400:C:OP2	2.15	0.63
34:BA:1423:G:H2'	34:BA:1424:C:H6	1.62	0.63
34:BA:1454:G:C5	34:BA:1455:G:C6	2.86	0.63
34:BA:1471:G:H2'	34:BA:1472:U:C6	2.33	0.63
34:BA:228:A:H2'	34:BA:229:U:C5'	2.28	0.63
34:BA:50:A:C6	34:BA:361:G:H4'	2.33	0.63
34:BA:627:G:H2'	34:BA:628:G:H8	1.63	0.63
34:BA:689:C:H5''	34:BA:690:G:OP2	1.99	0.63
35:BF:21:ARG:O	35:BF:23:ARG:HD3	1.99	0.63
35:BF:71:VAL:HG22	35:BF:93:VAL:CB	2.28	0.63
35:BF:87:ARG:O	35:BF:89:GLY:N	2.32	0.63
35:BF:92:TYR:HE2	35:BF:151:GLY:O	1.81	0.63
34:BA:8:A:N6	37:BH:209:ARG:NH1	2.47	0.63
38:BI:9:LYS:CG	38:BI:112:LEU:HG	2.27	0.63
34:BA:736:C:H4'	39:BJ:89:MET:SD	2.38	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:153:HIS:HE1	44:BO:58:PRO:CD	2.11	0.63
41:BL:45:ILE:HG13	41:BL:47:GLY:H	1.62	0.63
46:BQ:15:VAL:HG21	46:BQ:39:ILE:CD1	0.50	0.63
46:BQ:23:TYR:HD2	46:BQ:67:GLU:CA	2.02	0.63
46:BQ:37:THR:HB	46:BQ:56:LEU:CB	2.28	0.63
46:BQ:66:LEU:HA	46:BQ:70:LEU:HB2	1.78	0.63
47:BR:24:CYS:HB3	47:BR:28:GLY:O	1.98	0.63
36:BG:12:LEU:HD21	47:BR:58:LYS:N	2.13	0.63
48:BS:33:THR:HG23	48:BS:87:ILE:HD11	1.79	0.63
50:BU:82:MET:HA	50:BU:85:VAL:HG21	1.78	0.63
57:BZ:158:LEU:CA	57:BZ:159:ASP:HB3	2.28	0.63
34:BA:1382:C:O5'	34:BA:1382:C:H6	1.80	0.63
1:AA:1075:C:O2	32:AJ:90:LYS:HA	1.99	0.63
1:AA:1290:C:H2'	1:AA:1291:C:H6	1.62	0.63
1:AA:1527:G:C3'	1:AA:1527:G:C8	2.77	0.63
1:AA:1528:A:C8	1:AA:1529:A:C2	2.87	0.63
1:AA:1675:C:O2	1:AA:1676:A:O4'	2.17	0.63
1:AA:1743:G:O6	1:AA:1746:G:C6	2.52	0.63
1:AA:1878:G:H2'	1:AA:1879:C:C6	2.33	0.63
1:AA:1910:G:C2	1:AA:1921:G:N9	2.38	0.63
1:AA:1933:G:N2	1:AA:1973:G:O2'	2.31	0.63
1:AA:2398:U:H2'	1:AA:2399:G:H8	1.62	0.63
1:AA:252:G:N3	1:AA:253:C:C6	2.67	0.63
1:AA:242:G:H2'	1:AA:254:G:N1	2.13	0.63
1:AA:2556:C:H4'	57:BZ:550:GLY:CA	2.29	0.63
1:AA:2629:A:C6	1:AA:2896:C:P	2.88	0.63
1:AA:2720:U:C2	1:AA:2721:A:C8	2.87	0.63
1:AA:2720:U:O4	1:AA:2872:G:C6	2.52	0.63
1:AA:351:G:O2'	1:AA:352:G:P	2.57	0.63
1:AA:522:G:O2'	1:AA:523:C:H5'	1.99	0.63
1:AA:541:C:C2	1:AA:542:C:C5	2.86	0.63
1:AA:558:G:H5'	9:AK:112:LEU:CG	2.27	0.63
1:AA:704:G:O2'	1:AA:705:A:OP2	2.16	0.63
1:AA:720:C:H2'	1:AA:721:C:C6	2.33	0.63
1:AA:839:U:H2'	1:AA:840:C:H6	1.55	0.63
1:AA:944:G:C5'	1:AA:945:A:H5''	2.24	0.63
2:AB:117:G:N3	2:AB:117:G:H2'	2.13	0.63
2:AB:69:G:H2'	2:AB:69:G:N3	2.14	0.63
2:AB:8:U:C2	2:AB:9:G:C8	2.86	0.63
3:AC:104:LEU:HD11	3:AC:126:LYS:O	1.97	0.63
4:AD:94:LEU:HD22	4:AD:104:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1788:C:C2'	4:AD:222:ARG:NH2	2.50	0.63
4:AD:261:LYS:O	4:AD:262:ARG:C	2.36	0.63
5:AE:81:ILE:HG22	5:AE:82:ARG:H	1.63	0.63
6:AF:192:LEU:HD13	6:AF:192:LEU:C	2.18	0.63
6:AF:18:ARG:HG3	6:AF:19:GLU:H	1.63	0.63
8:AH:149:ARG:HA	8:AH:162:ILE:CG2	2.28	0.63
1:AA:1079:C:C2	32:AJ:129:GLY:O	2.50	0.63
1:AA:558:G:H5'	9:AK:112:LEU:HG	1.80	0.63
9:AK:128:HIS:O	9:AK:131:GLN:CB	2.45	0.63
9:AK:15:LEU:HD23	9:AK:15:LEU:N	2.13	0.63
1:AA:1131:G:C4	9:AK:74:ARG:NE	2.66	0.63
9:AK:7:LYS:HE2	9:AK:39:ARG:HH22	1.61	0.63
10:AL:96:THR:CG2	10:AL:97:ARG:H	1.89	0.63
12:AN:99:PRO:HG2	12:AN:101:ARG:NE	2.12	0.63
12:AN:111:GLU:C	12:AN:113:GLN:H	2.01	0.63
12:AN:122:GLY:O	12:AN:123:HIS:C	2.37	0.63
12:AN:134:ARG:HH21	12:AN:137:TYR:HD1	1.36	0.63
12:AN:56:ARG:CZ	12:AN:57:HIS:CB	2.77	0.63
13:AO:5:LYS:HZ1	13:AO:6:SER:C	2.01	0.63
10:AL:121:VAL:C	15:AQ:70:VAL:O	2.36	0.63
17:AS:5:VAL:CG1	17:AS:38:LEU:O	2.46	0.63
17:AS:68:LYS:NZ	17:AS:95:LEU:CD1	2.61	0.63
19:AU:49:VAL:C	19:AU:50:LYS:HD3	2.19	0.63
20:AV:12:THR:HG22	20:AV:13:VAL:HG12	1.81	0.63
21:AW:4:ARG:HD3	21:AW:38:TYR:C	2.18	0.63
24:AZ:26:LEU:HB2	24:AZ:28:LEU:CD2	2.28	0.63
24:AZ:31:LEU:HD13	24:AZ:31:LEU:O	1.99	0.63
34:BA:1128:C:O2	34:BA:1146:A:N6	2.31	0.63
34:BA:1162:C:N1	34:BA:1163:C:H5	1.94	0.63
34:BA:1189:C:C2'	34:BA:1190:G:H5'	2.29	0.63
34:BA:1203:C:H2'	34:BA:1204:A:O4'	1.98	0.63
34:BA:1268:A:H2	34:BA:1311:G:N3	1.87	0.63
34:BA:1346:A:H8	34:BA:1348:U:C2	2.16	0.63
34:BA:1461:G:H8	34:BA:1461:G:O5'	1.80	0.63
34:BA:321:A:H4'	34:BA:1436:U:H5'	1.80	0.63
34:BA:375:U:O2'	34:BA:376:G:H5'	1.99	0.63
34:BA:55:A:H2'	34:BA:56:U:H5'	1.77	0.63
35:BF:39:ILE:O	35:BF:41:ILE:HD12	1.98	0.63
35:BF:97:TRP:NE1	35:BF:101:MET:SD	2.72	0.63
37:BH:150:GLU:O	37:BH:152:SER:N	2.32	0.63
39:BJ:53:ALA:CB	39:BJ:86:ARG:HD2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:51:VAL:HG21	41:BL:60:ARG:NH2	2.09	0.63
42:BM:113:LYS:N	42:BM:113:LYS:HD2	2.13	0.63
44:BO:91:ARG:CG	44:BO:95:ILE:HD11	2.29	0.63
46:BQ:13:LYS:HG2	46:BQ:17:VAL:HG11	1.80	0.63
52:BW:18:LYS:CE	52:BW:22:LEU:HD12	2.29	0.63
46:BQ:86:CYS:HA	52:BW:74:PHE:CG	2.33	0.63
57:BZ:390:ARG:O	57:BZ:397:GLN:N	2.30	0.63
57:BZ:427:LYS:O	57:BZ:428:ASN:HB2	1.98	0.63
3:AC:54:SER:HA	3:AC:57:ASN:HD22	1.63	0.63
3:AC:194:ARG:HG3	3:AC:194:ARG:HH11	1.63	0.63
1:AA:1424:G:OP2	1:AA:1424:G:C8	2.52	0.63
1:AA:144:C:C2'	1:AA:145:G:H5'	2.29	0.63
1:AA:1351:C:H4'	1:AA:1571:A:O2'	1.98	0.63
1:AA:2225:A:H5'	1:AA:2226:C:C6	2.33	0.63
1:AA:2320:A:H1'	1:AA:2333:A:C6	2.33	0.63
1:AA:2371:G:C2	1:AA:2372:G:C5	2.86	0.63
1:AA:2393:A:H5''	11:AM:56:SER:N	2.14	0.63
1:AA:2400:G:H2'	1:AA:2401:U:O4'	1.98	0.63
1:AA:2445:G:C2'	1:AA:2446:G:C8	2.67	0.63
1:AA:2533:A:H2'	1:AA:2534:A:C8	2.34	0.63
1:AA:2700:C:C3'	1:AA:2701:C:H5''	2.28	0.63
1:AA:2741:A:H2'	1:AA:2742:C:O4'	1.98	0.63
1:AA:2755:C:H4'	1:AA:2756:U:C6	2.33	0.63
1:AA:2043:C:C4	1:AA:2777:G:N3	2.67	0.63
1:AA:293:U:C6	1:AA:293:U:C3'	2.80	0.63
1:AA:576:U:C2	1:AA:577:G:N7	2.67	0.63
1:AA:792:G:H21	1:AA:2072:G:C1'	2.10	0.63
1:AA:951:C:HO2'	1:AA:952:G:H5'	1.62	0.63
2:AB:102:G:C2	2:AB:103:U:O4	2.52	0.63
2:AB:31:C:H1'	2:AB:53:A:H61	1.63	0.63
3:AC:74:VAL:HA	3:AC:112:ALA:O	1.99	0.63
4:AD:125:ILE:CG2	4:AD:137:PRO:HG3	2.22	0.63
4:AD:146:GLU:HA	4:AD:154:LYS:HG2	1.81	0.63
4:AD:53:PHE:O	4:AD:54:ARG:O	2.16	0.63
5:AE:38:THR:HG1	5:AE:44:TYR:HB2	1.64	0.63
5:AE:47:VAL:HG22	5:AE:79:ARG:CB	2.29	0.63
6:AF:43:LYS:HG3	6:AF:98:SER:HA	1.80	0.63
8:AH:25:LYS:NZ	8:AH:32:GLU:HB2	2.11	0.63
9:AK:107:LEU:HD13	9:AK:117:PHE:CZ	2.33	0.63
9:AK:14:VAL:HG22	9:AK:138:LEU:CD1	2.29	0.63
9:AK:22:THR:HG22	9:AK:61:ARG:CZ	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:25:LEU:HD22	10:AL:38:VAL:CG2	2.25	0.63
1:AA:627:A:H5'	11:AM:75:ILE:CB	2.28	0.63
12:AN:32:TYR:HE2	12:AN:108:GLY:H	1.45	0.63
13:AO:55:ALA:CA	13:AO:79:LEU:HD21	2.28	0.63
15:AQ:4:GLY:O	15:AQ:8:LYS:CG	2.46	0.63
15:AQ:68:TYR:CZ	15:AQ:70:VAL:HG22	2.34	0.63
16:AR:92:ARG:HA	16:AR:95:LEU:CG	2.28	0.63
17:AS:28:GLU:HG2	17:AS:94:LEU:HB2	1.79	0.63
20:AV:19:LYS:HB3	20:AV:21:LYS:HG2	1.81	0.63
20:AV:47:LYS:HB2	20:AV:49:VAL:HG13	1.79	0.63
20:AV:47:LYS:HE2	20:AV:49:VAL:HG11	1.80	0.63
2:AB:77:U:OP1	21:AW:19:ARG:NH1	2.32	0.63
34:BA:1004:A:O2'	34:BA:1005:A:O5'	2.16	0.63
34:BA:1210:C:O3'	34:BA:1214:C:N4	2.32	0.63
34:BA:236:G:C4	34:BA:237:C:C5	2.86	0.63
34:BA:296:U:H1'	34:BA:302:G:H22	1.63	0.63
35:BF:163:PHE:HE1	35:BF:201:ILE:HD13	1.64	0.63
36:BG:191:THR:O	36:BG:193:TYR:N	2.31	0.63
34:BA:409:G:H5'	37:BH:24:GLU:HB3	1.79	0.63
38:BI:140:ARG:NH1	38:BI:140:ARG:CB	2.61	0.63
34:BA:6:G:N1	38:BI:96:PRO:HG2	2.12	0.63
39:BJ:3:ARG:CA	39:BJ:67:MET:HE1	2.12	0.63
40:BK:72:ARG:HH22	40:BK:138:LYS:NZ	1.96	0.63
41:BL:87:SER:HB3	41:BL:93:VAL:HG23	1.81	0.63
45:BP:30:ALA:HB1	45:BP:31:PRO:HD2	1.80	0.63
34:BA:363:A:C8	45:BP:31:PRO:HD2	2.33	0.63
46:BQ:15:VAL:HG22	46:BQ:39:ILE:CD1	1.12	0.63
48:BS:65:ARG:O	48:BS:68:ARG:CB	2.45	0.63
50:BU:43:LEU:HD22	50:BU:44:ALA:O	1.97	0.63
50:BU:78:GLU:HG2	50:BU:81:ARG:HB2	1.80	0.63
52:BW:38:SER:HB3	52:BW:71:LEU:HD12	1.80	0.63
52:BW:9:VAL:HG22	52:BW:42:PRO:N	2.12	0.63
57:BZ:110:ARG:HH22	57:BZ:117:PHE:HE2	1.47	0.63
57:BZ:305:PRO:CB	57:BZ:361:ARG:HA	2.25	0.63
57:BZ:79:ALA:HA	57:BZ:80:ASP:HB2	1.80	0.63
20:AV:42:VAL:O	20:AV:61:ILE:HD13	1.97	0.63
57:BZ:293:ASN:HA	57:BZ:294:VAL:HB	1.80	0.63
1:AA:1079:C:O2	32:AJ:132:ARG:CA	2.47	0.63
1:AA:1212:G:O2'	1:AA:1213:A:C8	2.52	0.63
1:AA:1223:C:C2	1:AA:1227:A:C2	2.87	0.63
1:AA:13:A:N7	1:AA:15:G:O6	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1409:C:O2'	1:AA:1410:G:H5'	1.98	0.63
1:AA:49:A:C6	1:AA:177:G:C2	2.86	0.63
1:AA:1894:C:O2'	1:AA:1895:C:H5'	1.99	0.63
1:AA:1977:A:C2	1:AA:1978:A:N9	2.67	0.63
1:AA:221:A:H3'	1:AA:221:A:C8	2.33	0.63
1:AA:247:G:C2	1:AA:249:C:O2'	2.51	0.63
1:AA:247:G:N2	1:AA:249:C:HO2'	1.95	0.63
1:AA:2547:U:C2'	1:AA:2548:G:H5''	2.29	0.63
1:AA:2636:U:OP1	5:AE:79:ARG:N	2.20	0.63
1:AA:2733:A:C2'	1:AA:2734:A:O5'	2.44	0.63
1:AA:324:A:C8	1:AA:340:A:H1'	2.33	0.63
1:AA:481:G:H1	1:AA:509:C:N4	1.95	0.63
1:AA:514:A:H2	1:AA:515:A:C1'	2.11	0.63
1:AA:563:G:N2	16:AR:34:LYS:CE	2.60	0.63
1:AA:592:G:H3'	1:AA:593:G:O4'	1.98	0.63
1:AA:636:G:O6	11:AM:111:ARG:NH1	2.24	0.63
1:AA:703:U:H3'	1:AA:704:G:C8	2.32	0.63
1:AA:788:A:O2'	1:AA:789:A:OP2	2.17	0.63
1:AA:876:C:H2'	1:AA:877:U:C6	2.33	0.63
1:AA:915:C:H2'	1:AA:916:G:C8	2.33	0.63
2:AB:76:G:H5'	21:AW:85:HIS:CE1	2.33	0.63
2:AB:90:C:O2'	2:AB:91:C:H5'	1.98	0.63
3:AC:131:LEU:HD22	3:AC:136:LEU:O	1.98	0.63
3:AC:189:ILE:HD13	3:AC:224:ILE:CD1	2.28	0.63
3:AC:47:LEU:HD23	3:AC:47:LEU:H	1.62	0.63
6:AF:106:ARG:HB2	6:AF:106:ARG:HH21	1.63	0.63
1:AA:321:G:H4'	6:AF:165:ARG:O	1.98	0.63
6:AF:30:PRO:HA	6:AF:33:LEU:CD2	2.27	0.63
7:AG:118:ARG:CG	7:AG:119:GLY:N	2.54	0.63
7:AG:53:LEU:CD2	7:AG:71:THR:N	2.61	0.63
8:AH:84:SER:HA	8:AH:134:SER:CA	2.25	0.63
32:AJ:103:GLN:O	32:AJ:107:ILE:HG13	1.99	0.63
9:AK:15:LEU:HD11	9:AK:137:LYS:HB3	1.80	0.63
9:AK:2:LYS:N	16:AR:61:TRP:CZ2	2.66	0.63
1:AA:1006:C:H4'	9:AK:32:THR:OG1	1.99	0.63
9:AK:87:LEU:O	9:AK:91:LEU:CG	2.47	0.63
10:AL:90:GLN:NE2	10:AL:110:GLY:O	2.31	0.63
10:AL:108:GLU:HB3	10:AL:111:PHE:CE2	2.33	0.63
11:AM:23:PRO:CB	11:AM:29:LYS:N	2.60	0.63
12:AN:27:VAL:HG13	12:AN:104:PHE:CE2	2.34	0.63
12:AN:126:PRO:C	12:AN:127:ILE:HG13	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:6:SER:OG	13:AO:9:LYS:HE2	1.99	0.63
14:AP:9:ARG:HA	14:AP:12:PHE:CD2	2.34	0.63
15:AQ:17:THR:C	15:AQ:19:LEU:H	2.00	0.63
15:AQ:54:ARG:C	15:AQ:55:ASN:CG	2.53	0.63
16:AR:102:GLU:O	16:AR:105:VAL:CG1	2.44	0.63
1:AA:996:A:O3'	16:AR:93:LYS:HG2	1.98	0.63
19:AU:39:ILE:HG21	19:AU:54:VAL:CG1	2.29	0.63
1:AA:903:C:O2'	21:AW:169:GLU:OE2	2.15	0.63
21:AW:29:TYR:O	21:AW:89:PHE:HA	1.99	0.63
21:AW:44:PHE:HD2	21:AW:48:PHE:CE1	2.17	0.63
22:AX:59:LEU:HD22	22:AX:79:VAL:HG21	1.81	0.63
34:BA:1194:U:H2'	34:BA:1195:C:O4'	1.99	0.63
34:BA:1254:C:OP1	43:BN:45:ARG:CZ	2.47	0.63
34:BA:1261:A:H3'	34:BA:1262:C:C5	2.33	0.63
34:BA:1373:G:H5''	40:BK:36:LYS:HB2	1.81	0.63
34:BA:1437:C:H2'	34:BA:1438:G:C8	2.33	0.63
34:BA:1488:G:O2'	34:BA:1489:G:H5'	1.99	0.63
34:BA:438:G:H2'	34:BA:494:U:O4	1.98	0.63
34:BA:581:G:H2'	34:BA:582:U:OP2	1.98	0.63
34:BA:676:A:H2'	34:BA:677:U:C6	2.34	0.63
34:BA:962:C:H2'	34:BA:963:G:O4'	1.98	0.63
35:BF:214:ILE:O	35:BF:217:ARG:HB2	1.99	0.63
35:BF:70:PHE:CB	35:BF:163:PHE:O	2.47	0.63
36:BG:152:ILE:HG22	36:BG:167:TRP:HB3	1.81	0.63
36:BG:11:ARG:HH22	36:BG:179:ARG:N	1.97	0.63
36:BG:53:ALA:CB	36:BG:115:LEU:HD21	2.27	0.63
36:BG:66:VAL:C	36:BG:102:ASN:HD22	2.02	0.63
37:BH:14:ARG:HD3	37:BH:14:ARG:C	2.18	0.63
37:BH:155:LEU:HB2	37:BH:158:ILE:CG1	2.26	0.63
37:BH:19:LEU:C	37:BH:21:LEU:N	2.45	0.63
37:BH:26:CYS:O	37:BH:31:CYS:SG	2.57	0.63
40:BK:140:ASP:HA	40:BK:143:ARG:NE	2.13	0.63
41:BL:68:ARG:NH2	41:BL:74:PRO:HB3	2.13	0.63
44:BO:23:ALA:HB1	44:BO:28:THR:OG1	1.98	0.63
34:BA:362:G:O3'	45:BP:33:ARG:NH2	2.31	0.63
45:BP:38:THR:HG23	45:BP:39:VAL:H	1.63	0.63
45:BP:48:PRO:CG	45:BP:49:ASN:H	2.10	0.63
45:BP:33:ARG:CG	45:BP:60:LEU:HD23	2.29	0.63
47:BR:27:CYS:H	47:BR:43:CYS:CB	2.11	0.63
34:BA:130:A:N6	50:BU:64:PRO:HG2	2.14	0.63
51:BV:72:ARG:CA	51:BV:75:ILE:HD12	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:27:GLU:HG2	52:BW:28:LYS:H	1.63	0.63
46:BQ:85:GLY:O	52:BW:74:PHE:CB	2.47	0.63
53:BX:55:ILE:O	53:BX:56:MET:C	2.37	0.63
57:BZ:164:TYR:CE2	57:BZ:175:ASP:OD2	2.48	0.63
57:BZ:378:PHE:H	57:BZ:582:PRO:CG	1.95	0.63
57:BZ:523:ILE:CG1	57:BZ:587:ILE:O	2.47	0.63
56:BD:2:C:H2'	56:BD:3:C:C5'	2.28	0.63
57:BZ:497:VAL:HA	57:BZ:514:HIS:ND1	2.06	0.63
20:AV:42:VAL:HG23	20:AV:61:ILE:HG21	1.79	0.63
57:BZ:300:LEU:H	57:BZ:300:LEU:CD1	2.11	0.63
1:AA:2142:C:C4	1:AA:2143:C:N4	2.67	0.63
1:AA:119:A:H4'	1:AA:120:U:H5'	1.80	0.63
1:AA:1338:G:O2'	1:AA:1339:G:H5'	1.97	0.63
1:AA:1603:A:C2	1:AA:1604:C:C4	2.86	0.63
1:AA:1689:A:N7	1:AA:1700:A:C5	2.67	0.63
1:AA:1700:A:H3'	1:AA:1701:A:C8	2.29	0.63
1:AA:1735:C:C2	1:AA:1741:C:H5	2.17	0.63
1:AA:1799:G:O2'	1:AA:1800:C:O5'	2.16	0.63
1:AA:1906:G:N3	1:AA:1907:G:C8	2.67	0.63
1:AA:1964:G:O2'	1:AA:1965:C:OP1	2.17	0.63
1:AA:2122:U:H4'	3:AC:166:ASP:HB2	0.63	0.63
1:AA:2227:A:C6	1:AA:2228:G:C5	2.87	0.63
1:AA:2459:A:H2	1:AA:2492:U:C4	2.16	0.63
1:AA:2625:G:H3'	1:AA:2626:C:C5	2.33	0.63
1:AA:2670:A:C2	1:AA:2671:A:N9	2.66	0.63
1:AA:2670:A:C6	1:AA:2671:A:C6	2.87	0.63
1:AA:2730:C:O2'	1:AA:2731:G:H5'	1.99	0.63
1:AA:2772:C:C2	1:AA:2773:C:C5	2.86	0.63
1:AA:2:G:O6	1:AA:2902:C:C4	2.42	0.63
1:AA:498:G:H2'	1:AA:499:U:H5'	1.81	0.63
1:AA:702:G:C2	1:AA:731:C:N3	2.67	0.63
1:AA:747:U:O2'	18:AT:88:ARG:HG3	1.99	0.63
1:AA:942:G:C2	1:AA:943:U:N3	2.67	0.63
1:AA:997:G:H2'	1:AA:998:C:C5	2.33	0.63
2:AB:83:G:N2	2:AB:84:C:N1	2.47	0.63
3:AC:10:LEU:HD13	3:AC:32:LEU:O	1.98	0.63
4:AD:55:GLY:H	4:AD:218:ARG:HD3	1.64	0.63
4:AD:61:LEU:HD22	4:AD:63:ARG:HH22	1.60	0.63
5:AE:152:LYS:HE3	5:AE:153:GLY:HA3	1.80	0.63
6:AF:74:ARG:O	6:AF:75:HIS:HB2	1.98	0.63
7:AG:19:LEU:N	7:AG:19:LEU:HD12	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:6:ALA:HA	7:AG:9:ARG:HH21	1.62	0.63
1:AA:1081:U:H4'	32:AJ:125:ARG:CD	2.29	0.63
9:AK:37:LYS:HA	9:AK:42:TRP:CB	2.28	0.63
10:AL:57:VAL:HG23	10:AL:58:VAL:N	2.14	0.63
12:AN:134:ARG:HG3	12:AN:134:ARG:HH11	1.63	0.63
12:AN:137:TYR:O	12:AN:138:ASP:CB	2.46	0.63
13:AO:14:SER:HA	13:AO:17:ARG:HG2	1.81	0.63
14:AP:64:GLU:O	14:AP:65:VAL:C	2.36	0.63
15:AQ:28:VAL:HG13	15:AQ:92:GLY:CA	2.29	0.63
1:AA:2020:A:P	16:AR:27:LEU:HD13	2.38	0.63
1:AA:515:A:C5'	16:AR:32:PHE:HZ	2.11	0.63
17:AS:14:VAL:HG21	17:AS:21:ARG:HH22	1.62	0.63
18:AT:25:ARG:HG2	18:AT:71:VAL:HG21	1.81	0.63
20:AV:14:LEU:HB2	20:AV:20:TYR:N	2.13	0.63
20:AV:1:MET:HG3	20:AV:67:LEU:HD22	1.80	0.63
2:AB:76:G:P	21:AW:11:GLU:HA	2.39	0.63
21:AW:180:VAL:HG12	21:AW:180:VAL:O	1.99	0.63
21:AW:6:LYS:CG	21:AW:7:ALA:N	2.62	0.63
1:AA:2365:G:OP1	22:AX:55:ARG:N	2.31	0.63
23:AY:50:ARG:O	23:AY:53:ALA:HB3	1.98	0.63
34:BA:1057:G:H2'	34:BA:1058:G:C8	2.32	0.63
34:BA:1115:C:N1	34:BA:1186:G:C2	2.65	0.63
34:BA:1117:G:N9	34:BA:1184:G:C2	2.66	0.63
34:BA:1513:A:H2'	34:BA:1514:C:H6	1.63	0.63
34:BA:449:C:H2'	34:BA:450:G:C4'	2.29	0.63
34:BA:54:C:N4	34:BA:352:C:H2'	2.14	0.63
34:BA:560:U:O4'	34:BA:566:G:N2	2.31	0.63
34:BA:640:A:O2'	34:BA:641:U:H5'	1.98	0.63
34:BA:817:C:HO2'	34:BA:818:G:H5''	1.63	0.63
34:BA:966:G:H2'	34:BA:967:C:C6	2.33	0.63
35:BF:91:PRO:CG	35:BF:154:LEU:HB3	2.22	0.63
35:BF:52:GLU:CG	35:BF:53:ARG:N	2.62	0.63
35:BF:64:ARG:H	35:BF:64:ARG:HD2	1.63	0.63
35:BF:78:GLN:HE22	35:BF:96:ARG:NH2	1.96	0.63
36:BG:182:ILE:CG2	36:BG:202:ILE:O	2.47	0.63
36:BG:57:ILE:HG22	36:BG:59:ARG:HH21	1.63	0.63
36:BG:47:LEU:HD11	36:BG:83:ARG:NH2	2.14	0.63
37:BH:120:LEU:HA	37:BH:125:HIS:NE2	2.14	0.63
37:BH:102:ASP:HB2	37:BH:136:PRO:C	2.18	0.63
37:BH:170:VAL:CG2	37:BH:176:LEU:HB3	2.28	0.63
37:BH:61:LYS:O	37:BH:64:LEU:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1077:G:O6	38:BI:47:LYS:NZ	2.32	0.63
39:BJ:1:MET:SD	39:BJ:68:PRO:HG3	2.39	0.63
40:BK:129:GLU:CB	40:BK:131:LYS:HE2	2.29	0.63
40:BK:17:VAL:HB	40:BK:44:TYR:OH	1.99	0.63
41:BL:38:ILE:HD11	41:BL:118:VAL:HB	1.79	0.63
41:BL:137:VAL:HG12	41:BL:138:TRP:N	2.14	0.63
41:BL:29:SER:C	41:BL:32:LYS:NZ	2.52	0.63
44:BO:78:GLN:O	44:BO:103:LEU:O	2.16	0.63
44:BO:125:PHE:CD1	44:BO:125:PHE:N	2.66	0.63
44:BO:53:SER:OG	44:BO:54:ARG:N	2.28	0.63
45:BP:91:LYS:O	45:BP:92:ASP:CB	2.47	0.63
46:BQ:15:VAL:CA	46:BQ:34:LEU:CD2	2.48	0.63
48:BS:33:THR:HG23	48:BS:87:ILE:HD12	1.80	0.63
34:BA:659:U:OP1	48:BS:9:GLN:NE2	2.31	0.63
49:BT:35:LYS:O	49:BT:36:ILE:HG23	1.98	0.63
50:BU:80:GLY:O	50:BU:82:MET:N	2.32	0.63
50:BU:88:TYR:HA	50:BU:91:ARG:CZ	2.29	0.63
57:BZ:156:GLU:CA	57:BZ:157:GLN:HB3	2.29	0.63
57:BZ:228:ARG:CA	57:BZ:267:LEU:HD12	2.28	0.63
57:BZ:57:LEU:CD1	57:BZ:255:LEU:HA	2.17	0.63
57:BZ:383:SER:N	57:BZ:384:ARG:HG2	2.12	0.63
57:BZ:401:GLU:HB3	57:BZ:468:THR:N	2.14	0.63
57:BZ:562:ARG:O	57:BZ:563:MET:HB2	1.98	0.63
57:BZ:67:ASP:OD1	57:BZ:68:TYR:HA	1.99	0.63
57:BZ:81:PHE:CE2	57:BZ:342:ASN:ND2	2.66	0.63
56:BD:4:C:N1	56:BD:70:G:C2	2.67	0.63
37:BH:43:HIS:O	37:BH:46:LYS:HB2	1.99	0.63
1:AA:1309:G:C2'	1:AA:1310:G:C5'	2.75	0.63
1:AA:1309:G:C2	1:AA:1310:G:C8	2.87	0.63
1:AA:1310:G:N7	1:AA:1311:G:N2	2.46	0.63
1:AA:1538:G:O2'	1:AA:1539:G:H5'	1.98	0.63
1:AA:1604:C:O2	1:AA:1604:C:H2'	1.99	0.63
1:AA:1626:G:N2	1:AA:1634:A:O2'	2.32	0.63
1:AA:1656:C:H2'	1:AA:1657:C:H5	1.62	0.63
1:AA:1669:A:N1	1:AA:1994:C:H1'	2.14	0.63
1:AA:2130:U:H5''	1:AA:2131:G:OP1	1.98	0.63
1:AA:223:A:C5	1:AA:408:G:H1'	2.33	0.63
1:AA:226:G:N2	1:AA:227:A:N3	2.47	0.63
1:AA:2467:C:O2	12:AN:124:LYS:HD3	1.98	0.63
1:AA:2499:C:O2	1:AA:2499:C:H2'	1.98	0.63
1:AA:247:G:N2	1:AA:249:C:O2'	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2542:A:O2'	1:AA:2543:G:H5'	1.99	0.63
1:AA:2563:U:H4'	10:AL:28:SER:CB	2.29	0.63
1:AA:270(U):C:H2'	1:AA:270(V):G:C1'	2.29	0.63
1:AA:341:G:H2'	1:AA:342:G:C8	2.34	0.63
1:AA:355:G:C6	1:AA:356:G:C6	2.87	0.63
1:AA:642:G:H3'	1:AA:642:G:H8	1.64	0.63
1:AA:704:G:H22	1:AA:726:G:C1'	2.12	0.63
1:AA:91:A:C2'	1:AA:91:A:N3	2.60	0.63
2:AB:62:C:C2	2:AB:63:G:N7	2.67	0.63
3:AC:59:ARG:NH1	3:AC:164:ARG:HH11	1.97	0.63
1:AA:2177:C:C4'	3:AC:223:ARG:CZ	2.75	0.63
4:AD:79:VAL:HB	4:AD:114:GLY:N	2.14	0.63
1:AA:2209:C:C4'	4:AD:150:LYS:HB3	2.27	0.63
4:AD:140:THR:C	4:AD:165:ILE:HD13	2.18	0.63
4:AD:208:LYS:HZ1	4:AD:211:ARG:NH2	1.97	0.63
4:AD:226:MET:CE	4:AD:237:GLU:H	2.11	0.63
1:AA:1971:A:C2	4:AD:239:ARG:HA	2.34	0.63
5:AE:13:ARG:CZ	11:AM:56:SER:CB	122.43	0.63
8:AH:7:LEU:N	8:AH:7:LEU:HD23	2.14	0.63
32:AJ:40:ALA:HB1	32:AJ:66:THR:HG1	0.81	0.63
9:AK:34:LEU:HD23	9:AK:116:LEU:HD21	1.80	0.63
1:AA:1131:G:O4'	9:AK:82:LEU:HD11	1.99	0.63
10:AL:70:LYS:CE	10:AL:103:ALA:HB3	2.29	0.63
1:AA:1245:G:OP1	11:AM:15:ARG:HD2	1.99	0.63
11:AM:15:ARG:O	11:AM:17:LYS:NZ	2.32	0.63
12:AN:94:VAL:CG2	12:AN:95:ALA:N	2.52	0.63
13:AO:40:LYS:O	13:AO:44:LEU:HB2	1.99	0.63
14:AP:9:ARG:CB	14:AP:9:ARG:NH1	2.48	0.63
1:AA:2018:G:N3	16:AR:34:LYS:NZ	2.47	0.63
18:AT:103:ILE:HD13	18:AT:103:ILE:H	1.62	0.63
18:AT:98:LYS:HZ3	18:AT:98:LYS:C	2.00	0.63
20:AV:47:LYS:CB	20:AV:49:VAL:HG13	2.28	0.63
20:AV:65:ALA:CB	20:AV:66:PRO:HD3	2.28	0.63
21:AW:76:LEU:HD23	21:AW:83:PRO:HB3	1.80	0.63
21:AW:79:ARG:HB2	21:AW:80:ARG:HH11	1.64	0.63
23:AY:38:GLN:H	23:AY:41:GLN:CD	2.01	0.63
24:AZ:4:LEU:O	24:AZ:37:LEU:CB	2.43	0.63
34:BA:1192:C:N4	34:BA:1193:G:C5	2.67	0.63
34:BA:1271:G:OP1	34:BA:1314:C:O5'	2.06	0.63
34:BA:1449:C:H42	34:BA:1454:G:H1	1.40	0.63
34:BA:190:G:OP1	34:BA:190:G:H8	1.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:453:A:H62	34:BA:480:U:H3	1.45	0.63
34:BA:50:A:C6	34:BA:361:G:C4'	2.82	0.63
34:BA:738:C:H2'	34:BA:739:C:C6	2.33	0.63
34:BA:809:G:H2'	34:BA:810:C:H5'	1.79	0.63
34:BA:21:G:N2	34:BA:915:A:N6	2.46	0.63
34:BA:947:G:N3	34:BA:948:C:C6	2.67	0.63
56:BE:11:C:H2'	56:BE:12:U:C6	2.33	0.63
34:BA:1229:A:C5'	56:BE:29:G:H5''	2.21	0.63
35:BF:224:GLN:HA	35:BF:229:VAL:HG22	1.81	0.63
37:BH:12:CYS:HA	37:BH:19:LEU:CB	2.21	0.63
37:BH:61:LYS:CA	37:BH:203:VAL:HG22	2.29	0.63
38:BI:105:VAL:HG22	38:BI:132:ALA:HB2	1.80	0.63
39:BJ:22:GLU:O	39:BJ:26:ILE:HG13	1.99	0.63
39:BJ:2:ARG:CZ	39:BJ:69:GLU:HG2	2.28	0.63
41:BL:34:GLU:O	41:BL:38:ILE:HG12	1.99	0.63
42:BM:117:HIS:HD2	42:BM:121:ARG:HD3	1.63	0.63
42:BM:93:ARG:CZ	42:BM:97:LYS:HG2	2.29	0.63
44:BO:14:VAL:O	44:BO:14:VAL:HG12	1.99	0.63
44:BO:62:GLN:O	44:BO:66:LEU:HG	1.99	0.63
45:BP:32:PHE:HB2	45:BP:84:LEU:HD21	1.80	0.63
34:BA:523:A:N6	45:BP:53:ARG:HH22	1.96	0.63
50:BU:63:ARG:HG2	50:BU:64:PRO:N	2.12	0.63
57:BZ:233:PRO:HG2	57:BZ:248:ASN:HB3	1.80	0.63
57:BZ:551:ALA:HB1	57:BZ:552:ASP:CB	2.18	0.63
57:BZ:64:ILE:HD11	57:BZ:187:TYR:CA	2.28	0.63
46:BQ:48:LEU:CD2	46:BQ:53:VAL:HG22	2.28	0.63
56:BD:47:U:O2'	56:BD:48:C:OP1	2.16	0.63
55:BC:36:A:C2'	55:BC:37:A:H5''	2.29	0.63
1:AA:1508:A:N3	1:AA:1508:A:OP2	2.32	0.63
1:AA:1027:A:H2'	1:AA:1028:A:H8	1.64	0.63
1:AA:1059:G:H4'	32:AJ:74:ALA:N	2.05	0.63
1:AA:1372:U:C2'	1:AA:1373:A:H5'	2.27	0.63
1:AA:1471:A:H2'	1:AA:1472:A:C5'	2.29	0.63
1:AA:1772:G:N2	1:AA:1774:C:H5'	2.14	0.63
1:AA:1906:G:N3	1:AA:1907:G:N7	2.47	0.63
1:AA:1917:U:O4	34:BA:1408:A:O3'	2.16	0.63
1:AA:1992:G:H1'	1:AA:1993:U:C4	2.34	0.63
1:AA:2244:U:C2'	1:AA:2245:U:O5'	2.47	0.63
1:AA:2283:C:C4	1:AA:2284:C:H1'	2.33	0.63
1:AA:2327:A:C2'	1:AA:2328:A:C8	2.73	0.63
1:AA:2329:G:H2'	1:AA:2330:G:C8	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2413:G:C2	1:AA:2414:G:H1'	2.34	0.63
1:AA:2415:G:C6	1:AA:2416:C:N4	2.67	0.63
1:AA:2689:U:O2	1:AA:2713:A:OP1	2.17	0.63
1:AA:295:G:C1'	1:AA:345:A:H2	2.12	0.63
1:AA:464:U:C6	1:AA:464:U:O5'	2.50	0.63
1:AA:693:C:O2'	1:AA:694:U:H5'	1.99	0.63
1:AA:729:G:OP1	4:AD:13:ARG:NH1	2.30	0.63
1:AA:772:C:C2	1:AA:773:U:C5	2.87	0.63
1:AA:811:U:C4	11:AM:23:PRO:HD3	2.34	0.63
2:AB:14:U:OP2	2:AB:70:C:O2'	2.16	0.63
3:AC:26:ALA:O	3:AC:30:LYS:HG3	1.98	0.63
4:AD:135:PHE:O	4:AD:137:PRO:HD3	1.98	0.63
4:AD:157:ARG:O	4:AD:158:ALA:O	2.17	0.63
4:AD:10:THR:N	4:AD:23:GLU:OE2	2.27	0.63
4:AD:61:LEU:HD22	4:AD:63:ARG:HH21	1.59	0.63
5:AE:102:VAL:CA	5:AE:200:GLU:OE1	2.47	0.63
5:AE:33:VAL:HG21	5:AE:77:ILE:HD11	1.79	0.63
6:AF:64:ILE:HG23	6:AF:78:ILE:HB	1.80	0.63
7:AG:107:LEU:CD2	7:AG:173:LEU:HD21	2.29	0.63
7:AG:47:LYS:HD3	7:AG:72:ARG:O	1.99	0.63
7:AG:68:PRO:HG3	7:AG:90:LEU:CD2	2.29	0.63
7:AG:90:LEU:O	7:AG:90:LEU:HD13	1.99	0.63
32:AJ:104:VAL:CG1	32:AJ:127:ILE:HD13	0.32	0.63
9:AK:7:LYS:HD3	9:AK:39:ARG:NH1	2.13	0.63
9:AK:93:THR:O	9:AK:94:HIS:HD2	1.81	0.63
1:AA:1665:A:O2'	10:AL:1:MET:HG3	1.98	0.63
1:AA:872:A:O2'	12:AN:66:ILE:CG1	2.46	0.63
15:AQ:53:ARG:HH22	15:AQ:102:ILE:N	1.95	0.63
17:AS:28:GLU:O	17:AS:30:GLY:N	2.32	0.63
17:AS:35:LEU:HG	17:AS:36:PRO:CD	2.29	0.63
18:AT:20:VAL:HG13	18:AT:21:VAL:H	1.63	0.63
22:AX:31:VAL:CG1	22:AX:67:VAL:HG22	2.28	0.63
34:BA:1058:G:O2'	34:BA:1059:C:H5'	1.98	0.63
34:BA:1219:U:H2'	52:BW:52:TYR:HE2	1.64	0.63
34:BA:124:G:H2'	34:BA:125:U:H6	1.61	0.63
34:BA:1278:U:OP1	34:BA:1279:A:H4'	1.99	0.63
34:BA:1298:C:O2	34:BA:1298:C:H2'	1.97	0.63
34:BA:815:A:N1	34:BA:1529:G:C2	2.67	0.63
34:BA:224:C:C2	34:BA:225:C:C5	2.87	0.63
34:BA:36:C:N3	34:BA:37:U:O2	2.32	0.63
34:BA:50:A:O2'	34:BA:360:A:H2	1.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:518:C:C5	34:BA:530:G:C5	2.85	0.63
34:BA:553:A:H2'	34:BA:554:C:O4'	1.99	0.63
34:BA:580:U:H3'	34:BA:581:G:C8	2.34	0.63
34:BA:607:A:O2'	34:BA:608:A:H5'	1.99	0.63
34:BA:689:C:C2	34:BA:690:G:C8	2.86	0.63
34:BA:750:G:N3	48:BS:23:GLY:O	2.32	0.63
34:BA:820:U:O2'	34:BA:821:G:OP2	2.14	0.63
34:BA:830:G:C6	34:BA:831:U:C4	2.87	0.63
34:BA:843:U:H3'	34:BA:848:C:C5'	2.29	0.63
34:BA:848:C:O2'	34:BA:849:C:H5'	1.99	0.63
34:BA:983:A:N3	34:BA:983:A:C3'	2.60	0.63
34:BA:992:U:H4'	34:BA:993:G:O5'	1.98	0.63
35:BF:130:ARG:HD3	35:BF:131:PRO:CD	2.27	0.63
35:BF:158:LEU:HB2	35:BF:160:ASP:OD2	1.99	0.63
35:BF:53:ARG:HH12	35:BF:200:ILE:CD1	2.12	0.63
35:BF:70:PHE:O	35:BF:92:TYR:HB2	1.98	0.63
36:BG:64:VAL:O	36:BG:99:VAL:HG11	1.99	0.63
37:BH:141:ARG:HD3	37:BH:142:PRO:CD	2.23	0.63
39:BJ:23:LYS:CA	39:BJ:26:ILE:HD12	2.26	0.63
40:BK:29:LYS:CD	40:BK:101:LEU:HD22	2.28	0.63
41:BL:64:LYS:O	41:BL:79:VAL:HB	1.98	0.63
43:BN:39:PRO:HA	43:BN:70:ARG:HH11	1.63	0.63
45:BP:110:VAL:CG2	45:BP:113:ARG:HG3	2.29	0.63
47:BR:48:ALA:CA	47:BR:53:LEU:HD12	2.29	0.63
48:BS:42:HIS:ND1	48:BS:42:HIS:C	2.52	0.63
57:BZ:114:LYS:HA	57:BZ:117:PHE:CD2	2.34	0.63
57:BZ:89:MET:HG2	57:BZ:119:TYR:CZ	2.33	0.63
57:BZ:180:ALA:HB3	57:BZ:181:GLU:CA	2.28	0.63
57:BZ:27:GLN:CG	57:BZ:28:GLN:HE21	2.04	0.63
57:BZ:325:PHE:HD2	57:BZ:330:GLN:CD	2.02	0.63
57:BZ:3:GLU:O	57:BZ:4:LYS:HE2	1.98	0.63
1:AA:363(A):A:H2'	1:AA:363(B):G:O5'	1.98	0.63
1:AA:363(D):G:N1	1:AA:363(E):U:C2	2.67	0.63
1:AA:80:G:H1'	1:AA:347:A:H61	1.64	0.63
1:AA:1083:U:H1'	1:AA:1085:A:N6	2.12	0.62
1:AA:1214:A:H62	1:AA:1236:G:N2	1.96	0.62
1:AA:1273:U:H5''	1:AA:1646:C:N4	2.13	0.62
1:AA:1372:U:O5'	1:AA:1372:U:H6	1.82	0.62
1:AA:137:C:O2'	1:AA:137(A):G:H5'	1.97	0.62
1:AA:1773:A:H2'	1:AA:1774:C:O4'	1.99	0.62
1:AA:1799:G:H5''	4:AD:264:LYS:NZ	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1992:G:H22	1:AA:1995:U:H5	1.47	0.62
1:AA:201:C:H2'	1:AA:202:U:C5'	2.28	0.62
1:AA:2033:A:O2'	1:AA:2034:U:OP1	2.16	0.62
1:AA:2098:U:H2'	1:AA:2099:U:C6	2.34	0.62
1:AA:2261:C:O2'	1:AA:2262:U:H5'	1.99	0.62
1:AA:919:G:N2	1:AA:2268:A:H5''	2.14	0.62
1:AA:2282:G:H5''	1:AA:2283:C:O5'	1.98	0.62
1:AA:2329:G:O5'	1:AA:2329:G:H8	1.82	0.62
1:AA:2648:C:H3'	1:AA:2649:U:C6	2.33	0.62
1:AA:2674:G:C4	1:AA:2675:A:C8	2.87	0.62
1:AA:303:U:O2'	1:AA:304:G:H5'	1.98	0.62
1:AA:304:G:H2'	1:AA:305:U:C6	2.34	0.62
1:AA:27:G:C2	1:AA:512:G:O2'	2.50	0.62
1:AA:535:C:C2'	1:AA:536:A:H5'	2.29	0.62
1:AA:684:G:C6	1:AA:775:G:N7	2.66	0.62
4:AD:118:VAL:O	4:AD:129:ASN:CA	2.47	0.62
4:AD:129:ASN:O	4:AD:193:VAL:CG2	2.47	0.62
5:AE:116:VAL:HG21	5:AE:138:PRO:CA	2.11	0.62
5:AE:196:VAL:CG1	5:AE:197:ILE:H	2.12	0.62
5:AE:58:ARG:NH2	5:AE:73:GLU:OE2	2.32	0.62
6:AF:95:ARG:NE	6:AF:96:ASP:H	1.97	0.62
7:AG:118:ARG:HB3	7:AG:118:ARG:CZ	2.29	0.62
8:AH:169:VAL:O	8:AH:169:VAL:HG23	1.97	0.62
8:AH:89:ILE:O	8:AH:129:THR:O	2.16	0.62
32:AJ:27:LEU:HD21	32:AJ:57:ILE:CB	2.29	0.62
9:AK:110:GLY:O	9:AK:114:ARG:CB	2.44	0.62
10:AL:11:ALA:HB3	10:AL:97:ARG:NH1	2.13	0.62
11:AM:111:ARG:HH22	11:AM:113:LYS:HB2	1.63	0.62
11:AM:88:LEU:HG	11:AM:124:LYS:HE3	1.81	0.62
1:AA:672:C:OP2	11:AM:38:GLN:CG	2.47	0.62
11:AM:49:ARG:HA	11:AM:52:GLU:HG2	1.80	0.62
13:AO:28:LEU:O	13:AO:29:LEU:C	2.37	0.62
13:AO:53:HIS:HA	13:AO:56:LYS:HD3	1.80	0.62
14:AP:10:ARG:NH1	14:AP:89:ARG:HH12	1.97	0.62
14:AP:94:TYR:C	14:AP:99:LYS:HB2	2.18	0.62
15:AQ:35:LYS:O	15:AQ:36:GLU:O	2.17	0.62
16:AR:99:ALA:HB2	16:AR:106:PHE:CE1	2.34	0.62
17:AS:40:LEU:HG	17:AS:55:ALA:CA	2.29	0.62
17:AS:45:THR:O	17:AS:46:VAL:HB	1.98	0.62
17:AS:76:LYS:HE3	17:AS:86:GLY:N	2.13	0.62
19:AU:5:TYR:CB	23:AY:24:LYS:HD3	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:40:GLU:C	20:AV:62:GLU:OE2	2.37	0.62
20:AV:44:ILE:O	20:AV:46:LYS:N	2.32	0.62
20:AV:76:CYS:CB	20:AV:100:ALA:HB3	2.28	0.62
21:AW:24:LEU:HD13	21:AW:83:PRO:CG	2.29	0.62
34:BA:1039:C:N4	34:BA:1040:U:O4	2.31	0.62
34:BA:1156:G:O5'	34:BA:1156:G:H8	1.82	0.62
34:BA:1227:A:H4'	46:BQ:115:LYS:HZ1	1.63	0.62
34:BA:1126:U:O4'	34:BA:1280:A:N7	2.32	0.62
34:BA:1454:G:OP2	53:BX:39:LYS:CE	2.46	0.62
34:BA:237:C:H5''	50:BU:25:ARG:NH1	2.14	0.62
34:BA:308:C:C2	34:BA:309:G:C8	2.86	0.62
34:BA:439:A:H3'	34:BA:440:A:H8	1.64	0.62
34:BA:730:G:H2'	34:BA:731:G:H5'	1.81	0.62
34:BA:755:G:H2'	34:BA:756:C:C5	2.34	0.62
34:BA:781:A:N6	34:BA:802:A:N3	2.47	0.62
34:BA:828:A:O4'	34:BA:859:A:H2	1.82	0.62
35:BF:175:ARG:HA	35:BF:178:ARG:HG3	1.81	0.62
36:BG:17:ASP:HB3	36:BG:18:TRP:CE3	2.32	0.62
37:BH:8:VAL:CG1	37:BH:11:LEU:HD12	2.29	0.62
37:BH:146:ILE:HD12	37:BH:146:ILE:O	1.99	0.62
37:BH:94:LEU:O	37:BH:97:LEU:HB2	1.99	0.62
37:BH:57:ARG:NH2	38:BI:107:ARG:HD3	2.14	0.62
40:BK:42:ILE:CG2	40:BK:120:ILE:HD11	2.29	0.62
34:BA:826:C:C5'	41:BL:12:ARG:HH21	2.12	0.62
42:BM:109:VAL:O	42:BM:109:VAL:HG12	1.98	0.62
42:BM:110:GLU:O	42:BM:111:ARG:HB2	1.98	0.62
42:BM:113:LYS:NZ	42:BM:119:ALA:HB1	2.13	0.62
42:BM:9:ARG:HD2	42:BM:14:VAL:HG13	1.80	0.62
43:BN:12:ASP:O	43:BN:15:THR:HG22	1.99	0.62
43:BN:79:ARG:CZ	43:BN:82:ILE:HB	2.28	0.62
43:BN:23:ILE:CG2	43:BN:85:LEU:HD23	2.21	0.62
44:BO:92:GLU:O	44:BO:94:ALA:N	2.32	0.62
49:BT:27:LYS:NZ	49:BT:27:LYS:H	1.96	0.62
49:BT:53:VAL:HG23	49:BT:54:GLU:N	2.14	0.62
49:BT:8:ARG:HD3	49:BT:15:PRO:CA	2.29	0.62
50:BU:21:VAL:CG2	50:BU:43:LEU:HA	2.29	0.62
50:BU:75:ARG:CZ	50:BU:77:VAL:HG22	2.29	0.62
57:BZ:244:GLY:CA	57:BZ:245:LYS:HG2	2.21	0.62
57:BZ:325:PHE:CD2	57:BZ:330:GLN:HG2	2.34	0.62
57:BZ:601:ASN:N	57:BZ:602:ARG:HB2	2.14	0.62
34:BA:727:G:C8	34:BA:727:G:C3'	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:99:VAL:HG12	57:BZ:100:ASP:N	2.14	0.62
34:BA:1021:G:H2'	34:BA:1022:G:O4'	1.99	0.62
1:AA:1020:A:H5''	1:AA:1021:A:OP1	1.99	0.62
1:AA:1081:U:O4	1:AA:1086:A:H2	1.73	0.62
1:AA:10:G:C2	1:AA:2629:A:C2	2.86	0.62
1:AA:1249:U:N3	11:AM:21:ARG:NH1	2.48	0.62
1:AA:1315:C:O2	1:AA:1392:A:H2	1.81	0.62
1:AA:1449:A:C8	1:AA:1529:A:N1	2.67	0.62
1:AA:1785:A:OP1	1:AA:1981:A:H3'	1.97	0.62
1:AA:1787:A:H2'	1:AA:1788:C:O4'	1.98	0.62
1:AA:197:A:N1	1:AA:198:C:H1'	2.12	0.62
1:AA:2332:U:O2'	1:AA:2336:A:N7	2.31	0.62
1:AA:2373:G:C2	1:AA:2374:C:C4	2.87	0.62
1:AA:2453:A:O2'	1:AA:2454:G:C5'	2.42	0.62
1:AA:2044:C:C6	1:AA:2625:G:N2	2.67	0.62
1:AA:2625:G:H2'	1:AA:2626:C:C6	2.33	0.62
1:AA:2690:C:H2'	1:AA:2691:C:OP2	1.98	0.62
1:AA:270(E):G:H2'	1:AA:270(F):U:C6	2.34	0.62
1:AA:2793:G:C2	1:AA:2794:C:C2	2.87	0.62
1:AA:292:C:C6	1:AA:293:U:C4	2.86	0.62
1:AA:728:G:C5	1:AA:762:U:H2'	2.33	0.62
1:AA:893:C:N1	1:AA:894:C:C5	2.67	0.62
1:AA:905:U:H2'	1:AA:906:G:O4'	1.99	0.62
1:AA:987:G:OP2	24:AZ:13:ILE:CD1	2.47	0.62
2:AB:30:C:H2'	2:AB:31:C:C5'	2.28	0.62
2:AB:32:C:C2	2:AB:33:G:N7	2.67	0.62
2:AB:62:C:C2	2:AB:63:G:C8	2.87	0.62
4:AD:137:PRO:HG2	4:AD:140:THR:OG1	1.98	0.62
1:AA:1819:A:OP2	4:AD:157:ARG:CZ	2.47	0.62
4:AD:9:TYR:OH	4:AD:198:ASN:ND2	2.32	0.62
4:AD:5:LYS:HA	4:AD:28:GLU:HB2	1.80	0.62
4:AD:50:THR:C	4:AD:51:VAL:HG22	2.19	0.62
5:AE:41:LYS:C	5:AE:43:GLY:N	2.52	0.62
7:AG:59:GLU:CD	7:AG:152:LEU:HD13	2.20	0.62
7:AG:60:LEU:HD21	7:AG:90:LEU:CD1	2.24	0.62
8:AH:127:GLU:CB	8:AH:130:ARG:H	2.12	0.62
9:AK:29:LYS:O	9:AK:30:ILE:C	2.36	0.62
9:AK:4:TYR:O	16:AR:64:ARG:NH2	2.29	0.62
12:AN:6:ARG:HG2	12:AN:7:MET:H	1.64	0.62
12:AN:6:ARG:CG	12:AN:7:MET:N	2.62	0.62
13:AO:86:ARG:NH1	13:AO:86:ARG:CB	2.55	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:52:SER:HB3	14:AP:73:LEU:HD11	1.81	0.62
15:AQ:104:ASN:CA	15:AQ:107:ASP:OD2	2.47	0.62
15:AQ:63:VAL:O	15:AQ:64:ARG:NH1	2.32	0.62
18:AT:91:GLY:O	18:AT:92:ARG:O	2.17	0.62
19:AU:50:LYS:HG3	19:AU:85:PRO:HD3	1.81	0.62
21:AW:1:MET:SD	21:AW:59:LEU:O	2.57	0.62
2:AB:12:C:H5''	22:AX:74:ARG:CG	2.27	0.62
23:AY:50:ARG:O	23:AY:54:ARG:HG3	1.98	0.62
34:BA:1230:C:H5'	56:BE:30:G:P	2.39	0.62
34:BA:1252:A:C5	34:BA:1253:G:N7	2.67	0.62
34:BA:1344:C:H5'	42:BM:120:ARG:O	1.98	0.62
34:BA:184:G:C4'	34:BA:224:C:H4'	2.28	0.62
34:BA:185:A:H2'	34:BA:186:C:H6	1.61	0.62
34:BA:265:G:C2'	34:BA:266:G:H5'	2.29	0.62
34:BA:301:G:N2	34:BA:302:G:C1'	2.61	0.62
34:BA:323:U:H3'	34:BA:323:U:H6	1.65	0.62
34:BA:52:G:O2'	34:BA:53:A:H5'	1.99	0.62
34:BA:645:C:H2'	34:BA:646:U:C6	2.34	0.62
34:BA:811:C:H3'	34:BA:811:C:H6	1.63	0.62
34:BA:937:A:N7	34:BA:938:A:N7	2.48	0.62
34:BA:947:G:N2	34:BA:948:C:C2	2.67	0.62
35:BF:96:ARG:H	35:BF:96:ARG:HD2	1.64	0.62
36:BG:10:PHE:HB3	36:BG:11:ARG:HE	1.64	0.62
36:BG:24:ALA:HB1	36:BG:28:GLN:CD	2.19	0.62
37:BH:19:LEU:N	37:BH:33:MET:HE1	2.04	0.62
38:BI:96:PRO:HD2	38:BI:98:THR:OG1	1.99	0.62
40:BK:74:GLU:CG	40:BK:75:VAL:N	2.61	0.62
42:BM:19:LEU:CD2	42:BM:20:ARG:N	2.62	0.62
43:BN:8:LEU:HD13	43:BN:94:VAL:CG1	2.22	0.62
44:BO:126:ARG:C	44:BO:128:ALA:H	2.02	0.62
49:BT:20:VAL:CG1	49:BT:32:TYR:HB2	2.30	0.62
50:BU:35:VAL:HG12	50:BU:36:ILE:N	2.13	0.62
50:BU:66:SER:CB	50:BU:69:LYS:NZ	2.62	0.62
50:BU:9:VAL:HB	50:BU:84:LEU:HD13	1.81	0.62
53:BX:48:LYS:HB3	53:BX:51:GLU:HG3	1.81	0.62
53:BX:64:ASP:O	53:BX:67:ALA:CB	2.47	0.62
57:BZ:205:PHE:HA	57:BZ:229:GLY:HA3	1.80	0.62
57:BZ:243:GLU:CG	57:BZ:244:GLY:H	2.08	0.62
57:BZ:253:LYS:HG2	57:BZ:271:GLY:HA2	1.80	0.62
57:BZ:18:LYS:HG2	57:BZ:76:PRO:HG3	1.80	0.62
57:BZ:87:ARG:HH21	57:BZ:87:ARG:HB3	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:4:C:C6	56:BD:70:G:N1	2.67	0.62
56:BD:5:G:N2	56:BD:69:G:C8	2.67	0.62
43:BN:3:LYS:HE3	43:BN:77:PRO:CD	2.29	0.62
23:AY:65:GLN:CA	23:AY:65:GLN:HE21	2.11	0.62
57:BZ:232:LYS:O	57:BZ:232:LYS:HD2	1.99	0.62
1:AA:141:A:C2	1:AA:1597:A:H5'	2.34	0.62
1:AA:1498:C:O2	1:AA:1499:C:C5	2.52	0.62
1:AA:1546:C:H4'	1:AA:1547:C:C5	2.33	0.62
1:AA:1697:G:C4'	1:AA:1698:A:H5'	2.29	0.62
1:AA:182:A:C2	1:AA:183:C:C2	2.87	0.62
1:AA:1916:A:C2	34:BA:1409:C:H5'	2.33	0.62
1:AA:2273:A:N7	1:AA:2274:A:N9	2.46	0.62
1:AA:2077:A:C4	1:AA:2435:A:C8	2.87	0.62
1:AA:220:G:N2	1:AA:265:A:N6	2.47	0.62
1:AA:2658:C:C4	1:AA:2664:G:N2	2.67	0.62
1:AA:270(C):C:OP1	1:AA:365:C:H1'	1.99	0.62
1:AA:2720:U:H2'	1:AA:2721:A:H8	1.64	0.62
1:AA:2794:C:C2	1:AA:2799:A:C2	2.86	0.62
1:AA:2807:G:N3	1:AA:2808:U:C6	2.66	0.62
1:AA:2:G:N9	1:AA:2902:C:O2	2.31	0.62
1:AA:811:U:O2'	1:AA:1251:C:C1'	2.41	0.62
1:AA:877:U:O5'	1:AA:877:U:H6	1.82	0.62
1:AA:917:A:H3'	1:AA:918:A:C5'	2.29	0.62
1:AA:942:G:H5'	11:AM:32:THR:CG2	2.29	0.62
2:AB:32:C:H2'	2:AB:32:C:O2	1.99	0.62
3:AC:200:LYS:HG2	3:AC:200:LYS:O	1.99	0.62
3:AC:64:LEU:CD1	3:AC:188:ASN:ND2	2.42	0.62
3:AC:75:LEU:HD11	3:AC:99:ILE:CG2	2.26	0.62
3:AC:7:TYR:OH	3:AC:11:LEU:HD13	2.00	0.62
3:AC:90:GLY:HA3	3:AC:157:LYS:CB	2.29	0.62
5:AE:33:VAL:HG21	5:AE:77:ILE:HD12	1.79	0.62
7:AG:134:GLY:O	7:AG:155:MET:O	2.17	0.62
7:AG:55:LYS:NZ	7:AG:152:LEU:HD11	2.14	0.62
7:AG:74:LYS:HE2	7:AG:75:LYS:HE3	1.80	0.62
8:AH:127:GLU:CG	8:AH:130:ARG:HB2	2.29	0.62
8:AH:44:VAL:O	8:AH:50:VAL:HA	2.00	0.62
32:AJ:103:GLN:HA	32:AJ:106:GLU:HG3	1.80	0.62
9:AK:12:ARG:HD2	9:AK:50:ASP:HA	1.81	0.62
1:AA:2641:G:H5'	9:AK:75:TYR:CG	2.35	0.62
10:AL:96:THR:HA	10:AL:117:LEU:CD1	2.17	0.62
11:AM:113:LYS:CA	11:AM:129:ALA:HB1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:34:LEU:CD1	12:AN:105:GLU:HB2	2.27	0.62
12:AN:116:GLU:HA	12:AN:119:ARG:HG3	1.81	0.62
12:AN:66:ILE:C	12:AN:67:ARG:HG2	2.18	0.62
12:AN:6:ARG:HD3	12:AN:6:ARG:C	2.19	0.62
12:AN:75:THR:CG2	12:AN:89:ASN:O	2.47	0.62
13:AO:8:ARG:NH2	13:AO:17:ARG:HD2	2.14	0.62
14:AP:13:ARG:CD	14:AP:90:GLY:O	2.46	0.62
14:AP:3:ARG:HG3	14:AP:3:ARG:HH11	1.64	0.62
14:AP:49:VAL:HB	14:AP:80:LEU:CD1	2.30	0.62
14:AP:57:LYS:NZ	14:AP:65:VAL:HA	2.13	0.62
20:AV:31:LEU:O	20:AV:33:LYS:N	2.33	0.62
20:AV:83:THR:HG22	20:AV:84:ARG:N	2.13	0.62
20:AV:96:ILE:HD12	20:AV:96:ILE:N	2.14	0.62
20:AV:97:ARG:HB3	20:AV:101:LYS:HE2	1.80	0.62
22:AX:21:LEU:O	22:AX:24:LYS:HE3	1.98	0.62
22:AX:68:GLU:HB3	22:AX:80:HIS:C	2.20	0.62
23:AY:20:VAL:HG22	23:AY:24:LYS:HE3	1.81	0.62
23:AY:46:ARG:HE	23:AY:50:ARG:NH2	1.96	0.62
24:AZ:26:LEU:CD2	24:AZ:28:LEU:HD11	2.25	0.62
34:BA:1112:C:H1'	36:BG:179:ARG:NH1	2.14	0.62
34:BA:1330:U:C5'	46:BQ:70:LEU:HD23	2.23	0.62
34:BA:1357:A:H8	34:BA:1357:A:O5'	1.83	0.62
34:BA:1425:U:O2'	34:BA:1426:C:H5'	1.97	0.62
34:BA:47:C:C4'	34:BA:48:C:H5''	2.17	0.62
34:BA:493:G:H2'	34:BA:494:U:H5	1.63	0.62
34:BA:518:C:H3'	34:BA:530:G:N2	2.13	0.62
34:BA:519:C:C5'	45:BP:51:ALA:HB2	2.29	0.62
34:BA:579:G:C2'	34:BA:580:U:H5'	2.29	0.62
34:BA:56:U:H2'	34:BA:57:G:H8	1.64	0.62
34:BA:720:C:H2'	34:BA:721:G:C8	2.34	0.62
34:BA:922:G:O2'	34:BA:923:A:H5'	1.99	0.62
34:BA:1339:A:H5'	56:BE:41:C:H4'	1.79	0.62
35:BF:118:LEU:HD22	35:BF:142:LEU:CD1	2.29	0.62
35:BF:208:ILE:HA	35:BF:211:ILE:CB	2.27	0.62
35:BF:58:ILE:O	35:BF:61:LEU:HD22	1.98	0.62
36:BG:146:ALA:C	36:BG:147:LYS:HD2	2.19	0.62
37:BH:128:VAL:CG2	37:BH:133:VAL:HB	2.29	0.62
38:BI:86:ALA:O	38:BI:125:SER:CB	2.47	0.62
38:BI:141:GLN:O	38:BI:142:LEU:HG	2.00	0.62
40:BK:113:GLU:CB	40:BK:118:VAL:HG11	2.29	0.62
40:BK:50:ILE:HD13	40:BK:58:PRO:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:62:GLN:O	44:BO:65:ALA:HB3	1.98	0.62
44:BO:67:ASP:N	44:BO:70:LYS:HZ2	1.96	0.62
44:BO:73:MET:CE	44:BO:103:LEU:HD22	2.29	0.62
45:BP:38:THR:HG22	45:BP:58:VAL:HA	1.82	0.62
45:BP:85:ILE:HD11	45:BP:98:TYR:C	2.19	0.62
47:BR:24:CYS:CB	47:BR:40:CYS:N	2.60	0.62
34:BA:273:A:H1'	50:BU:16:GLN:OE1	2.00	0.62
52:BW:51:VAL:CG2	52:BW:60:VAL:HG21	2.30	0.62
54:BY:2:GLY:N	54:BY:5:ASP:HB2	2.14	0.62
57:BZ:127:ILE:H	57:BZ:163:VAL:C	2.02	0.62
57:BZ:239:ILE:HG12	57:BZ:244:GLY:HA3	1.79	0.62
57:BZ:483:ARG:NH1	57:BZ:576:GLU:OE1	2.32	0.62
57:BZ:6:ARG:NH1	57:BZ:196:ALA:HB2	2.13	0.62
56:BD:27:G:H2'	56:BD:28:G:C8	2.34	0.62
34:BA:490:G:H2'	34:BA:491:G:C8	2.34	0.62
1:AA:996:A:C6	1:AA:1160:G:N1	2.67	0.62
1:AA:1572:A:O4'	1:AA:1572:A:OP1	2.16	0.62
1:AA:1742:C:C2	1:AA:1743:G:O4'	2.53	0.62
1:AA:2127:G:H3'	3:AC:36:LYS:HG2	1.78	0.62
1:AA:2207:C:C2	1:AA:2208:U:O4'	2.52	0.62
1:AA:2445:G:H2'	1:AA:2446:G:N7	2.13	0.62
1:AA:243:U:H2'	1:AA:244:A:H5'	1.81	0.62
1:AA:244:A:O3'	11:AM:65:ARG:NH2	2.32	0.62
1:AA:2574:G:H2'	1:AA:2575:C:O4'	1.99	0.62
1:AA:2583:G:N3	1:AA:2584:U:O2	2.32	0.62
1:AA:2603:G:O2'	1:AA:2604:U:H5'	2.00	0.62
1:AA:2629:A:H5'	1:AA:2895:U:C2	2.34	0.62
1:AA:2644:G:N1	1:AA:2645:G:N2	2.47	0.62
1:AA:531:C:C6	1:AA:532:A:C2	2.88	0.62
1:AA:572:A:C5	1:AA:573:G:C2	2.87	0.62
1:AA:574:C:H4'	1:AA:575:A:O5'	1.98	0.62
1:AA:639:U:O4	1:AA:648:G:O6	2.17	0.62
1:AA:64:A:O5'	1:AA:64:A:H8	1.82	0.62
1:AA:656:G:H2'	1:AA:657:U:H6	1.64	0.62
1:AA:815:C:O2'	1:AA:816:C:H5''	1.99	0.62
1:AA:878:A:H2'	1:AA:879:G:H8	1.64	0.62
2:AB:6:C:H4'	2:AB:28:C:H5'	1.81	0.62
3:AC:100:ILE:O	3:AC:104:LEU:HD23	1.99	0.62
4:AD:177:LEU:O	4:AD:178:PRO:C	2.38	0.62
1:AA:2466:C:OP1	6:AF:5:ALA:HB3	122.20	0.62
6:AF:82:ILE:CD1	6:AF:82:ILE:H	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:28:GLY:N	8:AH:79:VAL:HB	2.14	0.62
32:AJ:12:LEU:CD2	32:AJ:57:ILE:CG2	2.76	0.62
32:AJ:10:LEU:N	32:AJ:56:GLU:CG	2.62	0.62
9:AK:33:LEU:HD22	9:AK:33:LEU:C	2.19	0.62
9:AK:4:TYR:CB	16:AR:64:ARG:NH1	2.60	0.62
11:AM:90:ARG:HA	11:AM:125:VAL:HG13	1.81	0.62
11:AM:23:PRO:CG	11:AM:29:LYS:N	2.63	0.62
11:AM:46:LYS:HB2	11:AM:49:ARG:CB	2.20	0.62
11:AM:64:LYS:C	11:AM:64:LYS:HD2	2.19	0.62
12:AN:9:TYR:HD1	12:AN:10:ARG:HD3	1.63	0.62
13:AO:36:THR:HB	13:AO:40:LYS:HD2	1.80	0.62
13:AO:51:LEU:HG	13:AO:66:VAL:HG11	1.82	0.62
14:AP:49:VAL:HG13	14:AP:76:LYS:NZ	2.13	0.62
15:AQ:111:ARG:HG3	34:BA:1432:G:OP1	1.99	0.62
15:AQ:28:VAL:HG12	15:AQ:29:ARG:O	1.98	0.62
15:AQ:68:TYR:CD2	15:AQ:70:VAL:HG22	2.34	0.62
1:AA:18:C:OP1	16:AR:26:GLY:CA	2.46	0.62
17:AS:67:GLY:N	17:AS:94:LEU:HA	2.15	0.62
18:AT:33:ARG:HD3	18:AT:37:ARG:CD	2.30	0.62
18:AT:43:GLY:O	18:AT:47:VAL:HG23	1.99	0.62
20:AV:1:MET:HG2	20:AV:33:LYS:HD2	1.81	0.62
1:AA:336:C:H4'	20:AV:67:LEU:HD23	1.81	0.62
24:AZ:6:VAL:HB	24:AZ:54:VAL:HG21	1.80	0.62
34:BA:1084:G:C4	34:BA:1085:U:C5	2.80	0.62
34:BA:1114:C:C2	34:BA:1115:C:C5	2.88	0.62
34:BA:116:A:O5'	34:BA:116:A:H8	1.83	0.62
34:BA:1296:C:C1'	34:BA:1302:U:O4	2.47	0.62
34:BA:1312:G:N3	34:BA:1326:C:C2	2.66	0.62
34:BA:649:G:H2'	34:BA:650:G:H8	1.63	0.62
34:BA:866:C:C6	34:BA:867:G:H1'	2.35	0.62
34:BA:86:U:H2'	34:BA:87:A:H5'	1.82	0.62
35:BF:9:GLU:HG2	35:BF:10:LEU:N	2.15	0.62
35:BF:132:LYS:HZ2	35:BF:132:LYS:HB3	1.64	0.62
35:BF:140:HIS:O	35:BF:143:GLU:HB3	2.00	0.62
35:BF:92:TYR:H	35:BF:152:PHE:HA	1.65	0.62
35:BF:196:LEU:HA	41:BL:74:PRO:HG3	1.82	0.62
35:BF:208:ILE:HA	35:BF:211:ILE:CG1	2.29	0.62
34:BA:1100:C:C2'	35:BF:98:LEU:HD11	2.28	0.62
36:BG:180:ALA:HB1	36:BG:182:ILE:HD11	1.81	0.62
36:BG:63:ASN:O	36:BG:99:VAL:HG12	1.99	0.62
40:BK:142:GLU:O	40:BK:145:ALA:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:112:LEU:HB2	41:BL:132:GLU:O	1.99	0.62
41:BL:20:TYR:HE1	41:BL:78:GLN:HE22	1.46	0.62
43:BN:60:ARG:CZ	43:BN:60:ARG:HB2	2.29	0.62
43:BN:7:LYS:HG3	43:BN:71:LEU:HD13	1.80	0.62
44:BO:69:ALA:HB1	44:BO:103:LEU:CD1	2.28	0.62
45:BP:28:LYS:HZ1	45:BP:33:ARG:NH2	1.89	0.62
34:BA:1202:G:H1'	47:BR:29:ARG:HE	1.63	0.62
1:AA:716:A:H2	48:BS:44:LYS:HG3	1.48	0.62
48:BS:63:ARG:HH12	48:BS:87:ILE:CD1	2.11	0.62
49:BT:22:THR:HA	49:BT:33:ILE:HG13	1.81	0.62
52:BW:11:VAL:HB	52:BW:16:LEU:N	2.13	0.62
53:BX:85:MET:HA	53:BX:88:VAL:CG2	2.28	0.62
34:BA:1016:A:O5'	34:BA:1016:A:H8	1.82	0.62
7:AG:51:ARG:HH21	7:AG:51:ARG:N	1.96	0.62
1:AA:1023:U:OP1	1:AA:1025:G:N2	2.33	0.62
1:AA:1034:G:C2	1:AA:1122:G:C5	2.88	0.62
1:AA:1189:A:H5''	1:AA:1190:G:OP2	2.00	0.62
1:AA:1213:A:H1'	1:AA:1238:G:H1'	1.80	0.62
1:AA:1229:G:H2'	1:AA:1230:C:O4'	2.00	0.62
1:AA:1602:U:H2'	1:AA:1603:A:C5'	2.29	0.62
1:AA:1299:G:N1	1:AA:1639:U:H3'	2.13	0.62
1:AA:1657:C:C2	1:AA:1658:C:C6	2.87	0.62
1:AA:1672:C:C5	1:AA:1673:U:H6	2.17	0.62
1:AA:1798:U:H5'	1:AA:1803:A:H4'	1.82	0.62
1:AA:1838:C:H2'	1:AA:1898:U:O4	1.99	0.62
1:AA:1848:A:H2'	1:AA:1849:G:O4'	1.99	0.62
1:AA:1901:A:O2'	4:AD:244:ARG:CZ	2.47	0.62
1:AA:1931:U:C2'	1:AA:1932:A:O5'	2.48	0.62
1:AA:2123:G:N2	3:AC:216:THR:H	1.96	0.62
1:AA:2132:U:C3'	1:AA:2133:G:H5'	2.27	0.62
1:AA:2378:A:H5''	1:AA:2379:G:OP2	1.99	0.62
1:AA:2469:A:H61	1:AA:2481:G:H1'	1.62	0.62
1:AA:2482:G:H2'	1:AA:2483:C:H5'	1.81	0.62
1:AA:1953:A:N6	1:AA:2549:G:O2'	2.32	0.62
1:AA:2626:C:H2'	1:AA:2627:G:C8	2.33	0.62
1:AA:2637:U:C6	1:AA:2637:U:OP2	2.52	0.62
1:AA:2659:G:H8	1:AA:2659:G:O5'	1.81	0.62
1:AA:2746:U:C4	1:AA:2756:U:C4	2.88	0.62
1:AA:2784:C:H4'	5:AE:40:GLU:OE2	1.98	0.62
1:AA:2880:C:C2	1:AA:2881:C:C5	2.87	0.62
1:AA:290:G:H3'	1:AA:290:G:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:651:G:H2'	1:AA:652:C:O4'	1.98	0.62
1:AA:723:G:O2'	1:AA:724:U:C5'	2.47	0.62
1:AA:744:G:N2	1:AA:754:C:C2	2.67	0.62
1:AA:806:C:H6	1:AA:806:C:O5'	1.81	0.62
1:AA:828:U:C6	1:AA:829:A:N7	2.68	0.62
2:AB:30:C:C1'	2:AB:58:A:C2	2.82	0.62
2:AB:77:U:H6	2:AB:77:U:H3'	1.64	0.62
3:AC:161:ILE:CG2	3:AC:174:PRO:HG2	2.29	0.62
1:AA:2176:A:O3'	3:AC:222:VAL:HA	2.00	0.62
3:AC:63:SER:H	3:AC:191:ALA:HB1	1.59	0.62
1:AA:1798:U:H5'	4:AD:257:LEU:CB	2.30	0.62
5:AE:13:ARG:HD2	5:AE:20:ALA:O	2.00	0.62
6:AF:65:TRP:HB3	6:AF:75:HIS:O	1.99	0.62
7:AG:120:LEU:CD2	7:AG:181:ARG:HG2	2.29	0.62
8:AH:139:GLN:HG3	8:AH:140:LYS:N	2.07	0.62
8:AH:83:TYR:HB2	8:AH:136:ILE:O	2.00	0.62
32:AJ:51:ALA:CB	32:AJ:72:PRO:CB	2.76	0.62
9:AK:25:ARG:HA	9:AK:28:THR:HG23	1.80	0.62
9:AK:33:LEU:HD13	9:AK:34:LEU:N	2.15	0.62
9:AK:63:THR:O	9:AK:65:LYS:HD2	1.99	0.62
10:AL:25:LEU:N	10:AL:39:ILE:HG22	2.15	0.62
1:AA:2415:G:C5'	11:AM:61:ARG:HB2	2.29	0.62
12:AN:46:GLN:O	12:AN:49:ALA:CB	2.46	0.62
13:AO:44:LEU:HD13	13:AO:48:VAL:HG21	1.80	0.62
13:AO:75:LEU:CD2	13:AO:78:LYS:HG2	2.29	0.62
15:AQ:32:TYR:HB3	15:AQ:88:ILE:HA	1.82	0.62
16:AR:82:GLY:CA	16:AR:117:GLN:HG2	2.21	0.62
1:AA:515:A:H5''	16:AR:32:PHE:CZ	2.34	0.62
16:AR:88:ILE:HG12	17:AS:52:VAL:HG22	1.80	0.62
17:AS:7:THR:HG23	17:AS:11:GLN:NE2	2.15	0.62
18:AT:76:VAL:CG2	18:AT:77:ASP:H	2.13	0.62
21:AW:175:VAL:CG2	21:AW:176:PRO:HD2	2.28	0.62
22:AX:13:GLY:C	22:AX:14:ARG:HD3	2.20	0.62
23:AY:12:SER:CB	23:AY:13:PRO:CD	2.78	0.62
34:BA:1105:A:N3	34:BA:1106:G:C8	2.68	0.62
34:BA:1112:C:C2'	36:BG:179:ARG:NH1	2.62	0.62
34:BA:1148:U:O2	34:BA:1149:C:N1	2.33	0.62
34:BA:1255:G:N2	34:BA:1276:G:N2	2.45	0.62
34:BA:1311:G:C2	34:BA:1327:C:N1	2.63	0.62
34:BA:1363:A:H1'	34:BA:1365:G:C6	2.34	0.62
34:BA:68:G:O4'	34:BA:171:A:H1'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:541:G:H4'	37:BH:42:GLN:CB	2.30	0.62
34:BA:812:C:O2	34:BA:813:U:H5	1.82	0.62
34:BA:836:G:P	51:BV:61:LYS:NZ	2.73	0.62
56:BE:2:C:C6	56:BE:70:G:N1	2.68	0.62
35:BF:101:MET:HB3	35:BF:108:ILE:HG13	1.80	0.62
35:BF:12:GLU:C	35:BF:14:GLY:H	2.01	0.62
35:BF:185:ILE:CB	35:BF:199:TYR:HB2	2.29	0.62
35:BF:25:ASN:O	35:BF:27:LYS:N	2.31	0.62
36:BG:87:LEU:HB2	36:BG:101:LEU:HD11	1.81	0.62
37:BH:165:MET:HE1	37:BH:167:GLY:H	1.65	0.62
40:BK:99:LEU:HD21	40:BK:102:ARG:HD2	1.81	0.62
40:BK:140:ASP:O	40:BK:144:MET:HB3	1.99	0.62
40:BK:143:ARG:CD	40:BK:144:MET:H	2.12	0.62
40:BK:35:LYS:HE2	40:BK:38:LEU:HB2	1.82	0.62
41:BL:38:ILE:O	41:BL:41:ARG:HB2	1.99	0.62
43:BN:5:ARG:HD3	43:BN:6:ILE:N	2.14	0.62
44:BO:79:SER:HA	44:BO:104:GLN:HG3	1.82	0.62
44:BO:57:THR:CG2	44:BO:59:TYR:HB3	2.29	0.62
45:BP:24:VAL:HG22	45:BP:98:TYR:CE1	2.34	0.62
45:BP:56:ALA:HB2	45:BP:70:ILE:HG13	1.80	0.62
46:BQ:8:GLU:OE1	46:BQ:18:ALA:O	2.18	0.62
50:BU:104:LYS:HD3	50:BU:105:ALA:CB	2.29	0.62
34:BA:280:C:N3	50:BU:39:SER:HB2	2.14	0.62
39:BJ:94:GLN:HB3	51:BV:32:ARG:NH2	2.15	0.62
51:BV:87:ARG:O	51:BV:88:LYS:C	2.37	0.62
47:BR:16:PHE:HE1	52:BW:14:HIS:HE2	0.67	0.62
53:BX:26:ASN:ND2	53:BX:27:LYS:H	1.98	0.62
57:BZ:124:ILE:HA	57:BZ:161:ALA:HB1	1.81	0.62
57:BZ:374:ARG:NE	57:BZ:584:SER:H	1.97	0.62
57:BZ:39:GLN:CA	57:BZ:40:GLU:HG3	2.30	0.62
50:BU:100:LYS:HB3	50:BU:100:LYS:NZ	2.15	0.62
1:AA:1062:G:C5	1:AA:1063:G:N7	2.67	0.62
1:AA:1081:U:C5	1:AA:1082:U:C5	2.87	0.62
1:AA:1241:A:N6	1:AA:1244:G:O6	2.31	0.62
1:AA:1862:G:H2'	1:AA:1863:G:C8	2.35	0.62
1:AA:1909:C:O2'	1:AA:1910:G:H5'	2.00	0.62
1:AA:1935:G:C4	1:AA:1962:C:C4	2.88	0.62
1:AA:1900:A:C2	1:AA:1970:A:C6	2.87	0.62
1:AA:980:A:H2	1:AA:2038:G:C1'	2.12	0.62
1:AA:2308:G:N3	1:AA:2308:G:H2'	2.15	0.62
1:AA:2352:A:C2	1:AA:2353:G:H1'	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2360:A:N7	1:AA:2361:A:C8	2.67	0.62
1:AA:2861:G:O4'	1:AA:2861:G:OP2	2.18	0.62
1:AA:30:G:OP1	16:AR:8:VAL:HG12	2.00	0.62
1:AA:482:A:N7	1:AA:506:G:C2	2.68	0.62
1:AA:520:G:O2'	1:AA:521:G:H5'	2.00	0.62
1:AA:593:G:C6	1:AA:594:U:C4	2.87	0.62
1:AA:613:U:H5	1:AA:614:U:O2	1.83	0.62
1:AA:820:A:C2	1:AA:821:A:O4'	2.52	0.62
1:AA:918:A:N3	1:AA:918:A:H5'	2.15	0.62
1:AA:942:G:O3'	11:AM:32:THR:HA	1.99	0.62
2:AB:100:G:C4	2:AB:101:A:N7	2.68	0.62
2:AB:12:C:C5	22:AX:74:ARG:O	2.53	0.62
1:AA:2597:G:H5'	4:AD:242:ARG:CG	2.29	0.62
1:AA:1801:G:C4	4:AD:263:ARG:NH2	2.66	0.62
4:AD:7:LYS:HA	4:AD:26:LYS:O	1.99	0.62
5:AE:5:LEU:HA	5:AE:76:ARG:HH22	1.65	0.62
6:AF:122:LYS:HE3	6:AF:192:LEU:CD1	2.24	0.62
7:AG:128:ARG:NH1	7:AG:130:ASN:HD21	1.97	0.62
8:AH:66:GLY:O	8:AH:69:ARG:CG	2.46	0.62
8:AH:9:ILE:CD1	8:AH:73:ALA:HB2	2.29	0.62
32:AJ:17:ALA:CB	32:AJ:42:ASN:CG	2.68	0.62
32:AJ:27:LEU:CG	32:AJ:57:ILE:HB	2.29	0.62
32:AJ:34:ILE:HD13	32:AJ:63:ARG:HH22	1.63	0.62
10:AL:10:VAL:HG12	10:AL:17:ARG:C	2.20	0.62
10:AL:35:VAL:CA	10:AL:61:VAL:HG11	2.29	0.62
10:AL:64:ARG:NH2	10:AL:77:ILE:HA	2.14	0.62
12:AN:99:PRO:HD2	12:AN:101:ARG:NE	2.15	0.62
13:AO:55:ALA:CB	13:AO:79:LEU:HD11	2.29	0.62
14:AP:14:VAL:O	14:AP:18:ILE:HD13	1.99	0.62
15:AQ:6:LEU:HD23	15:AQ:7:ILE:N	2.14	0.62
18:AT:13:SER:O	18:AT:17:VAL:CG1	2.47	0.62
19:AU:12:VAL:HG13	19:AU:14:SER:HB3	1.80	0.62
19:AU:55:ASN:ND2	19:AU:55:ASN:N	2.48	0.62
21:AW:91:LEU:HD12	21:AW:95:PRO:HG3	1.80	0.62
22:AX:46:LYS:HE2	22:AX:77:ARG:O	1.99	0.62
34:BA:1062:U:C2'	34:BA:1063:C:C6	2.82	0.62
34:BA:1363:A:H1'	34:BA:1365:G:C5	2.34	0.62
34:BA:1064:G:OP1	34:BA:1386:G:C4'	2.46	0.62
34:BA:1389:C:H2'	34:BA:1390:U:H5'	1.80	0.62
15:AQ:112:ARG:CZ	34:BA:1465:C:OP2	2.41	0.62
34:BA:193:C:H2'	34:BA:194:C:C5	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:527:G:C2	34:BA:528:C:C2	2.88	0.62
34:BA:665:A:H2'	34:BA:725:G:H21	1.57	0.62
34:BA:687:A:O2'	34:BA:688:G:P	2.56	0.62
34:BA:765:G:O2'	34:BA:766:A:C5'	2.42	0.62
34:BA:817:C:O2'	34:BA:818:G:P	2.57	0.62
34:BA:867:G:H2'	34:BA:868:C:H6	1.63	0.62
56:BD:56:C:O2'	56:BD:57:G:O4'	2.17	0.62
35:BF:111:ARG:NH1	35:BF:111:ARG:HA	2.08	0.62
35:BF:115:LEU:HB2	35:BF:145:LEU:CD2	2.30	0.62
35:BF:47:THR:O	35:BF:51:LEU:CG	2.45	0.62
36:BG:172:ARG:HB3	36:BG:172:ARG:CZ	2.27	0.62
36:BG:178:LEU:O	36:BG:179:ARG:HB2	1.99	0.62
37:BH:129:ASN:ND2	37:BH:144:ASP:CG	2.53	0.62
37:BH:170:VAL:HG11	37:BH:174:LEU:HB2	1.82	0.62
39:BJ:36:ARG:O	39:BJ:66:GLU:HG2	1.99	0.62
39:BJ:2:ARG:O	39:BJ:67:MET:SD	2.57	0.62
40:BK:44:TYR:O	40:BK:47:CYS:N	2.32	0.62
41:BL:114:THR:HA	41:BL:131:GLY:CA	2.29	0.62
41:BL:67:PRO:O	41:BL:76:PRO:HA	1.99	0.62
41:BL:89:PRO:HB3	41:BL:92:ARG:HH21	1.64	0.62
42:BM:37:PHE:CD1	42:BM:43:ALA:HA	2.35	0.62
43:BN:47:PHE:CE1	43:BN:64:GLU:HA	2.34	0.62
43:BN:79:ARG:NH1	43:BN:82:ILE:HB	2.14	0.62
44:BO:48:ILE:HD11	44:BO:64:ALA:CB	2.29	0.62
44:BO:27:ASN:HA	44:BO:55:LYS:O	2.00	0.62
44:BO:73:MET:O	44:BO:75:TYR:N	2.32	0.62
45:BP:27:LEU:HD23	45:BP:33:ARG:CD	2.28	0.62
45:BP:65:GLU:O	45:BP:66:VAL:HG13	1.99	0.62
34:BA:1308:U:P	46:BQ:99:ARG:H	2.22	0.62
47:BR:13:THR:O	47:BR:14:PRO:C	2.37	0.62
47:BR:4:LYS:O	47:BR:7:ILE:HG13	2.00	0.62
49:BT:43:LYS:HG3	49:BT:48:TRP:CZ3	2.34	0.62
50:BU:88:TYR:N	50:BU:91:ARG:NH2	2.40	0.62
39:BJ:60:PHE:CE2	51:BV:78:LEU:HD11	2.34	0.62
52:BW:47:HIS:H	52:BW:62:ILE:CG2	2.13	0.62
53:BX:14:LYS:N	53:BX:17:ARG:HH21	1.98	0.62
57:BZ:267:LEU:HG	57:BZ:268:ALA:H	1.63	0.62
57:BZ:251:VAL:CA	57:BZ:274:VAL:HG22	2.28	0.62
57:BZ:97:LEU:HD22	57:BZ:113:THR:HG21	1.81	0.62
57:BZ:603:ALA:CB	57:BZ:604:PRO:HD3	2.25	0.62
55:BC:35:A:H2'	55:BC:36:A:N7	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:320:GLY:CA	57:BZ:321:LYS:HB2	2.28	0.62
1:AA:1023:U:H2'	1:AA:1024:G:H5'	1.81	0.62
1:AA:1046:A:H1'	31:AI:11:ALA:CB	2.28	0.62
1:AA:120:U:H1'	1:AA:149:A:N3	2.14	0.62
1:AA:1521:G:H3'	1:AA:1522:G:C5'	2.30	0.62
1:AA:1650:G:H5'	13:AO:104:ARG:HH21	1.63	0.62
1:AA:1661:G:H2'	1:AA:1662:C:C6	2.34	0.62
1:AA:1675:C:C4	5:AE:128:SER:HB2	2.35	0.62
1:AA:1817:G:OP1	4:AD:88:ARG:NH1	2.30	0.62
1:AA:2039:C:H2'	1:AA:2040:C:C6	2.34	0.62
1:AA:2122:U:H2'	1:AA:2123:G:C5'	2.25	0.62
1:AA:221:A:C5	1:AA:266:G:N7	2.68	0.62
1:AA:2468:G:HO2'	1:AA:2469:A:H8	1.48	0.62
1:AA:2603:G:C5	1:AA:2604:U:C5	2.87	0.62
1:AA:262:A:O2'	1:AA:263:C:H5'	1.99	0.62
1:AA:2646:C:C5	1:AA:2647:U:O4	2.53	0.62
1:AA:2747:G:N2	1:AA:2754:U:C2	2.68	0.62
1:AA:2825:C:O5'	1:AA:2825:C:C6	2.52	0.62
1:AA:2876:G:OP1	15:AQ:2:ASN:CB	2.47	0.62
1:AA:492:A:C8	1:AA:492:A:OP2	2.53	0.62
1:AA:602:G:H2'	1:AA:655:A:C2	2.34	0.62
1:AA:84:A:H1'	1:AA:103:A:H61	1.64	0.62
1:AA:919:G:H2'	1:AA:920:G:C8	2.29	0.62
2:AB:52:A:N3	2:AB:52:A:H2'	2.15	0.62
2:AB:57:A:H3'	2:AB:57:A:C8	2.34	0.62
3:AC:59:ARG:HD3	3:AC:164:ARG:CG	2.28	0.62
4:AD:8:PRO:CD	4:AD:26:LYS:H	2.12	0.62
4:AD:5:LYS:CB	4:AD:82:ILE:HD12	2.29	0.62
5:AE:182:LEU:HD23	5:AE:183:LEU:N	2.14	0.62
5:AE:47:VAL:HG22	5:AE:79:ARG:CG	2.30	0.62
6:AF:41:LEU:CA	6:AF:44:ARG:NE	2.63	0.62
7:AG:157:ILE:HG12	7:AG:158:ALA:N	2.15	0.62
7:AG:68:PRO:CB	7:AG:72:ARG:HH12	2.12	0.62
8:AH:127:GLU:HB2	8:AH:130:ARG:O	2.00	0.62
32:AJ:72:PRO:HG2	32:AJ:77:LEU:HB2	1.69	0.62
9:AK:93:THR:C	9:AK:94:HIS:HD2	2.03	0.62
12:AN:122:GLY:C	12:AN:124:LYS:N	2.47	0.62
1:AA:2484:G:N2	12:AN:124:LYS:HD2	2.15	0.62
12:AN:37:LEU:HD11	12:AN:130:LYS:CB	2.27	0.62
13:AO:102:GLU:CG	13:AO:103:ARG:N	2.62	0.62
13:AO:39:PRO:O	13:AO:40:LYS:C	2.36	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:10:ARG:O	14:AP:12:PHE:N	2.32	0.62
16:AR:19:LYS:O	16:AR:20:LEU:C	2.38	0.62
17:AS:18:LEU:HA	17:AS:96:ILE:O	2.00	0.62
20:AV:88:LYS:O	20:AV:91:GLU:HB2	1.99	0.62
21:AW:158:PRO:CB	21:AW:159:PRO:HD2	2.27	0.62
21:AW:19:ARG:N	21:AW:23:LYS:O	2.33	0.62
23:AY:20:VAL:HG23	23:AY:55:LEU:HD23	1.79	0.62
34:BA:1117:G:C4	34:BA:1184:G:C4	2.86	0.62
34:BA:1273:G:H3'	34:BA:1274:G:H8	1.63	0.62
34:BA:1315:U:H2'	34:BA:1316:G:O4'	1.99	0.62
34:BA:1321:C:H2'	34:BA:1322:C:C6	2.34	0.62
34:BA:1454:G:O6	34:BA:1455:G:O6	2.14	0.62
34:BA:1484:C:C2	34:BA:1485:U:C6	2.88	0.62
34:BA:279:A:N3	34:BA:281:G:N2	2.48	0.62
34:BA:292:G:N7	34:BA:293:G:H1'	2.15	0.62
34:BA:438:G:N2	34:BA:495:A:C8	2.68	0.62
34:BA:520:A:C8	34:BA:521:G:O4'	2.52	0.62
34:BA:710:G:O2'	34:BA:711:G:H5'	1.99	0.62
34:BA:778:G:H2'	34:BA:779:C:C6	2.34	0.62
34:BA:895:G:H2'	34:BA:896:C:C6	2.35	0.62
7:AG:81:LYS:O	56:BE:52:G:O5'	2.17	0.62
35:BF:175:ARG:HA	35:BF:178:ARG:HB2	1.80	0.62
36:BG:150:LYS:CB	36:BG:173:VAL:HG21	2.22	0.62
37:BH:18:LYS:HG2	37:BH:33:MET:CB	2.25	0.62
38:BI:137:GLU:HA	38:BI:137:GLU:OE2	1.97	0.62
38:BI:56:GLN:NE2	38:BI:56:GLN:N	2.47	0.62
41:BL:34:GLU:HA	41:BL:34:GLU:OE1	2.00	0.62
41:BL:48:TYR:CD1	41:BL:48:TYR:C	2.73	0.62
41:BL:87:SER:HB3	41:BL:93:VAL:H	1.64	0.62
34:BA:972:C:O2	43:BN:55:LYS:HE3	1.98	0.62
44:BO:114:VAL:HG22	44:BO:115:PRO:N	2.14	0.62
44:BO:73:MET:SD	44:BO:103:LEU:HB3	2.40	0.62
47:BR:16:PHE:O	47:BR:18:VAL:N	2.32	0.62
49:BT:27:LYS:O	49:BT:29:ASP:N	2.33	0.62
57:BZ:212:LEU:HD12	57:BZ:221:ILE:O	1.98	0.62
57:BZ:563:MET:HA	57:BZ:563:MET:CE	2.29	0.62
57:BZ:87:ARG:HH22	57:BZ:211:GLN:N	1.96	0.62
56:BD:65:G:C2	56:BD:66:U:C2	2.88	0.62
1:AA:1913:A:C2	56:BD:37:A:O2'	2.52	0.62
2:AB:0:A:C5'	2:AB:0:A:N3	2.63	0.62
53:BX:8:ARG:NH1	53:BX:8:ARG:HB3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:45:VAL:O	48:BS:45:VAL:HG12	1.99	0.62
1:AA:1025:G:N3	1:AA:1025:G:C2'	2.63	0.62
1:AA:1000:A:H61	1:AA:1155:A:C5'	2.12	0.62
1:AA:1210:A:H1'	1:AA:1212:G:N2	2.15	0.62
1:AA:1343:G:H21	1:AA:1405:U:H1'	1.65	0.62
1:AA:1491:G:H2'	1:AA:1492:G:O3'	1.99	0.62
1:AA:1472:A:C6	1:AA:1518:C:N4	2.68	0.62
1:AA:164:U:H2'	1:AA:172:C:C1'	2.29	0.62
1:AA:1662:C:C4	1:AA:1663:C:N4	2.68	0.62
1:AA:1703:G:N2	1:AA:1704:G:C4	2.67	0.62
1:AA:1826:G:H8	1:AA:1826:G:O5'	1.82	0.62
1:AA:1882:C:C2'	1:AA:1883:G:H5'	2.30	0.62
1:AA:1935:G:H1'	1:AA:1964:G:N2	2.15	0.62
1:AA:197:A:C2	1:AA:198:C:C1'	2.82	0.62
1:AA:1992:G:C5	1:AA:1997:G:C4	2.88	0.62
1:AA:2115:G:O2'	1:AA:2117:A:N6	2.27	0.62
1:AA:2152:G:H5'	3:AC:2:LYS:C	2.19	0.62
1:AA:2228:G:C8	1:AA:2229:C:C6	2.88	0.62
1:AA:2246:G:H2'	1:AA:2247:A:H8	1.62	0.62
1:AA:2436:G:H2'	1:AA:2437:U:H6	1.64	0.62
1:AA:2548:G:C8	1:AA:2548:G:H5'	2.32	0.62
1:AA:298:G:O5'	1:AA:298:G:C8	2.48	0.62
1:AA:607:U:C2	1:AA:608:A:C8	2.87	0.62
1:AA:648:G:H2'	1:AA:649:G:H8	1.65	0.62
1:AA:936:C:H2'	1:AA:937:U:H6	1.65	0.62
1:AA:949:C:C2	1:AA:950:G:C8	2.88	0.62
1:AA:966:G:C1'	1:AA:2267:A:H61	2.12	0.62
1:AA:987:G:O6	1:AA:988:A:C5	2.52	0.62
1:AA:919:G:H4'	2:AB:81:G:O2'	2.00	0.62
4:AD:175:LEU:HD13	4:AD:175:LEU:O	1.98	0.62
4:AD:84:TYR:CD1	4:AD:91:ARG:HG3	2.35	0.62
5:AE:85:ASN:C	5:AE:87:GLU:H	2.03	0.62
6:AF:155:LEU:CG	6:AF:189:THR:HG21	2.24	0.62
7:AG:119:GLY:HA3	7:AG:180:PHE:CZ	2.35	0.62
7:AG:173:LEU:HG	7:AG:173:LEU:O	1.98	0.62
7:AG:2:PRO:HA	7:AG:5:VAL:CG2	2.30	0.62
7:AG:53:LEU:O	7:AG:68:PRO:HB2	1.99	0.62
9:AK:104:LYS:O	9:AK:107:LEU:N	2.33	0.62
9:AK:87:LEU:HA	9:AK:90:MET:HB2	1.82	0.62
9:AK:95:PRO:HA	9:AK:98:VAL:CG2	2.29	0.62
10:AL:64:ARG:CZ	10:AL:66:LYS:H	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:111:GLU:HB3	12:AN:112:GLU:OE2	2.00	0.62
1:AA:2484:G:N3	12:AN:124:LYS:CE	2.62	0.62
1:AA:2484:G:N3	12:AN:124:LYS:HE2	2.14	0.62
12:AN:32:TYR:CZ	12:AN:106:VAL:HG23	2.35	0.62
13:AO:28:LEU:HD11	13:AO:116:LEU:HD23	1.80	0.62
13:AO:75:LEU:HA	13:AO:78:LYS:CB	2.29	0.62
14:AP:23:ARG:C	14:AP:24:LEU:HD12	2.20	0.62
15:AQ:93:ARG:HG2	15:AQ:95:ARG:NH1	2.14	0.62
16:AR:93:LYS:HB2	17:AS:10:LYS:CD	2.29	0.62
17:AS:5:VAL:HG12	17:AS:37:VAL:HG22	1.79	0.62
1:AA:2009:G:H5''	18:AT:41:LYS:HG2	1.81	0.62
19:AU:36:LYS:CD	19:AU:39:ILE:HD12	2.30	0.62
20:AV:72:VAL:C	20:AV:73:ARG:HG3	2.20	0.62
21:AW:115:GLY:O	21:AW:117:LEU:HD12	2.00	0.62
1:AA:2331:G:H4'	22:AX:43:THR:N	2.14	0.62
34:BA:983:A:C1'	34:BA:1201:A:N7	2.59	0.62
34:BA:1305:G:H21	34:BA:1331:G:H2'	1.64	0.62
34:BA:1306:A:H61	34:BA:1331:G:H1'	1.65	0.62
34:BA:1454:G:C4	34:BA:1455:G:C5	2.88	0.62
34:BA:186:C:O2'	34:BA:186(A):C:H5'	2.00	0.62
34:BA:363:A:C5	45:BP:31:PRO:HD2	2.35	0.62
34:BA:775:G:H2'	34:BA:776:G:C8	2.34	0.62
34:BA:826:C:H5'	41:BL:12:ARG:NE	2.15	0.62
34:BA:933:G:N7	40:BK:3:ARG:NH2	2.46	0.62
34:BA:948:C:OP1	46:BQ:109:THR:HB	2.00	0.62
34:BA:955:U:C2	34:BA:956:U:C5	2.88	0.62
1:AA:2602:A:N1	56:BD:74:C:H3'	2.15	0.62
35:BF:141:GLU:OE1	35:BF:142:LEU:N	2.33	0.62
35:BF:200:ILE:O	35:BF:202:PRO:CD	2.47	0.62
36:BG:91:LEU:HD23	36:BG:92:ALA:N	2.15	0.62
37:BH:100:ARG:HB2	37:BH:103:ASN:HB2	1.82	0.62
34:BA:404:U:C4'	37:BH:122:ARG:NH1	2.62	0.62
38:BI:79:GLU:CG	38:BI:93:PRO:HD2	2.29	0.62
39:BJ:52:ILE:HG21	39:BJ:87:ARG:CZ	2.30	0.62
41:BL:11:THR:O	41:BL:13:ILE:N	2.33	0.62
41:BL:6:ILE:HG13	41:BL:85:ARG:NH2	2.14	0.62
42:BM:15:ALA:HB3	42:BM:76:ALA:CB	2.29	0.62
43:BN:10:GLY:CA	43:BN:94:VAL:HG22	2.29	0.62
44:BO:75:TYR:O	44:BO:77:MET:N	2.30	0.62
47:BR:10:ALA:C	47:BR:12:ARG:H	2.02	0.62
34:BA:1216:G:H5''	47:BR:5:ALA:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:111:ARG:HD2	47:BR:61:TRP:NE1	2.15	0.62
49:BT:4:ILE:CG2	49:BT:21:VAL:HG13	2.30	0.62
51:BV:21:LYS:HD2	51:BV:23:LYS:H	1.64	0.62
34:BA:1219:U:H2'	52:BW:52:TYR:CE2	2.35	0.62
34:BA:1220:G:N2	52:BW:55:LYS:HG3	2.14	0.62
52:BW:5:LEU:HD23	52:BW:6:LYS:H	1.61	0.62
57:BZ:89:MET:CE	57:BZ:119:TYR:CZ	2.82	0.62
57:BZ:169:ASN:HA	57:BZ:171:ILE:HD13	1.81	0.62
57:BZ:6:ARG:NH1	57:BZ:196:ALA:CA	2.63	0.62
57:BZ:266:ASP:O	57:BZ:267:LEU:HB2	1.99	0.62
57:BZ:438:ARG:NH2	57:BZ:440:ASP:OD2	2.32	0.62
57:BZ:559:PRO:O	57:BZ:561:ILE:HG13	2.00	0.62
56:BD:2:C:C4	56:BD:71:G:N1	2.46	0.62
56:BD:50:U:O4	56:BD:65:G:C6	2.53	0.62
1:AA:1418:G:H5'	1:AA:1587:A:O2'	2.00	0.62
1:AA:1000:A:C2	1:AA:1155:A:C2	2.88	0.62
1:AA:1020:A:N3	1:AA:1140:C:O2	2.33	0.62
1:AA:1204:A:P	1:AA:1204:A:O4'	2.58	0.62
1:AA:1265:A:O2'	1:AA:1266:G:H4'	2.00	0.62
1:AA:1279:G:H2'	1:AA:1280:G:H8	1.65	0.62
1:AA:1650:G:O2'	1:AA:1651:G:P	2.58	0.62
1:AA:1661:G:N2	1:AA:2000:G:H1'	2.15	0.62
1:AA:1829:A:C2	1:AA:1830:C:H1'	2.35	0.62
1:AA:1853:A:N1	1:AA:2087:G:H1'	2.15	0.62
1:AA:2009:G:H1'	13:AO:107:ASP:O	1.99	0.62
1:AA:2043:C:C2'	1:AA:2044:C:O5'	2.48	0.62
1:AA:2083:G:N2	1:AA:2084:C:C2	2.68	0.62
1:AA:2093:G:H2'	1:AA:2094:G:O5'	1.99	0.62
1:AA:2392:A:H2'	1:AA:2393:A:C5'	2.29	0.62
1:AA:2418:A:C2'	1:AA:2419:U:O4'	2.44	0.62
1:AA:244:A:C5	1:AA:245:G:H1'	2.35	0.62
1:AA:2482:G:C2	1:AA:2483:C:H1'	2.35	0.62
1:AA:2537:U:H2'	1:AA:2538:C:C5	2.34	0.62
1:AA:2538:C:H2'	1:AA:2539:C:H6	1.61	0.62
1:AA:2620:C:OP1	5:AE:153:GLY:HA2	1.98	0.62
1:AA:270(X):G:H4'	1:AA:272:G:O3'	1.99	0.62
1:AA:2787:C:H1'	5:AE:61:ARG:NH2	2.15	0.62
1:AA:2807:G:N9	1:AA:2808:U:H5	1.93	0.62
59:AA:3003:8AN:C5'	56:BE:75:C:H3'	2.26	0.62
1:AA:627:A:C2'	1:AA:628:G:O4'	2.42	0.62
1:AA:643:A:H1'	1:AA:644:A:C8	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:637:A:H2	1:AA:651:G:C5'	2.13	0.62
1:AA:673:C:H5''	6:AF:81:PRO:HG2	1.81	0.62
1:AA:675:A:H2'	1:AA:676:A:N3	2.14	0.62
1:AA:959:A:H2'	1:AA:960:A:H8	1.62	0.62
2:AB:74:U:H5''	2:AB:75:G:OP2	1.98	0.62
2:AB:90:C:H2'	2:AB:91:C:H6	1.64	0.62
3:AC:29:VAL:HG21	3:AC:41:VAL:HG11	1.80	0.62
4:AD:134:ARG:C	4:AD:136:ILE:H	2.01	0.62
4:AD:155:LEU:HA	4:AD:157:ARG:HH21	1.65	0.62
4:AD:267:SER:O	4:AD:268:ARG:O	2.18	0.62
4:AD:89:SER:OG	4:AD:159:ALA:N	2.33	0.62
5:AE:105:THR:O	5:AE:197:ILE:HD12	2.00	0.62
5:AE:136:ARG:CZ	5:AE:137:HIS:HA	2.30	0.62
5:AE:92:THR:O	5:AE:94:GLU:N	2.32	0.62
5:AE:9:VAL:HG12	5:AE:192:ASN:ND2	2.14	0.62
6:AF:121:GLY:HA3	6:AF:191:ARG:NE	2.11	0.62
6:AF:176:LEU:C	6:AF:178:PRO:HD2	2.19	0.62
6:AF:4:VAL:C	6:AF:20:LEU:HD12	2.14	0.62
7:AG:162:THR:O	7:AG:164:GLU:N	2.31	0.62
7:AG:68:PRO:CG	7:AG:72:ARG:HH12	2.12	0.62
8:AH:45:VAL:HG13	8:AH:50:VAL:HG13	1.82	0.62
32:AJ:123:ALA:O	32:AJ:127:ILE:HD12	2.00	0.62
32:AJ:12:LEU:CD2	32:AJ:23:VAL:HG22	2.28	0.62
9:AK:100:GLU:HA	9:AK:103:VAL:HG13	1.81	0.62
9:AK:107:LEU:HD13	9:AK:117:PHE:CE2	2.35	0.62
9:AK:31:ALA:O	9:AK:33:LEU:N	2.32	0.62
10:AL:89:ASN:O	10:AL:90:GLN:HB2	2.00	0.62
11:AM:122:PRO:HB3	11:AM:134:ALA:O	2.00	0.62
11:AM:131:SER:O	11:AM:134:ALA:CB	2.43	0.62
12:AN:45:GLN:O	12:AN:46:GLN:C	2.38	0.62
12:AN:75:THR:HA	12:AN:91:GLU:CG	2.29	0.62
13:AO:54:LEU:HD12	13:AO:54:LEU:H	1.64	0.62
13:AO:61:HIS:CE1	13:AO:64:ARG:NE	2.68	0.62
14:AP:40:ILE:HG22	14:AP:41:ASP:N	2.12	0.62
14:AP:49:VAL:HG21	14:AP:80:LEU:HG	1.82	0.62
15:AQ:28:VAL:HG12	15:AQ:30:VAL:CG1	2.30	0.62
15:AQ:76:PHE:CE2	15:AQ:78:LEU:HB2	2.35	0.62
20:AV:47:LYS:O	20:AV:48:ALA:CB	2.48	0.62
21:AW:48:PHE:CB	21:AW:54:HIS:HE1	2.13	0.62
22:AX:44:ARG:HE	22:AX:77:ARG:CD	2.12	0.62
22:AX:50:ASN:HB2	22:AX:81:VAL:CG2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1132:C:C4	34:BA:1133:G:N7	2.67	0.62
34:BA:1055:A:N6	34:BA:1206:G:C5	2.68	0.62
34:BA:1272:G:H2'	34:BA:1273:G:H8	1.65	0.62
34:BA:135:C:H3'	34:BA:135:C:C6	2.35	0.62
34:BA:1418:A:C3'	34:BA:1419:G:H5'	2.30	0.62
34:BA:1438:G:C6	34:BA:1439:C:C4	2.88	0.62
34:BA:257:G:O2'	34:BA:258:G:H5'	1.99	0.62
34:BA:274:A:O2'	34:BA:275:G:H1'	2.00	0.62
34:BA:54:C:H41	34:BA:352:C:H2'	1.65	0.62
34:BA:375:U:H4'	49:BT:17:TYR:HE2	1.62	0.62
34:BA:571:U:H5''	34:BA:571:U:C6	2.35	0.62
34:BA:851:G:C2	34:BA:852:G:H1'	2.35	0.62
34:BA:900:A:C5	34:BA:901:A:N7	2.68	0.62
56:BE:3:C:N3	56:BE:70:G:H2'	2.15	0.62
35:BF:189:ASP:OD1	35:BF:205:ASP:N	2.33	0.62
35:BF:29:ALA:O	35:BF:32:ILE:HB	2.00	0.62
39:BJ:60:PHE:N	39:BJ:60:PHE:CD1	2.66	0.62
39:BJ:33:TYR:CE2	39:BJ:74:ASP:HB2	2.32	0.62
40:BK:125:MET:HG3	40:BK:126:ASP:N	2.10	0.62
41:BL:112:LEU:HD21	41:BL:114:THR:HG23	1.81	0.62
43:BN:31:GLY:HA3	43:BN:74:ILE:CG2	2.29	0.62
46:BQ:12:ASN:C	46:BQ:44:ARG:CG	2.68	0.62
46:BQ:13:LYS:HB3	46:BQ:17:VAL:CB	2.28	0.62
46:BQ:77:ASN:O	46:BQ:81:LEU:HD12	1.99	0.62
49:BT:4:ILE:HG23	49:BT:21:VAL:HG13	1.82	0.62
51:BV:21:LYS:CE	51:BV:23:LYS:HB3	2.28	0.62
57:BZ:14:VAL:N	57:BZ:108:GLN:CG	2.19	0.62
57:BZ:230:LYS:CD	57:BZ:265:THR:O	2.31	0.62
57:BZ:338:GLU:HA	57:BZ:338:GLU:OE1	1.98	0.62
32:AJ:15:GLY:HA2	32:AJ:45:THR:O	2.00	0.62
1:AA:1506:C:N3	1:AA:1507:A:H1'	2.15	0.62
1:AA:1072:C:C2'	1:AA:1093:G:C5	2.82	0.62
1:AA:1085:A:O2'	1:AA:1086:A:OP2	2.16	0.62
1:AA:1131:G:N2	9:AK:72:TYR:HE1	1.97	0.62
1:AA:1268:A:C4	1:AA:2013:A:N6	2.68	0.62
1:AA:1725:G:H2'	1:AA:1725:G:N3	2.15	0.62
1:AA:190:A:OP2	1:AA:205:G:N2	2.33	0.62
1:AA:1916:A:O2'	1:AA:1917:U:O4'	2.16	0.62
1:AA:1988:C:H2'	1:AA:1989:G:O5'	2.00	0.62
1:AA:1997:G:N1	1:AA:1998:G:C6	2.67	0.62
1:AA:2058:A:N3	1:AA:2059:A:N7	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:46:C:N4	1:AA:214:G:C8	2.68	0.62
1:AA:2199:A:C5	1:AA:2225:A:N1	2.67	0.62
1:AA:2325:G:H2'	1:AA:2326:C:O4'	2.00	0.62
1:AA:2392:A:C2'	1:AA:2393:A:O5'	2.47	0.62
1:AA:2530:A:C2'	1:AA:2531:A:H5''	2.30	0.62
1:AA:2646:C:C5	1:AA:2647:U:C4	2.87	0.62
1:AA:453:C:H4'	1:AA:457:A:H62	1.65	0.62
1:AA:531:C:C5'	1:AA:532:A:C2	2.82	0.62
1:AA:533:G:C6	1:AA:534:U:N3	2.68	0.62
1:AA:663:G:H5'	11:AM:18:ARG:CB	2.20	0.62
1:AA:668:G:H2'	1:AA:670:A:N6	2.13	0.62
1:AA:685:A:C2	1:AA:689:A:C6	2.88	0.62
1:AA:6:A:C2	1:AA:2898:U:C1'	2.82	0.62
1:AA:685:A:O4'	1:AA:774:A:N6	2.32	0.62
1:AA:852:G:O4'	24:AZ:42:ALA:HA	1.99	0.62
1:AA:960:A:C2	1:AA:962:G:H1'	2.35	0.62
2:AB:14:U:H1'	2:AB:107:U:O4'	2.00	0.62
4:AD:118:VAL:O	4:AD:119:ALA:HB2	1.98	0.62
4:AD:159:ALA:HB3	4:AD:202:LYS:HZ1	1.63	0.62
5:AE:49:LEU:CD1	5:AE:76:ARG:HG2	2.30	0.62
1:AA:1034:G:OP2	6:AF:18:ARG:NE	132.38	0.62
6:AF:121:GLY:CA	6:AF:191:ARG:HE	2.11	0.62
7:AG:135:LEU:HD12	7:AG:155:MET:HB2	1.82	0.62
7:AG:16:ARG:O	7:AG:17:PRO:C	2.34	0.62
7:AG:27:ASN:HB3	7:AG:29:TRP:CE2	2.35	0.62
8:AH:124:GLU:N	8:AH:124:GLU:OE1	2.32	0.62
8:AH:133:VAL:HG22	8:AH:134:SER:N	2.15	0.62
32:AJ:27:LEU:HD21	32:AJ:57:ILE:HB	1.80	0.62
10:AL:11:ALA:HB3	10:AL:97:ARG:HH22	1.64	0.62
11:AM:78:PRO:HG2	11:AM:117:GLU:OE1	2.00	0.62
11:AM:122:PRO:HD3	11:AM:137:LYS:HB2	1.82	0.62
12:AN:55:VAL:HG23	12:AN:64:ILE:HD11	1.81	0.62
13:AO:10:LEU:HB2	13:AO:17:ARG:NH1	2.14	0.62
14:AP:97:ARG:HH21	14:AP:97:ARG:HG3	1.63	0.62
15:AQ:103:ARG:HB3	15:AQ:107:ASP:OD1	2.00	0.62
16:AR:8:VAL:N	16:AR:11:ARG:HH21	1.98	0.62
16:AR:98:LEU:HB3	16:AR:105:VAL:HG13	1.80	0.62
17:AS:12:TYR:O	17:AS:13:ARG:HB2	2.00	0.62
17:AS:39:LEU:O	17:AS:40:LEU:HD12	2.00	0.62
17:AS:3:ALA:O	17:AS:12:TYR:CE2	2.53	0.62
20:AV:13:VAL:HG13	20:AV:70:SER:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:50:VAL:HG13	24:AZ:53:LEU:HB2	1.82	0.62
34:BA:1180:A:O2'	34:BA:1181:G:H5'	2.00	0.62
34:BA:1279:A:O2'	34:BA:1282:C:C4	2.52	0.62
34:BA:1346:A:C8	34:BA:1348:U:C2	2.88	0.62
34:BA:235:C:H2'	34:BA:236:G:H8	1.64	0.62
34:BA:255:G:OP2	50:BU:66:SER:HB2	2.00	0.62
34:BA:293:G:H2'	34:BA:293:G:N3	2.15	0.62
34:BA:362:G:N3	34:BA:364:A:H8	1.98	0.62
34:BA:407:G:N2	34:BA:436:C:H1'	2.15	0.62
34:BA:538:G:OP1	45:BP:114:LYS:N	2.33	0.62
34:BA:690:G:N3	34:BA:690:G:H2'	2.15	0.62
34:BA:706:A:H4'	44:BO:29:ILE:CD1	2.30	0.62
34:BA:752:G:O4'	34:BA:752:G:OP2	2.18	0.62
34:BA:851:G:O2'	34:BA:852:G:H5'	1.99	0.62
34:BA:914:A:O2'	34:BA:915:A:O5'	2.17	0.62
34:BA:1338:G:H1'	56:BE:42:C:H4'	1.82	0.62
35:BF:97:TRP:CZ3	35:BF:176:GLU:HG3	2.35	0.62
35:BF:7:VAL:HG23	35:BF:8:LYS:N	2.13	0.62
36:BG:138:VAL:HG22	36:BG:151:VAL:HG21	1.81	0.62
36:BG:196:LEU:HD23	36:BG:196:LEU:N	2.14	0.62
38:BI:87:SER:HB3	38:BI:131:ILE:HG12	1.81	0.62
39:BJ:80:ARG:CG	39:BJ:88:VAL:HG21	2.29	0.62
41:BL:129:VAL:CG2	41:BL:130:GLY:H	2.09	0.62
34:BA:1117:G:O3'	42:BM:103:THR:HG21	2.00	0.62
43:BN:23:ILE:HG23	43:BN:85:LEU:CD2	2.21	0.62
43:BN:83:GLU:HA	43:BN:83:GLU:OE1	1.99	0.62
44:BO:23:ALA:HB1	44:BO:88:GLY:HA3	1.82	0.62
34:BA:1226:C:N3	46:BQ:104:ARG:HG3	1.98	0.62
46:BQ:16:ASP:N	46:BQ:34:LEU:HD21	2.15	0.62
53:BX:23:ARG:HD3	53:BX:24:LEU:H	1.64	0.62
57:BZ:15:ASP:HB2	57:BZ:16:HIS:CE1	2.12	0.62
57:BZ:50:LYS:HZ3	57:BZ:368:VAL:HG22	1.65	0.62
57:BZ:509:LYS:CG	57:BZ:561:ILE:HG21	2.30	0.62
57:BZ:313:VAL:H	57:BZ:354:ASP:HB3	1.64	0.62
56:BD:7:A:C6	56:BD:66:U:O2	2.53	0.62
1:AA:1058:G:H2'	1:AA:1059:G:C5'	2.30	0.61
1:AA:1082:U:N3	1:AA:1086:A:H2	1.92	0.61
1:AA:1147:C:C2'	1:AA:1148:A:H5'	2.30	0.61
1:AA:1171:G:H1	1:AA:1179:C:N4	1.98	0.61
1:AA:811:U:H1'	1:AA:1251:C:O2	2.00	0.61
1:AA:1363:C:O3'	1:AA:1809:A:N6	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:140:A:C2	1:AA:1408:C:O2	2.53	0.61
1:AA:1459:G:O6	1:AA:1461:G:C6	2.53	0.61
1:AA:1808:U:C4	1:AA:1810:A:N1	2.68	0.61
1:AA:213:A:C2'	1:AA:214:G:H5'	2.29	0.61
1:AA:2263:C:O2'	1:AA:2264:C:H5'	2.01	0.61
1:AA:2392:A:O2'	1:AA:2393:A:H5'	2.00	0.61
1:AA:2569:G:C6	1:AA:2570:G:N7	2.67	0.61
1:AA:2696:U:O2'	1:AA:2697:G:H5'	2.00	0.61
1:AA:2720:U:O4	1:AA:2873:A:N6	2.33	0.61
1:AA:463:G:N2	1:AA:466:A:OP2	2.26	0.61
1:AA:489:G:H2'	1:AA:491:G:O4'	2.00	0.61
1:AA:506:G:H2'	1:AA:507:A:OP2	2.00	0.61
1:AA:13:A:H61	1:AA:525:U:H2'	1.63	0.61
1:AA:895:U:C5'	1:AA:896:A:H5'	2.30	0.61
1:AA:974(A):C:O2	1:AA:989:G:C2	2.53	0.61
1:AA:996:A:C2	1:AA:997:G:C5	2.88	0.61
1:AA:997:G:O2'	1:AA:998:C:C5'	2.48	0.61
2:AB:104:A:N6	2:AB:105:G:N2	2.48	0.61
2:AB:13:A:H2'	2:AB:13:A:N3	2.15	0.61
2:AB:44:G:O2'	2:AB:47:C:N4	2.33	0.61
2:AB:57:A:H2'	2:AB:58:A:H5'	1.82	0.61
1:AA:1774:C:C5	4:AD:18:VAL:HG11	2.35	0.61
4:AD:82:ILE:HG22	4:AD:83:GLU:N	2.15	0.61
4:AD:7:LYS:HD3	4:AD:9:TYR:OH	2.00	0.61
5:AE:124:GLY:HA3	5:AE:136:ARG:HB3	1.81	0.61
6:AF:178:PRO:C	6:AF:180:GLY:N	2.50	0.61
6:AF:184:TYR:O	6:AF:185:ASP:C	2.38	0.61
7:AG:157:ILE:HG12	7:AG:158:ALA:H	1.63	0.61
7:AG:36:LYS:HZ3	7:AG:38:VAL:N	1.98	0.61
9:AK:48:MET:O	9:AK:119:ARG:NH1	2.31	0.61
9:AK:57:ALA:O	9:AK:58:ASP:O	2.18	0.61
10:AL:24:VAL:HG22	10:AL:30:ALA:CA	2.30	0.61
10:AL:18:LYS:NZ	10:AL:44:LYS:HD3	2.14	0.61
11:AM:80:TYR:CZ	11:AM:85:LEU:HD22	2.34	0.61
16:AR:60:LEU:HB2	16:AR:61:TRP:HD1	1.64	0.61
18:AT:98:LYS:NZ	18:AT:98:LYS:HB3	2.15	0.61
20:AV:84:ARG:HD2	20:AV:84:ARG:O	2.00	0.61
22:AX:50:ASN:HB3	22:AX:63:VAL:HG13	1.82	0.61
22:AX:67:VAL:O	22:AX:67:VAL:HG12	2.00	0.61
34:BA:1171:G:HO2'	34:BA:1172:C:H6	1.46	0.61
34:BA:1419:G:O2'	34:BA:1420:C:H6	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:177:C:N3	34:BA:178:C:C5	2.68	0.61
34:BA:118:U:O4	34:BA:289:G:H4'	2.00	0.61
34:BA:301:G:N2	34:BA:302:G:C4	2.67	0.61
34:BA:677:U:H2'	34:BA:678:U:H5	1.59	0.61
34:BA:857:C:O2'	34:BA:858:G:H5'	2.00	0.61
34:BA:859:A:H2'	34:BA:860:A:O5'	1.99	0.61
34:BA:971:G:P	34:BA:1231:G:H21	2.23	0.61
35:BF:67:THR:CB	35:BF:155:LEU:HD21	2.28	0.61
35:BF:60:ASP:CG	35:BF:64:ARG:NH2	2.53	0.61
35:BF:70:PHE:HB3	35:BF:163:PHE:O	2.00	0.61
36:BG:151:VAL:HG22	36:BG:200:ALA:HB1	1.82	0.61
38:BI:76:ILE:HG21	38:BI:142:LEU:HD13	1.82	0.61
39:BJ:39:LYS:O	39:BJ:63:TYR:HA	2.00	0.61
39:BJ:52:ILE:HG22	39:BJ:53:ALA:H	1.63	0.61
40:BK:50:ILE:HG21	40:BK:58:PRO:CA	2.30	0.61
40:BK:5:ARG:HD2	40:BK:5:ARG:C	2.20	0.61
41:BL:28:ALA:O	41:BL:29:SER:CB	2.48	0.61
41:BL:41:ARG:HH11	41:BL:41:ARG:HB3	1.64	0.61
41:BL:9:MET:CE	41:BL:13:ILE:HD11	2.30	0.61
43:BN:40:LEU:HB2	43:BN:69:ASN:HB2	1.82	0.61
43:BN:75:ILE:HG22	43:BN:76:ASN:H	1.65	0.61
43:BN:8:LEU:HD22	43:BN:94:VAL:HG12	1.80	0.61
44:BO:100:ALA:C	44:BO:102:GLY:H	2.02	0.61
44:BO:101:SER:O	44:BO:103:LEU:N	2.32	0.61
44:BO:34:ASP:OD1	44:BO:37:GLY:N	2.31	0.61
45:BP:22:SER:C	45:BP:24:VAL:H	2.04	0.61
49:BT:58:TYR:HD1	49:BT:59:TRP:N	1.98	0.61
50:BU:76:LEU:C	50:BU:76:LEU:HD23	2.19	0.61
34:BA:1220:G:O2'	52:BW:52:TYR:CA	2.44	0.61
53:BX:50:GLU:OE1	53:BX:100:ILE:HG23	2.00	0.61
57:BZ:205:PHE:HZ	57:BZ:226:ILE:HD11	1.61	0.61
57:BZ:37:GLU:O	57:BZ:37:GLU:HG2	1.99	0.61
53:BX:8:ARG:HB3	53:BX:8:ARG:HH11	1.63	0.61
1:AA:1127:A:H3'	1:AA:1127:A:H8	1.65	0.61
1:AA:1195:G:H2'	1:AA:1226:G:N2	2.14	0.61
1:AA:1227:A:H3'	1:AA:1227:A:H8	1.65	0.61
1:AA:1273:U:H4'	1:AA:1275:A:OP2	2.01	0.61
1:AA:1278:A:OP1	13:AO:36:THR:HG22	1.99	0.61
1:AA:1693:U:O2	1:AA:1693:U:H2'	1.99	0.61
1:AA:2107:C:C5	1:AA:2181:G:C6	2.49	0.61
1:AA:2439:A:H4'	1:AA:2440:C:O5'	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2466:C:H2'	1:AA:2467:C:C6	2.35	0.61
1:AA:2512:C:H2'	1:AA:2513:G:H4'	1.82	0.61
1:AA:2570:G:H2'	1:AA:2570:G:N3	2.16	0.61
1:AA:257:A:O5'	1:AA:257:A:C8	2.53	0.61
1:AA:2580:U:OP2	1:AA:2580:U:C6	2.54	0.61
1:AA:2793:G:C5	1:AA:2794:C:C5	2.88	0.61
1:AA:2895:U:H2'	1:AA:2896:C:C6	2.35	0.61
1:AA:290:G:H3'	1:AA:290:G:C8	2.33	0.61
1:AA:326:G:C4	1:AA:327:G:C8	2.88	0.61
1:AA:461:C:O2	1:AA:461:C:H2'	1.99	0.61
1:AA:27:G:N2	1:AA:512:G:O2'	2.33	0.61
1:AA:558:G:C2'	1:AA:559:G:H5'	2.30	0.61
1:AA:59:U:H3'	1:AA:60:G:H5''	1.82	0.61
1:AA:627:A:C4	1:AA:637:A:C4	2.88	0.61
1:AA:775:G:H4'	1:AA:777:A:C5	2.35	0.61
1:AA:808:G:H2'	1:AA:809:G:O4'	1.99	0.61
1:AA:82:G:N2	1:AA:83:G:N2	2.48	0.61
4:AD:242:ARG:O	4:AD:243:GLY:C	2.38	0.61
4:AD:69:ARG:HH22	4:AD:130:ALA:HB2	1.64	0.61
5:AE:8:LYS:HZ2	15:AQ:3:ARG:CG	2.13	0.61
1:AA:1034:G:OP2	6:AF:18:ARG:CZ	133.11	0.61
2:AB:45:A:H1'	7:AG:95:ARG:NH1	2.15	0.61
8:AH:171:LEU:CA	8:AH:172:LYS:HZ2	2.13	0.61
8:AH:37:VAL:O	8:AH:37:VAL:HG22	2.01	0.61
1:AA:1080:C:C6	32:AJ:129:GLY:CA	2.83	0.61
9:AK:99:LEU:CD1	9:AK:100:GLU:N	2.60	0.61
13:AO:32:GLY:O	13:AO:115:GLU:CB	2.32	0.61
13:AO:44:LEU:CD1	13:AO:48:VAL:CG2	2.78	0.61
14:AP:95:HIS:ND1	14:AP:96:GLY:N	2.48	0.61
15:AQ:65:LYS:CD	15:AQ:75:ILE:HD13	2.28	0.61
16:AR:76:TYR:O	16:AR:80:ILE:HB	2.00	0.61
17:AS:69:LYS:HG2	17:AS:70:ILE:N	2.14	0.61
17:AS:68:LYS:NZ	17:AS:95:LEU:HD11	2.15	0.61
18:AT:21:VAL:HG22	18:AT:25:ARG:HG3	1.80	0.61
18:AT:73:ALA:O	18:AT:74:ALA:HB2	2.00	0.61
19:AU:33:LYS:HB2	19:AU:33:LYS:NZ	2.14	0.61
21:AW:104:PHE:CD2	21:AW:104:PHE:N	2.68	0.61
21:AW:100:VAL:CG2	21:AW:137:ILE:HD12	2.20	0.61
22:AX:51:VAL:HG21	22:AX:79:VAL:C	2.20	0.61
34:BA:1026:G:C8	34:BA:1027:C:C6	2.89	0.61
34:BA:1191:A:OP1	36:BG:4:LYS:CG	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1320:C:H3'	34:BA:1321:C:C6	2.35	0.61
34:BA:1305:G:N3	34:BA:1331:G:N2	2.48	0.61
34:BA:934:C:N4	34:BA:1344:C:N3	2.48	0.61
34:BA:1496:C:C5	34:BA:1497:G:N7	2.68	0.61
34:BA:1528:U:HO2'	34:BA:1529:G:H3'	1.65	0.61
34:BA:218:C:H5'	34:BA:466:C:H41	1.64	0.61
34:BA:243:A:O2'	34:BA:244:U:OP2	2.16	0.61
34:BA:246:A:H1'	34:BA:247:G:H1'	1.82	0.61
34:BA:266:G:H2'	50:BU:67:LYS:HZ2	1.63	0.61
34:BA:518:C:C2	34:BA:529:G:O6	2.53	0.61
34:BA:551:U:H2'	34:BA:552:U:H6	1.54	0.61
34:BA:657:G:H2'	34:BA:658:G:C5'	2.30	0.61
34:BA:762:C:C2	34:BA:763:G:N7	2.68	0.61
34:BA:771:G:C6	34:BA:809:G:C6	2.88	0.61
34:BA:989:C:O2'	34:BA:990:C:H5'	2.00	0.61
56:BE:4:C:C5	56:BE:6:G:C5	2.85	0.61
35:BF:69:LEU:O	35:BF:162:ILE:CB	2.47	0.61
36:BG:10:PHE:O	36:BG:11:ARG:NH2	2.33	0.61
36:BG:108:ASN:ND2	36:BG:111:LEU:HD13	2.09	0.61
39:BJ:75:LEU:HD23	39:BJ:78:GLU:HB3	1.82	0.61
42:BM:111:ARG:HD2	47:BR:61:TRP:HE1	1.65	0.61
45:BP:57:LYS:HE2	45:BP:67:THR:HG21	1.82	0.61
45:BP:90:VAL:HG12	45:BP:93:LEU:HD21	1.82	0.61
45:BP:88:GLY:N	45:BP:98:TYR:HA	2.04	0.61
46:BQ:69:GLU:OE1	46:BQ:72:ALA:HB2	2.00	0.61
50:BU:59:ILE:CD1	50:BU:72:ARG:N	2.63	0.61
50:BU:75:ARG:HG2	50:BU:76:LEU:N	2.14	0.61
51:BV:51:LEU:N	51:BV:51:LEU:CD1	2.63	0.61
34:BA:835:U:OP1	51:BV:64:ARG:NH1	2.33	0.61
52:BW:5:LEU:CD2	52:BW:41:VAL:HG12	2.30	0.61
52:BW:33:THR:CG2	52:BW:49:ILE:HD12	2.30	0.61
57:BZ:223:ILE:H	57:BZ:272:ASP:HB3	0.52	0.61
57:BZ:397:GLN:C	57:BZ:472:TYR:CD1	2.73	0.61
57:BZ:55:THR:O	57:BZ:56:ILE:CB	2.48	0.61
56:BD:71:G:H2'	56:BD:72:C:H5'	1.81	0.61
1:AA:1587:A:H2'	1:AA:1588:C:C6	2.34	0.61
2:AB:93:C:H2'	2:AB:94:C:H6	1.65	0.61
1:AA:1341:U:O4	1:AA:1395:A:C2	2.54	0.61
1:AA:1347:G:N2	1:AA:1600:C:C2	2.69	0.61
1:AA:1434:A:C2	1:AA:1435:G:N9	2.68	0.61
1:AA:1475:G:N7	1:AA:1517:G:N2	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1780:A:OP2	1:AA:1782:C:OP1	2.19	0.61
1:AA:1797:C:C4	1:AA:1798:U:O4	2.53	0.61
1:AA:1861:G:H2'	1:AA:1862:G:H5'	1.83	0.61
1:AA:1890:A:H3'	1:AA:1891:G:C8	2.35	0.61
1:AA:2206:C:H5''	1:AA:2228:G:H21	1.65	0.61
1:AA:2394:C:H2'	1:AA:2394:C:O2	1.99	0.61
1:AA:247:G:HO2'	1:AA:386:G:H1	1.44	0.61
1:AA:2653:U:O4	1:AA:2669:G:N1	2.32	0.61
1:AA:2657:A:N6	1:AA:2664:G:H2'	2.14	0.61
1:AA:270(I):G:H2'	1:AA:270(J):G:O4'	2.00	0.61
1:AA:2747:G:C5	1:AA:2756:U:O4	2.53	0.61
1:AA:81:G:O2'	1:AA:294:A:H2'	2.01	0.61
1:AA:2507:C:C6	59:AA:3002:8AN:O2'	2.53	0.61
1:AA:748:G:N7	1:AA:750:A:C5	2.67	0.61
1:AA:823:G:C6	1:AA:835:A:C6	2.88	0.61
1:AA:894:C:H2'	1:AA:895:U:H5'	1.82	0.61
2:AB:99:A:C6	2:AB:100:G:C5	2.88	0.61
3:AC:67:GLY:N	3:AC:184:LYS:NZ	2.45	0.61
4:AD:181:GLU:HA	4:AD:270:ILE:CG2	2.29	0.61
4:AD:7:LYS:HD2	4:AD:91:ARG:HE	1.64	0.61
5:AE:116:VAL:O	5:AE:120:TRP:NE1	2.33	0.61
5:AE:101:ARG:NH2	5:AE:171:GLU:HG2	2.11	0.61
6:AF:132:VAL:H	6:AF:138:GLU:CD	2.03	0.61
6:AF:171:PRO:HB2	6:AF:172:TRP:CE3	2.32	0.61
6:AF:201:VAL:O	6:AF:205:ARG:HG3	1.98	0.61
6:AF:74:ARG:O	6:AF:75:HIS:CB	2.48	0.61
7:AG:12:TYR:CD1	7:AG:13:GLU:N	2.68	0.61
7:AG:144:ILE:HD12	7:AG:147:ASP:CG	2.21	0.61
7:AG:9:ARG:HH11	7:AG:9:ARG:HG3	1.65	0.61
8:AH:98:LEU:O	8:AH:98:LEU:HD23	2.00	0.61
1:AA:1081:U:C4'	32:AJ:125:ARG:HD3	2.29	0.61
9:AK:107:LEU:HD23	9:AK:108:PRO:N	2.16	0.61
9:AK:16:ILE:H	9:AK:16:ILE:HD12	1.63	0.61
9:AK:89:LYS:O	9:AK:90:MET:C	2.38	0.61
11:AM:81:GLN:CG	11:AM:86:LYS:HE3	2.30	0.61
16:AR:47:TYR:O	16:AR:51:LYS:HG3	1.99	0.61
16:AR:45:TYR:C	16:AR:49:HIS:ND1	2.53	0.61
16:AR:88:ILE:HG12	17:AS:52:VAL:CG1	2.31	0.61
16:AR:47:TYR:OH	17:AS:76:LYS:C	2.38	0.61
18:AT:72:LYS:O	18:AT:106:ILE:HG22	2.00	0.61
18:AT:72:LYS:O	18:AT:106:ILE:O	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1340:U:C5	19:AU:57:LEU:HG	2.35	0.61
24:AZ:29:ARG:CB	24:AZ:30:ARG:CZ	2.79	0.61
34:BA:1005:A:H4'	34:BA:1037:C:O2	2.00	0.61
34:BA:1288:A:C4	34:BA:1289:A:N7	2.69	0.61
34:BA:1295:G:H21	34:BA:1302:U:H3	1.47	0.61
34:BA:1299:A:C5	34:BA:1301:U:H1'	2.34	0.61
34:BA:134:A:C6	34:BA:135:C:C4	2.88	0.61
34:BA:129(A):G:C2	34:BA:188:U:O2'	2.53	0.61
34:BA:221:C:H2'	34:BA:222:U:H6	1.65	0.61
34:BA:594:G:N7	34:BA:595:G:C2	2.68	0.61
34:BA:765:G:N2	34:BA:816:A:C2	2.69	0.61
34:BA:775:G:H2'	34:BA:776:G:N7	2.15	0.61
34:BA:873:A:OP1	34:BA:873:A:C8	2.52	0.61
56:BD:74:C:H1'	56:BD:75:C:OP2	2.00	0.61
36:BG:67:THR:CA	36:BG:102:ASN:HB2	2.30	0.61
37:BH:80:GLU:HA	37:BH:83:SER:OG	2.00	0.61
38:BI:31:LEU:CD1	38:BI:129:ILE:HG23	2.19	0.61
38:BI:45:PHE:HE1	38:BI:47:LYS:HD2	1.65	0.61
40:BK:95:ARG:O	40:BK:96:GLN:C	2.39	0.61
41:BL:75:ARG:NH1	41:BL:75:ARG:HB2	2.15	0.61
43:BN:6:ILE:HG22	43:BN:98:ILE:HA	1.81	0.61
46:BQ:15:VAL:HG23	46:BQ:39:ILE:HD12	0.62	0.61
48:BS:39:LEU:CD1	48:BS:56:LEU:HD13	2.30	0.61
34:BA:127:G:HO2'	50:BU:2:PRO:N	1.98	0.61
52:BW:4:SER:N	52:BW:5:LEU:HB3	2.16	0.61
57:BZ:11:ILE:CG2	57:BZ:112:VAL:HG11	2.17	0.61
45:BP:106:ASP:CA	57:BZ:329:ARG:CZ	2.54	0.61
1:AA:883:G:C6	1:AA:884:C:C5	2.87	0.61
1:AA:1588:C:H2'	1:AA:1589:C:H6	1.65	0.61
34:BA:1011:G:N2	34:BA:1019:C:H1'	2.15	0.61
1:AA:80:G:H1'	1:AA:347:A:N6	2.14	0.61
23:AY:65:GLN:N	23:AY:65:GLN:HE21	1.99	0.61
1:AA:1022:G:C5	1:AA:1139:G:C6	2.89	0.61
1:AA:1034:G:C6	1:AA:1122:G:O6	2.52	0.61
1:AA:1341:U:H5''	1:AA:1342:A:N7	2.15	0.61
1:AA:1726:G:C6	1:AA:1727:U:O4	2.53	0.61
1:AA:1775:U:OP2	1:AA:1776:G:OP2	2.18	0.61
1:AA:1912:A:N6	1:AA:1919:A:C4	2.68	0.61
1:AA:1931:U:H2'	1:AA:1932:A:H8	1.65	0.61
1:AA:1942:C:OP2	1:AA:1943:U:H3'	2.01	0.61
1:AA:2091:U:H2'	1:AA:2092:U:C5'	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2254:C:O2'	1:AA:2255:G:H5'	2.00	0.61
1:AA:2447:G:O3'	1:AA:2499:C:OP1	2.18	0.61
1:AA:2519:U:O2	1:AA:2522:U:O4	2.18	0.61
1:AA:2523:G:H1'	1:AA:2765:A:N7	2.13	0.61
1:AA:2528:U:HO2'	1:AA:2529:G:H8	1.46	0.61
1:AA:2696:U:C2'	1:AA:2697:G:O5'	2.48	0.61
1:AA:2695:C:H2'	1:AA:2696:U:H5	1.63	0.61
1:AA:270(U):C:H2'	1:AA:270(V):G:H1'	1.82	0.61
1:AA:2733:A:C8	1:AA:2734:A:C8	2.88	0.61
1:AA:2781:A:H2'	1:AA:2782:G:C2'	2.29	0.61
1:AA:7:G:H1	1:AA:2896:C:H2'	1.63	0.61
1:AA:293:U:H2'	1:AA:294:A:H8	1.65	0.61
1:AA:343:C:C2'	1:AA:344:G:C5'	2.75	0.61
1:AA:439:G:H2'	1:AA:440:G:H8	1.64	0.61
1:AA:440:G:H2'	1:AA:441:U:C6	2.36	0.61
1:AA:18:C:O2	1:AA:553:U:H5''	2.01	0.61
1:AA:603:A:N6	1:AA:625:G:N7	2.48	0.61
1:AA:638:G:H2'	1:AA:639:U:H5'	1.81	0.61
1:AA:684:G:H5''	1:AA:684:G:H8	1.65	0.61
1:AA:76:C:C6	1:AA:76:C:O5'	2.53	0.61
1:AA:6:A:O2'	1:AA:7:G:H5'	1.99	0.61
1:AA:845:G:H5''	1:AA:846:C:OP1	2.00	0.61
1:AA:861:A:N7	1:AA:917:A:H2	1.97	0.61
1:AA:976:C:N4	1:AA:988:A:N3	2.48	0.61
3:AC:122:ALA:CA	3:AC:126:LYS:HD3	2.30	0.61
3:AC:100:ILE:CG2	3:AC:127:LEU:HG	2.18	0.61
3:AC:108:MET:HE3	3:AC:131:LEU:HA	1.81	0.61
3:AC:161:ILE:O	3:AC:161:ILE:HG13	2.01	0.61
3:AC:71:GLN:HG3	3:AC:72:VAL:N	2.13	0.61
4:AD:176:ARG:N	4:AD:182:LEU:HD23	2.15	0.61
4:AD:159:ALA:C	4:AD:196:VAL:HG11	2.20	0.61
1:AA:1824:G:OP1	4:AD:53:PHE:CE2	2.54	0.61
4:AD:8:PRO:O	4:AD:25:THR:HG23	2.00	0.61
5:AE:113:PHE:N	5:AE:113:PHE:CD1	2.69	0.61
5:AE:14:ILE:HG22	5:AE:19:ARG:HA	1.82	0.61
6:AF:185:ASP:O	6:AF:188:ARG:HG3	2.01	0.61
1:AA:801:G:OP1	6:AF:57:VAL:N	2.34	0.61
6:AF:95:ARG:CZ	6:AF:96:ASP:O	2.49	0.61
7:AG:125:PHE:HD2	7:AG:129:GLY:N	1.98	0.61
8:AH:13:LYS:HG3	8:AH:15:VAL:N	2.14	0.61
32:AJ:12:LEU:CD1	32:AJ:41:PHE:CE1	2.67	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:23:VAL:CG1	32:AJ:37:PHE:CB	2.75	0.61
9:AK:123:TYR:C	9:AK:125:GLY:H	2.02	0.61
9:AK:14:VAL:HG13	9:AK:138:LEU:CB	2.21	0.61
10:AL:12:ASP:H	10:AL:14:THR:HG22	1.63	0.61
10:AL:24:VAL:CG1	10:AL:32:TYR:H	2.13	0.61
10:AL:4:PRO:CG	10:AL:5:GLN:N	2.51	0.61
11:AM:121:LYS:N	11:AM:122:PRO:CD	2.62	0.61
11:AM:28:GLY:C	11:AM:29:LYS:HG3	2.19	0.61
1:AA:2393:A:C5'	11:AM:56:SER:N	2.63	0.61
12:AN:116:GLU:O	12:AN:119:ARG:HB2	2.00	0.61
1:AA:873:G:H5'	12:AN:66:ILE:HD11	1.82	0.61
12:AN:7:MET:O	12:AN:70:PRO:HD2	1.99	0.61
13:AO:51:LEU:HG	13:AO:66:VAL:CG1	2.30	0.61
13:AO:96:ARG:O	13:AO:114:VAL:HG13	2.01	0.61
14:AP:49:VAL:HG13	14:AP:76:LYS:HZ1	1.65	0.61
15:AQ:112:ARG:HH22	34:BA:1464:G:H3'	1.64	0.61
15:AQ:27:THR:O	15:AQ:52:ILE:HD12	2.00	0.61
1:AA:995:C:H1'	16:AR:57:PHE:CZ	2.35	0.61
18:AT:74:ALA:HB1	18:AT:105:VAL:HA	1.81	0.61
21:AW:39:VAL:HG13	21:AW:44:PHE:CE2	2.34	0.61
22:AX:68:GLU:CD	22:AX:82:ARG:HB2	2.21	0.61
24:AZ:15:TYR:HD1	24:AZ:15:TYR:N	1.98	0.61
24:AZ:6:VAL:HG23	24:AZ:35:ARG:CG	2.14	0.61
34:BA:1164:G:H2'	34:BA:1165:C:H5'	1.82	0.61
34:BA:129(A):G:H2'	34:BA:189:U:C5	2.36	0.61
34:BA:254:G:H2'	34:BA:255:G:H8	1.63	0.61
34:BA:383:A:H2'	34:BA:384:G:O4'	2.00	0.61
34:BA:5:U:C4	37:BH:86:LYS:HD3	2.35	0.61
34:BA:869:G:H4'	34:BA:872:A:C8	2.34	0.61
34:BA:96:G:H2'	34:BA:97:U:H6	1.63	0.61
36:BG:36:ASP:OD2	36:BG:40:ARG:NH1	2.34	0.61
37:BH:15:GLU:OE2	37:BH:63:LYS:HB3	2.00	0.61
38:BI:127:ASN:O	38:BI:128:PRO:C	2.39	0.61
38:BI:18:ARG:H	38:BI:26:PHE:HB3	1.65	0.61
38:BI:77:PRO:O	38:BI:93:PRO:HG3	2.01	0.61
39:BJ:36:ARG:HB3	39:BJ:36:ARG:CZ	2.28	0.61
39:BJ:78:GLU:HA	39:BJ:81:ILE:CD1	2.31	0.61
41:BL:40:ALA:HA	41:BL:45:ILE:HG23	1.81	0.61
41:BL:8:ASP:OD2	41:BL:12:ARG:HD2	2.00	0.61
42:BM:38:GLN:C	42:BM:40:LEU:N	2.53	0.61
42:BM:26:VAL:HG22	42:BM:61:ALA:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1358:U:H5'	47:BR:34:TYR:HA	1.83	0.61
48:BS:71:GLN:O	48:BS:75:PRO:HD3	2.01	0.61
34:BA:375:U:O2'	49:BT:6:LEU:CD2	2.48	0.61
34:BA:376:G:OP1	49:BT:6:LEU:HD13	2.00	0.61
50:BU:25:ARG:HH21	50:BU:40:LYS:CD	1.99	0.61
50:BU:50:LYS:HD2	50:BU:51:TYR:CZ	2.35	0.61
51:BV:53:ARG:HD3	51:BV:63:GLN:NE2	2.16	0.61
47:BR:16:PHE:CZ	52:BW:14:HIS:CD2	2.87	0.61
57:BZ:234:ASN:CG	57:BZ:247:ARG:CB	2.66	0.61
57:BZ:304:GLU:N	57:BZ:346:ARG:NH2	2.49	0.61
57:BZ:77:GLY:HA2	57:BZ:78:HIS:CB	2.30	0.61
1:AA:1075:C:H3'	1:AA:1075:C:P	2.41	0.61
1:AA:1081:U:C5'	32:AJ:125:ARG:CG	2.54	0.61
1:AA:1287:A:C8	13:AO:104:ARG:NH1	2.69	0.61
1:AA:1431:U:C2'	1:AA:1432:C:H5'	2.30	0.61
1:AA:1943:U:H4'	1:AA:1944:U:H5'	1.82	0.61
1:AA:1993:U:C2	1:AA:1994:C:C5	2.88	0.61
1:AA:2173:A:N1	3:AC:219:GLY:HA2	2.14	0.61
1:AA:2362:G:C2'	1:AA:2363:C:H5'	2.30	0.61
1:AA:2469:A:C2	1:AA:2482:G:C1'	2.83	0.61
1:AA:200:U:O4	1:AA:248:G:N7	2.33	0.61
1:AA:2439:A:H8	1:AA:2586:C:H4'	1.61	0.61
1:AA:2653:U:O4	1:AA:2668:G:N2	2.20	0.61
1:AA:2761:G:O2'	1:AA:2762:G:H5'	2.00	0.61
1:AA:324:A:N1	1:AA:325:G:N3	2.49	0.61
1:AA:35:G:O4'	1:AA:454:A:H1'	1.99	0.61
1:AA:570:G:H22	1:AA:2498:C:C1'	2.12	0.61
1:AA:572:A:H2'	1:AA:573:G:C1'	2.31	0.61
1:AA:619:G:H8	1:AA:619:G:H3'	1.64	0.61
1:AA:820:A:O2'	1:AA:836:G:N2	2.34	0.61
2:AB:71:C:C3'	2:AB:72:G:H5'	2.31	0.61
3:AC:193:ILE:HG22	3:AC:197:GLU:OE1	2.01	0.61
5:AE:13:ARG:CZ	5:AE:20:ALA:CB	2.79	0.61
5:AE:149:ARG:C	5:AE:149:ARG:HD3	2.19	0.61
6:AF:122:LYS:HZ3	6:AF:122:LYS:CA	2.09	0.61
6:AF:113:ALA:HB1	6:AF:187:VAL:CG1	2.30	0.61
1:AA:2303:G:O2'	7:AG:132:ASN:CG	2.39	0.61
7:AG:55:LYS:HE2	7:AG:151:ALA:CB	2.29	0.61
8:AH:37:VAL:CG2	8:AH:37:VAL:O	2.47	0.61
1:AA:1035:U:O3'	8:AH:59:ARG:NH2	2.27	0.61
9:AK:17:ASP:O	9:AK:18:ALA:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:37:LYS:HD2	9:AK:43:THR:N	2.14	0.61
10:AL:21:CYS:CA	10:AL:41:ALA:HB2	2.31	0.61
11:AM:96:THR:O	11:AM:102:ARG:HD3	2.00	0.61
13:AO:97:VAL:HG22	13:AO:114:VAL:CG1	2.30	0.61
15:AQ:99:LEU:O	15:AQ:100:TYR:O	2.19	0.61
9:AK:42:TRP:HE1	16:AR:64:ARG:HG2	1.64	0.61
1:AA:566:U:C5'	17:AS:82:ARG:NH2	2.64	0.61
18:AT:47:VAL:C	18:AT:51:LEU:HD13	2.21	0.61
20:AV:95:LYS:HG3	20:AV:103:GLY:HA2	1.80	0.61
1:AA:338:G:OP1	20:AV:2:ARG:CZ	2.48	0.61
21:AW:127:LYS:CE	21:AW:165:VAL:HB	2.31	0.61
21:AW:151:HIS:N	21:AW:151:HIS:ND1	2.48	0.61
21:AW:1:MET:HE3	21:AW:3:TYR:CD2	2.35	0.61
21:AW:19:ARG:NH2	21:AW:84:GLU:O	2.33	0.61
23:AY:27:LEU:HD21	23:AY:48:LEU:C	2.21	0.61
34:BA:1001:G:H8	34:BA:1001:G:H5'	1.65	0.61
34:BA:1044:A:H2'	34:BA:1045:C:C5'	2.30	0.61
34:BA:1109:C:H2'	34:BA:1110:A:O4'	2.01	0.61
34:BA:1227:A:C5'	52:BW:81:ARG:NE	2.62	0.61
34:BA:1313:U:O4	34:BA:1325:C:N3	2.33	0.61
34:BA:17:U:O2'	34:BA:18:C:H5'	2.01	0.61
34:BA:191(C):G:H8	34:BA:191(C):G:O5'	1.84	0.61
34:BA:227:G:H2'	34:BA:228:A:C8	2.36	0.61
34:BA:520:A:N6	34:BA:529:G:C2	2.67	0.61
34:BA:594:G:H3'	34:BA:595:G:O4'	2.01	0.61
34:BA:782:A:C6	34:BA:801:U:C2	2.88	0.61
34:BA:789:U:C6	34:BA:789:U:H3'	2.36	0.61
35:BF:115:LEU:HD12	35:BF:118:LEU:CD1	2.28	0.61
35:BF:162:ILE:N	35:BF:162:ILE:HD13	2.14	0.61
35:BF:82:ARG:HD2	35:BF:92:TYR:HH	1.66	0.61
36:BG:48:TYR:CA	36:BG:52:LEU:HD22	2.30	0.61
37:BH:146:ILE:H	37:BH:146:ILE:HD12	1.65	0.61
38:BI:15:ARG:CZ	38:BI:26:PHE:CE2	2.83	0.61
39:BJ:44:GLY:HA2	39:BJ:59:TYR:CZ	2.34	0.61
39:BJ:68:PRO:HB2	39:BJ:71:ARG:HG2	1.80	0.61
41:BL:32:LYS:CG	41:BL:33:GLU:N	2.61	0.61
43:BN:79:ARG:NH2	43:BN:82:ILE:HD12	2.13	0.61
44:BO:104:GLN:HE22	44:BO:106:LYS:HB2	1.65	0.61
50:BU:104:LYS:HD3	50:BU:105:ALA:HB3	1.82	0.61
50:BU:81:ARG:HG2	50:BU:84:LEU:HD21	1.83	0.61
57:BZ:122:LYS:CE	57:BZ:155:ASP:C	2.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:170:GLY:N	57:BZ:171:ILE:HD13	2.16	0.61
57:BZ:172:ALA:HB1	57:BZ:179:MET:CE	2.20	0.61
57:BZ:206:GLN:HB3	57:BZ:227:LYS:HB2	1.80	0.61
57:BZ:5:LEU:CD1	57:BZ:268:ALA:CB	2.70	0.61
57:BZ:309:MET:SD	57:BZ:366:LEU:HB3	2.40	0.61
57:BZ:310:PHE:CA	57:BZ:385:PRO:CG	2.72	0.61
57:BZ:580:VAL:CB	57:BZ:585:ILE:HD13	2.30	0.61
1:AA:1510:A:H3'	1:AA:1511:A:C5	2.36	0.61
41:BL:53:VAL:HG12	41:BL:54:ASP:OD1	2.00	0.61
1:AA:1563:G:H2'	1:AA:1564:C:H6	1.64	0.61
1:AA:1022:G:O2'	1:AA:1023:U:P	2.59	0.61
1:AA:1065:U:H2'	1:AA:1066:U:H5''	1.81	0.61
1:AA:1079:C:OP1	32:AJ:137:GLU:CB	2.48	0.61
1:AA:1226:G:C8	1:AA:1226:G:H3'	2.34	0.61
1:AA:1303:G:C8	1:AA:1304:C:C5	2.88	0.61
1:AA:1355:G:C2	1:AA:1377:G:N3	2.68	0.61
1:AA:1419:A:N7	1:AA:1421:G:C6	2.68	0.61
1:AA:1742:C:C4	1:AA:1743:G:C8	2.88	0.61
1:AA:1764:G:O2'	1:AA:1765:C:C5'	2.45	0.61
1:AA:2439:A:H4'	1:AA:2440:C:H5''	1.82	0.61
1:AA:2063:C:C2	1:AA:2450:A:N6	2.66	0.61
1:AA:2459:A:N3	1:AA:2460:U:O2'	2.28	0.61
1:AA:252:G:N7	5:AE:8:LYS:HE3	115.78	0.61
1:AA:2550:G:N2	1:AA:2559:C:C2	2.69	0.61
1:AA:2661:G:H2'	1:AA:2662:A:C8	2.35	0.61
1:AA:269:U:H3'	1:AA:270(Y):G:O2'	2.00	0.61
1:AA:270(L):U:H2'	1:AA:270(L):U:O2	1.98	0.61
1:AA:445:C:O3'	16:AR:3:ARG:HG2	1.99	0.61
1:AA:64:A:C2'	1:AA:65:C:C5'	2.79	0.61
1:AA:6:A:C5	1:AA:2898:U:C4	2.51	0.61
1:AA:804:A:C5'	1:AA:805:G:OP1	2.48	0.61
1:AA:969:U:O2'	1:AA:970:C:H5'	2.01	0.61
3:AC:43:VAL:HG13	3:AC:224:ILE:CG1	2.29	0.61
4:AD:258:LYS:HA	4:AD:261:LYS:HD2	1.83	0.61
5:AE:133:LYS:O	5:AE:137:HIS:CE1	2.54	0.61
6:AF:74:ARG:CD	6:AF:75:HIS:H	2.12	0.61
6:AF:99:TYR:O	6:AF:101:LEU:N	2.33	0.61
7:AG:13:GLU:O	7:AG:17:PRO:HD2	2.01	0.61
7:AG:79:ASN:OD1	7:AG:82:LEU:HG	2.01	0.61
8:AH:153:LYS:N	8:AH:154:PRO:CD	2.57	0.61
32:AJ:51:ALA:C	32:AJ:72:PRO:CB	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:55:VAL:HG13	9:AK:56:ASN:N	2.13	0.61
9:AK:68:GLU:H	9:AK:70:LYS:CE	2.14	0.61
9:AK:76:SER:C	9:AK:78:TYR:N	2.53	0.61
10:AL:106:LEU:C	10:AL:106:LEU:HD12	2.19	0.61
10:AL:31:LYS:HB3	10:AL:32:TYR:CZ	2.36	0.61
10:AL:3:GLN:O	10:AL:3:GLN:OE1	2.19	0.61
11:AM:52:GLU:O	11:AM:55:ARG:N	2.34	0.61
11:AM:91:PHE:CD2	11:AM:96:THR:HG22	2.36	0.61
12:AN:45:GLN:HA	12:AN:48:GLU:CG	2.30	0.61
12:AN:6:ARG:HE	12:AN:8:LYS:CG	2.14	0.61
13:AO:73:VAL:HA	13:AO:76:VAL:HB	1.81	0.61
15:AQ:1:MET:CG	15:AQ:2:ASN:N	2.64	0.61
16:AR:111:GLU:HG3	16:AR:112:ARG:N	2.16	0.61
19:AU:8:ILE:HD11	19:AU:42:ALA:CB	2.30	0.61
21:AW:116:VAL:HG21	21:AW:145:GLU:CG	2.30	0.61
21:AW:73:GLN:O	21:AW:87:ASP:CB	2.48	0.61
22:AX:19:LYS:O	22:AX:20:ARG:NH1	2.33	0.61
22:AX:50:ASN:HB3	22:AX:63:VAL:HG22	1.82	0.61
24:AZ:26:LEU:HG	24:AZ:35:ARG:HH11	1.64	0.61
34:BA:1005:A:C3'	34:BA:1006:C:H6	2.09	0.61
34:BA:109:A:O2'	34:BA:110:C:OP1	2.19	0.61
34:BA:1137:C:H4'	34:BA:1138:G:N1	2.15	0.61
34:BA:1124:G:N7	34:BA:1145:C:H2'	2.15	0.61
34:BA:1227:A:H5'	52:BW:81:ARG:NE	2.08	0.61
34:BA:254:G:C6	34:BA:273:A:N6	2.69	0.61
34:BA:314:C:H2'	34:BA:315:A:C1'	2.31	0.61
34:BA:354:G:N2	34:BA:355:C:C2	2.69	0.61
34:BA:373:A:O2'	34:BA:374:A:H5'	1.99	0.61
34:BA:37:U:P	45:BP:123:LYS:HD2	2.40	0.61
34:BA:434:U:H2'	34:BA:435:C:C6	2.35	0.61
34:BA:544:G:H2'	34:BA:545:C:H6	1.64	0.61
34:BA:594:G:C5	34:BA:595:G:N3	2.69	0.61
34:BA:938:A:C4	34:BA:939:G:C8	2.89	0.61
56:BE:2:C:C5	56:BE:71:G:C5	2.75	0.61
35:BF:182:ILE:H	35:BF:182:ILE:HD13	1.66	0.61
35:BF:35:GLU:C	35:BF:35:GLU:CD	2.59	0.61
35:BF:69:LEU:CD2	35:BF:91:PRO:HB3	2.30	0.61
36:BG:84:ILE:HG13	36:BG:101:LEU:CD2	2.31	0.61
37:BH:54:TYR:O	37:BH:55:ALA:C	2.39	0.61
37:BH:59:ARG:C	37:BH:63:LYS:NZ	2.53	0.61
37:BH:87:GLY:O	37:BH:89:THR:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:9:G:H3'	38:BI:126:ARG:HH11	1.66	0.61
39:BJ:89:MET:CE	51:BV:76:LEU:HD21	2.31	0.61
39:BJ:95:GLU:H	39:BJ:96:PRO:HD2	1.64	0.61
40:BK:22:LEU:HB3	40:BK:62:PHE:HE2	1.65	0.61
41:BL:12:ARG:HH11	41:BL:27:PRO:CD	2.05	0.61
42:BM:117:HIS:C	42:BM:119:ALA:H	2.04	0.61
42:BM:45:ALA:O	42:BM:78:LYS:HG3	2.01	0.61
46:BQ:100:GLY:HA3	46:BQ:101:GLN:CG	2.22	0.61
46:BQ:81:LEU:C	46:BQ:81:LEU:HD22	2.19	0.61
46:BQ:81:LEU:CD1	46:BQ:81:LEU:H	2.13	0.61
48:BS:43:LEU:HD11	48:BS:56:LEU:CD2	2.31	0.61
48:BS:6:GLU:O	48:BS:7:GLU:C	2.39	0.61
51:BV:20:ALA:HB1	51:BV:55:ARG:HH21	1.65	0.61
52:BW:40:ILE:O	52:BW:41:VAL:HG13	2.00	0.61
52:BW:40:ILE:HD12	52:BW:74:PHE:CE2	2.35	0.61
53:BX:31:SER:OG	53:BX:32:ALA:N	2.26	0.61
57:BZ:172:ALA:HA	57:BZ:179:MET:HE1	1.79	0.61
57:BZ:18:LYS:NZ	57:BZ:50:LYS:HA	2.15	0.61
57:BZ:400:TYR:HE1	57:BZ:444:PRO:HD3	1.58	0.61
57:BZ:400:TYR:HB3	57:BZ:442:VAL:HG12	0.62	0.61
57:BZ:455:PHE:CZ	57:BZ:465:LEU:CD2	2.83	0.61
57:BZ:398:GLU:N	57:BZ:473:ASP:H	1.99	0.61
57:BZ:54:ILE:CG1	57:BZ:211:GLN:NE2	2.55	0.61
57:BZ:496:ALA:HB2	57:BZ:513:GLY:O	1.96	0.61
34:BA:131:C:N4	34:BA:232:G:N1	2.48	0.61
1:AA:2103:C:C2	1:AA:2104:G:N7	2.68	0.61
34:BA:1381:U:H2'	34:BA:1382:C:H5'	1.81	0.61
9:AK:140:VAL:OXT	9:AK:140:VAL:HG12	2.00	0.61
1:AA:1024:G:O6	1:AA:1138:G:O6	2.18	0.61
1:AA:1155:A:C2'	1:AA:1156:A:C5'	2.75	0.61
1:AA:990:A:N6	1:AA:1186:G:H1'	2.16	0.61
1:AA:123:G:H2'	1:AA:124:G:C8	2.36	0.61
1:AA:1463:C:C2'	1:AA:1464:C:O5'	2.47	0.61
1:AA:1572:A:P	1:AA:1572:A:O4'	2.59	0.61
1:AA:1598:C:H5''	19:AU:36:LYS:CB	2.19	0.61
1:AA:1603:A:OP1	1:AA:1604:C:OP2	2.19	0.61
1:AA:1613:G:H2'	1:AA:1617:C:H42	1.63	0.61
1:AA:1783:A:OP2	1:AA:1783:A:H8	1.84	0.61
1:AA:1784:A:H1'	1:AA:1785:A:N7	2.16	0.61
1:AA:1795:C:O2'	1:AA:1796:U:H5'	2.01	0.61
1:AA:1823:G:C2	1:AA:1824:G:C8	2.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1853:A:H1'	1:AA:2234:G:H5'	1.82	0.61
1:AA:2004:G:C8	1:AA:2005:A:N7	2.69	0.61
1:AA:2210:G:N7	4:AD:150:LYS:O	2.33	0.61
1:AA:2373:G:H8	1:AA:2373:G:OP2	1.84	0.61
1:AA:2587:A:HO2'	1:AA:2588:G:H5'	1.65	0.61
1:AA:2637:U:O2'	1:AA:2638:G:O4'	2.19	0.61
1:AA:2713:A:C8	1:AA:2713:A:P	2.94	0.61
1:AA:2723:C:HO2'	13:AO:2:ARG:N	1.98	0.61
1:AA:2770:G:H2'	1:AA:2771:C:H5'	1.82	0.61
1:AA:2831:G:O4'	1:AA:2883:A:C2	2.53	0.61
1:AA:324:A:N3	1:AA:324:A:H2'	2.16	0.61
1:AA:447:A:C6	1:AA:454:A:N7	2.69	0.61
1:AA:503:A:H4'	1:AA:504:U:O5'	2.01	0.61
1:AA:519:U:H6	1:AA:519:U:C5'	2.06	0.61
1:AA:559:G:C2'	1:AA:560:C:H6	2.04	0.61
1:AA:566:U:OP1	1:AA:1253:A:N1	2.34	0.61
1:AA:648:G:C4	1:AA:649:G:N7	2.69	0.61
1:AA:716:A:H2'	1:AA:717:G:C5'	2.28	0.61
2:AB:104:A:N6	2:AB:105:G:H21	1.98	0.61
2:AB:73:A:N1	21:AW:29:TYR:CE1	2.69	0.61
3:AC:97:GLU:OE1	3:AC:122:ALA:HB2	2.01	0.61
3:AC:61:THR:HG21	3:AC:160:ARG:NH2	2.16	0.61
4:AD:259:THR:CG2	4:AD:260:ARG:HH12	2.13	0.61
1:AA:1654:A:HO2'	5:AE:113:PHE:HD1	1.48	0.61
5:AE:147:PRO:CG	5:AE:149:ARG:CD	2.77	0.61
1:AA:2620:C:H4'	5:AE:156:MET:HB2	1.80	0.61
6:AF:11:VAL:HG23	6:AF:17:ARG:NH2	2.15	0.61
6:AF:183:VAL:CA	6:AF:186:ILE:HD12	2.25	0.61
6:AF:34:TRP:O	6:AF:37:VAL:HB	1.99	0.61
7:AG:149:VAL:HG13	7:AG:150:ASP:H	1.66	0.61
7:AG:1:MET:C	7:AG:3:LEU:N	2.53	0.61
32:AJ:12:LEU:HD21	32:AJ:23:VAL:HG22	1.83	0.61
9:AK:48:MET:C	9:AK:50:ASP:H	2.02	0.61
9:AK:54:VAL:HG12	9:AK:122:VAL:CG1	2.30	0.61
10:AL:63:VAL:HG23	10:AL:64:ARG:N	2.14	0.61
11:AM:135:LEU:HD12	11:AM:135:LEU:H	1.65	0.61
11:AM:46:LYS:CB	11:AM:49:ARG:HB2	2.20	0.61
13:AO:63:ARG:O	13:AO:64:ARG:C	2.39	0.61
13:AO:83:ILE:CA	13:AO:86:ARG:HG3	2.21	0.61
14:AP:57:LYS:NZ	14:AP:62:LYS:HB3	2.16	0.61
14:AP:76:LYS:O	14:AP:80:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:63:VAL:O	15:AQ:63:VAL:HG13	1.99	0.61
1:AA:445:C:C3'	16:AR:3:ARG:HE	2.07	0.61
18:AT:24:ILE:HG23	18:AT:35:ILE:HG23	1.82	0.61
19:AU:29:TRP:CE3	19:AU:76:ARG:HG3	2.36	0.61
19:AU:27:THR:HB	19:AU:80:ILE:CD1	2.26	0.61
21:AW:18:LEU:HD22	21:AW:23:LYS:CD	2.31	0.61
21:AW:95:PRO:HB2	21:AW:130:PRO:HA	1.83	0.61
34:BA:1208:C:H2'	34:BA:1209:C:C6	2.33	0.61
34:BA:1438:G:C2'	34:BA:1439:C:H5'	2.30	0.61
34:BA:129(A):G:N2	34:BA:191(A):G:C4	2.69	0.61
34:BA:558:G:C5'	34:BA:559:A:H5''	2.31	0.61
34:BA:730:G:H2'	34:BA:731:G:C5'	2.30	0.61
34:BA:815:A:C2	34:BA:1529:G:C2	2.89	0.61
35:BF:10:LEU:HD23	35:BF:11:LEU:HD21	1.81	0.61
35:BF:132:LYS:HA	35:BF:135:GLN:OE1	2.01	0.61
35:BF:58:ILE:O	35:BF:61:LEU:HB3	2.01	0.61
36:BG:24:ALA:HB3	36:BG:29:TYR:HB2	1.81	0.61
37:BH:35:ARG:O	37:BH:37:PRO:CD	2.49	0.61
37:BH:57:ARG:HH22	38:BI:107:ARG:CD	2.13	0.61
38:BI:91:LEU:HD12	38:BI:118:ILE:CG2	2.31	0.61
39:BJ:14:LEU:HD13	39:BJ:15:ASP:N	2.13	0.61
39:BJ:46:ARG:HH22	51:BV:37:VAL:HG22	1.64	0.61
40:BK:6:ARG:HA	40:BK:6:ARG:NH1	2.16	0.61
42:BM:66:ARG:HG2	42:BM:67:GLY:N	2.15	0.61
34:BA:949:A:OP1	46:BQ:101:GLN:HB3	2.01	0.61
51:BV:46:GLU:HB3	51:BV:85:LEU:CD1	2.24	0.61
52:BW:38:SER:HB3	52:BW:71:LEU:CG	2.29	0.61
54:BY:11:GLY:O	54:BY:15:ARG:HG2	1.99	0.61
57:BZ:207:MET:HE3	57:BZ:224:GLY:N	2.16	0.61
57:BZ:13:HIS:HA	57:BZ:77:GLY:C	2.20	0.61
56:BD:66:U:H2'	56:BD:67:C:C5	2.36	0.61
1:AA:1038:C:O3'	1:AA:1039:G:C3'	2.44	0.61
34:BA:1017:G:O2'	34:BA:1018:C:H5'	2.01	0.61
1:AA:1075:C:O2'	32:AJ:90:LYS:CD	2.48	0.61
1:AA:1203:G:C2	1:AA:1241:A:H8	2.18	0.61
1:AA:1451:C:H2'	1:AA:1457:A:H61	1.65	0.61
1:AA:161:U:O2'	1:AA:162:U:H5	1.83	0.61
1:AA:1775:U:O2'	1:AA:1776:G:C5'	2.47	0.61
1:AA:1363:C:H4'	1:AA:1809:A:N7	2.15	0.61
1:AA:1937:A:N6	1:AA:1939:U:O4	2.25	0.61
1:AA:1995:U:H5'	1:AA:1996:C:H5'	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2271:G:O5'	1:AA:2271:G:H8	1.84	0.61
1:AA:2278:A:N7	22:AX:14:ARG:HG3	2.15	0.61
1:AA:2408:U:O2	1:AA:2409:G:C8	2.54	0.61
1:AA:2458:G:H2'	1:AA:2460:U:C4	2.34	0.61
1:AA:273:G:H2'	1:AA:273(A):G:H8	1.66	0.61
1:AA:279:C:H2'	1:AA:280:C:C6	2.36	0.61
1:AA:2838:G:O2'	13:AO:45:ARG:NH1	2.34	0.61
1:AA:539:G:H2'	1:AA:540:G:H8	1.66	0.61
1:AA:551:G:H5'	1:AA:552:G:OP2	2.00	0.61
1:AA:565:C:O2'	1:AA:1252:G:N7	2.33	0.61
1:AA:684:G:C2'	1:AA:687:C:N4	2.55	0.61
1:AA:712:G:C5	1:AA:713:G:N7	2.68	0.61
1:AA:962:G:C2'	1:AA:963:U:H6	2.11	0.61
2:AB:6:C:H5'	2:AB:27:C:O2'	2.01	0.61
2:AB:3:C:H2'	2:AB:4:C:C6	2.36	0.61
2:AB:75:G:C2	21:AW:27:VAL:HG21	2.35	0.61
2:AB:99:A:C2	2:AB:100:G:C4	2.88	0.61
3:AC:213:TYR:CD1	3:AC:213:TYR:N	2.63	0.61
3:AC:66:HIS:C	3:AC:158:ALA:O	2.39	0.61
4:AD:127:VAL:CA	4:AD:193:VAL:HG12	2.17	0.61
1:AA:772:C:H4'	4:AD:48:ARG:HD3	1.83	0.61
7:AG:36:LYS:HZ3	7:AG:38:VAL:HG22	1.65	0.61
7:AG:55:LYS:CG	7:AG:148:MET:HB2	2.30	0.61
7:AG:75:LYS:HZ3	7:AG:85:GLY:HA3	1.65	0.61
8:AH:68:THR:HG22	8:AH:72:ILE:CD1	2.30	0.61
32:AJ:22:PRO:HD2	32:AJ:23:VAL:H	1.66	0.61
9:AK:23:LEU:HD12	9:AK:63:THR:H	1.60	0.61
10:AL:103:ALA:O	10:AL:104:ARG:C	2.39	0.61
10:AL:24:VAL:HG11	10:AL:32:TYR:H	1.66	0.61
6:AF:34:TRP:CH2	11:AM:8:PRO:HD2	2.36	0.61
12:AN:34:LEU:CG	12:AN:67:ARG:HH22	2.13	0.61
12:AN:93:TYR:C	12:AN:94:VAL:CG1	2.69	0.61
13:AO:63:ARG:NH1	13:AO:80:PHE:CD2	2.67	0.61
14:AP:31:SER:HB3	14:AP:34:HIS:HB3	1.81	0.61
15:AQ:28:VAL:HG12	15:AQ:30:VAL:HG12	1.81	0.61
16:AR:98:LEU:CB	16:AR:105:VAL:HG11	2.31	0.61
16:AR:95:LEU:N	16:AR:95:LEU:HD23	2.13	0.61
16:AR:88:ILE:HB	17:AS:52:VAL:HG13	1.83	0.61
18:AT:72:LYS:O	18:AT:106:ILE:CG2	2.49	0.61
18:AT:59:VAL:CG2	18:AT:66:GLU:HB2	2.30	0.61
20:AV:23:ARG:CD	20:AV:39:VAL:HG22	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AX:38:VAL:HG12	22:AX:45:PHE:CE1	2.36	0.61
23:AY:44:LYS:HG3	23:AY:48:LEU:CD2	2.28	0.61
23:AY:59:LEU:HD11	23:AY:63:ARG:CD	2.31	0.61
34:BA:1193:G:H2'	34:BA:1194:U:O5'	1.99	0.61
34:BA:1061:G:C2	34:BA:1197:G:C2	2.88	0.61
34:BA:1318:A:C8	52:BW:37:ARG:CB	2.84	0.61
34:BA:1317:C:H2'	34:BA:1318:A:O4'	2.00	0.61
34:BA:1429:C:H2'	34:BA:1430:C:C6	2.36	0.61
34:BA:1435:G:H2'	34:BA:1436:U:C5	2.35	0.61
34:BA:186:C:H2'	34:BA:186(A):C:H6	1.66	0.61
34:BA:265:G:C2'	34:BA:267:C:H5	2.10	0.61
34:BA:377:G:OP1	49:BT:5:ARG:HD3	2.00	0.61
34:BA:59:A:O2'	34:BA:388:G:H5''	2.00	0.61
34:BA:406:G:H21	37:BH:119:GLN:HE22	1.48	0.61
34:BA:671:G:H2'	34:BA:672:U:O4'	1.99	0.61
35:BF:19:HIS:HB3	35:BF:189:ASP:OD2	2.00	0.61
35:BF:211:ILE:HG22	35:BF:212:GLN:N	2.14	0.61
36:BG:11:ARG:HG3	36:BG:16:ARG:NE	2.15	0.61
36:BG:91:LEU:CD2	36:BG:92:ALA:N	2.64	0.61
37:BH:31:CYS:SG	37:BH:33:MET:CG	2.89	0.61
37:BH:36:ARG:HB3	37:BH:38:TYR:CE2	2.35	0.61
38:BI:141:GLN:C	38:BI:142:LEU:HG	2.19	0.61
38:BI:19:MET:HE3	38:BI:20:GLN:N	2.15	0.61
34:BA:1373:G:O2'	40:BK:34:GLY:HA2	2.00	0.61
40:BK:88:PRO:CG	40:BK:152:ALA:HB2	2.29	0.61
34:BA:826:C:H5'	41:BL:12:ARG:NH2	2.15	0.61
41:BL:46:LYS:HD2	41:BL:63:LEU:O	2.01	0.61
41:BL:51:VAL:HG12	41:BL:52:ASP:N	2.16	0.61
43:BN:23:ILE:CG2	43:BN:72:VAL:HG11	2.30	0.61
43:BN:20:ALA:HB1	43:BN:37:PRO:HB3	1.83	0.61
43:BN:4:ILE:HG12	43:BN:99:LYS:O	2.00	0.61
44:BO:28:THR:HG22	44:BO:29:ILE:N	2.16	0.61
44:BO:92:GLU:O	44:BO:93:GLN:C	2.39	0.61
46:BQ:87:TYR:CZ	52:BW:75:ALA:C	2.73	0.61
51:BV:34:TYR:HD1	51:BV:35:ARG:N	1.99	0.61
52:BW:22:LEU:HD23	52:BW:22:LEU:C	2.21	0.61
34:BA:1455:G:O3'	53:BX:28:ALA:O	2.19	0.61
57:BZ:123:PRO:CD	57:BZ:156:GLU:OE1	2.42	0.61
57:BZ:239:ILE:CG1	57:BZ:244:GLY:CA	2.79	0.61
57:BZ:309:MET:HG2	57:BZ:358:VAL:HB	1.83	0.61
23:AY:2:ARG:H	23:AY:2:ARG:CZ	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:G:H1'	1:AA:1507:A:H2	1.66	0.61
55:BC:5:G:O6	55:BC:69:G:C6	2.54	0.61
1:AA:1583:A:H5'	1:AA:1585:C:OP1	2.01	0.61
1:AA:1767:C:C4	1:AA:1768:U:C5	2.89	0.61
56:BD:20:U:H2'	56:BD:21:A:H4'	1.81	0.61
1:AA:1870:C:O2	1:AA:1870:C:H2'	2.01	0.61
1:AA:1024:G:OP2	1:AA:1025:G:H3'	2.01	0.61
1:AA:1135:C:O2	1:AA:2038:G:H4'	2.00	0.61
1:AA:1207:C:H6	1:AA:1207:C:OP2	1.83	0.61
1:AA:1299:G:O4'	1:AA:1301:A:N3	2.34	0.61
1:AA:1351:C:O2'	1:AA:1571:A:C1'	2.49	0.61
1:AA:1454:U:O2	1:AA:1454:U:C2'	2.47	0.61
1:AA:1537:C:C6	1:AA:1537:C:C3'	2.84	0.61
1:AA:1650:G:O6	1:AA:2008:C:N4	2.34	0.61
1:AA:1675:C:H5	5:AE:129:HIS:NE2	1.99	0.61
1:AA:1956:U:C2'	1:AA:1957:C:H6	2.09	0.61
1:AA:1996:C:OP1	1:AA:1996:C:C6	2.54	0.61
1:AA:2245:U:O2	1:AA:2435:A:C8	2.53	0.61
1:AA:2307:G:OP2	1:AA:2307:G:H8	1.84	0.61
1:AA:230:U:O2'	1:AA:231:C:O4'	2.19	0.61
1:AA:2360:A:C8	1:AA:2361:A:C8	2.89	0.61
1:AA:2403:C:N4	1:AA:2415:G:C6	2.69	0.61
1:AA:2479:G:C2	1:AA:2480:C:H1'	2.36	0.61
1:AA:2570:G:C5'	1:AA:2571:C:OP2	2.47	0.61
1:AA:2597:G:O4'	4:AD:242:ARG:CZ	2.49	0.61
1:AA:2651:C:O2	1:AA:2670:A:C4	2.53	0.61
1:AA:270(X):G:C3'	1:AA:270(Y):G:H5'	2.31	0.61
1:AA:2777:G:H4'	1:AA:2778:A:C5'	2.31	0.61
1:AA:2807:G:C5	1:AA:2808:U:C4	2.89	0.61
1:AA:2850:A:H2	13:AO:61:HIS:CE1	2.18	0.61
1:AA:302:C:C2	1:AA:303:U:C5	2.88	0.61
1:AA:371:A:H62	1:AA:424:G:H4'	1.66	0.61
1:AA:586:A:OP1	6:AF:89:VAL:CG2	2.49	0.61
1:AA:607:U:C2'	1:AA:607:U:O2	2.48	0.61
1:AA:612:G:H4'	1:AA:616:A:N1	2.16	0.61
1:AA:602:G:N2	1:AA:655:A:H3'	2.15	0.61
1:AA:901:A:N7	1:AA:902:C:C5	2.68	0.61
2:AB:115:G:OP2	2:AB:115:G:H8	1.83	0.61
2:AB:13:A:C6	2:AB:70:C:O4'	2.54	0.61
2:AB:61:G:C2	2:AB:62:C:C4	2.89	0.61
3:AC:163:PHE:CD2	3:AC:163:PHE:N	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:34:VAL:N	4:AD:104:TYR:OH	2.34	0.61
4:AD:145:VAL:HB	4:AD:155:LEU:HD22	1.83	0.61
4:AD:229:VAL:HG13	4:AD:230:ASP:CG	2.21	0.61
4:AD:59:LYS:O	4:AD:60:ARG:HG2	2.01	0.61
5:AE:106:GLY:HA3	5:AE:196:VAL:HG22	1.82	0.61
5:AE:49:LEU:CD2	5:AE:76:ARG:N	2.64	0.61
5:AE:4:ILE:CD1	5:AE:76:ARG:NH2	2.64	0.61
7:AG:8:LYS:HE2	7:AG:100:TRP:HD1	1.65	0.61
7:AG:3:LEU:HD22	7:AG:4:ASP:CG	2.21	0.61
8:AH:103:LEU:HB3	8:AH:105:LEU:HD11	1.82	0.61
8:AH:101:ARG:CD	8:AH:117:PRO:HG3	2.30	0.61
8:AH:88:LEU:CD2	8:AH:90:LYS:HB3	2.30	0.61
32:AJ:27:LEU:HD22	32:AJ:58:THR:O	2.01	0.61
32:AJ:67:PHE:O	32:AJ:68:VAL:HG22	2.00	0.61
9:AK:75:TYR:O	9:AK:76:SER:O	2.18	0.61
1:AA:954:G:OP1	12:AN:17:LEU:HB3	2.00	0.61
12:AN:36:ALA:O	12:AN:100:GLY:HA2	2.01	0.61
12:AN:77:LYS:HG2	12:AN:87:LYS:HA	1.81	0.61
13:AO:75:LEU:O	13:AO:76:VAL:C	2.39	0.61
13:AO:93:GLY:C	13:AO:95:THR:H	2.03	0.61
15:AQ:57:PHE:HD2	15:AQ:57:PHE:N	1.98	0.61
16:AR:111:GLU:O	16:AR:114:LYS:HG2	2.01	0.61
20:AV:83:THR:O	20:AV:94:LYS:HA	2.00	0.61
21:AW:71:VAL:CG1	21:AW:74:VAL:HG23	2.30	0.61
34:BA:1005:A:C1'	34:BA:1036:G:N2	2.63	0.61
34:BA:1044:A:C2'	34:BA:1045:C:H5'	2.31	0.61
34:BA:1274:G:N2	34:BA:1275:A:N6	2.46	0.61
34:BA:1419:G:O2'	34:BA:1420:C:O4'	2.17	0.61
15:AQ:115:ARG:HD3	34:BA:1463:C:OP1	2.01	0.61
34:BA:151:A:N7	34:BA:152:A:C2	2.69	0.61
34:BA:287:U:C2'	34:BA:287:U:O2	2.46	0.61
34:BA:355:C:C1'	34:BA:388:G:H2'	2.24	0.61
34:BA:38:G:N2	34:BA:397:A:C4	2.68	0.61
34:BA:425:G:O2'	34:BA:426:G:H5'	2.00	0.61
34:BA:529:G:C6	45:BP:49:ASN:CG	2.74	0.61
34:BA:818:G:N3	34:BA:820:U:C5	2.69	0.61
35:BF:84:GLU:OE1	35:BF:216:SER:HA	2.01	0.61
35:BF:56:ARG:CZ	35:BF:56:ARG:HB3	2.29	0.61
36:BG:156:ARG:NH2	36:BG:160:ALA:O	2.34	0.61
36:BG:188:LEU:HD22	36:BG:189:ALA:H	1.64	0.61
37:BH:110:PHE:CE1	37:BH:148:VAL:HG23	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:8:A:H5'	38:BI:120:THR:O	2.00	0.61
38:BI:74:GLY:O	38:BI:75:THR:HB	2.01	0.61
40:BK:71:PRO:CD	40:BK:100:ALA:HB2	2.31	0.61
40:BK:106:GLN:NE2	40:BK:106:GLN:HA	2.14	0.61
40:BK:50:ILE:HD12	40:BK:58:PRO:HB3	1.82	0.61
41:BL:8:ASP:O	41:BL:11:THR:OG1	2.19	0.61
41:BL:97:VAL:HG22	41:BL:98:LYS:N	2.14	0.61
46:BQ:25:ILE:CG1	46:BQ:66:LEU:HD21	2.29	0.61
49:BT:19:ILE:HD12	49:BT:38:TYR:N	2.16	0.61
49:BT:59:TRP:HA	49:BT:59:TRP:CE3	2.36	0.61
50:BU:27:PHE:O	50:BU:35:VAL:HG13	2.00	0.61
57:BZ:13:HIS:HB2	57:BZ:108:GLN:CA	2.31	0.61
57:BZ:22:VAL:HG23	57:BZ:23:ASP:N	2.16	0.61
1:AA:1038:C:H4'	1:AA:1039:G:OP1	2.01	0.61
1:AA:1418:G:OP2	1:AA:1418:G:C8	2.54	0.61
37:BH:196:LEU:HD12	37:BH:196:LEU:O	2.00	0.61
24:AZ:36:VAL:O	24:AZ:36:VAL:HG23	1.99	0.61
1:AA:1062:G:O2'	1:AA:1063:G:O5'	2.19	0.61
1:AA:1083:U:H1'	1:AA:1085:A:C5	2.36	0.61
1:AA:72:U:C5	1:AA:112:U:O2	2.54	0.61
1:AA:1138:G:H2'	1:AA:1138:G:N3	2.16	0.61
1:AA:1176:G:H5''	1:AA:1177:A:C8	2.36	0.61
1:AA:128:C:H2'	1:AA:129:C:H6	1.64	0.61
1:AA:1519:G:H2'	1:AA:1520:U:O4'	2.00	0.61
1:AA:1536:A:H2'	1:AA:1537:C:C6	2.36	0.61
1:AA:161:U:C2	1:AA:164:U:N3	2.64	0.61
1:AA:1786:A:H4'	1:AA:1938:A:N6	2.10	0.61
1:AA:1954:G:H2'	1:AA:1956:U:C4	2.36	0.61
1:AA:1972:A:H2'	1:AA:1973:G:H8	1.66	0.61
1:AA:961:C:C4	1:AA:2031:A:N3	2.69	0.61
1:AA:2132:U:H2'	1:AA:2132:U:O2	1.99	0.61
1:AA:2216:G:O2'	1:AA:2217:G:H5'	2.01	0.61
1:AA:2273:A:N7	1:AA:2274:A:C4	2.68	0.61
1:AA:2320:A:P	1:AA:2320:A:C8	2.94	0.61
1:AA:2393:A:H2'	1:AA:2394:C:H6	1.66	0.61
1:AA:2491:U:O2	1:AA:2492:U:C5	2.54	0.61
1:AA:2491:U:C5	1:AA:2492:U:OP2	2.54	0.61
1:AA:2578:G:O2'	1:AA:2579:C:H6	1.84	0.61
1:AA:2595:G:N2	1:AA:2599:G:C6	2.69	0.61
1:AA:318:C:O2	1:AA:334:C:C2	2.54	0.61
1:AA:279:C:H41	1:AA:359:A:H1'	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:402:A:N3	1:AA:402:A:H2'	2.15	0.61
1:AA:548:A:H62	1:AA:549:G:N2	1.98	0.61
1:AA:56:A:H2'	1:AA:57:C:C6	2.36	0.61
1:AA:730:C:H2'	1:AA:731:C:C5	2.36	0.61
1:AA:828:U:C2'	1:AA:829:A:C8	2.74	0.61
1:AA:84:A:H5'	20:AV:8:LYS:CE	2.29	0.61
1:AA:873:G:C4	1:AA:874:G:C8	2.88	0.61
1:AA:876:C:C2	1:AA:902:C:O2	2.54	0.61
1:AA:957:A:C5	1:AA:959:A:C8	2.89	0.61
2:AB:75:G:N3	2:AB:75:G:H2'	2.15	0.61
5:AE:27:LEU:HD12	5:AE:76:ARG:NH1	2.16	0.61
5:AE:94:GLU:O	5:AE:95:ILE:C	2.40	0.61
5:AE:92:THR:CG2	5:AE:96:PHE:HB2	2.30	0.61
1:AA:798:G:OP1	6:AF:58:ALA:O	2.18	0.61
1:AA:675:A:C4'	6:AF:67:GLN:HE22	1.98	0.61
6:AF:49:ALA:HB3	6:AF:94:PRO:HA	1.83	0.61
7:AG:35:GLU:O	7:AG:36:LYS:O	2.18	0.61
8:AH:149:ARG:CG	8:AH:153:LYS:HD2	2.28	0.61
8:AH:54:ARG:HH11	8:AH:57:ASP:HB2	1.65	0.61
8:AH:9:ILE:HD13	8:AH:73:ALA:CB	2.30	0.61
9:AK:33:LEU:O	9:AK:35:ARG:HG3	2.00	0.61
9:AK:45:ASN:O	9:AK:46:VAL:CG2	2.45	0.61
9:AK:88:GLU:HB2	9:AK:89:LYS:NZ	2.16	0.61
10:AL:13:ASN:HB2	10:AL:94:ARG:HB2	1.82	0.61
1:AA:624:C:OP2	11:AM:105:LEU:CD2	2.49	0.61
12:AN:67:ARG:NE	12:AN:105:GLU:OE1	2.34	0.61
12:AN:106:VAL:O	12:AN:107:ALA:HB2	2.00	0.61
14:AP:39:ILE:O	14:AP:47:THR:HG23	2.00	0.61
14:AP:62:LYS:O	14:AP:65:VAL:HG22	2.01	0.61
1:AA:1754:C:H5	15:AQ:98:LYS:HD3	1.66	0.61
15:AQ:6:LEU:O	15:AQ:9:LEU:HB2	2.01	0.61
16:AR:47:TYR:CZ	17:AS:76:LYS:C	2.74	0.61
17:AS:65:GLY:N	17:AS:97:LYS:NZ	2.49	0.61
22:AX:72:ARG:O	22:AX:73:GLY:C	2.40	0.61
22:AX:49:LYS:N	22:AX:80:HIS:CE1	2.67	0.61
34:BA:1068:G:N2	34:BA:1108:G:O4'	2.34	0.61
34:BA:1255:G:H21	34:BA:1276:G:H22	1.49	0.61
34:BA:191(D):U:H2'	34:BA:191(E):G:C8	2.35	0.61
34:BA:558:G:C3'	34:BA:559:A:C5'	2.72	0.61
34:BA:796:C:H2'	34:BA:797:C:C6	2.35	0.61
34:BA:949:A:H3'	46:BQ:102:ARG:HH12	0.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:969:A:C4'	34:BA:969:A:OP1	2.48	0.61
7:AG:81:LYS:O	56:BE:52:G:H5'	2.01	0.61
35:BF:114:ARG:HH12	35:BF:141:GLU:HG3	1.66	0.61
34:BA:1205:U:C4'	36:BG:195:VAL:HG13	2.26	0.61
37:BH:176:LEU:O	37:BH:176:LEU:HG	2.01	0.61
37:BH:187:ARG:CZ	37:BH:188:LEU:HG	2.31	0.61
37:BH:92:VAL:HG12	37:BH:96:LEU:HD11	1.81	0.61
38:BI:135:THR:C	38:BI:139:LEU:HD12	2.22	0.61
38:BI:24:ARG:C	38:BI:25:ARG:HD3	2.20	0.61
39:BJ:50:TYR:HE1	51:BV:81:PHE:CE2	2.19	0.61
40:BK:87:VAL:HG21	40:BK:154:TYR:HB2	1.82	0.61
34:BA:1128:C:C4'	42:BM:16:ARG:NH2	2.64	0.61
44:BO:104:GLN:NE2	44:BO:106:LYS:HB2	2.15	0.61
34:BA:684:A:C4'	44:BO:12:ARG:NH2	2.55	0.61
44:BO:95:ILE:HA	44:BO:98:LEU:HD12	1.82	0.61
45:BP:100:ILE:O	45:BP:101:VAL:HG13	2.01	0.61
45:BP:7:ILE:HB	45:BP:8:ASN:ND2	2.16	0.61
34:BA:948:C:OP1	46:BQ:109:THR:OG1	2.19	0.61
46:BQ:16:ASP:OD2	46:BQ:17:VAL:N	2.33	0.61
43:BN:49:VAL:CG1	47:BR:41:ARG:HD2	2.23	0.61
48:BS:49:ASP:OD1	48:BS:52:SER:HB2	2.01	0.61
49:BT:8:ARG:NH2	49:BT:11:SER:O	2.32	0.61
50:BU:7:THR:HG22	50:BU:56:VAL:HG12	1.83	0.61
52:BW:46:GLY:O	52:BW:47:HIS:ND1	2.34	0.61
54:BY:5:ASP:O	54:BY:7:ARG:N	2.32	0.61
57:BZ:13:HIS:CD2	57:BZ:106:MET:HB3	2.26	0.61
57:BZ:15:ASP:CG	57:BZ:16:HIS:NE2	2.53	0.61
57:BZ:565:LEU:HD21	57:BZ:585:ILE:CG2	2.29	0.61
55:BC:5:G:O2'	55:BC:6:G:O4'	2.16	0.61
9:AK:6:PRO:HA	9:AK:41:ASP:CG	2.21	0.61
34:BA:511:C:C2	34:BA:512:U:C5	2.88	0.61
1:AA:1012:U:H5'	1:AA:1013:C:OP1	2.01	0.60
1:AA:1046:A:C5	31:AI:6:ASN:HA	2.36	0.60
1:AA:1086:A:H3'	1:AA:1087:G:H5'	1.83	0.60
1:AA:443:A:O4'	1:AA:1201:C:C4'	2.48	0.60
1:AA:1241:A:O2'	1:AA:1242:A:P	2.59	0.60
1:AA:1250:G:H4'	16:AR:6:THR:HG21	1.83	0.60
1:AA:1419:A:N6	1:AA:1421:G:C2	2.69	0.60
1:AA:1457:A:C2'	1:AA:1458:C:H5'	2.30	0.60
1:AA:1650:G:N2	1:AA:1651:G:C1'	2.62	0.60
1:AA:1937:A:H2'	1:AA:1938:A:OP1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1955:U:O2	1:AA:1955:U:H2'	2.00	0.60
1:AA:2085:C:H2'	1:AA:2086:U:O4'	2.01	0.60
1:AA:2259:G:C2	1:AA:2282:G:C6	2.89	0.60
1:AA:2298:A:H3'	1:AA:2299:G:H8	1.65	0.60
1:AA:2311:A:H2	7:AG:45:GLU:HG2	1.66	0.60
1:AA:2357:U:H6	1:AA:2357:U:O5'	1.84	0.60
1:AA:2371:G:N2	1:AA:2372:G:C5	2.69	0.60
1:AA:2431:U:O2'	1:AA:2432:A:H5''	2.00	0.60
1:AA:2450:A:C2	1:AA:2451:A:C4	2.89	0.60
1:AA:2495:G:C5'	12:AN:82:ARG:HA	2.31	0.60
1:AA:2636:U:O4'	5:AE:79:ARG:HD3	2.00	0.60
1:AA:2647:U:O2'	1:AA:2648:C:H6	1.83	0.60
1:AA:2653:U:C4	1:AA:2669:G:C2	2.83	0.60
1:AA:403:U:H5''	1:AA:404:C:OP1	2.01	0.60
1:AA:493:G:N2	1:AA:494:G:H1'	2.15	0.60
1:AA:582:G:N1	1:AA:1259:G:C6	2.69	0.60
1:AA:744:G:H2'	1:AA:745:G:C8	2.35	0.60
1:AA:977:G:N3	1:AA:978:G:H1'	2.15	0.60
2:AB:55:U:C2'	2:AB:56:G:H5'	2.31	0.60
3:AC:10:LEU:O	3:AC:13:LYS:HB2	2.01	0.60
3:AC:190:ARG:O	3:AC:193:ILE:N	2.33	0.60
1:AA:2177:C:H4'	3:AC:223:ARG:CZ	2.31	0.60
4:AD:145:VAL:O	4:AD:154:LYS:O	2.19	0.60
4:AD:176:ARG:CA	4:AD:182:LEU:HD23	2.31	0.60
4:AD:29:PRO:HB2	4:AD:31:LYS:NZ	2.16	0.60
5:AE:151:TYR:CE1	5:AE:153:GLY:N	2.67	0.60
5:AE:49:LEU:HD21	5:AE:75:VAL:CA	2.31	0.60
5:AE:58:ARG:HH11	5:AE:75:VAL:HG13	1.66	0.60
6:AF:77:ASP:O	6:AF:80:ALA:HB2	2.01	0.60
7:AG:126:ASP:HA	7:AG:166:ASP:OD1	2.01	0.60
7:AG:44:GLY:HA3	7:AG:72:ARG:HG2	1.83	0.60
10:AL:112:MET:O	10:AL:115:VAL:N	2.34	0.60
10:AL:82:ASN:N	10:AL:82:ASN:OD1	2.34	0.60
12:AN:43:THR:HG23	12:AN:46:GLN:HB3	1.83	0.60
12:AN:16:ARG:CG	12:AN:72:LYS:HD2	2.25	0.60
14:AP:100:ALA:HA	14:AP:103:GLU:OE2	2.00	0.60
16:AR:8:VAL:HG23	16:AR:9:VAL:HG23	1.82	0.60
17:AS:52:VAL:O	17:AS:55:ALA:HB3	2.01	0.60
17:AS:62:LEU:HD13	17:AS:98:GLU:CA	2.31	0.60
21:AW:23:LYS:HG3	21:AW:39:VAL:O	2.01	0.60
21:AW:56:VAL:HG13	21:AW:133:ILE:HD11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1064:G:C1'	34:BA:1066:C:N3	2.63	0.60
34:BA:1484:C:C4	34:BA:1485:U:C4	2.88	0.60
34:BA:229:U:H2'	34:BA:230:G:C8	2.36	0.60
34:BA:389:A:C6	34:BA:390:C:C1'	2.83	0.60
34:BA:405:U:H5''	34:BA:406:G:O4'	2.01	0.60
34:BA:515:G:H2'	34:BA:516:U:O4'	2.00	0.60
34:BA:574:A:H5''	34:BA:575:G:OP2	2.00	0.60
34:BA:632:A:C4	34:BA:633:G:C8	2.89	0.60
34:BA:675:A:H2'	34:BA:676:A:O4'	2.01	0.60
34:BA:703:G:O5'	34:BA:703:G:H8	1.84	0.60
34:BA:714:G:O2'	34:BA:715:A:H5'	2.00	0.60
56:BE:2:C:C3'	56:BE:70:G:H1	2.10	0.60
35:BF:40:HIS:C	35:BF:41:ILE:HD12	2.21	0.60
37:BH:65:ARG:HG3	37:BH:72:GLU:OE1	2.01	0.60
37:BH:80:GLU:O	37:BH:83:SER:N	2.34	0.60
38:BI:12:LEU:HG	38:BI:129:ILE:CG1	2.30	0.60
39:BJ:2:ARG:O	39:BJ:67:MET:HE1	2.01	0.60
39:BJ:52:ILE:HG21	39:BJ:87:ARG:NH2	2.16	0.60
40:BK:75:VAL:HG22	40:BK:88:PRO:N	2.16	0.60
41:BL:37:ARG:HD2	41:BL:38:ILE:N	2.16	0.60
42:BM:127:LYS:HG3	56:BE:31:A:P	2.41	0.60
43:BN:12:ASP:OD1	43:BN:14:LYS:HB2	2.01	0.60
44:BO:53:SER:O	44:BO:55:LYS:N	2.32	0.60
44:BO:54:ARG:O	44:BO:56:GLY:N	2.35	0.60
48:BS:70:LEU:HG	48:BS:78:TYR:CB	2.30	0.60
49:BT:75:ARG:HA	49:BT:80:PHE:CB	2.31	0.60
50:BU:59:ILE:CD1	50:BU:72:ARG:O	2.49	0.60
51:BV:66:LEU:O	51:BV:70:ILE:HG13	2.01	0.60
52:BW:46:GLY:HA2	52:BW:62:ILE:O	2.01	0.60
53:BX:57:ARG:NH2	53:BX:100:ILE:HD12	2.15	0.60
57:BZ:488:LEU:CD2	57:BZ:526:ILE:C	2.70	0.60
57:BZ:521:GLY:HA3	57:BZ:592:LEU:HA	1.82	0.60
57:BZ:67:ASP:H	57:BZ:68:TYR:CA	2.13	0.60
57:BZ:10:ILE:HG12	57:BZ:96:LEU:HB2	1.82	0.60
37:BH:43:HIS:CB	37:BH:46:LYS:HG3	2.19	0.60
34:BA:1028(B):C:H2'	34:BA:1028(B):C:O2	1.99	0.60
1:AA:1023:U:OP2	1:AA:1025:G:N1	2.33	0.60
1:AA:1164:G:C5	1:AA:1165:U:C5	2.89	0.60
1:AA:1207:C:C2	1:AA:1208:C:C5	2.89	0.60
1:AA:13:A:C2	1:AA:526:A:N6	2.68	0.60
1:AA:1444(A):A:N1	1:AA:1461:G:O5'	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1634:A:O3'	1:AA:1635:G:C8	2.54	0.60
1:AA:1647:G:N3	1:AA:1647:G:H2'	2.15	0.60
1:AA:1691:C:C2'	1:AA:1692:U:H5'	2.31	0.60
1:AA:1703:G:N2	1:AA:1704:G:N3	2.50	0.60
1:AA:182:A:OP2	1:AA:182:A:C8	2.53	0.60
1:AA:1939:U:C2'	1:AA:1940:U:OP1	2.49	0.60
1:AA:2445:G:C2'	1:AA:2446:G:H8	2.07	0.60
1:AA:2567:G:H2'	1:AA:2568:C:C6	2.36	0.60
1:AA:2618:G:C2	1:AA:2619:C:C5	2.89	0.60
1:AA:2713:A:O5'	1:AA:2713:A:H8	1.84	0.60
1:AA:1751:C:O4'	1:AA:2860:A:C2	2.55	0.60
1:AA:315:G:H2'	1:AA:316:C:C1'	2.32	0.60
1:AA:316:C:OP2	1:AA:316:C:H6	1.84	0.60
1:AA:64:A:H2	19:AU:66:LEU:HD13	1.66	0.60
1:AA:718:A:C8	1:AA:719:C:C6	2.89	0.60
1:AA:728:G:H22	1:AA:762:U:P	2.24	0.60
1:AA:749:C:H3'	1:AA:749:C:C6	2.36	0.60
1:AA:819:A:H2'	1:AA:820:A:O4'	2.00	0.60
3:AC:100:ILE:HA	3:AC:127:LEU:HD11	1.82	0.60
3:AC:77:ILE:HG22	3:AC:119:VAL:CG2	2.31	0.60
3:AC:211:SER:HB2	3:AC:223:ARG:NH2	2.15	0.60
4:AD:118:VAL:H	4:AD:129:ASN:CG	2.05	0.60
4:AD:169:GLU:CG	4:AD:184:LYS:HZ3	2.14	0.60
4:AD:171:ASP:O	4:AD:186:HIS:CA	2.43	0.60
4:AD:216:GLY:O	4:AD:217:ARG:CB	2.42	0.60
5:AE:104:VAL:CG1	5:AE:198:VAL:HG22	2.30	0.60
1:AA:2571:C:C1'	5:AE:146:THR:HG23	2.28	0.60
5:AE:49:LEU:HD13	5:AE:76:ARG:HG3	1.82	0.60
6:AF:41:LEU:HD12	6:AF:42:ALA:N	2.16	0.60
7:AG:123:ASN:HB2	7:AG:126:ASP:HB2	1.84	0.60
7:AG:119:GLY:HA3	7:AG:180:PHE:CE2	2.35	0.60
7:AG:72:ARG:C	7:AG:88:ILE:HD11	2.21	0.60
8:AH:157:TYR:HD1	8:AH:158:HIS:HB2	1.66	0.60
8:AH:5:GLY:O	8:AH:6:ARG:HB2	2.00	0.60
9:AK:100:GLU:HA	9:AK:103:VAL:CG1	2.31	0.60
10:AL:62:VAL:O	10:AL:63:VAL:CG2	2.39	0.60
11:AM:134:ALA:O	11:AM:135:LEU:C	2.39	0.60
11:AM:72:PRO:HB2	11:AM:111:ARG:HB2	1.81	0.60
13:AO:11:ASN:OD1	13:AO:12:ARG:HG3	2.02	0.60
13:AO:25:ALA:HA	13:AO:48:VAL:HG22	1.82	0.60
14:AP:69:VAL:O	14:AP:73:LEU:CD1	2.47	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:27:THR:HG22	15:AQ:28:VAL:N	2.15	0.60
15:AQ:53:ARG:NH2	15:AQ:102:ILE:HG12	2.14	0.60
16:AR:105:VAL:O	16:AR:109:LEU:CG	2.40	0.60
16:AR:81:HIS:HB3	16:AR:117:GLN:OE1	2.01	0.60
16:AR:59:ARG:O	16:AR:62:ILE:N	2.34	0.60
16:AR:65:ILE:H	16:AR:65:ILE:HD13	1.64	0.60
17:AS:40:LEU:CG	17:AS:55:ALA:N	2.52	0.60
18:AT:98:LYS:HB3	18:AT:98:LYS:HZ2	1.64	0.60
19:AU:35:THR:HG22	19:AU:37:THR:H	1.66	0.60
19:AU:50:LYS:NZ	19:AU:85:PRO:HD2	2.15	0.60
19:AU:89:ILE:HG23	19:AU:92:LEU:HD22	1.83	0.60
21:AW:166:SER:O	21:AW:168:GLU:N	2.35	0.60
21:AW:30:ASN:O	21:AW:31:ARG:C	2.40	0.60
21:AW:4:ARG:NH2	21:AW:88:PHE:CE1	2.68	0.60
19:AU:7:VAL:CG2	23:AY:31:ARG:HH22	2.14	0.60
34:BA:1162:C:N3	34:BA:1175:G:N2	2.49	0.60
34:BA:1262:C:H2'	34:BA:1263:C:H6	1.65	0.60
34:BA:1269:A:C4	34:BA:1312:G:N3	2.66	0.60
34:BA:137:C:C2'	34:BA:138:G:O5'	2.48	0.60
34:BA:1461:G:C2'	34:BA:1462:G:H5'	2.31	0.60
34:BA:161:A:N6	34:BA:162:A:C6	2.70	0.60
34:BA:169:C:H2'	34:BA:170:U:C5	2.35	0.60
34:BA:186(E):C:O2'	34:BA:186(F):C:H5'	2.01	0.60
34:BA:373:A:C2	34:BA:374:A:C8	2.89	0.60
34:BA:62:U:OP1	34:BA:386:C:H5'	2.00	0.60
34:BA:397:A:C2'	34:BA:399:G:OP2	2.49	0.60
34:BA:49:U:O2'	34:BA:50:A:OP1	2.16	0.60
34:BA:591:U:O5'	34:BA:591:U:H6	1.82	0.60
34:BA:620:C:C4	37:BH:135:LEU:HD22	2.36	0.60
34:BA:64:G:N2	34:BA:67:C:C4	2.69	0.60
34:BA:687:A:O2'	34:BA:688:G:O5'	2.20	0.60
34:BA:780:A:H2	34:BA:803:G:C6	2.19	0.60
34:BA:796:C:H2'	34:BA:797:C:H6	1.66	0.60
34:BA:979:C:H42	47:BR:18:VAL:CB	2.13	0.60
56:BE:21:A:N6	56:BE:46:G:C1'	2.63	0.60
37:BH:105:VAL:CG2	37:BH:121:VAL:HG22	2.29	0.60
34:BA:922:G:C4'	38:BI:20:GLN:HA	2.23	0.60
40:BK:51:GLN:HE22	40:BK:58:PRO:CG	2.13	0.60
40:BK:70:LYS:HA	40:BK:100:ALA:HB2	1.81	0.60
41:BL:119:LEU:HB3	41:BL:124:ALA:HB2	1.83	0.60
34:BA:1373:G:OP1	42:BM:42:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:6:ILE:O	43:BN:71:LEU:HD13	2.00	0.60
46:BQ:84:ILE:CD1	46:BQ:86:CYS:HB3	2.31	0.60
43:BN:62:HIS:O	47:BR:59:ALA:HB3	2.01	0.60
34:BA:136:C:O2'	49:BT:63:GLY:HA2	2.01	0.60
51:BV:67:ALA:O	51:BV:70:ILE:N	2.34	0.60
52:BW:19:VAL:HG21	52:BW:44:MET:HG2	1.82	0.60
57:BZ:204:PRO:HB3	57:BZ:290:ASP:CG	2.15	0.60
57:BZ:431:PRO:CA	57:BZ:437:VAL:HG23	2.31	0.60
57:BZ:491:ASN:ND2	57:BZ:536:ASN:N	2.49	0.60
57:BZ:491:ASN:OD1	57:BZ:536:ASN:CG	2.39	0.60
1:AA:1071:G:H2'	1:AA:1072:C:H5''	1.81	0.60
1:AA:1108:U:OP2	31:AI:59:ILE:CB	2.48	0.60
1:AA:1239:G:H2'	1:AA:1240:U:O4'	2.01	0.60
1:AA:1258:C:O2'	1:AA:1259:G:H5'	2.01	0.60
1:AA:1655:A:C2	1:AA:1656:C:H1'	2.37	0.60
1:AA:1687:G:C2	1:AA:1688:U:C5	2.89	0.60
1:AA:1780:A:OP2	1:AA:1782:C:OP2	2.19	0.60
1:AA:1795:C:H2'	1:AA:1796:U:O4'	2.02	0.60
1:AA:1996:C:HO2'	5:AE:123:ALA:HB3	1.63	0.60
1:AA:204:A:H4'	1:AA:205:G:C5'	2.31	0.60
1:AA:2051:A:C5'	1:AA:2578:G:H5''	2.28	0.60
1:AA:2115:G:C2'	1:AA:2117:A:H62	2.14	0.60
1:AA:2219:G:H2'	1:AA:2224:G:O5'	2.00	0.60
1:AA:2226:C:O2	1:AA:2226:C:C2'	2.47	0.60
1:AA:2483:C:N3	12:AN:124:LYS:HE2	2.16	0.60
1:AA:2671:A:C2	1:AA:2672:G:C5	2.90	0.60
1:AA:2694:G:C2	1:AA:2716:U:O2	2.53	0.60
1:AA:2734:A:H61	1:AA:2770:G:H1'	1.64	0.60
1:AA:2824:C:N4	1:AA:2825:C:O2	2.35	0.60
1:AA:293:U:H2'	1:AA:294:A:C8	2.36	0.60
1:AA:373:U:O2'	1:AA:375:C:N4	2.26	0.60
1:AA:3:U:O2	1:AA:2900:A:C2	2.42	0.60
1:AA:626:U:O2	1:AA:626:U:H2'	2.00	0.60
1:AA:716:A:N7	1:AA:717:G:C8	2.69	0.60
2:AB:87:G:N1	2:AB:90:C:C4	2.69	0.60
3:AC:162:GLU:C	3:AC:163:PHE:CD2	2.66	0.60
4:AD:136:ILE:CB	4:AD:168:ARG:NH2	2.59	0.60
4:AD:232:PRO:HG2	4:AD:247:ALA:N	2.16	0.60
4:AD:181:GLU:CB	4:AD:268:ARG:HE	2.14	0.60
4:AD:28:GLU:N	4:AD:29:PRO:HD2	2.17	0.60
4:AD:76:PRO:HA	4:AD:118:VAL:HG21	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:121:ASN:ND2	7:AG:133:LEU:HD21	2.16	0.60
7:AG:77:ILE:HD12	7:AG:83:ARG:NH1	2.16	0.60
8:AH:143:GLN:O	8:AH:146:ALA:HB3	2.01	0.60
8:AH:149:ARG:O	8:AH:153:LYS:HB3	2.01	0.60
8:AH:25:LYS:HD3	8:AH:27:LYS:CD	2.30	0.60
32:AJ:72:PRO:HG2	32:AJ:77:LEU:CD2	1.03	0.60
9:AK:103:VAL:O	9:AK:104:LYS:C	2.38	0.60
10:AL:32:TYR:O	10:AL:34:THR:N	2.34	0.60
11:AM:52:GLU:HA	11:AM:55:ARG:CG	2.30	0.60
12:AN:43:THR:O	12:AN:47:ILE:CG1	2.49	0.60
12:AN:83:MET:CE	12:AN:83:MET:O	2.50	0.60
16:AR:111:GLU:CA	16:AR:114:LYS:HZ1	2.14	0.60
16:AR:70:ARG:HB2	16:AR:70:ARG:NH1	2.16	0.60
16:AR:84:LYS:O	16:AR:85:LYS:C	2.38	0.60
17:AS:14:VAL:HG12	17:AS:15:GLU:N	2.09	0.60
22:AX:31:VAL:HG21	22:AX:67:VAL:HA	1.83	0.60
23:AY:20:VAL:HA	23:AY:55:LEU:CD2	2.29	0.60
24:AZ:50:VAL:CG1	24:AZ:53:LEU:HB2	2.32	0.60
34:BA:1025:U:H2'	34:BA:1026:G:N7	2.17	0.60
34:BA:1127:G:H21	34:BA:1147:C:H42	1.50	0.60
34:BA:1158:C:H1'	35:BF:133:LYS:NZ	2.15	0.60
34:BA:1117:G:N7	34:BA:1184:G:N1	2.48	0.60
34:BA:1215:G:C2	34:BA:1216:G:C8	2.89	0.60
34:BA:224:C:H2'	34:BA:225:C:C6	2.35	0.60
34:BA:244:U:O2'	34:BA:245:C:P	2.60	0.60
34:BA:245:C:C2	34:BA:284:G:C2	2.89	0.60
34:BA:375:U:C3'	49:BT:6:LEU:HD21	2.30	0.60
34:BA:538:G:N2	34:BA:539:A:H1'	2.16	0.60
34:BA:597:G:H2'	34:BA:598:U:C5'	2.31	0.60
34:BA:600:C:C2	34:BA:639:G:N2	2.69	0.60
34:BA:678:U:H2'	34:BA:679:C:C5	2.35	0.60
34:BA:761:G:H1'	50:BU:104:LYS:O	2.01	0.60
34:BA:794:A:H2'	34:BA:795:C:C6	2.37	0.60
34:BA:858:G:C2	34:BA:869:G:H3'	2.36	0.60
35:BF:118:LEU:HD22	35:BF:142:LEU:HD12	1.82	0.60
35:BF:162:ILE:O	35:BF:185:ILE:HD13	2.01	0.60
35:BF:208:ILE:HG12	35:BF:211:ILE:HD12	1.82	0.60
35:BF:41:ILE:HD12	35:BF:41:ILE:N	2.16	0.60
35:BF:97:TRP:HB3	35:BF:172:ILE:HD12	1.83	0.60
36:BG:47:LEU:HD12	36:BG:83:ARG:HH21	1.66	0.60
37:BH:132:ARG:NH1	37:BH:132:ARG:CG	2.63	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:144:ASP:O	37:BH:184:LYS:HD3	2.00	0.60
38:BI:11:ILE:CB	38:BI:31:LEU:HD22	2.31	0.60
38:BI:90:VAL:O	38:BI:120:THR:OG1	2.16	0.60
39:BJ:64:GLN:C	39:BJ:65:VAL:CG1	2.70	0.60
39:BJ:30:LEU:CA	39:BJ:75:LEU:HD11	2.23	0.60
39:BJ:33:TYR:CE2	39:BJ:75:LEU:N	2.69	0.60
42:BM:49:PRO:CD	42:BM:78:LYS:HG2	2.29	0.60
34:BA:1253:G:OP1	43:BN:44:VAL:HB	2.01	0.60
45:BP:34:ARG:HG3	45:BP:105:TYR:CE1	2.37	0.60
46:BQ:20:THR:N	46:BQ:25:ILE:HG22	2.16	0.60
46:BQ:63:THR:HG23	46:BQ:63:THR:O	2.02	0.60
47:BR:26:ARG:CB	47:BR:43:CYS:CB	2.79	0.60
49:BT:20:VAL:HG11	49:BT:32:TYR:CB	2.31	0.60
50:BU:58:GLU:OE2	50:BU:74:LEU:HB3	2.01	0.60
52:BW:5:LEU:HG	52:BW:6:LYS:H	1.66	0.60
46:BQ:84:ILE:CD1	52:BW:66:MET:O	2.48	0.60
53:BX:53:LEU:O	53:BX:56:MET:N	2.34	0.60
57:BZ:12:ALA:O	57:BZ:13:HIS:HB3	2.01	0.60
57:BZ:239:ILE:HG22	57:BZ:240:ILE:N	2.16	0.60
57:BZ:470:SER:O	57:BZ:471:HIS:HB3	2.01	0.60
56:BD:52:G:C2	56:BD:63:G:C4	2.90	0.60
56:BD:65:G:C5	56:BD:66:U:C4	2.89	0.60
1:AA:363(D):G:O2'	1:AA:363(E):U:H5'	2.00	0.60
1:AA:1079:C:OP1	32:AJ:137:GLU:HB3	2.01	0.60
1:AA:1114:G:C2	1:AA:1115:G:C1'	2.84	0.60
1:AA:111:A:H4'	23:AY:60:ASN:OD1	2.02	0.60
1:AA:1270:C:O5'	1:AA:1270:C:H6	1.84	0.60
1:AA:1296:G:H2'	1:AA:1297:C:C6	2.36	0.60
1:AA:1422:G:O2'	1:AA:1493:C:O2	2.18	0.60
1:AA:1491:G:H2'	1:AA:1492:G:C4'	2.26	0.60
1:AA:1566:A:HO2'	1:AA:1567:A:P	2.24	0.60
1:AA:1567:A:N6	4:AD:84:TYR:CD1	2.70	0.60
1:AA:1592:C:H2'	1:AA:1593:G:C8	2.33	0.60
1:AA:1788:C:N3	1:AA:1789:A:C8	2.68	0.60
1:AA:1797:C:H2'	1:AA:1798:U:H6	1.63	0.60
1:AA:1992:G:N7	1:AA:1997:G:C2	2.70	0.60
1:AA:200:U:H3'	1:AA:201:C:H5'	1.82	0.60
1:AA:2043:C:O2'	1:AA:2044:C:H5'	2.02	0.60
1:AA:2061:G:OP2	1:AA:2502:G:OP2	2.19	0.60
1:AA:2378:A:N3	14:AP:20:ARG:NH2	2.50	0.60
1:AA:2415:G:N2	1:AA:2416:C:C2	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2507:C:C2	1:AA:2583:G:C2	2.89	0.60
1:AA:251:A:P	1:AA:251:A:H3'	2.41	0.60
1:AA:2792:G:N1	1:AA:2793:G:C6	2.70	0.60
1:AA:6:A:C5	1:AA:2897:U:N3	2.68	0.60
1:AA:38:A:H5'	6:AF:50:SER:HA	1.84	0.60
1:AA:558:G:C2	1:AA:559:G:C5	2.89	0.60
1:AA:59:U:H6	1:AA:59:U:O5'	1.84	0.60
1:AA:873:G:C6	1:AA:874:G:C8	2.89	0.60
1:AA:931:G:N2	24:AZ:25:ALA:N	2.48	0.60
1:AA:944:G:H4'	1:AA:945:A:O5'	2.02	0.60
3:AC:97:GLU:CG	3:AC:122:ALA:HB3	2.30	0.60
3:AC:183:GLU:N	3:AC:183:GLU:CD	2.53	0.60
3:AC:67:GLY:N	3:AC:184:LYS:HZ3	2.00	0.60
3:AC:77:ILE:HG21	3:AC:100:ILE:HD11	1.83	0.60
4:AD:247:ALA:O	4:AD:248:SER:C	2.40	0.60
4:AD:260:ARG:HH11	4:AD:260:ARG:CB	2.14	0.60
4:AD:62:TYR:N	4:AD:62:TYR:CD1	2.63	0.60
5:AE:118:LYS:O	5:AE:120:TRP:N	2.34	0.60
5:AE:147:PRO:CD	5:AE:148:GLY:N	2.64	0.60
6:AF:39:TRP:CE3	6:AF:99:TYR:HB3	2.36	0.60
7:AG:138:GLN:HB2	7:AG:155:MET:CE	2.32	0.60
8:AH:31:GLY:O	8:AH:79:VAL:HG12	2.00	0.60
12:AN:119:ARG:O	12:AN:123:HIS:CB	2.48	0.60
13:AO:10:LEU:HB2	13:AO:17:ARG:CZ	2.31	0.60
13:AO:20:LEU:C	13:AO:20:LEU:CD1	2.67	0.60
14:AP:71:ARG:N	14:AP:104:GLY:CA	2.64	0.60
15:AQ:92:GLY:HA2	15:AQ:93:ARG:CZ	2.31	0.60
16:AR:93:LYS:HB2	17:AS:10:LYS:CE	2.30	0.60
17:AS:6:LYS:NZ	17:AS:10:LYS:HB3	2.15	0.60
18:AT:13:SER:C	18:AT:16:LYS:NZ	2.55	0.60
19:AU:63:LYS:HA	19:AU:63:LYS:CE	2.32	0.60
19:AU:90:GLU:O	19:AU:93:GLU:CG	2.50	0.60
20:AV:76:CYS:HB3	20:AV:100:ALA:HB3	1.83	0.60
21:AW:102:LEU:HD11	21:AW:137:ILE:HG22	1.82	0.60
22:AX:39:ARG:HG2	22:AX:58:THR:OG1	2.01	0.60
23:AY:16:LEU:O	23:AY:20:VAL:HG12	2.01	0.60
24:AZ:9:VAL:CG2	24:AZ:10:LYS:N	2.57	0.60
34:BA:1126:U:C2	34:BA:1127:G:C8	2.89	0.60
34:BA:1269:A:C8	34:BA:1270:C:H1'	2.35	0.60
34:BA:1489:G:N2	34:BA:1490:C:O2	2.33	0.60
34:BA:155:C:O2'	34:BA:156:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:130:A:H4'	34:BA:190:G:C4	2.37	0.60
34:BA:244:U:C2'	34:BA:245:C:OP2	2.50	0.60
34:BA:51:A:O2'	34:BA:52:G:P	2.59	0.60
34:BA:822:C:H2'	34:BA:823:G:H8	1.67	0.60
35:BF:115:LEU:HD12	35:BF:115:LEU:O	2.02	0.60
35:BF:146:GLN:O	35:BF:148:TYR:N	2.34	0.60
36:BG:67:THR:HA	36:BG:102:ASN:O	2.00	0.60
37:BH:165:MET:CE	37:BH:167:GLY:H	2.15	0.60
41:BL:100:ILE:CD1	41:BL:125:ARG:HE	2.13	0.60
41:BL:40:ALA:HA	41:BL:43:GLY:O	2.01	0.60
43:BN:39:PRO:O	43:BN:69:ASN:O	2.19	0.60
43:BN:69:ASN:O	43:BN:70:ARG:HD3	2.01	0.60
44:BO:87:THR:HG22	44:BO:91:ARG:NH1	2.16	0.60
45:BP:11:VAL:HG22	50:BU:32:TYR:HD1	1.66	0.60
45:BP:12:ARG:HB3	45:BP:12:ARG:CZ	2.30	0.60
48:BS:36:ILE:HG13	48:BS:59:MET:CE	2.30	0.60
49:BT:31:LYS:HG2	49:BT:32:TYR:N	2.15	0.60
50:BU:3:LYS:O	50:BU:5:VAL:HG23	2.01	0.60
50:BU:58:GLU:HG2	50:BU:59:ILE:N	2.17	0.60
51:BV:31:LEU:N	51:BV:31:LEU:HD12	2.16	0.60
57:BZ:580:VAL:HB	57:BZ:585:ILE:CD1	2.31	0.60
57:BZ:64:ILE:HG23	57:BZ:188:GLN:HE22	1.62	0.60
20:AV:42:VAL:HG22	20:AV:61:ILE:HG21	1.83	0.60
1:AA:1507:A:N3	1:AA:1507:A:C2'	2.62	0.60
57:BZ:411:HIS:HD2	57:BZ:459:THR:CG2	2.13	0.60
37:BH:172:PRO:HG3	37:BH:193:ASP:HB3	1.83	0.60
1:AA:1059:G:O3'	32:AJ:74:ALA:N	2.35	0.60
1:AA:1106:G:C5	1:AA:1107:G:C6	2.89	0.60
1:AA:1363:C:N3	1:AA:1369:G:C6	2.70	0.60
1:AA:1458:C:H4'	1:AA:1459:G:N7	2.16	0.60
1:AA:1523:U:H2'	1:AA:1524:G:O4'	2.01	0.60
1:AA:154:G:H8	1:AA:154:G:O5'	1.84	0.60
1:AA:1654:A:OP1	13:AO:3:HIS:CE1	2.55	0.60
1:AA:1683:C:H2'	1:AA:1684:C:H6	1.65	0.60
1:AA:1893:C:O2'	1:AA:1894:C:H5'	2.02	0.60
1:AA:1973:G:H2'	1:AA:1974:C:C6	2.37	0.60
1:AA:2080:G:O2'	1:AA:2081:C:H5'	2.00	0.60
1:AA:2124:G:C6	3:AC:218:MET:HA	2.33	0.60
1:AA:237:C:H2'	1:AA:238:C:C6	2.36	0.60
1:AA:2414:G:H2'	1:AA:2414:G:N3	2.15	0.60
1:AA:2497:A:C2'	1:AA:2498:C:OP2	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2525:G:N2	1:AA:2539:C:N3	2.49	0.60
1:AA:2668:G:H2'	1:AA:2669:G:H8	1.59	0.60
1:AA:270(Z):U:C4	1:AA:271(C):U:H1'	2.36	0.60
1:AA:290:G:OP1	1:AA:290:G:C8	2.54	0.60
1:AA:290:G:H2'	1:AA:291:C:O5'	2.01	0.60
1:AA:361:G:H2'	1:AA:362:U:C6	2.36	0.60
1:AA:559:G:O2'	1:AA:560:C:O5'	2.16	0.60
1:AA:771:G:C2	1:AA:772:C:C4	2.90	0.60
1:AA:818:G:OP2	1:AA:1187:G:O6	2.20	0.60
1:AA:822:U:C2	1:AA:823:G:C8	2.89	0.60
1:AA:860:U:H5	1:AA:2267:A:H4'	1.65	0.60
1:AA:909:A:H2'	1:AA:912:C:C5	2.37	0.60
2:AB:25:A:O2'	2:AB:26:A:H5'	2.01	0.60
2:AB:60:C:O2	2:AB:60:C:H2'	1.99	0.60
2:AB:73:A:C8	2:AB:104:A:C6	2.90	0.60
3:AC:62:VAL:CB	3:AC:191:ALA:O	2.41	0.60
4:AD:242:ARG:O	4:AD:244:ARG:N	2.34	0.60
1:AA:1797:C:HO2'	4:AD:257:LEU:HD12	1.66	0.60
4:AD:260:ARG:O	4:AD:261:LYS:C	2.38	0.60
4:AD:268:ARG:O	4:AD:269:PHE:CD1	2.54	0.60
4:AD:46:GLN:O	4:AD:48:ARG:N	2.34	0.60
5:AE:119:ARG:HH22	5:AE:155:LYS:HD2	1.67	0.60
32:AJ:112:MET:HE3	32:AJ:119:ASP:O	2.01	0.60
32:AJ:40:ALA:O	32:AJ:66:THR:CB	2.47	0.60
9:AK:124:ALA:C	9:AK:125:GLY:O	2.37	0.60
9:AK:91:LEU:O	9:AK:92:ALA:C	2.39	0.60
10:AL:11:ALA:HB2	10:AL:17:ARG:CD	2.31	0.60
10:AL:11:ALA:O	10:AL:97:ARG:NH2	2.35	0.60
1:AA:942:G:H5'	11:AM:32:THR:HG23	1.82	0.60
11:AM:81:GLN:CB	11:AM:86:LYS:HG3	2.30	0.60
13:AO:13:HIS:CE1	13:AO:15:SER:H	2.18	0.60
13:AO:67:LEU:HD13	13:AO:67:LEU:C	2.21	0.60
14:AP:73:LEU:HD13	14:AP:73:LEU:N	2.17	0.60
15:AQ:110:ILE:HD12	15:AQ:113:LYS:HE3	1.82	0.60
15:AQ:55:ASN:ND2	15:AQ:57:PHE:HZ	1.99	0.60
15:AQ:82:LEU:HD22	15:AQ:84:GLN:HB2	1.84	0.60
1:AA:534:U:H4'	16:AR:49:HIS:CE1	2.36	0.60
16:AR:65:ILE:H	16:AR:65:ILE:CD1	2.12	0.60
16:AR:9:VAL:HG12	16:AR:13:LYS:HD3	1.83	0.60
16:AR:112:ARG:NH2	17:AS:49:THR:HG22	2.16	0.60
16:AR:89:GLU:CD	17:AS:52:VAL:HB	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:47:LYS:O	20:AV:48:ALA:HB3	2.00	0.60
21:AW:23:LYS:NZ	21:AW:38:TYR:O	2.33	0.60
21:AW:10:ARG:NH2	21:AW:36:LYS:H	1.98	0.60
21:AW:59:LEU:C	21:AW:59:LEU:HD23	2.22	0.60
2:AB:12:C:C4'	22:AX:74:ARG:HG2	2.31	0.60
34:BA:1319:A:C2	34:BA:1361:G:N2	2.70	0.60
34:BA:1376:U:O2	34:BA:1377:A:N6	2.35	0.60
34:BA:1411:C:C2	34:BA:1412:C:C5	2.90	0.60
34:BA:1454:G:N9	34:BA:1455:G:N7	2.50	0.60
34:BA:1485:U:H2'	34:BA:1486:G:C8	2.37	0.60
34:BA:1493:A:OP1	58:BA:1601:NMY:H5	2.01	0.60
34:BA:173:U:H5''	34:BA:197:A:H1'	1.82	0.60
34:BA:321:A:H61	34:BA:332:G:H1	1.49	0.60
34:BA:467:G:H3'	34:BA:467:G:OP2	2.01	0.60
35:BF:58:ILE:HG22	35:BF:61:LEU:HD22	1.83	0.60
36:BG:156:ARG:H	36:BG:163:ALA:HB1	1.67	0.60
36:BG:149:ALA:HB3	36:BG:170:GLN:HE21	1.67	0.60
43:BN:16:LEU:HB3	43:BN:70:ARG:CG	2.32	0.60
44:BO:42:TRP:HE3	44:BO:43:SER:N	1.99	0.60
48:BS:39:LEU:C	48:BS:39:LEU:HD23	2.22	0.60
50:BU:31:LEU:C	50:BU:32:TYR:HD2	2.05	0.60
53:BX:27:LYS:O	53:BX:28:ALA:C	2.39	0.60
53:BX:73:HIS:O	53:BX:74:LYS:C	2.39	0.60
57:BZ:5:LEU:CD1	57:BZ:269:GLU:HG3	2.31	0.60
57:BZ:565:LEU:CG	57:BZ:566:GLU:OE2	2.50	0.60
57:BZ:64:ILE:H	57:BZ:65:LYS:CA	2.15	0.60
56:BD:3:C:C2	56:BD:70:G:O6	2.55	0.60
1:AA:274:G:H2'	1:AA:275:G:H5'	1.82	0.60
1:AA:1024:G:H3'	1:AA:1025:G:H5''	1.83	0.60
1:AA:85:G:H1'	1:AA:103:A:N1	2.16	0.60
1:AA:1045:A:H4'	1:AA:1047:G:OP1	2.02	0.60
1:AA:1389:G:H5'	1:AA:1525:G:H5''	1.82	0.60
1:AA:1515:C:O2'	1:AA:1516:U:OP1	2.10	0.60
1:AA:1616:A:H5''	1:AA:1617:C:OP1	2.01	0.60
1:AA:1631:A:N1	1:AA:1632:A:C2	2.70	0.60
1:AA:1754:C:O2	1:AA:1755:A:C1'	2.38	0.60
1:AA:1857:G:C8	1:AA:1858:G:N7	2.69	0.60
1:AA:574:C:C1'	1:AA:2055:C:H5	2.14	0.60
1:AA:2194:G:H2'	1:AA:2195:C:C5	2.36	0.60
1:AA:2253:G:C5	1:AA:2254:C:C5	2.90	0.60
1:AA:2356:C:H3'	1:AA:2357:U:C5	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:675:A:O2'	1:AA:2443:C:H4'	2.01	0.60
1:AA:2446:G:O2'	1:AA:2448:A:C5'	2.50	0.60
1:AA:2455:G:C6	1:AA:2456:C:N4	2.70	0.60
1:AA:2555:U:H3	57:BZ:547:ARG:HH12	1.49	0.60
1:AA:2597:G:H5'	4:AD:242:ARG:NE	2.16	0.60
1:AA:2652:C:N3	1:AA:2669:G:N3	2.50	0.60
1:AA:2672:G:C2'	1:AA:2673:G:H5'	2.31	0.60
1:AA:2793:G:N1	1:AA:2794:C:C4	2.69	0.60
1:AA:319:C:C2'	1:AA:320:A:O4'	2.49	0.60
1:AA:410:G:O6	1:AA:418:G:C6	2.54	0.60
1:AA:614:U:H5''	1:AA:615:G:OP2	2.02	0.60
1:AA:628:G:P	1:AA:628:G:H8	2.24	0.60
1:AA:636:G:N2	11:AM:75:ILE:CG2	2.61	0.60
1:AA:728:G:O2'	1:AA:729:G:H8	1.76	0.60
1:AA:861:A:N3	2:AB:79:C:O2'	2.31	0.60
1:AA:936:C:H2'	1:AA:937:U:C6	2.37	0.60
2:AB:31:C:N3	2:AB:32:C:C5	2.70	0.60
4:AD:209:ALA:O	4:AD:213:ARG:HG2	2.01	0.60
4:AD:58:HIS:O	4:AD:59:LYS:CE	2.49	0.60
4:AD:5:LYS:HD3	4:AD:29:PRO:CB	2.24	0.60
6:AF:64:ILE:CD1	6:AF:65:TRP:N	2.59	0.60
7:AG:118:ARG:O	7:AG:180:PHE:CE1	2.54	0.60
7:AG:139:LEU:HD13	7:AG:142:PRO:HB3	1.82	0.60
7:AG:77:ILE:O	7:AG:83:ARG:CZ	2.49	0.60
7:AG:7:LEU:HD22	7:AG:11:TYR:CE1	2.29	0.60
7:AG:75:LYS:NZ	7:AG:87:PRO:HD3	2.15	0.60
8:AH:59:ARG:O	8:AH:62:LYS:HG2	2.02	0.60
8:AH:85:LYS:HD2	8:AH:145:ALA:HB1	1.81	0.60
32:AJ:106:GLU:CA	32:AJ:109:LYS:HG3	2.29	0.60
12:AN:8:LYS:HZ3	12:AN:11:LYS:HZ3	1.48	0.60
12:AN:16:ARG:NE	12:AN:73:PRO:CD	2.65	0.60
12:AN:58:PHE:C	12:AN:60:ARG:N	2.55	0.60
13:AO:14:SER:C	13:AO:17:ARG:HG2	2.22	0.60
2:AB:9:G:H4'	14:AP:43:GLU:CD	2.21	0.60
14:AP:39:ILE:HD11	14:AP:77:ALA:HB2	1.83	0.60
15:AQ:110:ILE:HB	15:AQ:113:LYS:HG3	1.83	0.60
16:AR:97:ASP:HB3	16:AR:101:ARG:NE	2.17	0.60
17:AS:41:GLY:H	17:AS:51:VAL:HA	1.67	0.60
18:AT:75:TYR:O	18:AT:104:THR:CG2	2.49	0.60
21:AW:94:GLU:CA	21:AW:130:PRO:HB3	2.31	0.60
34:BA:1145:C:HO2'	34:BA:1146:A:H8	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1308:U:N3	34:BA:1309:G:H8	1.89	0.60
34:BA:1314:C:N4	34:BA:1324:A:C6	2.70	0.60
34:BA:1329:A:O2'	34:BA:1330:U:H5'	2.01	0.60
34:BA:1455:G:O3'	53:BX:31:SER:CB	2.49	0.60
34:BA:189:U:H2'	50:BU:63:ARG:NH2	2.16	0.60
34:BA:258:G:O6	34:BA:259:G:O6	2.19	0.60
34:BA:274:A:H5'	34:BA:275:G:OP1	2.01	0.60
34:BA:404:U:H4'	37:BH:122:ARG:NH1	2.17	0.60
34:BA:409:G:H5''	37:BH:24:GLU:OE1	2.01	0.60
34:BA:44:G:C6	34:BA:45:U:C2	2.90	0.60
34:BA:474:G:O5'	49:BT:81:ARG:HG3	2.02	0.60
34:BA:558:G:C4	34:BA:559:A:C2	2.90	0.60
22:AX:7:LEU:HD13	56:BE:74:C:C2	2.36	0.60
35:BF:102:LEU:HD22	35:BF:176:GLU:OE1	2.02	0.60
35:BF:179:LYS:C	35:BF:181:PHE:N	2.53	0.60
35:BF:18:GLY:CA	35:BF:41:ILE:HG23	2.31	0.60
35:BF:52:GLU:HG2	35:BF:53:ARG:N	2.16	0.60
35:BF:87:ARG:C	35:BF:89:GLY:H	2.05	0.60
36:BG:8:ILE:O	36:BG:11:ARG:N	2.33	0.60
36:BG:48:TYR:O	36:BG:48:TYR:HD2	1.85	0.60
38:BI:75:THR:HA	38:BI:118:ILE:HD11	1.82	0.60
39:BJ:10:LEU:HD11	39:BJ:61:LEU:CD1	2.31	0.60
40:BK:115:ARG:O	40:BK:118:VAL:HB	2.00	0.60
40:BK:65:ALA:HB2	40:BK:124:LEU:HD23	1.83	0.60
41:BL:104:ARG:HB3	41:BL:107:LEU:HG	1.83	0.60
41:BL:113:SER:O	41:BL:131:GLY:HA3	2.00	0.60
41:BL:48:TYR:HA	41:BL:60:ARG:O	2.01	0.60
42:BM:23:ASN:C	42:BM:23:ASN:HD22	2.05	0.60
42:BM:53:VAL:HG11	42:BM:92:TYR:CZ	2.37	0.60
43:BN:12:ASP:O	43:BN:16:LEU:HD23	2.01	0.60
45:BP:47:LYS:N	45:BP:48:PRO:CD	2.63	0.60
46:BQ:15:VAL:CG2	46:BQ:39:ILE:HD11	1.25	0.60
46:BQ:15:VAL:CG2	46:BQ:39:ILE:HD12	0.36	0.60
46:BQ:52:GLU:HA	46:BQ:55:ARG:NE	2.17	0.60
46:BQ:91:ARG:HH11	46:BQ:91:ARG:HG2	1.67	0.60
46:BQ:96:LEU:HD12	46:BQ:97:PRO:HD2	1.84	0.60
34:BA:1327:C:OP1	54:BY:20:LYS:HE2	2.01	0.60
34:BA:1305:G:H5''	54:BY:4:GLY:C	2.22	0.60
54:BY:9:ARG:HD2	54:BY:9:ARG:N	2.16	0.60
57:BZ:154:THR:O	57:BZ:156:GLU:N	2.32	0.60
57:BZ:209:ILE:H	57:BZ:209:ILE:HD12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:393:ASP:N	57:BZ:394:GLY:HA3	2.14	0.60
57:BZ:572:ILE:HG22	57:BZ:576:GLU:HB2	1.84	0.60
1:AA:1050:A:O2'	1:AA:1051:G:H5'	1.94	0.60
1:AA:1122:G:C2	1:AA:1123:C:C5	2.90	0.60
1:AA:1301:A:O2'	1:AA:1302:A:C8	2.55	0.60
1:AA:1675:C:C5	5:AE:129:HIS:CD2	2.89	0.60
1:AA:1695:G:N3	1:AA:1695:G:C3'	2.62	0.60
1:AA:1820:U:O4	4:AD:159:ALA:O	2.20	0.60
1:AA:1909:C:N3	1:AA:1922:G:N1	2.44	0.60
1:AA:1934:C:H2'	1:AA:1935:G:H8	1.67	0.60
1:AA:197:A:H3'	1:AA:198:C:C5	2.36	0.60
1:AA:1997:G:C2	1:AA:1998:G:C5	2.89	0.60
1:AA:2053:G:C2'	1:AA:2054:A:O5'	2.49	0.60
1:AA:2277:G:H3'	1:AA:2278:A:C5'	2.25	0.60
1:AA:2472:G:OP1	1:AA:2473:U:H5''	2.02	0.60
1:AA:2507:C:O3'	56:BD:75:C:C2	2.53	0.60
1:AA:2527:C:OP2	1:AA:2527:C:H3'	2.01	0.60
1:AA:225:A:O2'	1:AA:257:A:H4'	2.01	0.60
1:AA:2582:G:C2	1:AA:2583:G:H1'	2.36	0.60
1:AA:2630:G:O6	1:AA:2894:G:O6	2.06	0.60
1:AA:2646:C:C4	1:AA:2647:U:O4	2.54	0.60
1:AA:2740:A:N6	1:AA:2764:A:H1'	2.17	0.60
1:AA:32:C:OP1	1:AA:1238:G:H5'	2.02	0.60
1:AA:373:U:H4'	1:AA:374:A:H8	1.64	0.60
1:AA:411:G:N2	1:AA:415:A:H61	2.00	0.60
1:AA:511:U:OP2	1:AA:512:G:N7	2.35	0.60
1:AA:704:G:H22	1:AA:726:G:C2'	2.14	0.60
1:AA:709:U:H2'	1:AA:710:G:H8	1.65	0.60
1:AA:734:A:H2'	1:AA:735:A:O5'	2.00	0.60
1:AA:805:G:H1'	1:AA:831:G:O2'	2.01	0.60
1:AA:566:U:O2'	1:AA:809:G:OP2	2.17	0.60
1:AA:860:U:H2'	1:AA:861:A:C5'	2.31	0.60
1:AA:914:C:H2'	1:AA:915:C:H5'	1.83	0.60
4:AD:132:PRO:HB2	4:AD:134:ARG:CD	2.32	0.60
4:AD:132:PRO:HG2	4:AD:135:PHE:CD1	2.37	0.60
4:AD:21:PHE:HB3	4:AD:205:VAL:HG21	1.84	0.60
4:AD:53:PHE:O	4:AD:54:ARG:C	2.40	0.60
4:AD:76:PRO:HG2	4:AD:98:VAL:CG2	2.23	0.60
4:AD:7:LYS:NZ	4:AD:91:ARG:NE	2.50	0.60
6:AF:125:LEU:HD22	6:AF:128:ALA:HB2	1.82	0.60
7:AG:139:LEU:O	7:AG:139:LEU:HD22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:147:ASP:O	7:AG:148:MET:HB2	2.01	0.60
7:AG:64:THR:HG21	7:AG:92:VAL:HG11	1.83	0.60
7:AG:6:ALA:HA	7:AG:9:ARG:NE	2.17	0.60
8:AH:87:LEU:N	8:AH:132:ARG:HB3	2.16	0.60
32:AJ:71:THR:HB	32:AJ:72:PRO:HD3	1.83	0.60
9:AK:87:LEU:O	9:AK:90:MET:CB	2.44	0.60
10:AL:23:ARG:HD3	10:AL:23:ARG:H	1.67	0.60
10:AL:23:ARG:NH1	10:AL:23:ARG:HB2	2.04	0.60
14:AP:74:ALA:CB	14:AP:108:GLY:CA	2.67	0.60
2:AB:114:G:H1'	14:AP:38:GLN:HE22	1.63	0.60
14:AP:3:ARG:CG	14:AP:4:LEU:N	2.57	0.60
10:AL:122:LEU:OXT	15:AQ:74:ARG:NH2	2.35	0.60
15:AQ:95:ARG:NH2	15:AQ:95:ARG:CB	2.64	0.60
16:AR:5:LYS:C	16:AR:7:GLY:H	2.04	0.60
16:AR:83:LEU:C	16:AR:86:ALA:HB3	2.22	0.60
17:AS:20:LEU:CB	17:AS:95:LEU:HD13	2.31	0.60
20:AV:13:VAL:CG1	20:AV:70:SER:HB3	2.32	0.60
21:AW:165:VAL:CG1	21:AW:166:SER:H	1.97	0.60
21:AW:43:GLU:HA	21:AW:46:LYS:HD2	1.84	0.60
21:AW:9:TYR:HD2	21:AW:14:LYS:HZ3	1.48	0.60
23:AY:14:VAL:HA	23:AY:17:GLU:OE2	2.01	0.60
23:AY:30:LEU:O	23:AY:33:GLN:N	2.35	0.60
1:AA:988:A:H5''	24:AZ:10:LYS:CE	2.31	0.60
34:BA:1025:U:H2'	34:BA:1026:G:C8	2.37	0.60
34:BA:1054:C:OP2	34:BA:1197:G:P	2.59	0.60
34:BA:107:G:C6	53:BX:15:ARG:NH2	2.69	0.60
34:BA:110:C:O5'	34:BA:110:C:H6	1.85	0.60
34:BA:1196:U:C6	34:BA:1196:U:H3'	2.36	0.60
34:BA:1307:U:O3'	46:BQ:97:PRO:HA	2.01	0.60
34:BA:1270:C:C4'	34:BA:1313:U:H4'	2.28	0.60
34:BA:1370:G:H5''	42:BM:12:GLU:CD	2.22	0.60
34:BA:1389:C:H2'	34:BA:1390:U:C5'	2.31	0.60
34:BA:1463:C:H2'	34:BA:1464:G:H5'	1.84	0.60
34:BA:1419:G:O6	34:BA:1482:G:C6	2.54	0.60
34:BA:277:C:OP2	50:BU:41:LYS:NZ	2.34	0.60
34:BA:290:C:H2'	34:BA:291:C:H5'	1.84	0.60
34:BA:306:G:N3	34:BA:307:C:C6	2.69	0.60
34:BA:564:C:C5	50:BU:31:LEU:HD11	2.37	0.60
34:BA:599:C:O2'	41:BL:130:GLY:N	2.34	0.60
34:BA:766:A:N7	34:BA:814:A:C6	2.69	0.60
34:BA:816:A:C2'	34:BA:817:C:OP2	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:95:G:C2'	34:BA:96:G:H5'	2.32	0.60
34:BA:978:A:N6	34:BA:1361:G:N2	2.38	0.60
56:BE:19:G:N3	56:BE:57:G:N2	2.50	0.60
56:BE:21:A:H2'	56:BE:22:G:C4'	2.32	0.60
35:BF:56:ARG:O	35:BF:59:GLU:HG3	2.02	0.60
35:BF:55:PHE:HA	35:BF:58:ILE:CG1	2.31	0.60
35:BF:78:GLN:NE2	35:BF:96:ARG:HH12	1.98	0.60
36:BG:173:VAL:O	36:BG:175:LEU:N	2.35	0.60
36:BG:35:GLU:HA	36:BG:38:ARG:HG2	1.82	0.60
39:BJ:52:ILE:HG21	39:BJ:87:ARG:NH1	2.17	0.60
40:BK:26:PHE:CD2	40:BK:43:PHE:HE1	2.19	0.60
40:BK:73:MET:CE	40:BK:146:GLU:HB2	2.32	0.60
41:BL:122:ARG:N	41:BL:122:ARG:HD3	2.17	0.60
41:BL:38:ILE:C	41:BL:41:ARG:HB2	2.21	0.60
41:BL:6:ILE:CD1	41:BL:85:ARG:HD3	2.32	0.60
41:BL:10:LEU:CD1	41:BL:85:ARG:HB2	2.32	0.60
41:BL:98:LYS:HG2	41:BL:98:LYS:O	2.01	0.60
44:BO:54:ARG:HG3	44:BO:54:ARG:NH1	2.09	0.60
34:BA:33:A:N3	45:BP:32:PHE:CZ	2.70	0.60
46:BQ:20:THR:N	46:BQ:25:ILE:CG2	2.65	0.60
51:BV:34:TYR:CD1	51:BV:35:ARG:N	2.69	0.60
34:BA:719:C:O2	51:BV:50:ILE:HG13	2.02	0.60
53:BX:14:LYS:O	53:BX:15:ARG:C	2.39	0.60
57:BZ:251:VAL:HG12	57:BZ:274:VAL:N	2.17	0.60
57:BZ:488:LEU:HD21	57:BZ:527:HIS:CA	2.32	0.60
57:BZ:79:ALA:C	57:BZ:82:GLY:H	2.04	0.60
57:BZ:9:ALA:HB1	57:BZ:73:VAL:CB	2.26	0.60
56:BD:67:C:H2'	56:BD:68:C:C5'	2.32	0.60
1:AA:1913:A:H2	56:BD:37:A:O2'	1.83	0.60
1:AA:883:G:O2'	1:AA:884:C:OP1	2.13	0.60
1:AA:1416:G:N2	1:AA:1417:C:N4	2.48	0.60
57:BZ:258:LEU:HB3	57:BZ:259:GLY:CA	2.32	0.60
13:AO:60:LEU:H	13:AO:60:LEU:HD23	1.65	0.60
1:AA:1043:C:O2'	1:AA:1045:A:OP1	2.18	0.60
1:AA:1366:A:C2	1:AA:1367:A:N3	2.69	0.60
1:AA:1801:G:N7	1:AA:2207:C:O2'	2.31	0.60
1:AA:1364:G:P	1:AA:1809:A:C6	2.94	0.60
1:AA:1813:G:O2'	4:AD:46:GLN:CG	2.49	0.60
1:AA:1969:A:C5'	1:AA:1970:A:OP1	2.49	0.60
1:AA:2011:U:H2'	1:AA:2012:G:H8	1.67	0.60
1:AA:2043:C:O2'	1:AA:2044:C:C5'	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2043:C:O2'	1:AA:2044:C:O5'	2.20	0.60
1:AA:2135:A:C5'	1:AA:2136:C:H5	2.15	0.60
1:AA:2306:C:H4'	7:AG:153:ARG:HH21	1.66	0.60
1:AA:2313:C:H2'	1:AA:2314:C:H6	1.65	0.60
1:AA:2321:G:N3	1:AA:2321:G:H2'	2.16	0.60
1:AA:1966:A:C1'	1:AA:2593:U:H5'	2.25	0.60
1:AA:2682:U:N3	5:AE:21:VAL:HG11	2.16	0.60
1:AA:270(B):A:H1'	1:AA:270(C):C:H5	1.62	0.60
1:AA:2882:A:C2'	1:AA:2883:A:O5'	2.50	0.60
1:AA:294:A:H2'	1:AA:295:G:H5'	1.84	0.60
1:AA:404:C:H5'	1:AA:406:G:O4'	2.01	0.60
1:AA:412:A:H2'	1:AA:413:C:O4'	2.01	0.60
1:AA:475:U:C2	1:AA:479:A:N6	2.69	0.60
1:AA:601:C:H2'	1:AA:601:C:O2	2.02	0.60
1:AA:878:A:C4	1:AA:879:G:N7	2.69	0.60
1:AA:878:A:H2	1:AA:879:G:H3'	1.66	0.60
1:AA:879:G:N1	1:AA:897:C:O2'	2.35	0.60
1:AA:957:A:N6	1:AA:959:A:C4	2.70	0.60
1:AA:986:C:O5'	1:AA:986:C:H6	1.84	0.60
2:AB:97:G:C2'	2:AB:98:G:H5'	2.31	0.60
1:AA:2124:G:O4'	3:AC:44:HIS:HE1	1.84	0.60
3:AC:62:VAL:HB	3:AC:192:PHE:N	2.08	0.60
1:AA:729:G:C5'	4:AD:211:ARG:HH12	2.14	0.60
4:AD:223:GLY:C	4:AD:225:ALA:N	2.55	0.60
4:AD:229:VAL:HG13	4:AD:230:ASP:OD1	2.02	0.60
5:AE:104:VAL:CG1	5:AE:105:THR:N	2.61	0.60
5:AE:154:LYS:HD2	5:AE:155:LYS:O	2.01	0.60
5:AE:186:GLY:C	5:AE:188:VAL:H	2.04	0.60
1:AA:2787:C:H1'	5:AE:61:ARG:CD	2.30	0.60
6:AF:125:LEU:C	6:AF:127:GLU:N	2.53	0.60
7:AG:139:LEU:HD13	7:AG:142:PRO:CB	2.31	0.60
7:AG:170:ARG:HD3	7:AG:174:GLU:CB	2.31	0.60
7:AG:119:GLY:HA3	7:AG:180:PHE:CE1	2.37	0.60
32:AJ:66:THR:HG22	32:AJ:67:PHE:H	1.67	0.60
32:AJ:99:ILE:O	32:AJ:103:GLN:OE1	2.20	0.60
11:AM:114:ILE:HG21	11:AM:134:ALA:HB2	1.83	0.60
11:AM:112:LEU:O	11:AM:129:ALA:HB3	2.02	0.60
11:AM:46:LYS:HA	11:AM:49:ARG:NH1	2.17	0.60
12:AN:38:GLU:OE2	12:AN:38:GLU:N	2.35	0.60
12:AN:76:LYS:HD2	12:AN:76:LYS:C	2.21	0.60
15:AQ:113:LYS:O	15:AQ:114:LEU:C	2.40	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:89:GLU:OE1	17:AS:50:PRO:CB	2.47	0.60
17:AS:4:ILE:CG1	17:AS:13:ARG:HG2	2.32	0.60
18:AT:13:SER:C	18:AT:16:LYS:HZ3	2.04	0.60
1:AA:1313:U:P	19:AU:63:LYS:HD2	2.41	0.60
23:AY:48:LEU:HD12	23:AY:51:GLN:HE22	1.64	0.60
34:BA:1392:G:H2'	34:BA:1393:U:C6	2.36	0.60
34:BA:1468:A:C8	34:BA:1469:G:C8	2.90	0.60
10:AL:115:VAL:HG12	34:BA:345:C:O2'	2.02	0.60
34:BA:362:G:N3	34:BA:364:A:C8	2.69	0.60
34:BA:390:C:C4	34:BA:391:G:N7	2.70	0.60
34:BA:425:G:C2'	34:BA:426:G:H5'	2.32	0.60
34:BA:67:C:H4'	34:BA:172:A:C1'	2.32	0.60
34:BA:696:A:H2'	34:BA:697:U:C5'	2.31	0.60
34:BA:866:C:H3'	34:BA:867:G:H8	1.66	0.60
34:BA:570:G:N2	34:BA:873:A:N1	2.50	0.60
34:BA:877:C:O2'	34:BA:878:G:H5'	2.02	0.60
34:BA:918:A:O2'	34:BA:919:A:OP1	2.19	0.60
34:BA:990:C:H2'	34:BA:991:U:C1'	2.31	0.60
34:BA:995:C:O2'	47:BR:4:LYS:HE2	2.00	0.60
56:BE:18:G:N9	56:BE:58:A:C2	2.69	0.60
56:BE:27:G:H2'	56:BE:28:G:H8	1.66	0.60
56:BE:21:A:N6	56:BE:46:G:C2'	2.65	0.60
35:BF:113:HIS:HA	35:BF:116:GLU:OE1	2.02	0.60
35:BF:138:LEU:O	35:BF:141:GLU:HB3	2.01	0.60
35:BF:170:GLU:O	35:BF:171:ALA:C	2.40	0.60
35:BF:166:ASP:OD1	35:BF:205:ASP:OD2	2.20	0.60
35:BF:222:ILE:O	35:BF:226:ARG:CB	2.42	0.60
35:BF:35:GLU:O	35:BF:36:ARG:NE	2.35	0.60
35:BF:97:TRP:CE3	35:BF:172:ILE:HB	2.36	0.60
36:BG:142:MET:CB	36:BG:149:ALA:HB2	2.32	0.60
36:BG:157:ILE:HG22	36:BG:157:ILE:O	2.00	0.60
36:BG:33:LEU:CG	47:BR:54:PRO:HD2	2.31	0.60
36:BG:83:ARG:C	36:BG:85:ARG:H	2.05	0.60
37:BH:100:ARG:HH22	37:BH:137:SER:CA	2.13	0.60
37:BH:170:VAL:HG12	37:BH:171:GLY:N	2.17	0.60
37:BH:32:ALA:HB3	37:BH:33:MET:HE3	1.83	0.60
38:BI:78:HIS:ND1	41:BL:104:ARG:HD3	2.17	0.60
41:BL:38:ILE:CA	41:BL:41:ARG:HB2	2.32	0.60
41:BL:69:ARG:NH1	41:BL:73:ASP:O	2.34	0.60
43:BN:79:ARG:NH2	43:BN:82:ILE:HG21	2.15	0.60
44:BO:45:GLY:O	44:BO:50:TYR:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:362:G:H4'	45:BP:28:LYS:HZ1	1.65	0.60
34:BA:1225:A:OP2	46:BQ:102:ARG:O	2.20	0.60
34:BA:1302:U:P	46:BQ:21:TYR:HE2	2.25	0.60
47:BR:40:CYS:O	47:BR:44:LEU:HB2	2.02	0.60
48:BS:70:LEU:HD11	48:BS:77:ARG:HH21	1.67	0.60
49:BT:20:VAL:C	49:BT:36:ILE:HD11	2.21	0.60
50:BU:43:LEU:C	50:BU:43:LEU:CD1	2.66	0.60
45:BP:126:LYS:HD2	45:BP:128:ALA:HB3	1.84	0.60
1:AA:1579:A:H62	1:AA:1581:G:N2	1.98	0.60
14:AP:56:LEU:HB3	14:AP:59:LYS:NZ	2.17	0.60
1:AA:1055:G:O5'	1:AA:1055:G:H8	1.84	0.60
1:AA:1078:U:C5'	32:AJ:137:GLU:OE1	2.49	0.60
1:AA:1179:C:C2	1:AA:1180:C:C5	2.90	0.60
1:AA:819:A:H62	1:AA:1188:U:H3	1.49	0.60
1:AA:1243:G:C6	1:AA:1244:G:C5	2.89	0.60
1:AA:1264:G:N7	1:AA:1265:A:N9	2.50	0.60
1:AA:1326:U:H2'	1:AA:1327:C:C5'	2.25	0.60
1:AA:1365:A:C5	1:AA:1366:A:N7	2.70	0.60
1:AA:139:G:C2'	1:AA:140:A:O5'	2.49	0.60
1:AA:1449:A:C2	1:AA:1449(A):G:C1'	2.85	0.60
1:AA:1528:A:N7	1:AA:1529:A:N1	2.50	0.60
1:AA:1534:G:H21	1:AA:1537:C:N4	1.99	0.60
1:AA:1690:A:N6	1:AA:1697:G:N2	2.49	0.60
1:AA:1825:A:C6	1:AA:1826:G:O6	2.54	0.60
1:AA:2009:G:H5''	18:AT:41:LYS:CG	2.32	0.60
1:AA:2020:A:N6	1:AA:2022:U:C2	2.69	0.60
1:AA:980:A:C2	1:AA:2038:G:O4'	2.53	0.60
1:AA:2116:G:C5'	1:AA:2117:A:OP2	2.48	0.60
1:AA:2199:A:OP2	1:AA:2205:C:H5	1.85	0.60
1:AA:223:A:H4'	1:AA:223:A:OP2	2.02	0.60
1:AA:2251:G:N1	1:AA:2252:G:C2	2.70	0.60
1:AA:2330:G:H2'	1:AA:2331:G:O4'	2.00	0.60
1:AA:2283:C:C4	1:AA:2389:G:N2	2.70	0.60
1:AA:2059:A:H2	1:AA:2503:A:H62	1.42	0.60
1:AA:1129:A:O2'	1:AA:2515:C:H1'	2.01	0.60
1:AA:2537:U:N3	1:AA:2538:C:N4	2.50	0.60
1:AA:2652:C:C2	1:AA:2670:A:C1'	2.84	0.60
1:AA:2688:U:C2'	1:AA:2688:U:O2	2.46	0.60
1:AA:2522:U:O2	1:AA:2765:A:N6	2.34	0.60
1:AA:2774:C:H3'	1:AA:2775:A:H8	1.67	0.60
1:AA:557:U:H2'	1:AA:558:G:O4'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:569:U:P	1:AA:945:A:N6	2.75	0.60
1:AA:590:A:H5'	6:AF:93:LYS:NZ	2.17	0.60
1:AA:601:C:O2'	1:AA:604:G:H5''	2.02	0.60
1:AA:637:A:C2	1:AA:651:G:H4'	2.37	0.60
1:AA:7:G:H2'	1:AA:8:A:H8	1.67	0.60
1:AA:901:A:C3'	1:AA:902:C:H5'	2.31	0.60
2:AB:23:G:N2	2:AB:61:G:C5	2.70	0.60
3:AC:156:ILE:CD1	3:AC:160:ARG:HG3	2.27	0.60
4:AD:143:HIS:NE2	4:AD:192:THR:CG2	2.65	0.60
1:AA:1813:G:C4'	4:AD:46:GLN:HB2	2.29	0.60
5:AE:81:ILE:CG2	5:AE:82:ARG:N	2.64	0.60
7:AG:36:LYS:NZ	7:AG:38:VAL:HG13	2.17	0.60
8:AH:17:VAL:CG2	8:AH:45:VAL:HG21	2.32	0.60
8:AH:68:THR:HG22	8:AH:72:ILE:HD12	1.83	0.60
8:AH:76:VAL:O	8:AH:79:VAL:HG22	2.02	0.60
32:AJ:27:LEU:CD2	32:AJ:58:THR:HA	2.31	0.60
9:AK:123:TYR:C	9:AK:125:GLY:N	2.55	0.60
9:AK:33:LEU:CD1	9:AK:34:LEU:HG	2.29	0.60
9:AK:42:TRP:HA	9:AK:47:ALA:CB	2.31	0.60
10:AL:60:ALA:C	10:AL:83:ALA:HB1	2.20	0.60
10:AL:97:ARG:CZ	10:AL:97:ARG:CB	2.78	0.60
13:AO:110:PRO:O	13:AO:111:LEU:HD23	2.01	0.60
15:AQ:27:THR:HB	15:AQ:95:ARG:H	1.67	0.60
16:AR:53:ARG:CB	16:AR:53:ARG:NH1	2.62	0.60
16:AR:58:ARG:HG3	16:AR:58:ARG:HH11	1.65	0.60
17:AS:5:VAL:HG13	17:AS:39:LEU:HA	1.83	0.60
1:AA:1340:U:H5	19:AU:57:LEU:CG	2.14	0.60
20:AV:97:ARG:NH2	20:AV:101:LYS:HD3	2.16	0.60
21:AW:98:MET:O	21:AW:125:LEU:O	2.19	0.60
24:AZ:26:LEU:CB	24:AZ:35:ARG:HH11	2.14	0.60
24:AZ:50:VAL:HG13	24:AZ:53:LEU:CG	2.32	0.60
34:BA:1095:U:OP1	34:BA:1108:G:N2	2.34	0.60
15:AQ:111:ARG:HH22	34:BA:1433:A:H5''	1.66	0.60
34:BA:169:C:O2'	34:BA:170:U:H5'	2.01	0.60
34:BA:173:U:H4'	34:BA:197:A:H1'	1.83	0.60
34:BA:357:G:H1'	34:BA:368:U:O2	2.02	0.60
34:BA:510:A:H8	34:BA:510:A:O5'	1.85	0.60
34:BA:678:U:C2	34:BA:679:C:C5	2.90	0.60
34:BA:685:G:H2'	34:BA:686:U:C6	2.36	0.60
34:BA:689:C:P	44:BO:55:LYS:HZ2	2.25	0.60
34:BA:766:A:C2	34:BA:767:A:H1'	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:777:A:C4	34:BA:778:G:C8	2.89	0.60
34:BA:796:C:C2	34:BA:797:C:C5	2.90	0.60
34:BA:827:U:H4'	41:BL:19:VAL:CG2	2.26	0.60
34:BA:854:G:P	34:BA:871:U:O2	2.59	0.60
34:BA:921:U:C2	34:BA:922:G:C8	2.90	0.60
34:BA:951:G:O4'	34:BA:971:G:H5'	2.02	0.60
35:BF:112:VAL:HG13	35:BF:149:LEU:HD21	1.84	0.60
35:BF:77:ALA:O	35:BF:80:ILE:N	2.34	0.60
36:BG:12:LEU:O	36:BG:17:ASP:OD2	2.19	0.60
36:BG:42:LEU:HD12	36:BG:94:LEU:CD1	2.32	0.60
37:BH:114:ARG:HG3	37:BH:114:ARG:HH11	1.66	0.60
38:BI:94:ALA:CB	38:BI:119:LEU:HD21	2.31	0.60
39:BJ:13:ASN:HD22	39:BJ:13:ASN:N	1.98	0.60
39:BJ:41:GLU:H	39:BJ:63:TYR:HD1	1.49	0.60
40:BK:107:ALA:HB3	40:BK:123:GLU:OE1	2.02	0.60
40:BK:12:LEU:HD22	40:BK:24:THR:HG22	1.83	0.60
40:BK:38:LEU:CD1	40:BK:41:ARG:HD3	2.32	0.60
41:BL:104:ARG:CB	41:BL:107:LEU:HG	2.32	0.60
41:BL:1:MET:CG	41:BL:2:LEU:H	2.14	0.60
42:BM:27:THR:HG23	42:BM:30:GLY:O	2.02	0.60
44:BO:26:ASN:O	44:BO:27:ASN:HB2	2.02	0.60
44:BO:39:PRO:C	44:BO:40:ILE:HD13	2.21	0.60
45:BP:86:ARG:HH22	45:BP:119:LYS:CG	2.15	0.60
46:BQ:25:ILE:HG12	46:BQ:66:LEU:HD21	1.84	0.60
46:BQ:85:GLY:O	52:BW:74:PHE:HB3	2.02	0.60
34:BA:1358:U:OP1	47:BR:34:TYR:HA	2.02	0.60
48:BS:40:SER:O	48:BS:43:LEU:HB2	2.02	0.60
51:BV:80:PRO:HB2	51:BV:82:THR:O	2.00	0.60
52:BW:43:GLU:O	52:BW:47:HIS:NE2	2.30	0.60
57:BZ:101:ALA:O	57:BZ:135:ALA:CA	2.50	0.60
57:BZ:82:GLY:N	57:BZ:361:ARG:CB	2.64	0.60
57:BZ:8:ILE:HD12	57:BZ:96:LEU:HD12	1.84	0.60
23:AY:11:LEU:HD12	23:AY:11:LEU:N	2.16	0.60
31:AI:97:ALA:HB2	31:AI:132:ASP:C	2.23	0.60
57:BZ:185:PRO:HD2	57:BZ:186:LEU:H	1.67	0.60
1:AA:114:U:H2'	1:AA:115:C:H6	1.67	0.60
1:AA:1242:A:C8	1:AA:1242:A:OP1	2.55	0.60
1:AA:1246:A:N6	1:AA:1247:A:C6	2.70	0.60
1:AA:1435:G:O2'	1:AA:1436:G:H5'	2.02	0.60
1:AA:1447:G:H1'	1:AA:1545(A):A:H1'	1.82	0.60
1:AA:1458:C:H4'	1:AA:1459:G:C5	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:150:C:O2	1:AA:150:C:C2'	2.49	0.60
1:AA:1525:G:N2	1:AA:1526:G:H1'	2.17	0.60
1:AA:1675:C:C2'	1:AA:1676:A:H5'	2.32	0.60
1:AA:1769:G:C6	1:AA:1984:G:C6	2.89	0.60
1:AA:1824:G:O2'	4:AD:246:PRO:CB	2.43	0.60
1:AA:1906:G:C2	1:AA:1929:G:C6	2.88	0.60
1:AA:1905:C:H2'	1:AA:1930:G:C8	2.37	0.60
1:AA:197:A:H3'	1:AA:198:C:H6	1.67	0.60
1:AA:1667:G:O6	1:AA:1992:G:P	2.60	0.60
1:AA:2006:C:H5''	1:AA:2048:G:H5''	1.83	0.60
1:AA:2209:C:OP2	1:AA:2210:G:OP2	2.19	0.60
1:AA:2230:G:H2'	1:AA:2231:C:H6	1.66	0.60
1:AA:2283:C:C5	1:AA:2389:G:C2	2.90	0.60
1:AA:2075:U:H5	1:AA:2435:A:N1	2.00	0.60
1:AA:2666:C:H41	1:AA:2667:C:H41	1.48	0.60
1:AA:298:G:H1	1:AA:338:G:HO2'	1.43	0.60
1:AA:219:G:O6	1:AA:428:A:OP1	2.19	0.60
1:AA:4:C:H2'	1:AA:5:A:H8	1.66	0.60
1:AA:653:A:C5'	1:AA:654:A:H4'	2.32	0.60
1:AA:672:C:H3'	11:AM:38:GLN:NE2	2.12	0.60
1:AA:6:A:N3	1:AA:2898:U:N1	2.49	0.60
1:AA:728:G:O2'	1:AA:729:G:C5'	2.50	0.60
1:AA:756:C:C2'	1:AA:757:U:H5'	2.30	0.60
1:AA:838:C:H2'	1:AA:839:U:H6	1.67	0.60
1:AA:937:U:O2'	1:AA:938:G:H5'	2.01	0.60
3:AC:77:ILE:HB	3:AC:115:ALA:HB2	1.82	0.60
4:AD:256:GLY:O	4:AD:257:LEU:HG	2.01	0.60
4:AD:260:ARG:HG3	4:AD:260:ARG:NH1	2.17	0.60
5:AE:105:THR:CB	5:AE:166:THR:CB	2.69	0.60
1:AA:2052:G:C1'	5:AE:150:VAL:HG23	2.32	0.60
5:AE:37:ARG:HB2	5:AE:40:GLU:HB2	1.83	0.60
5:AE:54:GLN:HG2	5:AE:57:LYS:HG3	1.82	0.60
6:AF:36:VAL:CG1	6:AF:37:VAL:N	2.64	0.60
7:AG:110:ALA:HB1	7:AG:139:LEU:CD2	2.32	0.60
7:AG:44:GLY:N	7:AG:88:ILE:HG21	2.17	0.60
7:AG:60:LEU:CD2	7:AG:90:LEU:HD11	2.22	0.60
32:AJ:17:ALA:C	32:AJ:41:PHE:HB2	2.22	0.60
32:AJ:62:ASP:H	32:AJ:63:ARG:HA	1.67	0.60
9:AK:16:ILE:C	9:AK:54:VAL:HG23	2.22	0.60
10:AL:70:LYS:NZ	10:AL:103:ALA:HB3	2.16	0.60
1:AA:1249:U:H3	11:AM:21:ARG:NH1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:76:LYS:CE	11:AM:99:LEU:HD11	2.31	0.60
12:AN:102:VAL:CG1	12:AN:102:VAL:O	2.50	0.60
12:AN:77:LYS:HB2	12:AN:78:PRO:CD	2.32	0.60
15:AQ:2:ASN:O	15:AQ:5:ALA:HB3	2.02	0.60
15:AQ:4:GLY:CA	15:AQ:8:LYS:HE3	2.32	0.60
16:AR:61:TRP:HA	16:AR:65:ILE:HD11	1.83	0.60
17:AS:21:ARG:HG3	17:AS:21:ARG:NH1	2.14	0.60
17:AS:93:GLU:OE2	17:AS:95:LEU:HD22	2.01	0.60
19:AU:92:LEU:HA	19:AU:95:LEU:HD12	1.83	0.60
20:AV:1:MET:HG2	20:AV:33:LYS:HG3	1.83	0.60
21:AW:137:ILE:C	21:AW:138:GLU:HG3	2.21	0.60
21:AW:39:VAL:HG13	21:AW:44:PHE:CG	2.36	0.60
21:AW:49:ARG:C	21:AW:51:ALA:N	2.52	0.60
23:AY:20:VAL:CG2	23:AY:24:LYS:HE3	2.32	0.60
23:AY:38:GLN:N	23:AY:41:GLN:NE2	2.39	0.60
24:AZ:16:PRO:HG2	24:AZ:19:GLN:CB	2.31	0.60
24:AZ:23:LEU:CB	24:AZ:28:LEU:HD12	2.32	0.60
34:BA:1300:G:C2	34:BA:1335:C:C2	2.90	0.60
34:BA:1343:G:H2'	34:BA:1344:C:C6	2.37	0.60
34:BA:246:A:H4'	34:BA:247:G:H4'	1.84	0.60
34:BA:323:U:C5	34:BA:324:G:H1'	2.37	0.60
34:BA:376:G:H2'	34:BA:377:G:C8	2.26	0.60
34:BA:483:C:N4	34:BA:484:G:C2	2.70	0.60
34:BA:562:C:C2'	45:BP:15:ARG:HB3	2.32	0.60
34:BA:687:A:H2'	34:BA:701:C:H41	1.66	0.60
34:BA:790:A:N6	34:BA:791:G:N1	2.49	0.60
34:BA:791:G:H3'	34:BA:791:G:OP2	2.02	0.60
34:BA:902:G:HO2'	34:BA:903:G:H5'	1.65	0.60
34:BA:944:G:H8	34:BA:944:G:O5'	1.85	0.60
35:BF:115:LEU:HB2	35:BF:145:LEU:CG	2.31	0.60
35:BF:169:LYS:C	35:BF:171:ALA:H	2.05	0.60
36:BG:43:LEU:CD1	36:BG:55:VAL:HG11	2.32	0.60
36:BG:39:ILE:HG21	36:BG:57:ILE:HD13	1.84	0.60
37:BH:128:VAL:HG21	37:BH:133:VAL:CB	2.32	0.60
34:BA:620:C:N3	37:BH:135:LEU:HD22	2.17	0.60
38:BI:34:VAL:HG21	38:BI:62:ALA:CB	2.32	0.60
39:BJ:4:TYR:HB3	39:BJ:91:VAL:O	2.01	0.60
39:BJ:69:GLU:O	39:BJ:72:VAL:HG13	2.02	0.60
40:BK:76:ARG:HD3	40:BK:89:MET:HE1	1.83	0.60
41:BL:17:THR:HG21	41:BL:80:ILE:HG21	1.84	0.60
35:BF:181:PHE:HE1	41:BL:70:GLN:HE22	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:95:VAL:HG11	41:BL:133:LEU:HD11	1.84	0.60
43:BN:63:PHE:HA	47:BR:59:ALA:HB2	1.83	0.60
44:BO:18:ARG:NH2	44:BO:36:ASP:O	2.35	0.60
44:BO:87:THR:CG2	44:BO:91:ARG:HH22	2.14	0.60
49:BT:12:LYS:HZ2	49:BT:13:HIS:CD2	2.19	0.60
50:BU:81:ARG:CG	50:BU:84:LEU:HD21	2.32	0.60
50:BU:95:TYR:O	50:BU:97:SER:N	2.35	0.60
44:BO:84:VAL:HG21	51:BV:88:LYS:HZ2	1.67	0.60
52:BW:37:ARG:O	52:BW:70:LYS:HE2	2.02	0.60
52:BW:9:VAL:HG13	52:BW:42:PRO:N	2.12	0.60
57:BZ:200:ASP:CB	57:BZ:228:ARG:CD	2.80	0.60
57:BZ:396:LYS:CA	57:BZ:474:ASP:C	2.68	0.60
1:AA:1214:A:H62	1:AA:1236:G:H21	1.50	0.59
1:AA:1227:A:C2'	1:AA:1228:G:H5''	2.32	0.59
1:AA:1322:A:H2'	1:AA:1323:U:H5'	1.84	0.59
1:AA:1427:A:OP1	1:AA:1427:A:C8	2.55	0.59
1:AA:1448:G:H2'	1:AA:1449:A:C8	2.37	0.59
1:AA:1531:C:N3	1:AA:1532:C:N4	2.40	0.59
1:AA:1560:G:H2'	1:AA:1561:G:H8	1.67	0.59
1:AA:1618:A:OP1	1:AA:1618:A:C8	2.54	0.59
1:AA:1667:G:N3	1:AA:1667:G:C2'	2.64	0.59
1:AA:1796:U:C2	1:AA:1797:C:C5	2.89	0.59
1:AA:1830:C:C2	1:AA:1831:G:C8	2.90	0.59
1:AA:1830:C:N3	1:AA:1831:G:N7	2.50	0.59
1:AA:2230:G:H2'	1:AA:2231:C:C6	2.37	0.59
1:AA:2335:A:H2'	1:AA:2337:G:C8	2.37	0.59
1:AA:2361:A:H3'	1:AA:2362:G:C8	2.28	0.59
1:AA:2660:A:C4	57:BZ:457:THR:CA	2.85	0.59
1:AA:2661:G:C4	1:AA:2662:A:N7	2.70	0.59
1:AA:2821:A:H2'	1:AA:2822:G:O4'	2.01	0.59
1:AA:2861:G:H2'	1:AA:2862:G:H8	1.67	0.59
1:AA:374:A:C2	1:AA:375:C:H1'	2.36	0.59
1:AA:452:G:N7	1:AA:453:C:C5	2.70	0.59
1:AA:731:C:H6	1:AA:731:C:H5'	1.66	0.59
1:AA:76:C:H4'	23:AY:54:ARG:HG2	1.83	0.59
1:AA:961:C:O2'	1:AA:962:G:P	2.59	0.59
1:AA:974:G:C3'	1:AA:974(A):C:H5''	2.16	0.59
1:AA:974:G:OP2	1:AA:974(A):C:OP2	2.19	0.59
1:AA:2128:C:O5'	3:AC:35:ALA:HB1	2.02	0.59
3:AC:75:LEU:HD13	3:AC:110:PHE:CE2	2.36	0.59
4:AD:105:ILE:O	4:AD:106:ILE:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LEU:C	4:AD:62:TYR:CG	2.75	0.59
4:AD:60:ARG:CD	4:AD:62:TYR:HE2	2.09	0.59
4:AD:61:LEU:CD1	4:AD:86:PRO:HD3	2.32	0.59
5:AE:51:PHE:HZ	5:AE:75:VAL:HG22	1.66	0.59
6:AF:19:GLU:C	6:AF:20:LEU:CD2	2.50	0.59
6:AF:34:TRP:C	6:AF:38:ARG:HD2	2.22	0.59
7:AG:110:ALA:CB	7:AG:139:LEU:HG	2.31	0.59
7:AG:151:ALA:C	7:AG:152:LEU:HG	2.17	0.59
7:AG:4:ASP:HB3	7:AG:104:GLU:OE2	2.02	0.59
7:AG:57:ALA:CA	7:AG:68:PRO:HD2	2.29	0.59
8:AH:120:GLY:HA3	8:AH:136:ILE:CG2	2.27	0.59
8:AH:85:LYS:HD2	8:AH:145:ALA:HB2	1.83	0.59
32:AJ:71:THR:HB	32:AJ:72:PRO:CD	2.32	0.59
9:AK:127:ASP:C	9:AK:129:PRO:CD	2.70	0.59
10:AL:97:ARG:CG	10:AL:117:LEU:CD2	2.79	0.59
10:AL:97:ARG:NH1	10:AL:98:VAL:CA	2.64	0.59
12:AN:111:GLU:OE1	12:AN:112:GLU:HG3	2.02	0.59
13:AO:103:ARG:HB2	13:AO:108:GLY:CA	2.32	0.59
13:AO:57:ARG:HB3	13:AO:57:ARG:CZ	2.31	0.59
13:AO:52:ILE:HD12	13:AO:94:TYR:HD1	1.65	0.59
16:AR:113:ALA:O	16:AR:116:ALA:HB3	2.01	0.59
17:AS:15:GLU:HB3	17:AS:16:PRO:CD	2.32	0.59
19:AU:21:PHE:HE2	19:AU:27:THR:N	1.96	0.59
19:AU:29:TRP:HA	19:AU:77:LYS:O	2.02	0.59
19:AU:51:VAL:HG13	19:AU:81:VAL:HG21	1.83	0.59
34:BA:1315:U:H1'	34:BA:1360:A:H2'	1.82	0.59
34:BA:927:G:P	34:BA:1503:A:N6	2.74	0.59
34:BA:91:C:C2	34:BA:92:G:C8	2.89	0.59
1:AA:1924:C:H5''	56:BE:12:U:O2'	2.02	0.59
7:AG:82:LEU:HD21	56:BE:52:G:P	2.41	0.59
35:BF:28:PHE:N	35:BF:194:PRO:HG2	2.16	0.59
35:BF:64:ARG:HG2	35:BF:66:GLY:H	1.65	0.59
36:BG:55:VAL:HG22	36:BG:68:VAL:HG22	1.83	0.59
37:BH:30:LYS:NZ	37:BH:35:ARG:HD2	2.17	0.59
38:BI:37:ARG:HH11	38:BI:111:GLU:C	2.06	0.59
38:BI:34:VAL:CG2	38:BI:62:ALA:HB1	2.32	0.59
38:BI:80:ILE:HD11	38:BI:91:LEU:HB3	1.83	0.59
40:BK:5:ARG:HD2	40:BK:7:ALA:N	2.09	0.59
41:BL:17:THR:HG21	41:BL:80:ILE:CG2	2.32	0.59
41:BL:1:MET:HG2	41:BL:2:LEU:H	1.66	0.59
42:BM:45:ALA:HB3	42:BM:74:ILE:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:87:GLN:O	42:BM:90:PRO:HD3	2.02	0.59
45:BP:35:GLY:O	45:BP:82:VAL:CG1	2.50	0.59
34:BA:1358:U:C5'	47:BR:34:TYR:HA	2.32	0.59
47:BR:54:PRO:O	47:BR:56:VAL:N	2.35	0.59
50:BU:38:ARG:HG3	50:BU:39:SER:N	2.16	0.59
50:BU:61:GLU:HA	50:BU:71:PHE:CD2	2.37	0.59
34:BA:130:A:OP2	50:BU:63:ARG:NH2	2.35	0.59
52:BW:24:ALA:C	52:BW:26:GLY:H	2.04	0.59
34:BA:1242:C:C5'	54:BY:10:ARG:HH12	2.02	0.59
57:BZ:310:PHE:N	57:BZ:383:SER:OG	2.35	0.59
57:BZ:397:GLN:O	57:BZ:472:TYR:CD1	2.33	0.59
57:BZ:401:GLU:HG2	57:BZ:468:THR:HG22	1.84	0.59
8:AH:150:ALA:O	8:AH:152:ARG:N	2.34	0.59
45:BP:43:VAL:HG12	45:BP:44:THR:O	2.01	0.59
1:AA:1064:C:C4	1:AA:1065:U:C4	2.90	0.59
1:AA:1275:A:N6	1:AA:1295:C:O2'	2.35	0.59
1:AA:1295:C:H2'	1:AA:1296:G:C8	2.37	0.59
1:AA:1313:U:O4	19:AU:62:LYS:HB2	2.01	0.59
1:AA:1445:C:H2'	1:AA:1446:C:C6	2.37	0.59
1:AA:1806:C:N3	1:AA:1807:G:C8	2.70	0.59
1:AA:1827:C:OP1	1:AA:1971:A:O2'	2.20	0.59
1:AA:1764:G:N2	1:AA:1989:G:H1'	2.17	0.59
1:AA:199:A:N1	1:AA:2433:A:H2'	2.17	0.59
1:AA:2081:C:C2	1:AA:2082:A:C8	2.90	0.59
1:AA:223:A:N7	1:AA:408:G:H1'	2.17	0.59
1:AA:2436:G:C6	1:AA:2437:U:N3	2.70	0.59
1:AA:2495:G:H5''	12:AN:82:ARG:HA	1.84	0.59
1:AA:2629:A:H2	1:AA:2801:A:N3	2.00	0.59
1:AA:2691:C:O2'	1:AA:2692:C:H5'	2.02	0.59
1:AA:383:U:C2	1:AA:385:C:N4	2.70	0.59
1:AA:450:G:H8	1:AA:450:G:O5'	1.85	0.59
1:AA:465:G:O2'	1:AA:466:A:H5'	2.02	0.59
1:AA:501:A:C5	1:AA:502:A:N1	2.70	0.59
1:AA:573:G:O2'	1:AA:574:C:P	2.59	0.59
1:AA:586:A:C6	1:AA:810:U:H5'	2.37	0.59
1:AA:729:G:N7	1:AA:730:C:C6	2.70	0.59
1:AA:783:A:O2'	1:AA:784:A:P	2.60	0.59
3:AC:82:LYS:HB3	3:AC:149:ILE:HG21	1.83	0.59
3:AC:161:ILE:CG2	3:AC:188:ASN:ND2	2.64	0.59
3:AC:180:PHE:CE2	3:AC:184:LYS:CB	2.35	0.59
4:AD:34:VAL:O	4:AD:36:PRO:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:96:HIS:CD2	4:AD:102:LYS:HE2	2.36	0.59
5:AE:111:ARG:HD3	5:AE:160:TYR:O	2.01	0.59
5:AE:91:VAL:CG2	5:AE:180:ASN:HD21	2.15	0.59
5:AE:91:VAL:HG21	5:AE:93:VAL:CG1	2.24	0.59
6:AF:119:ARG:NH2	6:AF:120:GLU:OE1	2.34	0.59
8:AH:171:LEU:HA	8:AH:172:LYS:NZ	2.17	0.59
8:AH:45:VAL:HG13	8:AH:50:VAL:CG2	2.32	0.59
9:AK:74:ARG:CD	9:AK:82:LEU:HD13	2.31	0.59
10:AL:59:LYS:N	10:AL:59:LYS:CE	2.65	0.59
10:AL:99:PHE:CD2	10:AL:100:GLY:N	2.70	0.59
10:AL:9:GLU:HB2	10:AL:81:ASP:O	2.03	0.59
12:AN:16:ARG:CG	12:AN:72:LYS:HB3	2.32	0.59
12:AN:45:GLN:O	12:AN:47:ILE:N	2.35	0.59
13:AO:53:HIS:O	13:AO:56:LYS:HE2	2.02	0.59
13:AO:94:TYR:O	13:AO:117:VAL:HG12	2.02	0.59
14:AP:17:ARG:O	14:AP:20:ARG:CG	2.49	0.59
14:AP:76:LYS:O	14:AP:80:LEU:CB	2.48	0.59
1:AA:535:C:C4'	16:AR:53:ARG:HD2	2.27	0.59
16:AR:53:ARG:O	16:AR:56:ASP:HB2	2.01	0.59
18:AT:33:ARG:NH2	18:AT:37:ARG:HB3	2.17	0.59
21:AW:41:LEU:O	21:AW:44:PHE:N	2.36	0.59
21:AW:82:ARG:HG3	21:AW:83:PRO:N	2.17	0.59
21:AW:96:VAL:CG1	21:AW:128:VAL:HG22	2.32	0.59
23:AY:27:LEU:HG	23:AY:30:LEU:HD11	1.84	0.59
34:BA:1041:A:C6	34:BA:1042:G:N7	2.70	0.59
34:BA:1054:C:C6	34:BA:1054:C:H3'	2.36	0.59
34:BA:1054:C:H2'	34:BA:1055:A:C5'	2.30	0.59
34:BA:1151:A:N7	34:BA:1152:A:C8	2.66	0.59
34:BA:121:C:H5'	34:BA:122:G:OP1	2.02	0.59
34:BA:12:U:C2	34:BA:13:U:O4	2.55	0.59
34:BA:1395:C:H2'	34:BA:1396:A:H8	1.66	0.59
34:BA:20:U:C4	34:BA:21:G:C6	2.90	0.59
34:BA:285:G:O2'	34:BA:286:G:H5'	2.02	0.59
34:BA:306:G:O5'	34:BA:306:G:H8	1.84	0.59
34:BA:65:U:H4'	34:BA:66:G:O5'	2.01	0.59
34:BA:801:U:H2'	34:BA:801:U:O2	2.00	0.59
34:BA:859:A:N6	34:BA:860:A:C2	2.70	0.59
34:BA:923:A:O4'	34:BA:1398:A:C2	2.54	0.59
34:BA:979:C:P	34:BA:981:U:O4	2.60	0.59
34:BA:985:C:O2	52:BW:55:LYS:HG3	2.02	0.59
56:BE:12:U:H6	56:BE:12:U:O5'	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:131:PRO:O	35:BF:134:GLU:N	2.35	0.59
35:BF:175:ARG:HD2	35:BF:179:LYS:NZ	2.16	0.59
35:BF:163:PHE:CZ	35:BF:186:ALA:HA	2.36	0.59
35:BF:72:GLY:O	35:BF:74:LYS:N	2.36	0.59
35:BF:97:TRP:CH2	35:BF:176:GLU:CG	2.83	0.59
36:BG:47:LEU:HD12	36:BG:49:SER:HB3	1.82	0.59
37:BH:102:ASP:HB2	37:BH:136:PRO:O	2.01	0.59
37:BH:166:LYS:CE	37:BH:178:VAL:HG12	2.31	0.59
38:BI:140:ARG:HB3	38:BI:140:ARG:HH11	1.67	0.59
38:BI:41:VAL:HG21	38:BI:113:ALA:HB2	1.83	0.59
39:BJ:79:LEU:O	39:BJ:80:ARG:C	2.40	0.59
39:BJ:77:ARG:O	39:BJ:81:ILE:HG13	2.02	0.59
42:BM:43:ALA:O	42:BM:45:ALA:N	2.35	0.59
44:BO:92:GLU:OE1	44:BO:92:GLU:HA	2.01	0.59
45:BP:110:VAL:O	45:BP:113:ARG:HB2	2.02	0.59
47:BR:39:LEU:HD12	47:BR:44:LEU:HD12	1.84	0.59
49:BT:27:LYS:O	49:BT:28:ARG:C	2.41	0.59
51:BV:22:VAL:HG23	51:BV:56:THR:HA	1.84	0.59
52:BW:11:VAL:HB	52:BW:16:LEU:CA	2.32	0.59
52:BW:36:ARG:HB2	52:BW:71:LEU:HB3	1.85	0.59
52:BW:40:ILE:CD1	52:BW:71:LEU:HD23	2.32	0.59
53:BX:13:LEU:C	53:BX:17:ARG:HH21	2.06	0.59
53:BX:76:ALA:O	53:BX:79:ARG:HG2	2.02	0.59
54:BY:13:ILE:CG2	54:BY:14:TRP:N	2.65	0.59
57:BZ:151:LEU:O	57:BZ:152:ASP:HB2	2.01	0.59
57:BZ:267:LEU:CD2	57:BZ:268:ALA:H	2.15	0.59
57:BZ:342:ASN:CG	57:BZ:345:LEU:HB2	2.22	0.59
57:BZ:408:GLU:CG	57:BZ:436:ARG:HH12	1.98	0.59
57:BZ:67:ASP:N	57:BZ:67:ASP:OD1	2.35	0.59
1:AA:1485:G:N2	1:AA:1505:C:C2	2.71	0.59
57:BZ:258:LEU:HD22	57:BZ:260:LEU:CD1	2.29	0.59
35:BF:156:LYS:O	35:BF:156:LYS:HG2	2.02	0.59
6:AF:146:ALA:HB3	6:AF:148:LEU:HD23	1.83	0.59
1:AA:1107:G:O5'	1:AA:1107:G:H8	1.84	0.59
1:AA:976:C:H4'	1:AA:1156:A:N7	2.17	0.59
1:AA:1174:A:N6	1:AA:1177:A:N1	2.49	0.59
1:AA:1240:U:O2	1:AA:1240:U:H2'	2.02	0.59
1:AA:1264:G:C6	1:AA:1265:A:C5	2.90	0.59
1:AA:1366:A:C8	1:AA:1366:A:OP2	2.56	0.59
1:AA:1410:G:H2'	1:AA:1411:C:O4'	2.02	0.59
1:AA:1443:G:C2	1:AA:1444:G:C1'	2.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1604:C:O2	1:AA:1605:C:C5	2.55	0.59
1:AA:1638:C:H5''	1:AA:2710:C:C1'	2.30	0.59
1:AA:1688:U:O2'	1:AA:1689:A:OP2	2.20	0.59
1:AA:1771:C:C2	1:AA:1772:G:C8	2.90	0.59
1:AA:2417:C:C2	1:AA:2418:A:C8	2.90	0.59
1:AA:2484:G:H1'	12:AN:124:LYS:HZ1	1.64	0.59
1:AA:2532:G:H4'	1:AA:2657:A:C6	2.34	0.59
1:AA:407:G:H2'	1:AA:408:G:N7	2.17	0.59
1:AA:610:C:H2'	1:AA:611:C:C6	2.38	0.59
1:AA:60:G:O2'	1:AA:61:G:OP1	2.19	0.59
1:AA:649:G:H5''	1:AA:650:C:OP2	2.02	0.59
1:AA:689:A:H2'	1:AA:690:G:O4'	2.02	0.59
1:AA:75:G:C4'	23:AY:50:ARG:HH11	2.14	0.59
1:AA:816:C:O2'	1:AA:817:C:H5'	2.02	0.59
1:AA:923:C:H5'	22:AX:26:TYR:CD1	2.38	0.59
2:AB:99:A:C4	2:AB:100:G:C8	2.91	0.59
3:AC:97:GLU:OE2	3:AC:119:VAL:HG12	2.02	0.59
3:AC:163:PHE:N	3:AC:163:PHE:HD2	2.00	0.59
3:AC:177:LYS:HB2	3:AC:180:PHE:CB	2.31	0.59
3:AC:30:LYS:HD2	3:AC:182:PRO:HB3	1.83	0.59
4:AD:133:LEU:HD12	4:AD:187:GLY:HA2	1.83	0.59
4:AD:186:HIS:O	4:AD:189:CYS:SG	2.59	0.59
4:AD:201:HIS:HD2	4:AD:202:LYS:CE	2.15	0.59
4:AD:228:PRO:HD3	4:AD:235:GLY:HA3	1.83	0.59
4:AD:258:LYS:HG2	4:AD:259:THR:N	2.17	0.59
5:AE:133:LYS:CE	5:AE:137:HIS:HB3	2.32	0.59
5:AE:100:GLU:H	5:AE:172:VAL:HG22	1.65	0.59
7:AG:116:ASP:CB	7:AG:118:ARG:HH21	2.12	0.59
7:AG:130:ASN:HA	7:AG:161:THR:OG1	2.02	0.59
7:AG:33:ARG:NH2	7:AG:34:LEU:N	2.50	0.59
7:AG:40:ASN:HD22	7:AG:41:GLN:N	2.00	0.59
7:AG:49:ASP:C	7:AG:53:LEU:HD22	2.22	0.59
7:AG:80:PHE:HD1	7:AG:81:LYS:H	1.44	0.59
10:AL:109:LYS:O	10:AL:111:PHE:N	2.35	0.59
11:AM:16:ARG:HD3	11:AM:19:VAL:H	1.66	0.59
15:AQ:37:GLY:HA3	15:AQ:43:GLN:HA	1.85	0.59
15:AQ:54:ARG:C	15:AQ:55:ASN:OD1	2.41	0.59
15:AQ:82:LEU:C	15:AQ:84:GLN:N	2.55	0.59
18:AT:29:LEU:O	18:AT:33:ARG:CB	2.44	0.59
18:AT:5:ALA:HB2	18:AT:54:ALA:CB	2.22	0.59
20:AV:2:ARG:HD2	20:AV:3:VAL:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:151:HIS:CG	21:AW:168:GLU:HG2	2.37	0.59
22:AX:12:ASN:CA	22:AX:14:ARG:CZ	2.68	0.59
23:AY:41:GLN:O	23:AY:42:ASN:C	2.40	0.59
34:BA:1105:A:C2	34:BA:1106:G:N7	2.70	0.59
34:BA:1117:G:O6	34:BA:1184:G:O6	2.19	0.59
34:BA:1129:C:C1'	34:BA:1130:A:N7	2.65	0.59
34:BA:1161:C:H2'	34:BA:1162:C:C6	2.37	0.59
34:BA:1187:G:H2'	34:BA:1188:A:H8	1.65	0.59
34:BA:1232:U:OP1	42:BM:125:TYR:O	2.19	0.59
34:BA:1451:A:H5''	34:BA:1452:C:H5	1.67	0.59
15:AQ:112:ARG:NH2	34:BA:1464:G:O5'	2.35	0.59
34:BA:1499:A:N7	34:BA:1500:A:C5	2.70	0.59
34:BA:305:G:O2'	34:BA:306:G:P	2.60	0.59
34:BA:394:G:H2'	34:BA:395:C:C6	2.36	0.59
34:BA:302:G:O2'	34:BA:556:C:H5''	2.01	0.59
34:BA:571:U:C3'	34:BA:572:A:C5'	2.72	0.59
34:BA:866:C:H3'	34:BA:867:G:C8	2.37	0.59
56:BE:21:A:C4	56:BE:46:G:N1	2.71	0.59
34:BA:1112:C:C1'	36:BG:179:ARG:CZ	2.79	0.59
37:BH:177:ASP:HB3	37:BH:182:LYS:O	2.02	0.59
37:BH:20:TYR:CB	37:BH:26:CYS:O	2.49	0.59
37:BH:63:LYS:HD2	37:BH:63:LYS:H	1.67	0.59
43:BN:9:ARG:C	43:BN:94:VAL:HG13	2.21	0.59
44:BO:87:THR:HG22	44:BO:91:ARG:NH2	2.16	0.59
47:BR:29:ARG:CB	47:BR:29:ARG:HH11	2.06	0.59
47:BR:34:TYR:OH	47:BR:41:ARG:HA	2.02	0.59
48:BS:71:GLN:HG3	48:BS:75:PRO:CB	2.20	0.59
49:BT:28:ARG:NH1	49:BT:29:ASP:OD2	2.35	0.59
50:BU:25:ARG:HG2	50:BU:26:GLN:N	2.15	0.59
50:BU:59:ILE:CD1	50:BU:60:ILE:N	2.65	0.59
51:BV:27:GLY:O	51:BV:28:GLU:C	2.40	0.59
57:BZ:380:LEU:HD11	57:BZ:580:VAL:HG21	1.81	0.59
57:BZ:502:PHE:CD2	57:BZ:555:VAL:HG11	2.37	0.59
34:BA:1097:C:H2'	34:BA:1098:C:C6	2.37	0.59
37:BH:151:LYS:CD	37:BH:151:LYS:H	2.14	0.59
1:AA:1105:U:C5	1:AA:1107:G:C6	2.79	0.59
1:AA:1000:A:C2	1:AA:1155:A:C4	2.91	0.59
1:AA:1184:G:O2'	1:AA:1185:C:H5'	2.02	0.59
1:AA:1205:U:O2'	1:AA:1206:G:O6	2.20	0.59
1:AA:1272:A:HO2'	1:AA:1273:U:P	2.25	0.59
1:AA:1357:U:C4	1:AA:1358:G:C2	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1363:C:O3'	1:AA:1809:A:C5	2.56	0.59
1:AA:1315:C:HO2'	1:AA:1392:A:H1'	1.66	0.59
1:AA:1398:C:C2	1:AA:1399:C:C5	2.91	0.59
1:AA:1422:G:N3	1:AA:1423:G:C8	2.70	0.59
1:AA:1449:A:N1	1:AA:1449(A):G:C4	2.70	0.59
1:AA:1471:A:C8	1:AA:1521:G:N2	2.70	0.59
1:AA:1472:A:N7	1:AA:1474:C:C4	2.70	0.59
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.02	0.59
1:AA:1709:U:H2'	1:AA:1710:C:C6	2.37	0.59
1:AA:1363:C:H1'	1:AA:1810:A:H1'	1.83	0.59
1:AA:1819:A:OP1	4:AD:157:ARG:HA	2.01	0.59
1:AA:1792:G:O2'	1:AA:1830:C:OP1	2.18	0.59
1:AA:198:C:O2'	1:AA:199:A:C8	2.44	0.59
1:AA:2058:A:C2	1:AA:2059:A:N7	2.70	0.59
1:AA:2075:U:N3	1:AA:2238:G:N1	2.47	0.59
1:AA:2112:G:H5''	1:AA:2113:U:OP2	2.02	0.59
1:AA:2228:G:C8	1:AA:2229:C:C5	2.90	0.59
1:AA:2358:G:N3	1:AA:2358:G:H2'	2.16	0.59
1:AA:2586:C:N4	1:AA:2587:A:N6	2.50	0.59
1:AA:2866:U:H5''	1:AA:2867:G:OP1	2.01	0.59
1:AA:2879:C:H5'	1:AA:2880:C:OP1	2.02	0.59
1:AA:294:A:C2	1:AA:346:A:C2	2.91	0.59
1:AA:408:G:O2'	1:AA:409:C:H5'	2.02	0.59
1:AA:613:U:C5'	1:AA:614:U:C5	2.84	0.59
1:AA:612:G:C4'	1:AA:616:A:N6	2.53	0.59
1:AA:637:A:N3	1:AA:651:G:H4'	2.17	0.59
1:AA:669:G:H5''	1:AA:670:A:OP2	2.01	0.59
1:AA:686:G:C4'	1:AA:687:C:OP2	2.50	0.59
1:AA:733:G:N7	1:AA:761:A:C6	2.70	0.59
1:AA:85:G:H1'	1:AA:103:A:C2	2.37	0.59
1:AA:880:G:H3'	1:AA:881:G:C4'	2.31	0.59
1:AA:943:U:C4'	1:AA:943:U:OP1	2.51	0.59
2:AB:116:G:N3	2:AB:117:G:H1'	2.17	0.59
3:AC:10:LEU:HD11	3:AC:32:LEU:CD2	2.33	0.59
3:AC:43:VAL:CG1	3:AC:224:ILE:CG1	2.81	0.59
3:AC:8:ARG:HH11	3:AC:11:LEU:CD2	2.16	0.59
4:AD:152:GLY:O	4:AD:154:LYS:N	2.36	0.59
4:AD:175:LEU:HD11	4:AD:177:LEU:HB3	1.83	0.59
1:AA:2227:A:C5'	4:AD:260:ARG:HD2	2.33	0.59
7:AG:125:PHE:CZ	7:AG:130:ASN:HB2	2.37	0.59
7:AG:135:LEU:CD1	7:AG:155:MET:HB2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:97:ASP:O	7:AG:100:TRP:N	2.35	0.59
7:AG:6:ALA:CA	7:AG:9:ARG:NH2	2.63	0.59
8:AH:23:ARG:CZ	8:AH:34:GLU:HB3	2.32	0.59
9:AK:36:GLY:O	9:AK:43:THR:N	2.36	0.59
10:AL:21:CYS:HA	10:AL:40:VAL:O	2.02	0.59
11:AM:88:LEU:HD21	11:AM:124:LYS:HZ1	1.67	0.59
11:AM:122:PRO:HD3	11:AM:137:LYS:CB	2.32	0.59
11:AM:122:PRO:HB3	11:AM:138:LEU:N	2.16	0.59
11:AM:65:ARG:HH11	11:AM:67:MET:H	1.49	0.59
11:AM:81:GLN:HE22	11:AM:123:LEU:HD21	1.66	0.59
12:AN:126:PRO:O	12:AN:127:ILE:HG23	2.01	0.59
12:AN:64:ILE:HG23	12:AN:106:VAL:O	2.01	0.59
12:AN:75:THR:CG2	12:AN:77:LYS:HD2	2.29	0.59
12:AN:93:TYR:C	12:AN:94:VAL:HG12	2.23	0.59
13:AO:87:TYR:HE2	13:AO:118:GLU:OE1	1.85	0.59
14:AP:49:VAL:C	14:AP:76:LYS:HZ1	2.05	0.59
17:AS:89:GLN:HG2	17:AS:91:TYR:CD1	2.37	0.59
18:AT:14:PRO:N	18:AT:78:GLU:OE1	2.35	0.59
18:AT:31:GLU:OE1	18:AT:31:GLU:N	2.35	0.59
19:AU:63:LYS:CE	19:AU:63:LYS:CA	2.81	0.59
19:AU:91:ALA:O	19:AU:95:LEU:HG	2.02	0.59
21:AW:91:LEU:HB2	21:AW:131:ARG:NH1	2.17	0.59
22:AX:53:MET:SD	22:AX:59:LEU:HD23	2.42	0.59
24:AZ:10:LYS:HZ3	24:AZ:12:PRO:CD	2.14	0.59
34:BA:1125:U:H5'	43:BN:38:ILE:CG2	2.31	0.59
34:BA:1178:G:N2	34:BA:1180:A:H5''	2.18	0.59
34:BA:1258:G:H2'	34:BA:1259:C:C5	2.37	0.59
34:BA:21:G:N2	34:BA:916:G:C5	2.71	0.59
34:BA:251:G:H5'	34:BA:252:U:OP1	2.01	0.59
34:BA:296:U:O2	34:BA:302:G:C2	2.55	0.59
34:BA:414:A:C2'	34:BA:415:A:H8	2.13	0.59
34:BA:427:U:OP1	37:BH:41:GLY:N	2.36	0.59
34:BA:667:G:H2'	34:BA:668:G:C8	2.37	0.59
34:BA:955:U:C2	34:BA:956:U:H5	2.20	0.59
35:BF:20:GLU:HA	35:BF:21:ARG:NH2	2.08	0.59
36:BG:124:ILE:HD11	36:BG:130:VAL:HG13	1.83	0.59
37:BH:118:ARG:HG3	37:BH:136:PRO:HB2	1.84	0.59
37:BH:128:VAL:HG12	37:BH:129:ASN:N	2.17	0.59
37:BH:133:VAL:CG1	37:BH:138:TYR:HD1	2.07	0.59
37:BH:162:LEU:CD1	37:BH:181:MET:HG2	2.25	0.59
37:BH:200:GLU:HG3	37:BH:201:GLN:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:206:PHE:HD2	37:BH:207:TYR:CD1	2.20	0.59
38:BI:72:GLN:NE2	38:BI:144:THR:HA	2.17	0.59
39:BJ:79:LEU:N	39:BJ:79:LEU:HD23	2.17	0.59
44:BO:111:ASP:OD2	44:BO:113:PRO:CD	2.46	0.59
44:BO:73:MET:SD	44:BO:103:LEU:HD22	2.43	0.59
34:BA:1330:U:H5'	46:BQ:70:LEU:CD2	2.25	0.59
51:BV:62:GLU:O	51:BV:66:LEU:CG	2.42	0.59
53:BX:64:ASP:O	53:BX:65:LYS:C	2.41	0.59
54:BY:14:TRP:CZ3	54:BY:15:ARG:NE	2.70	0.59
57:BZ:398:GLU:OE2	57:BZ:444:PRO:HB3	2.00	0.59
57:BZ:395:ARG:CD	57:BZ:474:ASP:HB2	2.21	0.59
57:BZ:312:CYS:HB2	57:BZ:354:ASP:O	1.88	0.59
57:BZ:42:VAL:HG23	57:BZ:43:MET:H	1.67	0.59
56:BD:42:C:H3'	56:BD:43:C:H5'	1.84	0.59
1:AA:2144:U:OP2	1:AA:2144:U:C6	2.56	0.59
34:BA:1011:G:C2'	34:BA:1012:U:H5'	2.32	0.59
1:AA:1199:U:O2	1:AA:1200:C:C6	2.55	0.59
1:AA:1222:C:H2'	1:AA:1223:C:H5'	1.84	0.59
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.38	0.59
1:AA:1267:U:O2'	1:AA:1268:A:OP1	2.19	0.59
1:AA:1295:C:H2'	1:AA:1296:G:H8	1.67	0.59
1:AA:1336:A:H2'	1:AA:1337:G:H8	1.66	0.59
1:AA:1341:U:C2'	1:AA:1342:A:OP1	2.50	0.59
1:AA:1364:G:O5'	1:AA:1809:A:C6	2.56	0.59
1:AA:1906:G:C2	1:AA:1907:G:C8	2.91	0.59
1:AA:2323:G:H2'	1:AA:2324:C:H6	1.68	0.59
1:AA:245:G:H1	1:AA:253:C:N4	2.00	0.59
1:AA:2524:G:C6	1:AA:2525:G:C4	2.91	0.59
1:AA:281:G:H8	1:AA:427:U:O2	1.85	0.59
1:AA:2859:G:H2'	1:AA:2860:A:H8	1.67	0.59
1:AA:2865:U:O4	1:AA:2866:U:H5	1.85	0.59
1:AA:5:A:C4	1:AA:2899:G:C2	2.91	0.59
1:AA:351:G:O2'	1:AA:352:G:N7	2.35	0.59
1:AA:422:A:C2	1:AA:423:A:C4	2.91	0.59
1:AA:513:A:C2	1:AA:514:A:C8	2.90	0.59
1:AA:66:C:H2'	1:AA:67:U:H5'	1.83	0.59
1:AA:806:C:O2'	1:AA:2445:G:O4'	2.21	0.59
1:AA:859:G:H3'	1:AA:859:G:C8	2.37	0.59
1:AA:877:U:N3	1:AA:899:A:N7	2.23	0.59
1:AA:933:A:C2	1:AA:934:G:C8	2.90	0.59
1:AA:980:A:C6	1:AA:1135:C:C4'	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:105:G:O2'	2:AB:106:G:H5'	2.02	0.59
2:AB:75:G:H2'	21:AW:85:HIS:CE1	2.31	0.59
2:AB:99:A:O2'	2:AB:100:G:H5'	2.03	0.59
4:AD:143:HIS:C	4:AD:145:VAL:N	2.54	0.59
4:AD:234:GLY:N	4:AD:241:PRO:CG	2.60	0.59
4:AD:7:LYS:HE2	4:AD:25:THR:CG2	2.31	0.59
4:AD:95:LEU:HD13	4:AD:96:HIS:N	2.18	0.59
6:AF:106:ARG:HG3	6:AF:107:LYS:HG3	1.85	0.59
6:AF:20:LEU:N	6:AF:20:LEU:HD23	2.11	0.59
7:AG:166:ASP:O	7:AG:168:GLU:N	2.36	0.59
7:AG:47:LYS:HB3	7:AG:72:ARG:O	2.02	0.59
8:AH:6:ARG:O	8:AH:6:ARG:HG3	2.02	0.59
8:AH:7:LEU:N	8:AH:8:PRO:CD	2.57	0.59
1:AA:557:U:O3'	9:AK:112:LEU:CG	2.50	0.59
9:AK:134:ARG:O	9:AK:137:LYS:HE3	2.03	0.59
10:AL:58:VAL:O	10:AL:59:LYS:HB3	2.01	0.59
10:AL:9:GLU:O	10:AL:82:ASN:HA	2.02	0.59
11:AM:126:VAL:O	11:AM:127:ALA:HB2	2.02	0.59
11:AM:130:PHE:N	11:AM:130:PHE:HD2	2.00	0.59
12:AN:43:THR:HG1	12:AN:45:GLN:HB2	1.68	0.59
12:AN:80:GLU:N	12:AN:80:GLU:OE1	2.36	0.59
13:AO:52:ILE:HD13	13:AO:56:LYS:HG2	1.84	0.59
13:AO:97:VAL:HG13	13:AO:114:VAL:CG2	2.30	0.59
14:AP:105:ALA:O	14:AP:108:GLY:N	2.36	0.59
15:AQ:105:LEU:O	15:AQ:107:ASP:N	2.36	0.59
15:AQ:109:GLU:CB	15:AQ:114:LEU:HD21	2.32	0.59
10:AL:106:LEU:HD21	15:AQ:38:ASN:HD21	1.68	0.59
15:AQ:81:PRO:O	15:AQ:82:LEU:C	2.40	0.59
15:AQ:28:VAL:CG2	15:AQ:93:ARG:C	2.71	0.59
15:AQ:95:ARG:HD2	15:AQ:96:ARG:CZ	2.33	0.59
16:AR:99:ALA:HA	16:AR:106:PHE:CD1	2.37	0.59
1:AA:751:A:H5'	18:AT:90:ARG:CZ	2.31	0.59
19:AU:85:PRO:HB2	19:AU:87:GLN:HE21	1.68	0.59
20:AV:12:THR:HG23	20:AV:73:ARG:CG	2.32	0.59
24:AZ:4:LEU:CB	24:AZ:37:LEU:HD23	2.19	0.59
34:BA:1066:C:C5	34:BA:1067:A:N7	2.70	0.59
34:BA:1117:G:N2	34:BA:1184:G:C8	2.70	0.59
34:BA:1507:A:C2'	34:BA:1508:G:H5'	2.32	0.59
34:BA:167:G:H2'	34:BA:168:G:H8	1.67	0.59
34:BA:123:C:OP1	34:BA:311:C:O2'	2.20	0.59
34:BA:355:C:N3	34:BA:356:A:N7	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:362:G:H3'	45:BP:34:ARG:NH2	2.18	0.59
34:BA:557:G:H2'	34:BA:558:G:C1'	2.33	0.59
34:BA:19:C:H1'	34:BA:864:A:N3	2.18	0.59
34:BA:866:C:C6	34:BA:867:G:C1'	2.86	0.59
34:BA:872:A:HO2'	34:BA:873:A:P	2.25	0.59
34:BA:892:A:O2'	34:BA:893:C:H5'	2.02	0.59
35:BF:189:ASP:OD2	35:BF:205:ASP:OD1	2.20	0.59
35:BF:25:ASN:HD21	35:BF:27:LYS:HG3	1.68	0.59
36:BG:110:ASN:CB	36:BG:144:SER:OG	2.50	0.59
36:BG:122:GLU:O	36:BG:125:GLU:HB2	2.02	0.59
36:BG:126:ARG:O	36:BG:127:ARG:HB2	2.02	0.59
36:BG:11:ARG:O	36:BG:14:ILE:HB	2.02	0.59
36:BG:22:TRP:HB2	36:BG:59:ARG:HB3	1.83	0.59
38:BI:103:GLY:C	38:BI:107:ARG:HH12	2.05	0.59
38:BI:70:PRO:HG2	38:BI:143:ARG:HB3	1.84	0.59
40:BK:47:CYS:HA	40:BK:50:ILE:HD12	1.84	0.59
34:BA:1177:G:OP2	42:BM:93:ARG:NH2	2.34	0.59
44:BO:29:ILE:HA	44:BO:44:SER:OG	2.03	0.59
45:BP:33:ARG:HG2	45:BP:60:LEU:HD23	1.83	0.59
46:BQ:15:VAL:CG1	46:BQ:37:THR:HG21	2.23	0.59
48:BS:71:GLN:HB2	48:BS:78:TYR:HE1	1.63	0.59
49:BT:31:LYS:HG2	49:BT:32:TYR:H	1.68	0.59
52:BW:31:ILE:H	52:BW:49:ILE:HA	1.67	0.59
53:BX:63:ILE:HD13	53:BX:80:ARG:CB	2.29	0.59
53:BX:49:ALA:CB	53:BX:99:LEU:HG	2.32	0.59
57:BZ:164:TYR:N	57:BZ:172:ALA:C	2.50	0.59
57:BZ:170:GLY:CA	57:BZ:179:MET:HG3	2.31	0.59
57:BZ:87:ARG:NH2	57:BZ:210:SER:CB	2.65	0.59
57:BZ:221:ILE:HA	57:BZ:274:VAL:CG1	2.32	0.59
57:BZ:342:ASN:OD1	57:BZ:345:LEU:HB2	2.01	0.59
57:BZ:64:ILE:N	57:BZ:65:LYS:HA	2.16	0.59
57:BZ:87:ARG:NH2	57:BZ:87:ARG:HB3	2.18	0.59
32:AJ:93:ARG:O	32:AJ:94:GLU:HG3	2.02	0.59
1:AA:1077:A:N7	1:AA:1088:A:O2'	2.36	0.59
1:AA:1138:G:N2	1:AA:1139:G:N3	2.49	0.59
1:AA:1155:A:O2'	1:AA:1156:A:H5''	2.03	0.59
1:AA:1257:C:O2'	6:AF:84:VAL:CG2	2.46	0.59
1:AA:1264:G:O6	1:AA:1265:A:C5	2.56	0.59
1:AA:1457:A:O2'	1:AA:1458:C:H5'	2.03	0.59
1:AA:1625:C:O2	1:AA:1626:G:O2'	2.15	0.59
1:AA:1669:A:H5''	1:AA:2550:G:P	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1841:U:C2	1:AA:1842:G:N7	2.71	0.59
1:AA:2018:G:O6	1:AA:2035:G:O6	2.21	0.59
1:AA:2020:A:H4'	1:AA:2020:A:OP1	2.01	0.59
1:AA:2346:A:N3	1:AA:2383:G:C5	2.71	0.59
1:AA:2387:U:O2	22:AX:41:ARG:NH2	2.35	0.59
1:AA:2396:G:O2'	1:AA:2397:G:H5'	2.02	0.59
1:AA:2403:C:O2'	1:AA:2404:C:H5'	2.02	0.59
1:AA:2424:C:O2	1:AA:2424:C:H2'	2.01	0.59
1:AA:2466:C:O2'	12:AN:123:HIS:NE2	2.35	0.59
1:AA:2541:A:H2	1:AA:2765:A:N6	2.00	0.59
1:AA:2567:G:C5	1:AA:2568:C:N4	2.71	0.59
1:AA:2818:G:H4'	1:AA:2837:G:H4'	1.85	0.59
1:AA:386:G:H4'	1:AA:387:U:C6	2.38	0.59
1:AA:444:C:O3'	16:AR:2:PRO:HG2	2.02	0.59
1:AA:475:U:N3	1:AA:479:A:N6	2.50	0.59
1:AA:602:G:O5'	1:AA:602:G:C8	2.54	0.59
1:AA:714:U:C6	1:AA:714:U:OP2	2.56	0.59
1:AA:748:G:O6	18:AT:90:ARG:NH1	2.36	0.59
1:AA:831:G:N1	1:AA:832:G:C4	2.70	0.59
1:AA:873:G:C2	1:AA:874:G:H1'	2.37	0.59
1:AA:822:U:OP2	1:AA:945:A:H5'	2.01	0.59
1:AA:997:G:N3	1:AA:998:C:C5	2.71	0.59
2:AB:33:G:H2'	2:AB:34:U:C5	2.38	0.59
2:AB:73:A:O2'	2:AB:74:U:O5'	2.21	0.59
3:AC:22:ILE:CD1	3:AC:190:ARG:NH2	2.60	0.59
3:AC:210:ARG:HB3	3:AC:210:ARG:CZ	2.33	0.59
3:AC:39:GLU:O	3:AC:178:ALA:HB2	2.02	0.59
3:AC:89:ALA:CA	3:AC:154:ARG:HG3	2.32	0.59
4:AD:23:GLU:OE2	4:AD:24:ILE:O	2.20	0.59
4:AD:183:ARG:HA	4:AD:268:ARG:HA	1.83	0.59
5:AE:103:ASP:C	5:AE:104:VAL:HG23	2.23	0.59
6:AF:122:LYS:CE	6:AF:192:LEU:HB3	2.33	0.59
7:AG:135:LEU:O	7:AG:155:MET:O	2.21	0.59
7:AG:49:ASP:O	7:AG:53:LEU:HD13	2.03	0.59
1:AA:1067:A:C5'	32:AJ:21:PRO:CG	2.53	0.59
1:AA:1060:U:OP1	32:AJ:52:ILE:CD1	2.50	0.59
32:AJ:78:ILE:CG2	32:AJ:127:ILE:CG1	2.79	0.59
9:AK:24:GLY:O	9:AK:27:ALA:HB3	2.02	0.59
9:AK:27:ALA:O	9:AK:28:THR:C	2.40	0.59
9:AK:4:TYR:OH	16:AR:101:ARG:NH1	2.36	0.59
10:AL:18:LYS:CB	10:AL:45:GLU:HG3	2.24	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:113:LYS:HZ3	11:AM:115:LEU:HD12	1.67	0.59
11:AM:76:LYS:HE3	11:AM:99:LEU:HD11	1.85	0.59
11:AM:78:PRO:HG2	11:AM:117:GLU:CD	2.23	0.59
1:AA:2469:A:H4'	12:AN:56:ARG:HD3	1.83	0.59
16:AR:108:GLU:CD	16:AR:109:LEU:N	2.55	0.59
18:AT:28:SER:HA	18:AT:70:TYR:CA	2.27	0.59
19:AU:50:LYS:HG3	19:AU:84:ALA:CB	2.33	0.59
20:AV:84:ARG:HG2	20:AV:86:ARG:N	2.17	0.59
21:AW:96:VAL:CA	21:AW:128:VAL:HG13	2.30	0.59
21:AW:76:LEU:HA	21:AW:83:PRO:HA	1.85	0.59
34:BA:1109:C:OP1	36:BG:176:HIS:CD2	2.55	0.59
34:BA:1143:G:N2	34:BA:1144:G:C4	2.71	0.59
34:BA:1065:U:OP2	34:BA:1190:G:N2	2.35	0.59
34:BA:1285:A:C4'	34:BA:1286:A:N7	2.65	0.59
34:BA:190:G:O2'	34:BA:191(A):G:P	2.60	0.59
34:BA:267:C:OP2	50:BU:67:LYS:NZ	2.34	0.59
34:BA:300:A:H2'	34:BA:301:G:C5'	2.33	0.59
34:BA:357:G:P	34:BA:367:U:H2'	2.42	0.59
34:BA:357:G:OP1	34:BA:367:U:H3'	2.01	0.59
34:BA:522:C:H1'	34:BA:536:C:H5''	1.85	0.59
34:BA:753:A:H5'	34:BA:754:C:C5	2.37	0.59
34:BA:875:C:O2'	34:BA:876:G:O5'	2.18	0.59
35:BF:10:LEU:O	35:BF:11:LEU:O	2.21	0.59
35:BF:91:PRO:HG3	35:BF:155:LEU:H	1.66	0.59
35:BF:189:ASP:O	35:BF:191:ASP:N	2.36	0.59
35:BF:31:TYR:HE2	35:BF:200:ILE:CG2	2.15	0.59
35:BF:208:ILE:HA	35:BF:211:ILE:HD12	1.83	0.59
35:BF:46:LYS:HA	35:BF:49:GLU:OE1	2.03	0.59
40:BK:122:HIS:HA	40:BK:125:MET:SD	2.43	0.59
40:BK:72:ARG:HG2	40:BK:142:GLU:OE1	2.02	0.59
34:BA:1376:U:OP1	40:BK:98:SER:HB3	2.03	0.59
41:BL:9:MET:O	41:BL:13:ILE:CG1	2.50	0.59
41:BL:70:GLN:CB	41:BL:73:ASP:O	2.50	0.59
41:BL:6:ILE:CD1	41:BL:7:ALA:N	2.66	0.59
42:BM:26:VAL:HA	42:BM:61:ALA:O	2.01	0.59
43:BN:22:LYS:HZ2	43:BN:90:LEU:HD12	1.66	0.59
43:BN:60:ARG:CA	43:BN:60:ARG:HH11	2.15	0.59
44:BO:33:THR:HG22	44:BO:39:PRO:HB3	1.82	0.59
44:BO:48:ILE:HD11	44:BO:64:ALA:CA	2.32	0.59
44:BO:73:MET:SD	44:BO:78:GLN:HB3	2.42	0.59
45:BP:91:LYS:O	45:BP:92:ASP:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:19:LEU:CD1	46:BQ:29:ARG:C	2.67	0.59
34:BA:1202:G:H1'	47:BR:29:ARG:CD	2.31	0.59
48:BS:70:LEU:HG	48:BS:78:TYR:HB2	1.85	0.59
50:BU:3:LYS:O	50:BU:4:LYS:O	2.20	0.59
51:BV:26:LEU:HD22	51:BV:39:VAL:CG2	2.33	0.59
51:BV:53:ARG:NH1	51:BV:58:LEU:O	2.36	0.59
52:BW:36:ARG:HG3	52:BW:72:GLY:CA	2.27	0.59
53:BX:51:GLU:HA	53:BX:54:LYS:CG	2.32	0.59
57:BZ:101:ALA:O	57:BZ:135:ALA:C	2.40	0.59
57:BZ:166:SER:H	57:BZ:171:ILE:HG23	1.67	0.59
57:BZ:325:PHE:CD1	57:BZ:378:PHE:CE2	2.87	0.59
57:BZ:560:PRO:CB	57:BZ:562:ARG:CA	2.59	0.59
57:BZ:85:VAL:HG13	57:BZ:88:VAL:HG21	1.84	0.59
34:BA:1010:G:C2	34:BA:1020:U:H1'	2.37	0.59
8:AH:107:VAL:HG13	8:AH:152:ARG:HD2	1.83	0.59
1:AA:1034:G:C2	1:AA:1122:G:C4	2.90	0.59
1:AA:1155:A:OP2	1:AA:1155:A:H3'	2.02	0.59
1:AA:1264:G:OP2	1:AA:1265:A:H2	1.86	0.59
1:AA:1439:A:C2	1:AA:1553:A:C6	2.91	0.59
1:AA:1992:G:C8	1:AA:1997:G:C6	2.91	0.59
1:AA:2091:U:O4	1:AA:2092:U:C4	2.55	0.59
1:AA:185:U:C2	1:AA:212:G:N2	2.71	0.59
1:AA:241:A:O4'	1:AA:241:A:OP1	2.20	0.59
1:AA:827:U:OP1	1:AA:2429:G:OP2	2.20	0.59
1:AA:2496:C:N1	1:AA:2497:A:H2	2.00	0.59
1:AA:270(J):G:N3	1:AA:270(J):G:H2'	2.18	0.59
1:AA:1999:C:H5''	1:AA:2723:C:O2'	2.02	0.59
1:AA:2755:C:H4'	1:AA:2756:U:C5	2.37	0.59
1:AA:2876:G:H2'	1:AA:2877:G:C8	2.37	0.59
1:AA:304:G:H2'	1:AA:305:U:H6	1.68	0.59
1:AA:295:G:C1'	1:AA:345:A:C2	2.86	0.59
1:AA:410:G:H5''	1:AA:411:G:OP2	2.02	0.59
1:AA:569:U:H4'	1:AA:946:G:N3	2.18	0.59
1:AA:723:G:H21	1:AA:724:U:H1'	1.67	0.59
1:AA:738:G:H2'	1:AA:739:G:H1'	1.84	0.59
1:AA:763:G:H5'	4:AD:211:ARG:NH1	2.18	0.59
1:AA:763:G:O2'	1:AA:765:G:H5'	2.03	0.59
1:AA:783:A:C2	1:AA:785:G:O4'	2.56	0.59
1:AA:82:G:N2	1:AA:83:G:H22	2.01	0.59
2:AB:68:C:C3'	2:AB:69:G:H8	2.15	0.59
2:AB:71:C:O2	2:AB:71:C:H2'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:212:VAL:O	3:AC:212:VAL:HG12	2.01	0.59
3:AC:70:LYS:HZ1	3:AC:177:LYS:HG2	1.66	0.59
5:AE:159:HIS:O	5:AE:160:TYR:CD1	2.55	0.59
5:AE:37:ARG:O	5:AE:38:THR:CB	2.47	0.59
5:AE:53:PRO:HG3	5:AE:75:VAL:HG21	1.81	0.59
6:AF:18:ARG:HG2	6:AF:18:ARG:NH1	2.08	0.59
6:AF:34:TRP:HD1	6:AF:38:ARG:NH1	1.98	0.59
7:AG:34:LEU:HD13	7:AG:100:TRP:NE1	2.18	0.59
32:AJ:35:MET:CG	32:AJ:36:GLU:H	2.15	0.59
12:AN:12:GLN:NE2	12:AN:13:GLN:CG	2.62	0.59
12:AN:39:PRO:HG3	12:AN:127:ILE:CG1	2.31	0.59
13:AO:98:LEU:H	13:AO:114:VAL:HG22	1.67	0.59
13:AO:26:LYS:HE2	13:AO:70:LEU:CA	2.32	0.59
14:AP:71:ARG:N	14:AP:104:GLY:HA2	2.17	0.59
15:AQ:24:PRO:HG2	15:AQ:25:GLY:N	2.12	0.59
16:AR:14:HIS:CD2	16:AR:36:ARG:HH12	2.20	0.59
16:AR:87:GLY:C	16:AR:89:GLU:H	2.06	0.59
17:AS:68:LYS:HG2	17:AS:95:LEU:CD2	2.31	0.59
17:AS:69:LYS:HA	17:AS:92:THR:HB	1.84	0.59
1:AA:566:U:C6	17:AS:82:ARG:NH2	2.70	0.59
17:AS:17:GLY:O	17:AS:98:GLU:HG3	2.03	0.59
19:AU:92:LEU:HD12	19:AU:92:LEU:N	2.10	0.59
20:AV:2:ARG:CD	20:AV:3:VAL:N	2.56	0.59
22:AX:56:ASP:O	22:AX:57:PHE:HB2	2.03	0.59
24:AZ:17:LYS:HA	24:AZ:20:LYS:HE2	1.85	0.59
24:AZ:55:ARG:HG3	24:AZ:55:ARG:HH21	1.67	0.59
34:BA:1053:G:H4'	34:BA:1054:C:O3'	2.02	0.59
34:BA:1069:C:N4	34:BA:1094:G:O6	2.35	0.59
34:BA:1209:C:C2'	34:BA:1210:C:H5'	2.32	0.59
34:BA:1229:A:C4'	56:BE:29:G:O3'	2.49	0.59
34:BA:1269:A:C1'	34:BA:1312:G:N3	2.65	0.59
34:BA:1274:G:H2'	34:BA:1275:A:C8	2.38	0.59
34:BA:1430:C:C2'	34:BA:1431:C:O5'	2.51	0.59
34:BA:1483:A:H2'	34:BA:1484:C:C5'	2.33	0.59
34:BA:1508:G:H2'	34:BA:1509:C:H6	1.68	0.59
34:BA:197:A:N6	34:BA:221:C:C5'	2.65	0.59
34:BA:267:C:N4	34:BA:268:C:H41	1.99	0.59
34:BA:296:U:H2'	34:BA:297:G:H8	1.66	0.59
34:BA:338:A:O2'	34:BA:339:C:H5'	2.03	0.59
34:BA:366:C:O2'	34:BA:367:U:P	2.60	0.59
34:BA:44:G:H2'	34:BA:45:U:C5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:46:G:H1'	34:BA:396:G:H22	1.68	0.59
34:BA:501:C:H2'	34:BA:502:G:H8	1.66	0.59
34:BA:579:G:C5	34:BA:580:U:C5	2.90	0.59
34:BA:859:A:O2'	34:BA:860:A:C5'	2.50	0.59
35:BF:124:SER:OG	35:BF:125:PRO:HD2	2.02	0.59
35:BF:33:TYR:HB2	35:BF:43:ASP:HB2	1.84	0.59
36:BG:157:ILE:HG21	36:BG:164:ARG:HE	1.67	0.59
34:BA:619:U:N3	37:BH:135:LEU:HD21	2.16	0.59
37:BH:185:PHE:CD2	37:BH:186:LEU:N	2.71	0.59
37:BH:85:LYS:NZ	37:BH:85:LYS:HB3	2.18	0.59
34:BA:5:U:C5	37:BH:86:LYS:HD3	2.38	0.59
38:BI:141:GLN:OE1	38:BI:141:GLN:N	2.35	0.59
38:BI:40:ARG:N	38:BI:68:GLU:OE1	2.35	0.59
38:BI:80:ILE:CD1	38:BI:91:LEU:HB3	2.33	0.59
39:BJ:95:GLU:HA	51:BV:32:ARG:HB3	1.85	0.59
34:BA:1240:U:C6	40:BK:32:ARG:NH2	2.71	0.59
41:BL:35:ILE:HD13	41:BL:118:VAL:HG21	1.85	0.59
41:BL:14:ARG:O	41:BL:17:THR:CB	2.48	0.59
41:BL:30:ARG:O	41:BL:33:GLU:HB2	2.03	0.59
41:BL:36:LEU:CA	41:BL:39:LEU:HB2	2.32	0.59
42:BM:113:LYS:HZ1	42:BM:119:ALA:HB1	1.67	0.59
42:BM:34:ASN:OD1	42:BM:43:ALA:CB	2.51	0.59
44:BO:23:ALA:CB	44:BO:88:GLY:HA3	2.32	0.59
34:BA:692:U:O4	44:BO:53:SER:N	2.36	0.59
44:BO:15:ALA:O	44:BO:78:GLN:NE2	2.35	0.59
44:BO:19:ALA:N	44:BO:80:VAL:CG2	2.65	0.59
34:BA:1202:G:H1'	47:BR:29:ARG:NE	2.18	0.59
39:BJ:89:MET:HE2	51:BV:76:LEU:HD21	1.84	0.59
53:BX:20:LEU:O	53:BX:23:ARG:HD3	2.03	0.59
57:BZ:230:LYS:HB2	57:BZ:231:VAL:CG1	2.29	0.59
57:BZ:310:PHE:N	57:BZ:385:PRO:CG	2.65	0.59
57:BZ:395:ARG:CD	57:BZ:474:ASP:OD1	2.49	0.59
57:BZ:580:VAL:CG1	57:BZ:585:ILE:CD1	2.80	0.59
34:BA:232:G:C5	34:BA:233:C:N4	2.71	0.59
1:AA:1021:A:C2	1:AA:1122:G:H4'	2.38	0.59
1:AA:1056:G:H5'	1:AA:1057:A:OP1	2.03	0.59
1:AA:1227:A:H3'	1:AA:1227:A:C8	2.37	0.59
1:AA:1223:C:C6	1:AA:1227:A:N1	2.70	0.59
1:AA:1309:G:N1	1:AA:1310:G:N7	2.50	0.59
1:AA:1314:C:P	1:AA:1332:G:H5'	2.41	0.59
1:AA:1397:U:O2'	1:AA:1398:C:OP1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:140:A:H1'	1:AA:1409:C:H5'	1.84	0.59
1:AA:141:A:H2'	1:AA:141:A:N3	2.18	0.59
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.37	0.59
1:AA:1448:G:H2'	1:AA:1449:A:H8	1.68	0.59
1:AA:143:C:H2'	1:AA:144:C:C6	2.37	0.59
1:AA:1444(A):A:C8	1:AA:1460:A:H2'	2.38	0.59
1:AA:1491:G:H3'	1:AA:1492:G:H4'	1.84	0.59
1:AA:1620:G:O2'	1:AA:1621:U:H5'	2.01	0.59
1:AA:1654:A:H2'	1:AA:1654:A:N3	2.18	0.59
1:AA:1802:A:N6	1:AA:1822:G:H1'	2.08	0.59
1:AA:1826:G:C2'	1:AA:1827:C:H5'	2.33	0.59
1:AA:2047:U:O2'	1:AA:2048:G:C5'	2.51	0.59
1:AA:2193:G:C2	1:AA:2194:G:C8	2.90	0.59
1:AA:2291:U:H5'	1:AA:2380:C:O2	2.02	0.59
1:AA:2603:G:H2'	1:AA:2604:U:O4'	2.03	0.59
1:AA:270(X):G:H4'	1:AA:273:G:H5'	1.85	0.59
1:AA:366:C:C6	1:AA:366:C:O5'	2.56	0.59
1:AA:442:G:H4'	6:AF:46:ARG:CG	2.26	0.59
1:AA:736:C:O2'	1:AA:737:C:H5'	2.03	0.59
1:AA:775:G:C4'	1:AA:777:A:C4	2.84	0.59
1:AA:906:G:H4'	1:AA:906:G:OP1	2.03	0.59
3:AC:195:ALA:O	3:AC:199:HIS:ND1	2.30	0.59
4:AD:52:ARG:HD3	4:AD:52:ARG:N	2.18	0.59
4:AD:60:ARG:HB3	4:AD:62:TYR:CE2	2.38	0.59
4:AD:73:VAL:HG12	4:AD:120:GLY:HA3	1.85	0.59
6:AF:181:LEU:HD13	6:AF:181:LEU:H	1.67	0.59
6:AF:192:LEU:HD22	6:AF:193:VAL:H	1.68	0.59
6:AF:56:GLU:O	6:AF:58:ALA:C	2.41	0.59
7:AG:119:GLY:HA3	7:AG:180:PHE:CD2	2.37	0.59
7:AG:26:GLN:HG2	7:AG:29:TRP:CE3	2.38	0.59
7:AG:75:LYS:HD3	7:AG:85:GLY:CA	2.33	0.59
8:AH:156:ALA:HB1	8:AH:172:LYS:NZ	2.17	0.59
8:AH:33:LEU:CD2	8:AH:35:VAL:HG13	2.32	0.59
8:AH:76:VAL:CG2	8:AH:77:LYS:N	2.66	0.59
9:AK:100:GLU:C	9:AK:103:VAL:HG13	2.21	0.59
10:AL:39:ILE:C	10:AL:59:LYS:HZ1	2.05	0.59
1:AA:832:G:OP1	11:AM:35:HIS:HB2	2.02	0.59
12:AN:104:PHE:O	12:AN:105:GLU:OE2	2.20	0.59
12:AN:130:LYS:HZ1	12:AN:132:VAL:HG13	1.68	0.59
16:AR:55:ARG:CB	16:AR:58:ARG:HE	2.14	0.59
17:AS:1:MET:SD	17:AS:15:GLU:CD	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:68:LYS:HZ3	17:AS:95:LEU:CD1	2.16	0.59
18:AT:48:ALA:HA	18:AT:51:LEU:CD2	2.26	0.59
19:AU:84:ALA:H	19:AU:85:PRO:HD2	1.65	0.59
20:AV:21:LYS:HB2	20:AV:23:ARG:NH1	2.17	0.59
21:AW:18:LEU:HD22	21:AW:23:LYS:HD3	1.84	0.59
24:AZ:5:LYS:NZ	24:AZ:59:VAL:HG22	2.17	0.59
34:BA:1361:G:N7	34:BA:1362:C:H5	2.00	0.59
34:BA:1440:C:C2'	34:BA:1441:G:H5'	2.33	0.59
34:BA:1465:C:O5'	34:BA:1465:C:H6	1.85	0.59
34:BA:224:C:H2'	34:BA:225:C:H6	1.66	0.59
34:BA:429:U:H5'	34:BA:430:A:OP1	2.03	0.59
34:BA:552:U:C2'	34:BA:553:A:H5'	2.33	0.59
34:BA:745:C:H1'	34:BA:836:G:O2'	2.02	0.59
34:BA:7:G:H1'	34:BA:298:A:N9	2.18	0.59
34:BA:891:U:H5	34:BA:906:G:C2	2.21	0.59
55:BC:16:U:H5	55:BC:18:G:C5'	2.15	0.59
36:BG:157:ILE:HG13	36:BG:164:ARG:CB	2.33	0.59
36:BG:22:TRP:HH2	36:BG:33:LEU:N	2.01	0.59
37:BH:130:GLY:O	37:BH:131:ARG:C	2.40	0.59
38:BI:18:ARG:O	38:BI:25:ARG:O	2.21	0.59
39:BJ:14:LEU:CD1	39:BJ:15:ASP:N	2.57	0.59
41:BL:10:LEU:O	41:BL:14:ARG:NH1	2.30	0.59
42:BM:116:LYS:O	42:BM:121:ARG:HB3	2.02	0.59
43:BN:65:LEU:HD13	47:BR:36:PHE:CZ	2.37	0.59
34:BA:676:A:H5"	44:BO:113:PRO:HB2	1.84	0.59
46:BQ:16:ASP:CG	46:BQ:34:LEU:HD13	2.17	0.59
48:BS:36:ILE:HD11	48:BS:60:VAL:CG2	2.32	0.59
49:BT:19:ILE:HB	49:BT:37:GLY:C	2.23	0.59
50:BU:104:LYS:CD	50:BU:105:ALA:H	2.15	0.59
51:BV:17:SER:HB3	51:BV:54:ARG:NH1	2.18	0.59
51:BV:58:LEU:CB	51:BV:62:GLU:HB3	2.18	0.59
54:BY:9:ARG:NH1	54:BY:21:TYR:HD2	1.96	0.59
54:BY:23:PRO:C	54:BY:25:LYS:H	2.04	0.59
57:BZ:64:ILE:HD11	57:BZ:187:TYR:C	2.21	0.59
57:BZ:206:GLN:C	57:BZ:227:LYS:H	2.00	0.59
57:BZ:443:ILE:HD13	57:BZ:447:GLY:O	2.03	0.59
57:BZ:586:ARG:C	57:BZ:587:ILE:HG13	2.22	0.59
57:BZ:21:LEU:HD11	57:BZ:98:VAL:HG23	1.85	0.59
57:BZ:497:VAL:CA	57:BZ:514:HIS:ND1	2.59	0.59
1:AA:2187:G:O2'	1:AA:2188:C:H5'	2.02	0.59
1:AA:2100:G:H1'	1:AA:2190:G:N2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1068:G:O4'	1:AA:1096:A:C4'	2.50	0.59
1:AA:1131:G:O2'	1:AA:1132:A:O5'	2.10	0.59
1:AA:126:A:H2'	1:AA:127:A:C5'	2.32	0.59
1:AA:1343:G:N2	1:AA:1405:U:C1'	2.66	0.59
1:AA:130:C:OP1	1:AA:1348:G:N2	2.36	0.59
1:AA:1499:C:H2'	1:AA:1499:C:O2	2.02	0.59
1:AA:1516:U:H2'	1:AA:1517:G:C8	2.37	0.59
1:AA:150:C:O2	1:AA:151:C:C5	2.56	0.59
1:AA:1521:G:C3'	1:AA:1522:G:H5'	2.33	0.59
1:AA:1612:C:C2	1:AA:1620:G:N2	2.71	0.59
1:AA:1609:A:C8	1:AA:1616:A:C1'	2.86	0.59
1:AA:1630:G:C5	1:AA:1630(A):C:C5	2.90	0.59
1:AA:1667:G:O6	1:AA:1992:G:OP1	2.20	0.59
1:AA:1742:C:N4	1:AA:1743:G:H8	2.00	0.59
1:AA:191:A:C2	1:AA:192:C:C6	2.90	0.59
1:AA:1944:U:H2'	1:AA:1945:G:OP1	2.02	0.59
1:AA:1955:U:O3'	1:AA:1956:U:H5	1.85	0.59
1:AA:1992:G:C4'	1:AA:1993:U:C4	2.85	0.59
1:AA:2107:C:H4'	1:AA:2108:C:O5'	2.02	0.59
1:AA:2355:C:C4	1:AA:2356:C:C4	2.91	0.59
1:AA:236:C:H4'	1:AA:431:U:H1'	1.85	0.59
1:AA:2071:A:H2	1:AA:2441:C:N3	1.99	0.59
1:AA:2466:C:N4	1:AA:2485:G:C6	2.71	0.59
1:AA:2469:A:C5	1:AA:2470:G:C8	2.91	0.59
1:AA:2493:U:O4	1:AA:2494:G:C8	2.56	0.59
1:AA:2530:A:H3'	1:AA:2531:A:H5''	1.85	0.59
1:AA:2543:G:C5	1:AA:2544:G:C6	2.90	0.59
1:AA:25:U:H2'	1:AA:25:U:O2	2.03	0.59
1:AA:2642:G:H2'	1:AA:2643:G:H8	1.67	0.59
1:AA:2716:U:H2'	1:AA:2717:G:C8	2.38	0.59
1:AA:2849:U:C6	1:AA:2849:U:C3'	2.82	0.59
1:AA:2884:U:H2'	1:AA:2885:C:O4'	2.03	0.59
1:AA:429:A:H2'	1:AA:430:G:N7	2.18	0.59
1:AA:36:G:H4'	1:AA:451:C:O2	2.03	0.59
1:AA:476:G:N1	1:AA:479:A:OP2	2.30	0.59
1:AA:548:A:N6	1:AA:549:G:N2	2.49	0.59
1:AA:612:G:H21	1:AA:617:G:H1	1.50	0.59
1:AA:669:G:N3	1:AA:669:G:C2'	2.59	0.59
1:AA:893:C:H2'	1:AA:894:C:H5'	1.83	0.59
1:AA:928:G:O2'	24:AZ:43:ILE:HG12	2.03	0.59
1:AA:942:G:O3'	11:AM:32:THR:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:957:A:O3'	1:AA:958:U:C4'	2.50	0.59
2:AB:83:G:C2	2:AB:84:C:C6	2.91	0.59
3:AC:46:LYS:CD	3:AC:210:ARG:HB3	2.32	0.59
4:AD:206:LEU:O	4:AD:206:LEU:CD2	2.51	0.59
4:AD:31:LYS:HD2	4:AD:31:LYS:H	1.67	0.59
4:AD:80:ALA:O	4:AD:81:ALA:HB2	2.01	0.59
5:AE:50:GLY:C	5:AE:76:ARG:NE	2.46	0.59
5:AE:53:PRO:CG	5:AE:75:VAL:HG22	2.31	0.59
5:AE:8:LYS:HZ2	5:AE:9:VAL:CG1	2.09	0.59
7:AG:107:LEU:CD2	7:AG:177:GLY:HA3	2.33	0.59
7:AG:19:LEU:HA	7:AG:22:ARG:HB3	1.85	0.59
8:AH:31:GLY:C	8:AH:33:LEU:H	2.07	0.59
8:AH:85:LYS:NZ	8:AH:85:LYS:HB2	2.16	0.59
31:AI:33:PRO:O	31:AI:37:THR:N	2.34	0.59
32:AJ:103:GLN:HA	32:AJ:106:GLU:HG2	1.82	0.59
9:AK:67:LEU:HA	9:AK:70:LYS:HZ1	1.67	0.59
10:AL:106:LEU:O	10:AL:109:LYS:CA	2.51	0.59
11:AM:126:VAL:CG2	11:AM:127:ALA:N	2.66	0.59
15:AQ:107:ASP:HB2	15:AQ:108:ARG:HD3	1.84	0.59
15:AQ:7:ILE:CG1	15:AQ:8:LYS:H	2.16	0.59
16:AR:108:GLU:CD	16:AR:109:LEU:H	2.05	0.59
16:AR:76:TYR:CD2	16:AR:80:ILE:CD1	2.78	0.59
20:AV:1:MET:HA	20:AV:33:LYS:HG3	1.84	0.59
24:AZ:28:LEU:HD23	24:AZ:28:LEU:H	1.64	0.59
34:BA:1049:U:C4	47:BR:3:ARG:HB2	2.37	0.59
34:BA:1117:G:H5'	34:BA:1118:C:OP2	2.03	0.59
34:BA:1157:A:N3	34:BA:1157:A:H2'	2.17	0.59
34:BA:1212:U:O2'	34:BA:1213:A:O5'	2.20	0.59
34:BA:1253:G:H2'	34:BA:1254:C:O4'	2.03	0.59
34:BA:1433:A:C8	34:BA:1468:A:N6	2.71	0.59
34:BA:345:C:H5'	34:BA:346:G:C5	2.38	0.59
34:BA:503:C:N3	34:BA:504:C:C5	2.70	0.59
34:BA:55:A:C2	34:BA:56:U:H1'	2.37	0.59
34:BA:676:A:H4'	44:BO:114:VAL:O	2.03	0.59
34:BA:812:C:O4'	34:BA:813:U:C5	2.55	0.59
34:BA:890:G:O2'	34:BA:891:U:C6	2.53	0.59
34:BA:934:C:O2	34:BA:937:A:N6	2.36	0.59
34:BA:951:G:N2	34:BA:952:U:C2	2.70	0.59
56:BE:11:C:O5'	56:BE:11:C:H6	1.85	0.59
35:BF:142:LEU:HD23	35:BF:142:LEU:O	2.02	0.59
35:BF:199:TYR:O	35:BF:201:ILE:HD12	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:52:SER:O	37:BH:55:ALA:N	2.36	0.59
38:BI:10:MET:HA	38:BI:32:VAL:HG22	1.84	0.59
38:BI:147:ASP:O	38:BI:148:VAL:C	2.40	0.59
34:BA:923:A:C5'	38:BI:21:ALA:HB2	2.32	0.59
36:BG:135:LYS:HZ2	38:BI:52:PRO:HG2	1.67	0.59
38:BI:62:ALA:HB3	38:BI:63:ARG:HE	1.68	0.59
38:BI:96:PRO:C	38:BI:98:THR:N	2.49	0.59
39:BJ:30:LEU:HB3	39:BJ:35:ALA:CB	2.33	0.59
40:BK:31:MET:CG	40:BK:32:ARG:H	2.14	0.59
40:BK:50:ILE:O	40:BK:54:THR:O	2.20	0.59
38:BI:78:HIS:HB2	41:BL:104:ARG:HD3	1.84	0.59
43:BN:75:ILE:HG22	43:BN:76:ASN:N	2.16	0.59
46:BQ:11:ARG:O	46:BQ:45:VAL:CB	2.29	0.59
46:BQ:19:LEU:HD12	46:BQ:20:THR:N	2.18	0.59
46:BQ:15:VAL:CG2	46:BQ:34:LEU:CD2	2.73	0.59
46:BQ:56:LEU:CD1	46:BQ:60:VAL:HG21	2.33	0.59
49:BT:56:ALA:O	49:BT:60:LEU:CG	2.50	0.59
51:BV:61:LYS:CD	51:BV:64:ARG:HH22	2.07	0.59
57:BZ:10:ILE:H	57:BZ:74:ASP:H	0.60	0.59
57:BZ:10:ILE:HD12	57:BZ:21:LEU:HB2	1.85	0.59
57:BZ:13:HIS:HB3	57:BZ:109:THR:CA	2.32	0.59
57:BZ:468:THR:O	57:BZ:469:PHE:HB3	2.03	0.59
57:BZ:483:ARG:HG3	57:BZ:573:ASP:CB	2.33	0.59
57:BZ:67:ASP:H	57:BZ:68:TYR:HA	1.68	0.59
57:BZ:18:LYS:CA	60:BZ:701:GCP:O2B	2.46	0.59
56:BD:25:C:H2'	56:BD:26:A:C8	2.31	0.59
34:BA:1010:G:N2	34:BA:1020:U:C1'	2.61	0.59
1:AA:1417:C:N4	1:AA:1581:G:H1	1.85	0.59
1:AA:1111:A:H8	1:AA:1111:A:O5'	1.85	0.59
1:AA:1036:G:N3	1:AA:1120:G:N1	2.50	0.59
1:AA:70:G:OP1	1:AA:112:U:O4	2.20	0.59
1:AA:1188:U:O2	1:AA:1189:A:O4'	2.19	0.59
1:AA:1202:C:N3	1:AA:1203:G:O2'	2.32	0.59
1:AA:1459:G:O6	1:AA:1461:G:N1	2.36	0.59
1:AA:1471:A:C8	1:AA:1521:G:C2	2.91	0.59
1:AA:1498:C:C1'	1:AA:1576:U:H4'	2.33	0.59
1:AA:1695:G:C3'	1:AA:1696:G:H5'	2.32	0.59
1:AA:1789:A:C2'	4:AD:213:ARG:HH12	2.16	0.59
1:AA:1790:C:O2'	4:AD:209:ALA:CB	2.49	0.59
1:AA:414:C:H1'	1:AA:1864:U:O2'	2.03	0.59
1:AA:1906:G:OP2	1:AA:1930:G:C8	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2093:G:H2'	1:AA:2094:G:C5'	2.32	0.59
1:AA:2106:G:O2'	1:AA:2107:C:H5'	2.03	0.59
1:AA:2135:A:C5'	1:AA:2136:C:C5	2.86	0.59
1:AA:2165:G:C8	1:AA:2165:G:OP2	2.56	0.59
1:AA:2173:A:H2'	1:AA:2174:C:O4'	2.02	0.59
1:AA:2309:A:C2	1:AA:2310:A:O4'	2.56	0.59
1:AA:2306:C:H5	1:AA:2311:A:N6	2.00	0.59
1:AA:2318:G:P	1:AA:2318:G:H8	2.25	0.59
1:AA:2626:C:O5'	1:AA:2626:C:H6	1.85	0.59
1:AA:2743:C:C2	1:AA:2762:G:C2	2.90	0.59
59:AA:3003:8AN:H5'A	56:BE:75:C:C3'	2.33	0.59
1:AA:343:C:HO2'	1:AA:344:G:H5'	1.65	0.59
1:AA:360:G:C2'	1:AA:361:G:C5'	2.81	0.59
1:AA:424:G:H21	1:AA:425:G:H1'	1.67	0.59
1:AA:612:G:O2'	1:AA:615:G:H2'	2.03	0.59
1:AA:637:A:H4'	1:AA:638:G:O4'	2.03	0.59
1:AA:666:G:H3'	1:AA:666:G:OP2	2.03	0.59
1:AA:728:G:C1'	1:AA:729:G:C8	2.86	0.59
1:AA:779:U:H3'	1:AA:780:G:C8	2.37	0.59
1:AA:909:A:N3	1:AA:912:C:C6	2.71	0.59
1:AA:914:C:C5	1:AA:915:C:C5	2.91	0.59
1:AA:972:G:N7	1:AA:973:A:C8	2.71	0.59
1:AA:973:A:H4'	1:AA:974:G:OP1	2.02	0.59
1:AA:975:G:N1	1:AA:976:C:H6	2.01	0.59
2:AB:37:C:N4	2:AB:44:G:N1	2.50	0.59
3:AC:11:LEU:HD22	5:AE:35:GLN:CD	193.15	0.59
3:AC:21:THR:HA	3:AC:225:ASN:HD22	1.68	0.59
3:AC:28:LEU:O	3:AC:32:LEU:HG	2.02	0.59
4:AD:143:HIS:C	4:AD:145:VAL:HG23	2.22	0.59
4:AD:147:LEU:HD23	4:AD:154:LYS:HG3	1.83	0.59
4:AD:29:PRO:HB2	4:AD:31:LYS:CD	2.33	0.59
4:AD:84:TYR:CB	4:AD:91:ARG:HG3	2.32	0.59
5:AE:128:SER:OG	5:AE:129:HIS:HD2	1.86	0.59
5:AE:4:ILE:O	5:AE:27:LEU:HB2	2.02	0.59
6:AF:192:LEU:HD11	6:AF:194:MET:CG	2.26	0.59
6:AF:197:ASP:HB2	6:AF:200:GLU:CD	2.23	0.59
7:AG:57:ALA:O	7:AG:58:GLN:C	2.40	0.59
32:AJ:27:LEU:HD11	32:AJ:57:ILE:CG2	2.33	0.59
9:AK:95:PRO:HG2	9:AK:124:ALA:CB	2.33	0.59
9:AK:4:TYR:CE1	16:AR:101:ARG:NH2	2.70	0.59
10:AL:68:GLU:CA	10:AL:104:ARG:CZ	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:113:LYS:CA	11:AM:129:ALA:CB	2.80	0.59
6:AF:31:HIS:CB	11:AM:14:LYS:HZ2	2.11	0.59
11:AM:49:ARG:C	11:AM:52:GLU:HG2	2.21	0.59
1:AA:2484:G:O2'	12:AN:46:GLN:HG3	2.03	0.59
13:AO:61:HIS:ND1	13:AO:64:ARG:NE	2.51	0.59
16:AR:76:TYR:HD2	16:AR:80:ILE:HD11	1.63	0.59
16:AR:9:VAL:O	16:AR:12:ARG:HB2	2.02	0.59
18:AT:18:ARG:HD2	18:AT:75:TYR:HB3	1.85	0.59
18:AT:33:ARG:O	18:AT:37:ARG:HG2	2.01	0.59
19:AU:26:TYR:CB	19:AU:28:PHE:HZ	2.16	0.59
21:AW:120:ILE:HB	21:AW:123:ASP:OD2	2.03	0.59
34:BA:1173:G:H2'	34:BA:1174:G:H5''	1.85	0.59
34:BA:1269:A:H8	34:BA:1270:C:H1'	1.68	0.59
34:BA:12:U:N3	34:BA:13:U:O4	2.36	0.59
34:BA:135:C:H6	34:BA:135:C:O5'	1.85	0.59
34:BA:1399:C:H4'	34:BA:1400:C:O5'	2.03	0.59
34:BA:306:G:C4	34:BA:307:C:C5	2.91	0.59
34:BA:336:C:H2'	34:BA:337:C:C6	2.38	0.59
34:BA:656:C:H2'	34:BA:657:G:H5'	1.85	0.59
34:BA:666:G:C2	34:BA:741:G:N3	2.71	0.59
34:BA:750:G:H1'	48:BS:23:GLY:N	2.18	0.59
34:BA:781:A:C2'	34:BA:782:A:C5'	2.67	0.59
34:BA:875:C:C2	34:BA:876:G:C8	2.91	0.59
34:BA:890:G:O2'	34:BA:891:U:P	2.60	0.59
34:BA:896:C:C2	34:BA:897:C:C5	2.90	0.59
34:BA:908:A:N3	34:BA:909:A:C8	2.71	0.59
34:BA:970:C:H4'	34:BA:972:C:C6	2.38	0.59
55:BC:58:A:H1'	55:BC:60:U:C5	2.37	0.59
35:BF:61:LEU:N	35:BF:64:ARG:HH11	2.01	0.59
35:BF:91:PRO:HG2	35:BF:155:LEU:HB2	1.85	0.59
36:BG:120:VAL:HG21	36:BG:137:ALA:HB1	1.82	0.59
36:BG:114:PRO:HD3	36:BG:183:ASP:OD1	2.03	0.59
37:BH:24:GLU:CD	37:BH:25:ARG:N	2.56	0.59
38:BI:88:LYS:CB	38:BI:123:LEU:O	2.50	0.59
38:BI:43:LEU:O	38:BI:65:ASN:ND2	2.36	0.59
36:BG:131:ARG:NH1	38:BI:50:GLU:OE1	2.36	0.59
34:BA:878:G:H5''	41:BL:89:PRO:O	2.03	0.59
44:BO:86:GLY:CA	44:BO:112:THR:HG23	2.33	0.59
47:BR:12:ARG:O	47:BR:13:THR:C	2.41	0.59
47:BR:24:CYS:N	47:BR:33:VAL:HG11	2.18	0.59
48:BS:79:ARG:CG	48:BS:82:ILE:HD12	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:22:LEU:HD12	50:BU:40:LYS:O	2.02	0.59
50:BU:66:SER:OG	50:BU:67:LYS:N	2.36	0.59
50:BU:7:THR:HG22	50:BU:8:GLY:N	2.18	0.59
53:BX:23:ARG:NH1	53:BX:24:LEU:HG	2.18	0.59
53:BX:91:LEU:N	53:BX:91:LEU:HD23	2.18	0.59
46:BQ:27:LYS:HB2	54:BY:7:ARG:HH11	1.43	0.59
57:BZ:206:GLN:HB2	57:BZ:228:ARG:HB2	1.84	0.59
57:BZ:23:ASP:O	57:BZ:24:LYS:CG	2.51	0.59
57:BZ:305:PRO:HG3	57:BZ:344:ALA:O	2.03	0.59
57:BZ:406:ASP:C	57:BZ:407:VAL:HG13	2.23	0.59
57:BZ:481:GLY:CA	57:BZ:482:GLN:O	2.51	0.59
57:BZ:563:MET:HB3	57:BZ:564:THR:CA	2.33	0.59
57:BZ:537:CYS:O	57:BZ:538:LEU:HD22	2.03	0.59
37:BH:194:LEU:CB	37:BH:196:LEU:HD11	2.31	0.59
1:AA:1054:A:H2'	1:AA:1055:G:H8	1.59	0.58
1:AA:1069:A:C5'	1:AA:1070:A:C8	2.86	0.58
1:AA:1149:G:O2'	1:AA:1150:C:H5'	2.03	0.58
1:AA:1154:G:O2'	1:AA:1155:A:H5'	2.02	0.58
1:AA:123:G:N2	1:AA:124:G:H1'	2.18	0.58
1:AA:1248:G:N1	6:AF:52:LYS:NZ	2.50	0.58
1:AA:1274:A:C2	1:AA:1302:A:C2	2.91	0.58
1:AA:1433:U:H6	1:AA:1433:U:H3'	1.68	0.58
1:AA:145:G:C6	1:AA:146:G:C6	2.90	0.58
1:AA:1492:G:H5'	1:AA:1493:C:OP2	2.03	0.58
1:AA:1514:U:H2'	1:AA:1514:U:O2	2.03	0.58
1:AA:1646:C:C3'	1:AA:1647:G:C5'	2.68	0.58
1:AA:1688:U:C2	1:AA:1700:A:H5''	2.38	0.58
1:AA:1789:A:C3'	4:AD:213:ARG:HH12	2.15	0.58
1:AA:1934:C:H5'	1:AA:1974:C:C4'	2.30	0.58
1:AA:2029:G:O5'	1:AA:2029:G:H8	1.86	0.58
1:AA:2022:U:O2'	1:AA:2034:U:C2	2.51	0.58
1:AA:2147:G:N3	1:AA:2147:G:H2'	2.18	0.58
1:AA:2194:G:H2'	1:AA:2195:C:H5	1.68	0.58
1:AA:2216:G:O5'	1:AA:2216:G:H8	1.85	0.58
1:AA:2263:C:C2'	1:AA:2264:C:H5'	2.33	0.58
1:AA:233:A:H2'	1:AA:234:C:O5'	2.03	0.58
1:AA:2349:G:H3'	1:AA:2350:C:C5'	2.24	0.58
1:AA:2520:C:O2'	1:AA:2521:C:C5'	2.50	0.58
1:AA:1953:A:N6	1:AA:2550:G:H5'	2.18	0.58
1:AA:2553:G:O6	1:AA:2583:G:O2'	2.21	0.58
1:AA:2577:A:O2'	1:AA:2612:C:C4	2.55	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2619:C:O2'	1:AA:2620:C:C5'	2.51	0.58
1:AA:2049:G:N2	1:AA:2620:C:N1	2.51	0.58
1:AA:2637:U:O4'	1:AA:2637:U:OP2	2.20	0.58
1:AA:2652:C:C4	1:AA:2669:G:N3	2.71	0.58
1:AA:270(A):A:H8	1:AA:370:G:O4'	1.85	0.58
1:AA:270(C):C:N4	1:AA:270(D):C:N4	2.51	0.58
1:AA:2742:C:H2'	1:AA:2742:C:O2	2.02	0.58
1:AA:2773:C:H2'	1:AA:2774:C:H6	1.67	0.58
1:AA:2785:C:H2'	1:AA:2786:U:C6	2.38	0.58
1:AA:283:A:C2'	1:AA:284:U:H5'	2.32	0.58
1:AA:2845:G:H2'	1:AA:2846:G:H8	1.68	0.58
1:AA:2853:C:O2'	1:AA:2854:G:H5'	2.03	0.58
1:AA:481:G:H2'	1:AA:507:A:N6	2.18	0.58
1:AA:515:A:C8	1:AA:515:A:C3'	2.86	0.58
1:AA:565:C:C2'	1:AA:565:C:O2	2.50	0.58
1:AA:573:G:H2'	1:AA:574:C:H5''	1.85	0.58
1:AA:605:C:H2'	1:AA:606:U:C6	2.38	0.58
1:AA:625:G:O6	11:AM:100:LEU:HB3	2.02	0.58
1:AA:724:U:H2'	1:AA:725:G:C5'	2.33	0.58
1:AA:900:A:N7	1:AA:901:A:H1'	2.18	0.58
1:AA:931:G:C4	24:AZ:24:LYS:HE3	2.38	0.58
1:AA:966:G:C6	1:AA:967:C:N4	2.71	0.58
1:AA:98:G:N2	1:AA:103:A:C2	2.70	0.58
2:AB:35:U:C2'	2:AB:35:U:O2	2.48	0.58
3:AC:180:PHE:CE2	3:AC:184:LYS:CD	2.83	0.58
4:AD:105:ILE:CD1	4:AD:106:ILE:H	2.06	0.58
5:AE:13:ARG:NH1	11:AM:58:THR:OG1	124.19	0.58
5:AE:171:GLU:N	5:AE:185:LYS:HZ3	2.00	0.58
5:AE:104:VAL:HG21	5:AE:198:VAL:HG22	1.85	0.58
7:AG:119:GLY:HA3	7:AG:180:PHE:CD1	2.38	0.58
7:AG:12:TYR:CZ	7:AG:13:GLU:HG3	2.38	0.58
7:AG:54:GLU:OE1	7:AG:69:ALA:O	2.20	0.58
8:AH:103:LEU:O	8:AH:113:VAL:O	2.21	0.58
8:AH:110:SER:O	8:AH:112:PRO:CD	2.46	0.58
1:AA:1046:A:N7	31:AI:6:ASN:HA	2.18	0.58
9:AK:17:ASP:OD1	9:AK:18:ALA:C	2.42	0.58
9:AK:97:ARG:O	9:AK:98:VAL:C	2.41	0.58
10:AL:121:VAL:O	10:AL:122:LEU:HB2	2.03	0.58
10:AL:39:ILE:HD13	10:AL:39:ILE:H	1.67	0.58
10:AL:16:ALA:CB	10:AL:45:GLU:CB	2.81	0.58
10:AL:97:ARG:HE	10:AL:99:PHE:N	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:90:ARG:HA	11:AM:125:VAL:HG22	1.85	0.58
14:AP:4:LEU:O	14:AP:8:GLU:HG3	2.02	0.58
17:AS:61:VAL:C	17:AS:62:LEU:HD23	2.23	0.58
17:AS:67:GLY:CA	17:AS:94:LEU:HD23	2.33	0.58
19:AU:35:THR:N	19:AU:38:GLU:HB2	2.17	0.58
19:AU:63:LYS:NZ	19:AU:72:LYS:HE2	2.18	0.58
20:AV:17:SER:OG	20:AV:18:GLY:N	2.26	0.58
20:AV:74:PRO:HB3	20:AV:101:LYS:CA	2.32	0.58
21:AW:7:ALA:HB1	21:AW:9:TYR:O	2.02	0.58
22:AX:72:ARG:CD	22:AX:75:LEU:HD22	2.33	0.58
34:BA:1089:G:C2'	34:BA:1090:U:H5'	2.33	0.58
34:BA:1203:C:H2'	34:BA:1204:A:H8	1.68	0.58
34:BA:1217:C:OP1	47:BR:8:GLU:OE2	2.21	0.58
34:BA:1291:G:N2	34:BA:1292:U:C2	2.71	0.58
34:BA:173:U:H4'	34:BA:197:A:C4	2.38	0.58
34:BA:263:A:C3'	34:BA:264:U:H5''	2.33	0.58
34:BA:278:G:H1'	34:BA:282:A:H1'	1.85	0.58
34:BA:283:C:O2	34:BA:283:C:C2'	2.51	0.58
34:BA:346:G:N2	34:BA:347:G:C4	2.71	0.58
34:BA:369:C:OP2	34:BA:388:G:N1	2.35	0.58
34:BA:449:C:C4	34:BA:450:G:H1'	2.38	0.58
34:BA:611:A:H2'	34:BA:612:C:H6	1.68	0.58
34:BA:597:G:C5	34:BA:644:G:N1	2.71	0.58
34:BA:719:C:H2'	34:BA:720:C:O4'	2.02	0.58
34:BA:792:A:O2'	34:BA:794:A:N7	2.28	0.58
34:BA:812:C:O2'	34:BA:813:U:OP2	2.20	0.58
34:BA:90:C:O2'	34:BA:91:C:C5'	2.50	0.58
34:BA:944:G:C2'	34:BA:945:G:H5''	2.34	0.58
34:BA:992:U:H5'	34:BA:993:G:C8	2.37	0.58
56:BE:67:C:H2'	56:BE:68:C:C6	2.38	0.58
35:BF:15:VAL:HG11	35:BF:209:ARG:CB	2.31	0.58
36:BG:17:ASP:OD2	36:BG:18:TRP:CZ3	2.56	0.58
38:BI:122:GLU:HG2	38:BI:126:ARG:HG3	1.85	0.58
39:BJ:98:LEU:CD2	51:BV:28:GLU:HA	2.33	0.58
40:BK:41:ARG:HG2	40:BK:41:ARG:HH11	1.66	0.58
40:BK:89:MET:SD	40:BK:89:MET:N	2.76	0.58
41:BL:126:LYS:NZ	41:BL:127:LEU:HB2	2.18	0.58
41:BL:17:THR:HB	41:BL:18:ARG:CZ	2.33	0.58
42:BM:89:ASN:ND2	42:BM:92:TYR:CE1	2.71	0.58
44:BO:20:TYR:O	44:BO:30:VAL:HA	2.03	0.58
47:BR:23:ARG:NE	47:BR:30:ALA:HB2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BT:49:LEU:CD2	49:BT:73:LEU:HD21	2.32	0.58
51:BV:47:THR:HG22	51:BV:47:THR:O	2.03	0.58
51:BV:75:ILE:CG2	51:BV:76:LEU:HD22	2.33	0.58
51:BV:76:LEU:CD2	51:BV:76:LEU:H	2.15	0.58
52:BW:29:ARG:HG2	52:BW:48:THR:HB	1.85	0.58
57:BZ:107:PRO:HG2	57:BZ:460:SER:O	2.03	0.58
57:BZ:122:LYS:HZ1	57:BZ:153:ALA:HB1	1.64	0.58
57:BZ:98:VAL:HA	57:BZ:126:VAL:O	2.03	0.58
57:BZ:159:ASP:O	57:BZ:162:ILE:HG13	2.03	0.58
57:BZ:64:ILE:H	57:BZ:65:LYS:CG	2.16	0.58
56:BD:67:C:C5	56:BD:68:C:N3	2.68	0.58
1:AA:2144:U:OP2	1:AA:2144:U:H6	1.85	0.58
34:BA:1031:G:H2'	34:BA:1032:A:C8	2.37	0.58
1:AA:1115:G:H2'	1:AA:1115:G:N3	2.16	0.58
1:AA:1000:A:C8	1:AA:1154:G:N2	2.71	0.58
1:AA:443:A:O4'	1:AA:1201:C:O4'	2.21	0.58
1:AA:1203:G:C2	1:AA:1241:A:C8	2.91	0.58
1:AA:1264:G:N7	1:AA:1265:A:C8	2.71	0.58
1:AA:1427:A:OP1	1:AA:1427:A:H8	1.85	0.58
1:AA:1471:A:N6	1:AA:1519:G:N2	2.48	0.58
1:AA:1531:C:O2	1:AA:1532:C:C5	2.57	0.58
1:AA:1675:C:O2	1:AA:1675:C:H2'	2.02	0.58
1:AA:1747:G:O2'	1:AA:1748:G:H5'	2.02	0.58
1:AA:1832:C:N4	1:AA:1833:U:C4	2.72	0.58
1:AA:1857:G:N7	1:AA:1883:G:O6	2.37	0.58
1:AA:1861:G:C2'	1:AA:1862:G:H5'	2.32	0.58
1:AA:1906:G:OP2	1:AA:1930:G:N7	2.36	0.58
1:AA:1944:U:O2	1:AA:1955:U:C6	2.56	0.58
1:AA:2018:G:P	1:AA:2018:G:H3'	2.43	0.58
1:AA:529:A:N6	1:AA:2023:G:C4	2.71	0.58
1:AA:2278:A:N7	22:AX:14:ARG:CG	2.66	0.58
1:AA:2401:U:OP2	1:AA:2402:C:N4	2.35	0.58
1:AA:2500:U:H4'	1:AA:2501:C:OP2	2.02	0.58
1:AA:2570:G:C2	1:AA:2571:C:C2	2.91	0.58
1:AA:2572:A:H5''	1:AA:2573:C:OP1	2.04	0.58
1:AA:2618:G:O2'	5:AE:150:VAL:HG12	2.03	0.58
1:AA:2619:C:H5''	5:AE:152:LYS:CB	2.33	0.58
1:AA:2629:A:C2	1:AA:2801:A:N3	2.71	0.58
1:AA:263:C:C2'	1:AA:263:C:O2	2.48	0.58
1:AA:2777:G:C8	1:AA:2777:G:C3'	2.86	0.58
1:AA:2791:C:H3'	1:AA:2791:C:OP2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2629:A:C2	1:AA:2801:A:C2	2.91	0.58
1:AA:2810:A:H2'	1:AA:2811:G:C5'	2.33	0.58
1:AA:2629:A:C5'	1:AA:2895:U:N1	2.56	0.58
1:AA:281:G:C8	1:AA:427:U:O2	2.56	0.58
1:AA:500:G:H2'	1:AA:501:A:C5'	2.33	0.58
1:AA:502:A:C2'	1:AA:503:A:H5'	2.33	0.58
1:AA:510:C:O5'	1:AA:512:G:C6	2.57	0.58
1:AA:547:A:H2'	1:AA:548:A:O4'	2.03	0.58
1:AA:71:A:O2'	1:AA:72:U:C5'	2.52	0.58
1:AA:775:G:H21	1:AA:787:U:C2'	2.08	0.58
1:AA:784:A:O2'	1:AA:785:G:H5'	2.03	0.58
1:AA:811:U:C6	1:AA:811:U:H3'	2.39	0.58
1:AA:942:G:C6	1:AA:943:U:O4	2.57	0.58
1:AA:974:G:C4	1:AA:1186:G:C6	2.90	0.58
2:AB:60:C:O2	2:AB:60:C:C2'	2.51	0.58
3:AC:171:ILE:HG12	3:AC:172:HIS:H	1.67	0.58
1:AA:2125:G:H1'	3:AC:218:MET:H	0.68	0.58
3:AC:75:LEU:CD1	3:AC:99:ILE:HD13	2.29	0.58
4:AD:143:HIS:O	4:AD:144:ALA:HB3	2.02	0.58
1:AA:692:C:H4'	4:AD:42:GLY:HA3	1.85	0.58
5:AE:103:ASP:N	5:AE:200:GLU:OE1	2.34	0.58
1:AA:2631:G:N2	5:AE:61:ARG:NH1	2.50	0.58
6:AF:39:TRP:CZ3	6:AF:43:LYS:HB2	2.38	0.58
7:AG:125:PHE:CD2	7:AG:129:GLY:N	2.72	0.58
32:AJ:108:ALA:HB1	32:AJ:111:LYS:O	2.03	0.58
32:AJ:121:GLU:OE1	32:AJ:121:GLU:HA	2.01	0.58
9:AK:23:LEU:HD12	9:AK:63:THR:CB	2.32	0.58
9:AK:51:PHE:CD2	9:AK:119:ARG:HB2	2.38	0.58
10:AL:10:VAL:N	10:AL:17:ARG:O	2.36	0.58
10:AL:63:VAL:CG2	10:AL:82:ASN:H	2.15	0.58
11:AM:116:GLY:C	11:AM:121:LYS:HB3	2.24	0.58
1:AA:832:G:OP2	11:AM:35:HIS:CG	2.56	0.58
15:AQ:112:ARG:HH22	34:BA:1464:G:C3'	2.16	0.58
18:AT:22:ASP:HA	18:AT:75:TYR:CZ	2.38	0.58
20:AV:45:VAL:CA	20:AV:57:GLN:HG2	2.32	0.58
23:AY:23:LYS:CE	23:AY:55:LEU:HD21	2.33	0.58
19:AU:5:TYR:HB3	23:AY:24:LYS:NZ	2.18	0.58
34:BA:1120:G:C8	34:BA:1120:G:O5'	2.55	0.58
34:BA:1181:G:O3'	34:BA:1184:G:H5'	2.03	0.58
34:BA:1216:G:H2'	34:BA:1217:C:C6	2.38	0.58
34:BA:1224:G:C3'	52:BW:78:ARG:NH1	2.65	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1269:A:C1'	34:BA:1312:G:C2	2.86	0.58
34:BA:1320:C:C2	52:BW:75:ALA:O	2.56	0.58
34:BA:1389:C:H2'	34:BA:1390:U:O4'	2.03	0.58
34:BA:1411:C:H2'	34:BA:1412:C:H6	1.68	0.58
34:BA:130:A:H5''	34:BA:190:G:H2'	1.85	0.58
34:BA:21:G:C8	34:BA:22:G:N7	2.71	0.58
34:BA:624:C:H2'	34:BA:625:G:C8	2.38	0.58
34:BA:818:G:H3'	34:BA:819:A:H5''	1.84	0.58
34:BA:87:A:H62	34:BA:88:C:N4	2.00	0.58
34:BA:244:U:O4	34:BA:893:C:N3	2.36	0.58
34:BA:908:A:H2'	34:BA:909:A:H8	1.68	0.58
34:BA:572:A:C4'	34:BA:917:G:H5'	2.26	0.58
34:BA:969:A:O4'	34:BA:969:A:OP1	2.20	0.58
35:BF:149:LEU:HD22	35:BF:153:ARG:HG2	1.85	0.58
35:BF:192:SER:O	35:BF:194:PRO:CD	2.51	0.58
35:BF:185:ILE:HB	35:BF:199:TYR:HB2	1.85	0.58
35:BF:215:LEU:HD13	35:BF:215:LEU:O	2.03	0.58
36:BG:178:LEU:O	36:BG:179:ARG:CB	2.51	0.58
36:BG:35:GLU:CA	36:BG:38:ARG:HG2	2.34	0.58
37:BH:58:LEU:CD1	37:BH:59:ARG:NH1	2.64	0.58
38:BI:91:LEU:C	38:BI:91:LEU:CD2	2.68	0.58
39:BJ:67:MET:N	39:BJ:67:MET:SD	2.76	0.58
40:BK:29:LYS:NZ	40:BK:102:ARG:HB2	2.12	0.58
40:BK:75:VAL:CG1	40:BK:76:ARG:N	2.66	0.58
43:BN:12:ASP:HB3	43:BN:15:THR:HG22	1.85	0.58
44:BO:32:ILE:CG2	44:BO:40:ILE:HD11	2.22	0.58
47:BR:14:PRO:O	47:BR:15:LYS:C	2.41	0.58
48:BS:77:ARG:O	48:BS:77:ARG:NH1	2.36	0.58
34:BA:375:U:C4'	49:BT:17:TYR:HE2	2.15	0.58
49:BT:6:LEU:CD2	49:BT:6:LEU:C	2.71	0.58
52:BW:15:LEU:HD13	52:BW:71:LEU:HD13	1.82	0.58
52:BW:18:LYS:HG2	52:BW:31:ILE:HG21	1.85	0.58
53:BX:49:ALA:HB3	53:BX:99:LEU:HD11	1.85	0.58
54:BY:6:ARG:NH1	54:BY:15:ARG:CZ	2.66	0.58
57:BZ:119:TYR:CD2	57:BZ:121:LEU:CD1	2.86	0.58
57:BZ:447:GLY:HA2	57:BZ:480:VAL:HG21	1.85	0.58
32:AJ:54:PRO:O	32:AJ:70:LYS:HB3	1.97	0.58
1:AA:1005:C:H1'	1:AA:1012:U:O2	2.04	0.58
1:AA:1057:A:H2'	1:AA:1058:G:H8	1.67	0.58
1:AA:1104:C:H2'	1:AA:1105:U:C6	2.38	0.58
1:AA:1129:A:N7	1:AA:2570:G:O2'	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1142(A):A:H3'	1:AA:1143:A:H5''	1.83	0.58
1:AA:1334:G:C5'	19:AU:65:ARG:HH12	2.15	0.58
1:AA:1389:G:H5'	1:AA:1525:G:C5'	2.31	0.58
1:AA:1439:A:N7	1:AA:1440:G:C4	2.71	0.58
1:AA:120:U:H1'	1:AA:149:A:H1'	1.85	0.58
1:AA:1973:G:C6	1:AA:1974:C:N4	2.71	0.58
1:AA:1267:U:OP2	1:AA:2012:G:O6	2.21	0.58
1:AA:204:A:O2'	1:AA:205:G:P	2.60	0.58
1:AA:2118:U:C5	1:AA:2147:G:N7	2.72	0.58
1:AA:2161:C:C2'	1:AA:2162:G:H8	2.13	0.58
1:AA:224:G:H2'	1:AA:225:A:O4'	2.04	0.58
1:AA:2696:U:H2'	1:AA:2697:G:O5'	2.02	0.58
1:AA:2768:C:O2'	1:AA:2769:C:H5'	2.04	0.58
1:AA:2721:A:C2	1:AA:2873:A:C6	2.92	0.58
1:AA:6:A:N3	1:AA:2897:U:C2	2.64	0.58
1:AA:366:C:H5''	1:AA:403:U:H3	1.68	0.58
1:AA:502:A:O2'	1:AA:503:A:H5'	2.04	0.58
1:AA:522:G:H2'	1:AA:523:C:H6	1.67	0.58
1:AA:569:U:P	1:AA:945:A:H61	2.26	0.58
1:AA:573:G:H2'	1:AA:574:C:C5'	2.33	0.58
1:AA:671:C:C2	1:AA:672:C:C5	2.92	0.58
1:AA:680:G:O2'	1:AA:681:G:H5'	2.02	0.58
1:AA:714:U:H2'	1:AA:715:G:H3'	1.85	0.58
1:AA:754:C:H2'	1:AA:755:C:H5'	1.85	0.58
1:AA:83:G:N1	1:AA:102:G:O2'	2.35	0.58
1:AA:909:A:H2'	1:AA:912:C:H5	1.67	0.58
1:AA:95:G:H4'	23:AY:39:LEU:C	2.24	0.58
1:AA:961:C:C4	1:AA:2031:A:C2	2.91	0.58
2:AB:67:G:C4	2:AB:68:C:C5	2.92	0.58
2:AB:74:U:O2	21:AW:34:ASN:ND2	2.35	0.58
2:AB:77:U:O2'	21:AW:78:LYS:NZ	2.33	0.58
3:AC:22:ILE:CD1	3:AC:226:PRO:HA	2.25	0.58
4:AD:159:ALA:CB	4:AD:202:LYS:HZ1	2.16	0.58
5:AE:115:GLY:C	5:AE:117:MET:N	2.54	0.58
5:AE:179:GLU:C	5:AE:181:LEU:HG	2.24	0.58
5:AE:60:ASN:O	5:AE:61:ARG:C	2.42	0.58
1:AA:2787:C:O2	5:AE:61:ARG:CZ	2.51	0.58
6:AF:124:LEU:HD11	6:AF:200:GLU:OE2	2.03	0.58
7:AG:102:PHE:O	7:AG:103:LEU:C	2.42	0.58
7:AG:26:GLN:OE1	7:AG:29:TRP:HE3	1.87	0.58
8:AH:103:LEU:CB	8:AH:105:LEU:HD11	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:139:GLN:O	8:AH:143:GLN:HG3	2.03	0.58
8:AH:24:VAL:HG13	8:AH:37:VAL:CG1	2.33	0.58
8:AH:26:VAL:CB	8:AH:75:ALA:HB1	2.33	0.58
8:AH:69:ARG:CG	8:AH:69:ARG:HH21	2.16	0.58
32:AJ:55:VAL:H	32:AJ:56:GLU:HB3	1.68	0.58
9:AK:54:VAL:C	9:AK:130:HIS:CE1	2.77	0.58
9:AK:82:LEU:O	9:AK:83:LYS:O	2.21	0.58
9:AK:70:LYS:HD2	9:AK:86:PRO:CG	2.33	0.58
10:AL:37:ASP:O	10:AL:61:VAL:HG23	2.04	0.58
11:AM:130:PHE:N	11:AM:130:PHE:CD2	2.71	0.58
12:AN:37:LEU:CA	12:AN:100:GLY:HA2	2.34	0.58
12:AN:8:LYS:HZ3	12:AN:11:LYS:HE2	1.68	0.58
13:AO:52:ILE:O	13:AO:55:ALA:HB3	2.03	0.58
14:AP:8:GLU:O	14:AP:10:ARG:N	2.36	0.58
14:AP:9:ARG:O	14:AP:12:PHE:CD2	2.56	0.58
15:AQ:33:LYS:HD3	15:AQ:47:GLY:CA	2.32	0.58
15:AQ:64:ARG:CZ	15:AQ:77:PRO:CB	2.80	0.58
18:AT:40:ASN:O	18:AT:41:LYS:HB2	2.02	0.58
20:AV:1:MET:HE2	20:AV:67:LEU:HB3	1.84	0.58
20:AV:70:SER:OG	20:AV:78:ALA:HA	2.02	0.58
21:AW:95:PRO:CD	21:AW:130:PRO:HA	2.33	0.58
21:AW:166:SER:OG	21:AW:167:PRO:CD	2.49	0.58
23:AY:66:ASN:CG	23:AY:67:ALA:N	2.55	0.58
24:AZ:6:VAL:HB	24:AZ:35:ARG:HH21	1.68	0.58
34:BA:1003:G:C2	34:BA:1004:A:O2'	2.53	0.58
34:BA:1305:G:H5''	54:BY:5:ASP:N	2.18	0.58
34:BA:1253:G:N3	34:BA:1355:G:O2'	2.36	0.58
34:BA:148:G:N2	34:BA:175:C:C4	2.71	0.58
34:BA:1514:C:H2'	34:BA:1515:C:C5	2.38	0.58
34:BA:307:C:C4	34:BA:308:C:C5	2.82	0.58
34:BA:35:G:O2'	34:BA:36:C:H5'	2.03	0.58
34:BA:370:C:H2'	34:BA:371:G:H8	1.67	0.58
34:BA:453:A:OP2	34:BA:453:A:H8	1.86	0.58
34:BA:562:C:O2'	45:BP:15:ARG:CD	2.49	0.58
34:BA:619:U:H3	37:BH:135:LEU:HD21	1.68	0.58
34:BA:676:A:H2'	34:BA:677:U:H6	1.68	0.58
34:BA:67:C:O2	34:BA:171:A:H2	1.87	0.58
34:BA:764:C:C4	34:BA:765:G:O6	2.56	0.58
34:BA:89:U:H2'	34:BA:90:C:O4'	2.03	0.58
34:BA:914:A:H2'	34:BA:915:A:C8	2.38	0.58
34:BA:932:C:H3'	40:BK:3:ARG:CG	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BD:54:U:H6	56:BD:54:U:O5'	1.86	0.58
35:BF:97:TRP:CZ2	35:BF:102:LEU:CD1	2.82	0.58
35:BF:139:LYS:CG	35:BF:140:HIS:N	2.64	0.58
35:BF:71:VAL:HG13	35:BF:73:THR:HG23	1.85	0.58
36:BG:30:ARG:HD3	36:BG:30:ARG:N	2.18	0.58
41:BL:119:LEU:HD12	41:BL:123:GLU:OE2	2.03	0.58
41:BL:22:GLU:HA	41:BL:63:LEU:CD2	2.22	0.58
41:BL:6:ILE:C	41:BL:6:ILE:HD13	2.24	0.58
41:BL:70:GLN:NE2	41:BL:71:GLY:N	2.47	0.58
42:BM:103:THR:CG2	42:BM:104:ARG:H	2.12	0.58
43:BN:32:ALA:HB2	43:BN:75:ILE:C	2.24	0.58
44:BO:23:ALA:HB2	44:BO:28:THR:CG2	2.32	0.58
45:BP:85:ILE:CG2	45:BP:85:ILE:O	2.51	0.58
34:BA:1297:C:P	46:BQ:44:ARG:HH21	2.25	0.58
46:BQ:70:LEU:C	46:BQ:70:LEU:HD12	2.22	0.58
48:BS:26:GLU:HA	48:BS:26:GLU:OE2	2.04	0.58
48:BS:71:GLN:N	48:BS:78:TYR:CD1	2.72	0.58
48:BS:6:GLU:CG	48:BS:7:GLU:H	1.95	0.58
52:BW:22:LEU:HG	52:BW:25:LYS:NZ	2.11	0.58
57:BZ:132:ARG:HB3	57:BZ:133:PRO:HD3	1.85	0.58
57:BZ:564:THR:CB	57:BZ:567:GLN:CB	2.81	0.58
57:BZ:538:LEU:H	57:BZ:539:THR:CA	2.16	0.58
1:AA:1484:G:H2'	1:AA:1485:G:H5''	1.85	0.58
57:BZ:217:TYR:C	57:BZ:219:GLY:H	2.07	0.58
1:AA:1000:A:C8	1:AA:1001:A:C5	2.91	0.58
1:AA:1021:A:C2'	1:AA:1022:G:OP1	2.49	0.58
1:AA:1057:A:N6	1:AA:1086:A:H2'	2.18	0.58
1:AA:1095:A:O2'	1:AA:1096:A:O4'	2.21	0.58
1:AA:1248:G:OP1	16:AR:2:PRO:N	2.35	0.58
1:AA:1291:C:O2'	1:AA:1292:U:H5'	2.02	0.58
1:AA:1389:G:H2'	1:AA:1390:U:C6	2.39	0.58
1:AA:1423:G:N3	1:AA:1424:G:C8	2.71	0.58
1:AA:1515:C:OP1	1:AA:1515:C:H6	1.86	0.58
1:AA:1667:G:N2	1:AA:1991:U:N3	2.51	0.58
1:AA:1703:G:O2'	34:BA:1429:C:H4'	2.03	0.58
1:AA:2278:A:N1	1:AA:2279:G:C5	2.71	0.58
1:AA:2377:A:H2'	1:AA:2378:A:C8	2.39	0.58
1:AA:2466:C:C4	1:AA:2485:G:N1	2.71	0.58
1:AA:2740:A:N6	1:AA:2741:A:N6	2.52	0.58
1:AA:2764:A:OP1	1:AA:2764:A:C4'	2.48	0.58
1:AA:2638:G:C8	1:AA:2775:A:N1	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2839:G:C2	1:AA:2880:C:C4	2.91	0.58
1:AA:460:A:C3'	1:AA:461:C:H6	2.16	0.58
1:AA:502:A:H8	1:AA:502:A:H3'	1.66	0.58
1:AA:531:C:C2	1:AA:532:A:H1'	2.38	0.58
1:AA:638:G:N2	1:AA:650:C:O2'	2.35	0.58
1:AA:670:A:H5''	1:AA:671:C:OP1	2.03	0.58
1:AA:895:U:H5''	1:AA:896:A:C5'	2.32	0.58
1:AA:903:C:H2'	1:AA:904:C:C5	2.37	0.58
1:AA:947:G:C8	1:AA:947:G:O5'	2.54	0.58
1:AA:980:A:N6	1:AA:1135:C:H5''	2.17	0.58
2:AB:69:G:C8	2:AB:69:G:OP2	2.56	0.58
4:AD:151:LYS:HB2	4:AD:154:LYS:CE	2.33	0.58
1:AA:1818:U:C5'	4:AD:158:ALA:HB2	2.29	0.58
4:AD:175:LEU:HD22	4:AD:176:ARG:H	1.66	0.58
1:AA:1799:G:C3'	4:AD:183:ARG:NH2	2.63	0.58
1:AA:1671:U:O2'	5:AE:129:HIS:CE1	2.57	0.58
5:AE:200:GLU:CB	5:AE:202:LYS:HZ3	2.16	0.58
1:AA:250:G:H5'	5:AE:8:LYS:HG2	118.38	0.58
1:AA:320:A:O2'	6:AF:168:ARG:NH1	2.36	0.58
7:AG:44:GLY:N	7:AG:88:ILE:CG2	2.67	0.58
8:AH:11:VAL:HG11	8:AH:17:VAL:HG21	1.86	0.58
8:AH:74:ASN:O	8:AH:75:ALA:C	2.40	0.58
32:AJ:55:VAL:CG2	32:AJ:69:THR:HG22	2.33	0.58
9:AK:27:ALA:O	9:AK:29:LYS:N	2.36	0.58
9:AK:29:LYS:C	9:AK:31:ALA:N	2.52	0.58
9:AK:43:THR:CB	9:AK:44:PRO:CD	2.59	0.58
9:AK:99:LEU:HD12	9:AK:99:LEU:C	2.23	0.58
10:AL:68:GLU:HB2	10:AL:104:ARG:HD2	1.86	0.58
10:AL:35:VAL:HG21	10:AL:104:ARG:NH1	2.18	0.58
11:AM:77:ARG:NH2	11:AM:117:GLU:HG3	2.17	0.58
13:AO:100:LEU:CD1	13:AO:101:ALA:H	2.16	0.58
13:AO:80:PHE:O	13:AO:84:ALA:HB3	2.03	0.58
15:AQ:26:ASP:O	15:AQ:52:ILE:CG2	2.52	0.58
15:AQ:82:LEU:HD22	15:AQ:84:GLN:H	1.68	0.58
16:AR:93:LYS:HZ3	16:AR:93:LYS:HA	1.63	0.58
16:AR:94:ASN:ND2	17:AS:6:LYS:CE	2.61	0.58
16:AR:89:GLU:CD	17:AS:52:VAL:H	2.07	0.58
18:AT:43:GLY:O	18:AT:47:VAL:CG2	2.52	0.58
21:AW:4:ARG:NE	21:AW:44:PHE:HZ	1.80	0.58
21:AW:29:TYR:HD2	21:AW:89:PHE:CE2	2.20	0.58
22:AX:46:LYS:HG3	22:AX:78:TYR:CD2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:988:A:O3'	24:AZ:10:LYS:NZ	2.36	0.58
34:BA:1118:C:C4	34:BA:1156:G:N2	2.72	0.58
34:BA:1143:G:N3	34:BA:1144:G:C8	2.71	0.58
34:BA:1234:C:C4'	34:BA:1364:U:H1'	2.34	0.58
34:BA:132:C:HO2'	34:BA:133:U:H6	1.49	0.58
34:BA:1431:C:O2'	34:BA:1432:G:H5'	2.02	0.58
34:BA:1494:G:C6	58:BA:1601:NMY:N7	2.71	0.58
34:BA:1506:U:C6	34:BA:1506:U:P	2.96	0.58
34:BA:375:U:C4'	49:BT:17:TYR:CE2	2.87	0.58
34:BA:486:U:H2'	34:BA:487:A:C5'	2.34	0.58
34:BA:619:U:O2	37:BH:133:VAL:HG13	2.03	0.58
34:BA:644:G:C2'	34:BA:645:C:H5'	2.33	0.58
34:BA:708:C:C4'	44:BO:37:GLY:HA3	2.33	0.58
34:BA:859:A:H2'	34:BA:860:A:C5'	2.33	0.58
34:BA:940:C:H2'	34:BA:941:G:C8	2.37	0.58
34:BA:946:A:H2'	34:BA:947:G:H8	1.64	0.58
35:BF:136:VAL:N	35:BF:139:LYS:NZ	2.51	0.58
35:BF:150:SER:O	35:BF:151:GLY:O	2.22	0.58
35:BF:15:VAL:HG22	35:BF:209:ARG:CZ	2.34	0.58
35:BF:33:TYR:CG	35:BF:43:ASP:HB2	2.38	0.58
35:BF:58:ILE:O	35:BF:61:LEU:N	2.36	0.58
36:BG:22:TRP:CH2	36:BG:32:LEU:HB3	2.39	0.58
37:BH:146:ILE:O	37:BH:147:ALA:HB2	2.03	0.58
37:BH:19:LEU:O	37:BH:26:CYS:SG	2.62	0.58
38:BI:107:ARG:CZ	38:BI:107:ARG:HB2	2.33	0.58
39:BJ:16:GLN:HG3	39:BJ:17:SER:H	1.67	0.58
39:BJ:72:VAL:HG23	39:BJ:73:ASN:N	2.11	0.58
40:BK:100:ALA:HA	40:BK:103:TRP:HE3	1.69	0.58
42:BM:37:PHE:HA	42:BM:40:LEU:HD12	1.84	0.58
45:BP:41:ARG:CG	45:BP:42:THR:N	2.61	0.58
34:BA:135:C:C2	49:BT:1:MET:HG2	2.38	0.58
49:BT:23:ASP:CG	49:BT:33:ILE:HD11	2.23	0.58
34:BA:237:C:OP1	50:BU:40:LYS:NZ	2.32	0.58
39:BJ:62:TRP:CB	51:BV:35:ARG:HH12	2.15	0.58
52:BW:3:ARG:CZ	52:BW:45:VAL:CG1	2.78	0.58
57:BZ:150:ASN:ND2	57:BZ:150:ASN:H	2.01	0.58
57:BZ:250:LYS:CD	57:BZ:275:ALA:HB2	2.30	0.58
57:BZ:28:GLN:O	57:BZ:60:ASN:HB3	2.03	0.58
57:BZ:9:ALA:HB1	57:BZ:73:VAL:HG23	0.61	0.58
23:AY:3:LYS:O	23:AY:6:GLU:HB2	2.04	0.58
1:AA:1181:C:H2'	1:AA:1182:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:120:U:C2'	1:AA:120:U:O2	2.51	0.58
1:AA:31:C:H5''	1:AA:1239:G:OP1	2.02	0.58
1:AA:1313:U:C5	1:AA:1313:U:OP2	2.57	0.58
1:AA:1343:G:N2	1:AA:1405:U:N1	2.51	0.58
1:AA:1388:G:H2'	1:AA:1389:G:C8	2.34	0.58
1:AA:1526:G:N2	1:AA:1545(A):A:H62	2.00	0.58
1:AA:1429:G:N2	1:AA:1565:C:O2	2.37	0.58
1:AA:1602:U:C2'	1:AA:1603:A:O5'	2.49	0.58
1:AA:1637:A:H2'	1:AA:1638:C:C6	2.38	0.58
1:AA:1703:G:C2	1:AA:1704:G:N9	2.71	0.58
1:AA:1684:C:C4	1:AA:1705:G:N2	2.71	0.58
1:AA:1804:C:OP1	4:AD:257:LEU:HD22	2.04	0.58
1:AA:1912:A:N6	1:AA:1919:A:C5	2.72	0.58
1:AA:1966:A:O2'	1:AA:1967:C:OP2	2.20	0.58
1:AA:1980:G:C4	1:AA:1982:C:C5	2.91	0.58
1:AA:1992:G:C6	1:AA:1997:G:C4	2.91	0.58
1:AA:2134:A:N1	1:AA:2135:A:N1	2.51	0.58
1:AA:249:C:H5'	1:AA:2394:C:O2'	2.04	0.58
1:AA:253:C:C2'	1:AA:254:G:H5'	2.34	0.58
1:AA:2707:G:O2'	1:AA:2708:G:H5'	2.04	0.58
1:AA:266:G:H5'	1:AA:271(A):C:H42	1.68	0.58
1:AA:2754:U:HO2'	1:AA:2756:U:P	2.27	0.58
1:AA:2821:A:OP1	5:AE:110:GLY:N	2.36	0.58
1:AA:470:A:C2'	1:AA:471:A:O5'	2.52	0.58
1:AA:616:A:N3	1:AA:616:A:H2'	2.17	0.58
1:AA:641:C:H5	1:AA:642:G:N3	2.02	0.58
1:AA:714:U:H6	1:AA:714:U:OP2	1.86	0.58
1:AA:740:U:O2'	1:AA:741:G:O5'	2.21	0.58
1:AA:816:C:C2'	1:AA:817:C:H5'	2.33	0.58
3:AC:161:ILE:HD13	3:AC:173:ALA:HB1	1.85	0.58
4:AD:132:PRO:HD3	4:AD:190:TYR:CZ	2.38	0.58
4:AD:174:ILE:HD12	4:AD:184:LYS:HE3	1.84	0.58
4:AD:199:ALA:HA	4:AD:202:LYS:HD3	1.85	0.58
4:AD:223:GLY:O	4:AD:225:ALA:N	2.36	0.58
4:AD:63:ARG:HB2	4:AD:63:ARG:HH11	1.67	0.58
4:AD:73:VAL:HG12	4:AD:120:GLY:CA	2.33	0.58
5:AE:111:ARG:HB2	5:AE:160:TYR:O	2.03	0.58
6:AF:116:ASP:HA	6:AF:119:ARG:CG	2.33	0.58
6:AF:11:VAL:HG22	6:AF:125:LEU:O	2.03	0.58
6:AF:7:TYR:H	6:AF:20:LEU:CD2	2.15	0.58
7:AG:8:LYS:HZ1	7:AG:103:LEU:HG	1.65	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:55:VAL:C	9:AK:57:ALA:H	2.07	0.58
10:AL:101:PRO:O	10:AL:102:VAL:HB	2.02	0.58
10:AL:10:VAL:HG22	10:AL:11:ALA:N	2.18	0.58
10:AL:116:SER:O	10:AL:119:PRO:HG3	2.03	0.58
14:AP:12:PHE:C	14:AP:14:VAL:N	2.53	0.58
14:AP:66:ALA:O	14:AP:68:GLN:N	2.36	0.58
14:AP:74:ALA:HB1	14:AP:108:GLY:HA2	1.80	0.58
18:AT:82:LEU:HD13	18:AT:83:LYS:N	2.17	0.58
19:AU:15:GLU:CB	19:AU:16:LYS:HE2	2.33	0.58
19:AU:3:THR:O	19:AU:4:ALA:CB	2.50	0.58
19:AU:90:GLU:O	19:AU:93:GLU:HG3	2.02	0.58
21:AW:169:GLU:O	21:AW:169:GLU:HG2	2.02	0.58
12:AN:85:LYS:HZ2	22:AX:10:THR:CG2	2.16	0.58
22:AX:25:ARG:HG2	22:AX:37:LEU:HA	1.84	0.58
22:AX:63:VAL:O	22:AX:81:VAL:HG11	2.04	0.58
23:AY:36:ILE:HG23	23:AY:41:GLN:HE22	1.67	0.58
34:BA:1085:U:O2	34:BA:1094:G:O6	2.21	0.58
34:BA:1116:C:C2	34:BA:1117:G:C8	2.92	0.58
34:BA:1126:U:H2'	34:BA:1127:G:C8	2.36	0.58
34:BA:1129:C:C5	34:BA:1139:G:N7	2.71	0.58
34:BA:1193:G:C6	34:BA:1194:U:C4	2.91	0.58
34:BA:321:A:H5''	34:BA:1436:U:O4'	2.02	0.58
34:BA:1405:G:C4'	34:BA:1519:A:H4'	2.33	0.58
34:BA:221:C:H2'	34:BA:222:U:C6	2.37	0.58
34:BA:341:C:O2'	34:BA:342:C:C5'	2.52	0.58
34:BA:445:G:O2'	34:BA:446:G:H5'	2.03	0.58
34:BA:474:G:OP1	49:BT:80:PHE:O	2.21	0.58
34:BA:439:A:H1'	34:BA:496:A:N1	2.18	0.58
34:BA:559:A:O2'	34:BA:560:U:P	2.61	0.58
34:BA:954:G:H2'	34:BA:955:U:O4'	2.04	0.58
35:BF:55:PHE:CE2	35:BF:218:ALA:HA	2.39	0.58
37:BH:170:VAL:HG12	37:BH:171:GLY:H	1.68	0.58
37:BH:60:GLU:OE2	37:BH:202:LEU:HD12	2.02	0.58
39:BJ:50:TYR:CZ	51:BV:77:GLY:HA2	2.39	0.58
41:BL:29:SER:CB	41:BL:32:LYS:NZ	2.65	0.58
42:BM:47:LEU:CD1	42:BM:51:ARG:HH22	2.05	0.58
34:BA:972:C:P	43:BN:57:LYS:HZ2	2.27	0.58
34:BA:539:A:OP1	45:BP:114:LYS:HE2	2.03	0.58
46:BQ:16:ASP:H	46:BQ:34:LEU:HD21	1.67	0.58
46:BQ:70:LEU:HD11	46:BQ:74:VAL:HG21	1.86	0.58
51:BV:39:VAL:O	51:BV:42:ARG:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:16:LEU:HD12	52:BW:19:VAL:HG11	1.84	0.58
53:BX:65:LYS:O	53:BX:68:LYS:CG	2.52	0.58
57:BZ:119:TYR:HD2	57:BZ:121:LEU:CG	2.15	0.58
57:BZ:160:PHE:H	57:BZ:161:ALA:HB3	1.69	0.58
57:BZ:21:LEU:CD1	57:BZ:98:VAL:CG2	2.78	0.58
57:BZ:26:LEU:H	57:BZ:26:LEU:HD22	1.69	0.58
57:BZ:372:ASN:O	57:BZ:376:GLU:HG3	2.04	0.58
57:BZ:377:GLY:C	57:BZ:582:PRO:CG	2.71	0.58
56:BE:25:C:O2'	56:BE:26:A:H5'	2.03	0.58
1:AA:1050:A:C4	1:AA:2751:G:H3'	2.39	0.58
1:AA:1051:G:C1'	1:AA:2752:C:O5'	2.51	0.58
1:AA:1101:U:H2'	1:AA:1102:C:C6	2.38	0.58
1:AA:1127:A:H3'	1:AA:1127:A:C8	2.39	0.58
1:AA:1494:A:C2	1:AA:1495:A:O4'	2.57	0.58
1:AA:1531:C:C2	1:AA:1532:C:H5	2.21	0.58
1:AA:1620:G:C5	1:AA:1621:U:C4	2.92	0.58
1:AA:1791:A:OP1	4:AD:213:ARG:HD3	2.04	0.58
1:AA:1975:G:C2'	1:AA:1976:U:O5'	2.52	0.58
1:AA:1977:A:N3	1:AA:1978:A:C8	2.72	0.58
1:AA:197:A:C2	1:AA:198:C:O4'	2.56	0.58
1:AA:2029:G:H1	1:AA:2033:A:P	2.25	0.58
1:AA:2046:G:H2'	1:AA:2047:U:C5	2.38	0.58
1:AA:2097:C:H2'	1:AA:2098:U:O4'	2.04	0.58
1:AA:2134:A:H2'	1:AA:2135:A:H5''	1.85	0.58
1:AA:2323:G:C2	1:AA:2324:C:N3	2.72	0.58
1:AA:2463:C:H2'	1:AA:2464:C:H5'	1.84	0.58
1:AA:2519:U:H1'	1:AA:2542:A:N1	2.18	0.58
1:AA:270(E):G:OP2	1:AA:270(E):G:H8	1.87	0.58
1:AA:2805:G:N7	1:AA:2807:G:H8	2.01	0.58
1:AA:292:C:C2'	1:AA:293:U:N3	2.66	0.58
1:AA:431:U:H2'	1:AA:432:A:H5'	1.86	0.58
1:AA:4:C:H2'	1:AA:5:A:C8	2.38	0.58
1:AA:546:C:C4	1:AA:547:A:N6	2.71	0.58
1:AA:558:G:P	9:AK:111:PRO:HG2	2.44	0.58
1:AA:611:C:O2	1:AA:616:A:H2	1.87	0.58
1:AA:781:A:O2'	1:AA:1788:C:O2	2.21	0.58
1:AA:784:A:H62	1:AA:792:G:N2	2.01	0.58
1:AA:879:G:C4	1:AA:898:C:O2	2.24	0.58
2:AB:4:C:N4	2:AB:5:C:C4	2.71	0.58
2:AB:82:G:H2'	2:AB:83:G:C8	2.32	0.58
2:AB:87:G:C2	2:AB:90:C:N3	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:122:ALA:HB1	3:AC:126:LYS:CD	2.27	0.58
3:AC:45:ALA:CA	3:AC:213:TYR:HE1	2.15	0.58
4:AD:12:SER:HB2	4:AD:14:ARG:HH21	1.68	0.58
1:AA:1820:U:H5	4:AD:159:ALA:C	2.06	0.58
4:AD:108:PRO:CA	4:AD:195:ALA:O	2.51	0.58
4:AD:244:ARG:O	4:AD:252:TRP:CD1	2.57	0.58
1:AA:1655:A:H4'	5:AE:113:PHE:C	2.24	0.58
5:AE:129:HIS:HD2	5:AE:129:HIS:H	1.50	0.58
5:AE:166:THR:OG1	5:AE:167:VAL:N	2.36	0.58
6:AF:34:TRP:O	6:AF:37:VAL:N	2.36	0.58
6:AF:84:VAL:O	6:AF:86:GLY:N	2.36	0.58
8:AH:95:ARG:HB2	8:AH:106:THR:HB	1.85	0.58
8:AH:6:ARG:HD3	8:AH:69:ARG:CD	2.33	0.58
8:AH:7:LEU:H	8:AH:8:PRO:HD3	1.64	0.58
10:AL:10:VAL:HG13	10:AL:17:ARG:HA	1.84	0.58
10:AL:68:GLU:OE1	10:AL:104:ARG:HD2	2.04	0.58
10:AL:7:TYR:HB3	10:AL:18:LYS:HE3	1.84	0.58
11:AM:47:ASP:HB3	11:AM:48:PRO:HD3	1.86	0.58
11:AM:49:ARG:CA	11:AM:52:GLU:HG2	2.33	0.58
11:AM:89:ALA:O	11:AM:125:VAL:HG22	2.02	0.58
12:AN:27:VAL:CG2	12:AN:28:ALA:H	1.94	0.58
16:AR:30:LYS:O	16:AR:32:PHE:CD1	2.56	0.58
16:AR:54:LYS:CA	16:AR:54:LYS:HE2	2.32	0.58
17:AS:14:VAL:CG1	17:AS:15:GLU:H	2.08	0.58
1:AA:565:C:OP2	17:AS:80:GLN:O	2.22	0.58
20:AV:74:PRO:HB2	20:AV:100:ALA:CB	2.34	0.58
20:AV:14:LEU:HD22	20:AV:20:TYR:H	1.68	0.58
20:AV:46:LYS:N	20:AV:57:GLN:HA	2.18	0.58
20:AV:12:THR:HA	20:AV:73:ARG:CZ	2.33	0.58
20:AV:74:PRO:HB2	20:AV:100:ALA:HB1	1.84	0.58
22:AX:37:LEU:CG	22:AX:59:LEU:O	2.48	0.58
22:AX:46:LYS:CG	22:AX:78:TYR:CE2	2.78	0.58
22:AX:76:GLY:N	22:AX:78:TYR:HE1	2.01	0.58
1:AA:72:U:C1'	23:AY:56:LEU:HD23	2.29	0.58
24:AZ:10:LYS:HG3	24:AZ:31:LEU:HD21	1.85	0.58
34:BA:101:A:C4	34:BA:102:G:N7	2.72	0.58
34:BA:1089:G:H2'	34:BA:1090:U:C5'	2.32	0.58
34:BA:1371:G:OP2	42:BM:11:LYS:NZ	2.34	0.58
34:BA:1390:U:C2	34:BA:1391:U:C4	2.92	0.58
34:BA:1454:G:N1	34:BA:1455:G:C6	2.71	0.58
34:BA:1466:C:C3'	34:BA:1467:G:C8	2.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:372:C:O2'	34:BA:373:A:OP2	2.14	0.58
34:BA:555:C:H5''	34:BA:556:C:OP2	2.02	0.58
34:BA:748:C:H6	34:BA:748:C:H3'	1.67	0.58
34:BA:778:G:C4	34:BA:779:C:C5	2.92	0.58
34:BA:873:A:O4'	34:BA:873:A:OP1	2.22	0.58
34:BA:968:A:C5'	34:BA:969:A:O5'	2.51	0.58
34:BA:965:A:H1'	34:BA:969:A:C8	2.39	0.58
35:BF:155:LEU:HB3	35:BF:159:PRO:HG3	1.79	0.58
35:BF:58:ILE:HG22	35:BF:221:LEU:HD12	1.85	0.58
36:BG:142:MET:HA	36:BG:146:ALA:CB	2.34	0.58
36:BG:157:ILE:O	36:BG:158:GLY:C	2.41	0.58
36:BG:55:VAL:HG22	36:BG:68:VAL:CG1	2.32	0.58
38:BI:28:PHE:HE1	38:BI:49:PRO:C	2.06	0.58
40:BK:133:GLY:O	40:BK:137:LYS:HG3	2.03	0.58
40:BK:71:PRO:HA	40:BK:138:LYS:HE3	1.83	0.58
41:BL:51:VAL:CG1	41:BL:52:ASP:N	2.66	0.58
46:BQ:33:ALA:O	46:BQ:37:THR:HG22	2.03	0.58
47:BR:23:ARG:HH11	47:BR:28:GLY:C	2.07	0.58
1:AA:716:A:C4	48:BS:44:LYS:HD3	2.38	0.58
50:BU:68:ARG:H	50:BU:70:ARG:CZ	2.16	0.58
51:BV:46:GLU:OE2	51:BV:46:GLU:N	2.37	0.58
51:BV:69:THR:O	51:BV:70:ILE:C	2.39	0.58
39:BJ:89:MET:HG2	51:BV:76:LEU:HD21	1.84	0.58
52:BW:3:ARG:O	52:BW:5:LEU:HD22	2.03	0.58
54:BY:14:TRP:HZ3	54:BY:15:ARG:NE	2.02	0.58
34:BA:1270:C:OP1	54:BY:24:ARG:NH2	2.37	0.58
57:BZ:169:ASN:HA	57:BZ:171:ILE:CD1	2.34	0.58
57:BZ:171:ILE:N	57:BZ:179:MET:CG	2.57	0.58
57:BZ:239:ILE:CD1	57:BZ:288:VAL:HG22	2.33	0.58
45:BP:106:ASP:CB	57:BZ:329:ARG:NE	2.66	0.58
57:BZ:390:ARG:CG	57:BZ:391:GLU:HA	2.33	0.58
57:BZ:483:ARG:CG	57:BZ:573:ASP:CB	2.80	0.58
57:BZ:62:ALA:HB3	57:BZ:63:ALA:O	2.03	0.58
57:BZ:16:HIS:O	60:BZ:701:GCP:H5'2	2.03	0.58
57:BZ:499:PHE:HB3	57:BZ:540:GLY:HA2	1.71	0.58
1:AA:1488:G:O6	1:AA:1489:U:C2	2.55	0.58
1:AA:1024:G:C4	1:AA:1025:G:C8	2.91	0.58
1:AA:1124:C:H3'	1:AA:1125:G:C8	2.39	0.58
1:AA:1199:U:OP2	1:AA:1199:U:H6	1.86	0.58
1:AA:1205:U:N3	1:AA:1207:C:N4	2.52	0.58
1:AA:1477:A:H3'	1:AA:1478:G:O4'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1530:G:H22	1:AA:1541:U:C2'	2.16	0.58
1:AA:1630(A):C:O2	1:AA:1633:G:O6	2.22	0.58
1:AA:1655:A:C2'	1:AA:1656:C:C6	2.86	0.58
1:AA:1681:G:H2'	1:AA:1682:G:OP1	2.03	0.58
1:AA:1759:A:P	1:AA:1759:A:H8	2.26	0.58
1:AA:1775:U:C6	4:AD:208:LYS:CD	2.85	0.58
1:AA:1912:A:N9	34:BA:1495:U:C2	2.69	0.58
1:AA:1924:C:C5	1:AA:1925:C:H5	2.22	0.58
1:AA:1999:C:C2'	1:AA:2000:G:O5'	2.51	0.58
1:AA:2051:A:H3'	1:AA:2578:G:H5''	1.86	0.58
1:AA:2134:A:C6	1:AA:2135:A:C2	2.92	0.58
1:AA:221:A:O2'	1:AA:222:A:P	2.62	0.58
1:AA:223:A:C5	1:AA:408:G:C1'	2.87	0.58
1:AA:2380:C:C4	1:AA:2381:C:C5	2.92	0.58
1:AA:2539:C:H2'	1:AA:2540:C:H6	1.67	0.58
1:AA:252:G:C2	1:AA:253:C:C6	2.92	0.58
1:AA:2543:G:C6	1:AA:2544:G:C6	2.91	0.58
1:AA:2520:C:H5	1:AA:2567:G:C4	2.20	0.58
1:AA:2631:G:C8	1:AA:2894:G:N7	2.71	0.58
1:AA:2645:G:C4'	1:AA:2732:G:O2'	2.40	0.58
1:AA:2747:G:N2	1:AA:2748:A:H62	2.01	0.58
1:AA:2749:A:H4'	8:AH:62:LYS:HB2	1.85	0.58
1:AA:457:A:C2	1:AA:470:A:H5'	2.39	0.58
1:AA:492:A:H8	1:AA:492:A:OP2	1.86	0.58
1:AA:513:A:O2'	1:AA:514:A:H5'	2.04	0.58
1:AA:515:A:C5'	16:AR:32:PHE:CZ	2.87	0.58
1:AA:612:G:C2'	1:AA:615:G:H2'	2.34	0.58
1:AA:650:C:H2'	1:AA:650:C:O2	2.03	0.58
1:AA:65:C:C2	1:AA:66:C:C5	2.92	0.58
1:AA:689:A:H2'	1:AA:690:G:C5'	2.34	0.58
1:AA:733:G:OP2	1:AA:761:A:N6	2.37	0.58
1:AA:969:U:C2	1:AA:970:C:C6	2.92	0.58
3:AC:33:ALA:HB1	3:AC:39:GLU:OE1	2.04	0.58
4:AD:41:GLY:C	4:AD:60:ARG:HH12	2.06	0.58
1:AA:2512:C:OP1	5:AE:120:TRP:CH2	2.56	0.58
5:AE:167:VAL:HG21	5:AE:187:ALA:HB3	1.85	0.58
5:AE:8:LYS:HD2	15:AQ:3:ARG:HA	1.85	0.58
6:AF:82:ILE:O	6:AF:83:PHE:HB3	2.04	0.58
7:AG:16:ARG:HG3	7:AG:16:ARG:NH2	2.08	0.58
32:AJ:62:ASP:HB3	32:AJ:63:ARG:O	2.03	0.58
10:AL:39:ILE:O	10:AL:58:VAL:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:811:U:C4	11:AM:23:PRO:CD	2.87	0.58
11:AM:96:THR:CG2	11:AM:99:LEU:HD12	2.33	0.58
12:AN:111:GLU:C	12:AN:113:GLN:N	2.55	0.58
13:AO:87:TYR:CE2	13:AO:118:GLU:OE1	2.57	0.58
14:AP:29:PHE:CE1	14:AP:34:HIS:NE2	2.71	0.58
14:AP:57:LYS:HZ3	14:AP:62:LYS:CG	2.15	0.58
15:AQ:95:ARG:HB3	15:AQ:96:ARG:HD2	1.84	0.58
1:AA:581:C:H5''	16:AR:32:PHE:CG	2.39	0.58
16:AR:89:GLU:O	16:AR:90:VAL:CG2	2.52	0.58
19:AU:18:TYR:OH	19:AU:96:ILE:HG12	2.03	0.58
20:AV:12:THR:HA	20:AV:73:ARG:NE	2.19	0.58
21:AW:11:GLU:HG3	21:AW:36:LYS:HZ2	1.68	0.58
21:AW:116:VAL:CG2	21:AW:144:LEU:O	2.52	0.58
24:AZ:40:THR:HB	24:AZ:43:ILE:HB	1.86	0.58
24:AZ:5:LYS:HE2	24:AZ:57:GLU:OE1	2.04	0.58
34:BA:1034:G:H2'	34:BA:1035:A:C8	2.38	0.58
34:BA:1026:G:O6	34:BA:1036:G:C2	2.57	0.58
34:BA:1057:G:C4'	36:BG:197:GLY:H	2.16	0.58
34:BA:1068:G:C6	34:BA:1108:G:N3	2.72	0.58
34:BA:1164:G:C6	34:BA:1173:G:C6	2.91	0.58
34:BA:1117:G:C2	34:BA:1184:G:C1'	2.80	0.58
34:BA:1049:U:C1'	34:BA:1201:A:O4'	2.52	0.58
34:BA:1349:A:OP1	42:BM:120:ARG:HB2	2.02	0.58
34:BA:1394:A:O2'	34:BA:1395:C:P	2.61	0.58
34:BA:1431:C:O2	34:BA:1432:G:O4'	2.22	0.58
34:BA:191:G:H1'	53:BX:105:SER:CA	2.27	0.58
34:BA:246:A:O2'	34:BA:247:G:P	2.61	0.58
34:BA:372:C:N3	34:BA:376:G:O6	2.37	0.58
34:BA:642:A:N3	41:BL:113:SER:OG	2.31	0.58
34:BA:64:G:H5'	34:BA:66:G:OP1	2.02	0.58
34:BA:684:A:H1'	44:BO:39:PRO:HD2	1.86	0.58
34:BA:731:G:O2'	34:BA:732:C:C5'	2.52	0.58
34:BA:894:G:H2'	34:BA:895:G:H8	1.68	0.58
34:BA:950:U:O2'	34:BA:951:G:H5'	2.03	0.58
34:BA:953:G:C6	34:BA:1229:A:C6	2.91	0.58
55:BC:56:C:C3'	55:BC:57:G:H5''	2.32	0.58
35:BF:178:ARG:NH2	35:BF:196:LEU:O	2.37	0.58
35:BF:200:ILE:HG22	35:BF:200:ILE:O	2.02	0.58
35:BF:25:ASN:OD1	35:BF:192:SER:O	2.22	0.58
35:BF:75:LYS:O	35:BF:77:ALA:N	2.34	0.58
35:BF:69:LEU:HD23	35:BF:91:PRO:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:78:GLN:O	35:BF:94:ASN:ND2	2.37	0.58
36:BG:29:TYR:CD2	36:BG:29:TYR:C	2.76	0.58
36:BG:91:LEU:CD1	36:BG:99:VAL:H	2.14	0.58
37:BH:57:ARG:HH22	38:BI:107:ARG:NE	2.01	0.58
38:BI:12:LEU:O	38:BI:12:LEU:HD13	2.03	0.58
38:BI:76:ILE:HG21	38:BI:142:LEU:CD1	2.33	0.58
40:BK:143:ARG:HH11	40:BK:144:MET:CB	2.06	0.58
34:BA:591:U:OP1	41:BL:30:ARG:NH2	2.37	0.58
41:BL:45:ILE:HG13	41:BL:61:VAL:HG13	1.85	0.58
44:BO:28:THR:CG2	44:BO:29:ILE:N	2.67	0.58
34:BA:1047:G:C5'	47:BR:4:LYS:HD3	2.32	0.58
52:BW:9:VAL:HG12	52:BW:44:MET:SD	2.43	0.58
57:BZ:81:PHE:O	57:BZ:344:ALA:CB	2.51	0.58
57:BZ:383:SER:HB3	57:BZ:384:ARG:NE	2.18	0.58
1:AA:2556:C:H4'	57:BZ:550:GLY:HA2	1.86	0.58
57:BZ:322:GLU:CD	57:BZ:581:THR:CB	2.56	0.58
1:AA:1914:C:C4	1:AA:1915:U:H5	2.17	0.58
57:BZ:31:THR:HB	57:BZ:32:PHE:HD1	1.68	0.58
55:BC:26:A:H2'	55:BC:27:G:H5'	1.84	0.58
1:AA:105:C:C2	1:AA:106:C:C5	2.92	0.58
1:AA:1062:G:N3	1:AA:1063:G:H5'	2.19	0.58
1:AA:1104:C:O2'	1:AA:1106:G:P	2.61	0.58
1:AA:1453:A:O4'	1:AA:1453:A:OP2	2.21	0.58
1:AA:1698:A:O2'	1:AA:1699:G:C3'	2.52	0.58
1:AA:182:A:H8	1:AA:182:A:OP2	1.87	0.58
1:AA:1944:U:C2'	1:AA:1945:G:OP1	2.52	0.58
1:AA:1980:G:O2'	1:AA:1981:A:H5''	2.04	0.58
1:AA:1996:C:H2'	1:AA:1997:G:H5'	1.84	0.58
1:AA:2169:A:N3	55:BC:56:C:C5	2.67	0.58
1:AA:2283:C:H2'	1:AA:2284:C:H4'	1.85	0.58
1:AA:2463:C:O2'	1:AA:2464:C:H5'	2.04	0.58
1:AA:2484:G:N3	12:AN:124:LYS:NZ	2.52	0.58
1:AA:2547:U:H2'	1:AA:2548:G:C5'	2.34	0.58
1:AA:270(B):A:O2'	1:AA:270(C):C:H6	1.86	0.58
1:AA:270(R):G:N2	1:AA:270(S):G:N3	2.52	0.58
1:AA:270(V):G:H2'	1:AA:270(W):G:C8	2.38	0.58
1:AA:2733:A:N7	1:AA:2734:A:C8	2.72	0.58
1:AA:2782:G:OP2	1:AA:2782:G:O4'	2.22	0.58
1:AA:2831:G:H1'	1:AA:2883:A:H2'	1.86	0.58
1:AA:374:A:N6	1:AA:401:A:C1'	2.67	0.58
1:AA:50:U:H6	1:AA:50:U:H3'	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:568:U:H2'	1:AA:570:G:N7	2.18	0.58
1:AA:712:G:C4	1:AA:713:G:N7	2.72	0.58
1:AA:71:A:N6	1:AA:114:U:H1'	2.19	0.58
1:AA:77:C:H2'	1:AA:78:A:H8	1.68	0.58
1:AA:783:A:N6	1:AA:785:G:C8	2.72	0.58
1:AA:881:G:H5'	1:AA:882:G:OP2	2.04	0.58
1:AA:892:G:N3	1:AA:893:C:C4	2.72	0.58
1:AA:94:G:N2	1:AA:95:G:N3	2.51	0.58
2:AB:52:A:C2'	2:AB:53:A:H5'	2.33	0.58
2:AB:61:G:H2'	2:AB:62:C:C6	2.38	0.58
3:AC:56:GLN:HA	3:AC:201:PRO:HG3	1.84	0.58
4:AD:16:MET:O	4:AD:19:ALA:HB3	2.03	0.58
6:AF:125:LEU:O	6:AF:127:GLU:N	2.32	0.58
6:AF:46:ARG:NE	6:AF:46:ARG:CA	2.66	0.58
7:AG:132:ASN:O	7:AG:133:LEU:HB2	2.03	0.58
9:AK:3:THR:O	9:AK:4:TYR:CB	2.49	0.58
9:AK:66:LYS:CA	9:AK:69:GLN:OE1	2.52	0.58
12:AN:64:ILE:O	12:AN:65:PHE:HD2	1.87	0.58
13:AO:65:LEU:O	13:AO:68:ARG:CB	2.52	0.58
14:AP:17:ARG:O	14:AP:20:ARG:HB2	2.04	0.58
14:AP:26:LEU:HD13	14:AP:26:LEU:C	2.24	0.58
15:AQ:22:PHE:O	15:AQ:24:PRO:HD3	2.04	0.58
15:AQ:68:TYR:CE1	15:AQ:69:GLY:O	2.57	0.58
10:AL:77:ILE:HG12	15:AQ:75:ILE:CD1	2.34	0.58
16:AR:3:ARG:O	16:AR:4:ALA:HB2	2.02	0.58
17:AS:1:MET:O	17:AS:2:PHE:C	2.42	0.58
17:AS:69:LYS:CG	17:AS:70:ILE:HG13	2.31	0.58
19:AU:50:LYS:HZ3	19:AU:85:PRO:HG2	1.67	0.58
20:AV:45:VAL:HA	20:AV:57:GLN:HG2	1.86	0.58
21:AW:116:VAL:HG21	21:AW:145:GLU:HA	1.86	0.58
21:AW:144:LEU:CA	21:AW:174:VAL:HG11	2.33	0.58
21:AW:159:PRO:O	21:AW:161:VAL:N	2.34	0.58
21:AW:24:LEU:CD2	21:AW:25:PRO:HD2	2.34	0.58
1:AA:2278:A:N6	22:AX:14:ARG:HB3	2.18	0.58
22:AX:44:ARG:CG	22:AX:77:ARG:HG3	2.33	0.58
24:AZ:52:HIS:C	24:AZ:54:VAL:H	2.07	0.58
34:BA:1005:A:H2'	34:BA:1006:C:C5'	2.34	0.58
34:BA:1038:C:H2'	34:BA:1039:C:C5	2.39	0.58
34:BA:1129:C:C4	34:BA:1139:G:O6	2.56	0.58
34:BA:1443:G:H5'	34:BA:1446:A:OP1	2.04	0.58
34:BA:1454:G:O3'	53:BX:32:ALA:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1516:G:H22	34:BA:1518:A:C3'	2.15	0.58
58:BA:1601:NMY:C13	58:BA:1601:NMY:HN21	2.15	0.58
34:BA:199:G:O2'	34:BA:200:G:H5'	2.04	0.58
34:BA:22:G:C2'	34:BA:23:C:O4'	2.52	0.58
34:BA:241:C:O2'	34:BA:242:C:H5'	2.04	0.58
34:BA:523:A:C8	34:BA:523:A:O5'	2.57	0.58
34:BA:505:G:C6	34:BA:535:A:C2	2.92	0.58
34:BA:568:G:N2	34:BA:574:A:C2	2.62	0.58
34:BA:673:G:N2	34:BA:674:G:C2	2.72	0.58
34:BA:719:C:H3'	34:BA:720:C:C5	2.39	0.58
34:BA:924:C:C2	34:BA:925:G:N7	2.72	0.58
34:BA:969:A:O2'	43:BN:55:LYS:NZ	2.25	0.58
35:BF:118:LEU:HD11	35:BF:141:GLU:OE1	2.04	0.58
35:BF:150:SER:HA	35:BF:153:ARG:CG	2.33	0.58
35:BF:19:HIS:ND1	35:BF:204:ASN:ND2	2.52	0.58
35:BF:60:ASP:C	35:BF:64:ARG:NH1	2.57	0.58
36:BG:187:ALA:N	36:BG:198:VAL:HG22	2.19	0.58
36:BG:38:ARG:HG3	36:BG:94:LEU:HD21	1.86	0.58
37:BH:98:GLU:OE2	37:BH:103:ASN:OD1	2.22	0.58
37:BH:52:SER:C	37:BH:54:TYR:H	2.06	0.58
37:BH:82:ALA:HB1	37:BH:89:THR:HA	1.84	0.58
38:BI:136:MET:HA	38:BI:139:LEU:HD12	1.84	0.58
38:BI:78:HIS:CG	41:BL:107:LEU:HD21	2.39	0.58
40:BK:34:GLY:O	40:BK:36:LYS:N	2.37	0.58
41:BL:37:ARG:CD	41:BL:41:ARG:HG3	2.18	0.58
34:BA:598:U:C4'	41:BL:94:TYR:CD2	2.86	0.58
44:BO:84:VAL:CG2	44:BO:111:ASP:H	2.17	0.58
44:BO:54:ARG:C	44:BO:56:GLY:H	2.06	0.58
44:BO:20:TYR:CZ	44:BO:83:ILE:HG12	2.39	0.58
45:BP:41:ARG:HH12	45:BP:55:VAL:HG11	1.67	0.58
45:BP:5:PRO:O	45:BP:6:THR:CG2	2.52	0.58
46:BQ:84:ILE:CG1	46:BQ:86:CYS:HB3	2.34	0.58
51:BV:26:LEU:HD22	51:BV:39:VAL:HG22	1.86	0.58
52:BW:74:PHE:N	52:BW:74:PHE:HD1	2.00	0.58
53:BX:49:ALA:O	53:BX:52:ALA:HB3	2.04	0.58
57:BZ:181:GLU:CG	57:BZ:183:MET:HE3	2.33	0.58
57:BZ:485:ASN:CA	57:BZ:529:ARG:O	2.43	0.58
57:BZ:495:LYS:H	57:BZ:538:LEU:CD1	2.17	0.58
1:AA:1042:G:C2	1:AA:1114:G:O6	2.57	0.58
1:AA:1323:U:O2'	1:AA:1324:G:OP1	2.15	0.58
1:AA:1366:A:C2	1:AA:1367:A:C4	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1467:C:N4	1:AA:1468:C:N4	2.52	0.58
1:AA:1603:A:H3'	1:AA:1603:A:P	2.44	0.58
1:AA:1394:U:H5''	1:AA:1604:C:OP1	2.04	0.58
1:AA:742:G:H5'	1:AA:1675:C:O2'	2.04	0.58
1:AA:1695:G:N2	1:AA:1696:G:C8	2.72	0.58
1:AA:175:G:O2'	1:AA:176:G:C5'	2.47	0.58
1:AA:2018:G:H1'	16:AR:34:LYS:HZ1	1.69	0.58
1:AA:2020:A:N6	1:AA:2034:U:O4	2.34	0.58
1:AA:2627:G:C6	1:AA:2777:G:O6	2.57	0.58
1:AA:2694:G:C6	1:AA:2695:C:C4	2.92	0.58
1:AA:2736:G:N2	1:AA:2769:C:H1'	2.18	0.58
1:AA:2828:C:N4	1:AA:2829:C:H41	2.01	0.58
1:AA:285:C:H2'	1:AA:286:C:C6	2.39	0.58
1:AA:449:A:H4'	6:AF:52:LYS:NZ	2.19	0.58
1:AA:481:G:H22	1:AA:509:C:N4	2.01	0.58
1:AA:723:G:H2'	1:AA:724:U:H6	1.69	0.58
1:AA:751:A:H4'	18:AT:90:ARG:CZ	2.34	0.58
1:AA:763:G:N3	1:AA:765:G:H1'	2.19	0.58
1:AA:771:G:H2'	1:AA:772:C:C6	2.38	0.58
1:AA:955:C:H5''	12:AN:87:LYS:HE2	1.86	0.58
2:AB:32:C:H3'	2:AB:33:G:H8	1.68	0.58
2:AB:62:C:H2'	2:AB:63:G:C8	2.26	0.58
2:AB:64:C:O2'	2:AB:65:C:H5'	2.04	0.58
2:AB:65:C:H2'	2:AB:66:A:H5'	1.84	0.58
3:AC:93:TYR:CE2	3:AC:109:ASP:O	2.57	0.58
4:AD:117:VAL:O	4:AD:118:VAL:HG22	2.03	0.58
4:AD:56:GLY:N	4:AD:217:ARG:HD2	2.08	0.58
4:AD:23:GLU:CD	4:AD:23:GLU:C	2.62	0.58
4:AD:46:GLN:NE2	4:AD:51:VAL:HG23	2.19	0.58
4:AD:59:LYS:C	4:AD:59:LYS:CD	2.72	0.58
4:AD:80:ALA:CB	4:AD:94:LEU:O	2.47	0.58
4:AD:8:PRO:HD2	4:AD:26:LYS:N	2.19	0.58
1:AA:2575:C:OP1	5:AE:144:ARG:NH2	2.37	0.58
5:AE:105:THR:CG2	5:AE:197:ILE:HD13	2.33	0.58
6:AF:155:LEU:HD22	6:AF:157:VAL:HG12	1.84	0.58
6:AF:154:VAL:HB	6:AF:193:VAL:CG2	2.31	0.58
7:AG:138:GLN:C	7:AG:140:ILE:H	2.05	0.58
7:AG:39:ILE:HA	7:AG:157:ILE:HG13	1.85	0.58
8:AH:125:VAL:O	8:AH:127:GLU:N	2.34	0.58
8:AH:124:GLU:HB2	8:AH:132:ARG:NE	2.19	0.58
8:AH:170:ARG:O	8:AH:171:LEU:HD23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:66:GLY:C	8:AH:69:ARG:HG2	2.24	0.58
32:AJ:112:MET:SD	32:AJ:126:MET:SD	3.02	0.58
9:AK:7:LYS:HZ2	9:AK:10:GLU:H	1.49	0.58
9:AK:33:LEU:C	9:AK:35:ARG:N	2.57	0.58
9:AK:38:HIS:C	9:AK:42:TRP:CE3	2.76	0.58
1:AA:1139:G:O5'	9:AK:63:THR:HG21	2.04	0.58
10:AL:42:SER:HA	10:AL:55:GLY:O	2.04	0.58
10:AL:62:VAL:HG23	10:AL:83:ALA:CA	2.17	0.58
10:AL:63:VAL:O	10:AL:64:ARG:CB	2.51	0.58
10:AL:86:ILE:HD13	10:AL:90:GLN:HG3	1.86	0.58
11:AM:124:LYS:CA	11:AM:143:GLY:HA3	2.34	0.58
11:AM:46:LYS:NZ	11:AM:50:ARG:NH1	2.52	0.58
11:AM:81:GLN:HA	11:AM:86:LYS:CE	2.30	0.58
12:AN:116:GLU:HA	12:AN:119:ARG:CG	2.33	0.58
14:AP:24:LEU:HD11	14:AP:41:ASP:HB3	1.86	0.58
16:AR:85:LYS:NZ	16:AR:117:GLN:O	2.22	0.58
19:AU:12:VAL:C	19:AU:14:SER:H	2.07	0.58
20:AV:37:VAL:HG13	20:AV:39:VAL:CB	2.33	0.58
20:AV:7:VAL:O	20:AV:8:LYS:HD2	2.03	0.58
21:AW:41:LEU:O	21:AW:42:VAL:C	2.42	0.58
22:AX:56:ASP:C	22:AX:57:PHE:HD1	2.06	0.58
24:AZ:23:LEU:HA	24:AZ:28:LEU:HD12	1.83	0.58
34:BA:1074:G:H2'	34:BA:1075:C:O4'	2.03	0.58
34:BA:1104:G:H2'	34:BA:1105:A:C8	2.39	0.58
34:BA:1268:A:H4'	54:BY:20:LYS:HB2	1.85	0.58
34:BA:1275:A:C2'	34:BA:1276:G:H5'	2.34	0.58
34:BA:148:G:H2'	34:BA:149:A:H8	1.68	0.58
34:BA:175:C:O2'	34:BA:176:C:H5'	2.04	0.58
34:BA:230:G:N2	34:BA:231:G:N3	2.51	0.58
34:BA:391:G:C6	34:BA:392:G:C5	2.92	0.58
34:BA:46:G:H22	34:BA:366:C:H1'	1.68	0.58
34:BA:565:U:H2'	34:BA:566:G:N7	2.19	0.58
34:BA:594:G:N2	34:BA:596:C:N4	2.52	0.58
34:BA:61:G:C6	34:BA:107:G:C6	2.92	0.58
34:BA:656:C:O2'	34:BA:657:G:H5'	2.03	0.58
34:BA:668:G:O2'	34:BA:669:U:H5'	2.03	0.58
34:BA:689:C:C4	34:BA:690:G:N7	2.72	0.58
35:BF:179:LYS:O	35:BF:181:PHE:N	2.37	0.58
36:BG:64:VAL:O	36:BG:66:VAL:HG23	2.02	0.58
37:BH:121:VAL:HB	37:BH:136:PRO:CG	2.18	0.58
37:BH:170:VAL:HG11	37:BH:174:LEU:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:79:PHE:CE1	37:BH:204:ILE:HG23	2.38	0.58
38:BI:12:LEU:HG	38:BI:129:ILE:HD11	1.83	0.58
38:BI:9:LYS:CB	38:BI:33:VAL:HB	2.30	0.58
38:BI:80:ILE:HG21	38:BI:142:LEU:HD21	1.86	0.58
39:BJ:67:MET:O	39:BJ:67:MET:SD	2.62	0.58
41:BL:79:VAL:O	41:BL:81:HIS:N	2.36	0.58
43:BN:54:PHE:H	47:BR:41:ARG:NH2	2.01	0.58
44:BO:63:LEU:O	44:BO:63:LEU:HD23	2.02	0.58
45:BP:60:LEU:HD11	45:BP:64:TYR:HB3	1.85	0.58
49:BT:20:VAL:HA	49:BT:36:ILE:HG13	1.85	0.58
49:BT:49:LEU:HD12	49:BT:50:LYS:N	2.19	0.58
52:BW:30:LEU:CG	52:BW:50:ALA:HB2	2.34	0.58
53:BX:54:LYS:H	53:BX:100:ILE:HD11	1.69	0.58
34:BA:186(A):C:O2'	53:BX:89:ARG:NH2	2.36	0.58
57:BZ:119:TYR:HD2	57:BZ:121:LEU:CD1	2.16	0.58
57:BZ:227:LYS:CA	57:BZ:267:LEU:CD1	2.81	0.58
57:BZ:27:GLN:CG	57:BZ:28:GLN:HB2	2.29	0.58
57:BZ:17:GLY:CA	60:BZ:701:GCP:O1A	2.49	0.58
57:BZ:495:LYS:HB3	57:BZ:515:GLY:O	2.03	0.58
1:AA:1029:A:O2'	1:AA:1030:G:H5'	2.04	0.58
1:AA:1137:G:N7	1:AA:1138:G:C8	2.72	0.58
1:AA:13:A:O2'	1:AA:14:A:O5'	2.20	0.58
1:AA:1472:A:N6	1:AA:1518:C:N4	2.51	0.58
1:AA:1464:C:C5'	1:AA:1528:A:O2'	2.50	0.58
1:AA:1697:G:C8	1:AA:1698:A:C5'	2.86	0.58
1:AA:1717:G:H21	1:AA:1718:G:H1'	1.69	0.58
1:AA:1785:A:P	1:AA:1982:C:H4'	2.44	0.58
1:AA:1792:G:P	4:AD:206:LEU:HD21	2.44	0.58
1:AA:1853:A:C4	1:AA:1854:A:C8	2.91	0.58
1:AA:1955:U:OP2	1:AA:1956:U:O4	2.22	0.58
1:AA:2008:C:O2'	1:AA:2009:G:H5'	2.04	0.58
1:AA:2075:U:O2	1:AA:2076:U:H5'	2.04	0.58
1:AA:2177:C:H5'	3:AC:223:ARG:CB	2.29	0.58
1:AA:221:A:N7	1:AA:266:G:N7	2.52	0.58
1:AA:2224:G:O2'	1:AA:2226:C:C5	2.57	0.58
1:AA:957:A:N1	1:AA:2459:A:H5'	2.19	0.58
1:AA:2508:G:C2'	1:AA:2509:G:H5'	2.33	0.58
1:AA:2755:C:O5'	1:AA:2755:C:H6	1.87	0.58
1:AA:2844:G:H3'	1:AA:2845:G:C8	2.38	0.58
1:AA:2875:C:O3'	15:AQ:2:ASN:HB3	2.03	0.58
1:AA:323:G:H4'	1:AA:324:A:O5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:510:C:OP1	1:AA:512:G:N2	2.36	0.58
1:AA:684:G:N2	1:AA:794:G:C2	2.72	0.58
1:AA:695:G:O2'	1:AA:696:G:H5'	2.03	0.58
1:AA:718:A:H5''	1:AA:719:C:H5	1.67	0.58
1:AA:76:C:H2'	1:AA:76:C:O2	2.04	0.58
1:AA:674:G:C2	1:AA:807:U:O4	2.57	0.58
1:AA:921:G:H4'	1:AA:2269:A:C8	2.38	0.58
2:AB:52:A:H2'	2:AB:53:A:H5'	1.85	0.58
3:AC:58:VAL:HG11	3:AC:199:HIS:HB3	1.85	0.58
3:AC:44:HIS:ND1	3:AC:215:THR:N	2.50	0.58
3:AC:60:GLY:O	3:AC:61:THR:CB	2.52	0.58
4:AD:146:GLU:CA	4:AD:154:LYS:HG2	2.34	0.58
4:AD:55:GLY:CA	4:AD:217:ARG:CZ	2.81	0.58
4:AD:7:LYS:HD3	4:AD:9:TYR:CZ	2.38	0.58
4:AD:85:ASP:O	4:AD:87:ASN:N	2.31	0.58
5:AE:131:ALA:CB	5:AE:134:ILE:HG13	2.32	0.58
5:AE:154:LYS:NZ	5:AE:156:MET:CE	2.66	0.58
5:AE:23:VAL:O	5:AE:183:LEU:HA	2.03	0.58
5:AE:98:PRO:HB3	5:AE:175:VAL:HG13	1.84	0.58
6:AF:74:ARG:CZ	6:AF:75:HIS:CA	2.81	0.58
7:AG:30:GLU:OE2	7:AG:33:ARG:NE	2.36	0.58
7:AG:30:GLU:HG2	7:AG:33:ARG:CD	2.34	0.58
7:AG:39:ILE:HG13	7:AG:157:ILE:CG1	2.34	0.58
7:AG:56:ALA:CB	7:AG:68:PRO:HG2	2.33	0.58
8:AH:137:ASP:HB3	8:AH:140:LYS:HE2	1.86	0.58
8:AH:163:TYR:O	8:AH:164:TYR:O	2.21	0.58
9:AK:23:LEU:HD23	9:AK:60:ILE:HG22	1.85	0.58
10:AL:21:CYS:SG	10:AL:40:VAL:O	2.62	0.58
10:AL:24:VAL:HA	10:AL:39:ILE:HG21	1.81	0.58
10:AL:77:ILE:O	15:AQ:75:ILE:CG1	2.51	0.58
12:AN:11:LYS:HZ3	12:AN:73:PRO:HG3	1.67	0.58
1:AA:2496:C:OP1	12:AN:83:MET:CE	2.52	0.58
13:AO:31:HIS:CD2	13:AO:34:ILE:HD11	2.39	0.58
17:AS:79:VAL:HB	17:AS:81:TYR:HD1	1.68	0.58
17:AS:83:ARG:HD3	17:AS:83:ARG:C	2.23	0.58
19:AU:21:PHE:HD2	19:AU:26:TYR:HA	1.69	0.58
20:AV:72:VAL:O	20:AV:73:ARG:HG3	2.03	0.58
21:AW:167:PRO:O	21:AW:168:GLU:HB3	2.03	0.58
22:AX:40:GLN:HG2	22:AX:45:PHE:HD1	1.69	0.58
34:BA:1133:G:N1	34:BA:1142:G:C6	2.72	0.58
34:BA:1147:C:N3	34:BA:1148:U:C5	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:964:A:OP1	34:BA:1199:U:OP1	2.21	0.58
34:BA:1350:A:N6	34:BA:1373:G:C2	2.71	0.58
34:BA:1367:C:OP1	42:BM:115:GLY:CA	2.51	0.58
34:BA:1376:U:H6	34:BA:1376:U:O5'	1.85	0.58
34:BA:922:G:O2'	34:BA:1398:A:N1	2.27	0.58
34:BA:1400:C:C4'	34:BA:1401:G:OP2	2.49	0.58
34:BA:225:C:C2'	34:BA:226:G:C5'	2.79	0.58
34:BA:278:G:C4	50:BU:95:TYR:HE2	2.21	0.58
34:BA:346:G:N2	34:BA:347:G:C5	2.72	0.58
34:BA:547:A:H5'	34:BA:548:G:OP1	2.04	0.58
34:BA:689:C:H2'	34:BA:690:G:C1'	2.34	0.58
34:BA:696:A:H2'	34:BA:697:U:H5'	1.86	0.58
34:BA:5:U:O2'	34:BA:6:G:OP2	2.22	0.58
34:BA:730:G:C5	34:BA:731:G:H1'	2.39	0.58
34:BA:757:U:H1'	34:BA:879:C:O2'	2.03	0.58
34:BA:91:C:C2	34:BA:92:G:N7	2.72	0.58
37:BH:139:ARG:HG2	37:BH:140:VAL:H	1.66	0.58
37:BH:67:ILE:HD12	37:BH:68:TYR:N	2.19	0.58
38:BI:105:VAL:O	38:BI:109:ILE:HG22	2.04	0.58
38:BI:132:ALA:O	38:BI:135:THR:HB	2.04	0.58
38:BI:70:PRO:CB	38:BI:143:ARG:HA	2.31	0.58
38:BI:7:GLU:O	38:BI:34:VAL:HA	2.03	0.58
39:BJ:60:PHE:HD1	39:BJ:60:PHE:N	2.01	0.58
39:BJ:95:GLU:H	39:BJ:96:PRO:HD3	1.67	0.58
40:BK:50:ILE:CD1	40:BK:58:PRO:HB3	2.34	0.58
40:BK:71:PRO:CG	40:BK:96:GLN:HA	2.34	0.58
41:BL:94:TYR:CE1	41:BL:132:GLU:OE1	2.57	0.58
41:BL:18:ARG:NH1	41:BL:18:ARG:N	2.52	0.58
34:BA:1342:C:C1'	42:BM:124:GLN:OE1	2.49	0.58
51:BV:58:LEU:HB2	51:BV:63:GLN:OE1	2.04	0.58
52:BW:40:ILE:CG1	52:BW:71:LEU:HD23	2.34	0.58
57:BZ:169:ASN:OD1	57:BZ:171:ILE:HD11	2.03	0.58
57:BZ:228:ARG:HA	57:BZ:267:LEU:CD1	2.34	0.58
57:BZ:383:SER:H	57:BZ:384:ARG:CG	2.14	0.58
57:BZ:6:ARG:HH12	57:BZ:196:ALA:CB	2.15	0.58
57:BZ:82:GLY:CA	57:BZ:361:ARG:CB	2.77	0.58
57:BZ:8:ILE:CA	57:BZ:72:ILE:CG2	2.65	0.58
1:AA:1064:C:H2'	1:AA:1065:U:C5'	2.34	0.57
1:AA:1064:C:H3'	1:AA:1065:U:C6	2.39	0.57
1:AA:1085:A:H1'	1:AA:1086:A:P	2.44	0.57
1:AA:1324:G:O2'	1:AA:1325:G:OP1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1447:G:H21	1:AA:1545:A:H2	1.51	0.57
1:AA:14:A:N7	1:AA:15:G:C8	2.72	0.57
1:AA:1534:G:N2	1:AA:1537:C:C5	2.61	0.57
1:AA:1538:G:C2	1:AA:1539:G:N3	2.72	0.57
1:AA:1435:G:C2	1:AA:1558:A:N6	2.72	0.57
1:AA:1576:U:H2'	1:AA:1577:C:C6	2.39	0.57
1:AA:1629:U:H1'	1:AA:2699:C:OP1	2.04	0.57
1:AA:1770:G:O2'	1:AA:1771:C:C5'	2.52	0.57
1:AA:1784:A:HO2'	1:AA:1785:A:H8	1.52	0.57
1:AA:1784:A:H4'	1:AA:1785:A:O4'	2.04	0.57
1:AA:1999:C:H2'	1:AA:2000:G:C5'	2.34	0.57
1:AA:2135:A:N7	1:AA:2160:G:C1'	2.66	0.57
1:AA:228:A:H2'	1:AA:230:U:OP1	2.04	0.57
1:AA:2310:A:C2	7:AG:83:ARG:NH2	2.72	0.57
1:AA:239:U:C1'	1:AA:259:G:H22	2.17	0.57
1:AA:2470:G:N2	1:AA:2471:C:C2	2.72	0.57
1:AA:2521:C:C2'	1:AA:2522:U:O5'	2.51	0.57
1:AA:246:C:N4	1:AA:252:G:H1	2.01	0.57
1:AA:270(J):G:H3'	1:AA:270(K):C:H6	1.68	0.57
1:AA:2815:C:O2	1:AA:2816:C:C6	2.57	0.57
1:AA:2866:U:H4'	1:AA:2867:G:O5'	2.03	0.57
1:AA:344:G:H2'	1:AA:345:A:O4'	2.04	0.57
1:AA:468:G:N7	1:AA:469:G:C4	2.72	0.57
1:AA:484:C:OP1	20:AV:48:ALA:HB1	2.04	0.57
1:AA:569:U:O4	1:AA:570:G:C6	2.57	0.57
1:AA:602:G:H2'	1:AA:655:A:N1	2.18	0.57
1:AA:623:G:H8	11:AM:105:LEU:CB	2.15	0.57
1:AA:649:G:N3	1:AA:649:G:H2'	2.18	0.57
1:AA:673:C:O2'	1:AA:674:G:H5'	2.03	0.57
1:AA:464:U:O2	1:AA:788:A:N7	2.37	0.57
1:AA:807:U:O2	1:AA:808:G:C8	2.57	0.57
3:AC:48:GLY:CA	3:AC:210:ARG:HD3	2.34	0.57
3:AC:223:ARG:NH1	3:AC:223:ARG:HB2	2.19	0.57
4:AD:206:LEU:CD1	4:AD:206:LEU:N	2.59	0.57
1:AA:1903:G:OP1	4:AD:242:ARG:HB3	2.04	0.57
5:AE:16:ARG:HB3	5:AE:17:ASP:OD2	2.04	0.57
6:AF:109:GLY:O	6:AF:111:ALA:N	2.36	0.57
1:AA:673:C:C5'	6:AF:82:ILE:HD12	2.34	0.57
8:AH:11:VAL:HG21	8:AH:17:VAL:HG21	1.86	0.57
1:AA:1061:U:O2	32:AJ:11:GLN:OE1	2.21	0.57
32:AJ:104:VAL:CG1	32:AJ:127:ILE:HG21	2.09	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:52:ILE:CG1	32:AJ:76:TYR:HD1	2.16	0.57
9:AK:97:ARG:O	9:AK:100:GLU:CB	2.51	0.57
9:AK:34:LEU:CD2	9:AK:120:LEU:HB2	2.33	0.57
9:AK:74:ARG:HD2	9:AK:82:LEU:HD13	1.86	0.57
10:AL:23:ARG:HD3	10:AL:23:ARG:N	2.18	0.57
12:AN:29:PHE:O	12:AN:29:PHE:CD1	2.56	0.57
12:AN:42:ILE:CD1	12:AN:42:ILE:C	2.72	0.57
12:AN:54:MET:HB2	12:AN:64:ILE:HD13	1.86	0.57
13:AO:38:VAL:HG23	13:AO:110:PRO:O	2.03	0.57
15:AQ:72:VAL:N	15:AQ:74:ARG:NH1	2.52	0.57
16:AR:40:PHE:CD2	17:AS:78:LYS:HE2	2.39	0.57
18:AT:33:ARG:NE	18:AT:33:ARG:HA	2.14	0.57
19:AU:15:GLU:HG3	19:AU:16:LYS:N	2.19	0.57
19:AU:26:TYR:HB3	19:AU:28:PHE:CZ	2.39	0.57
19:AU:36:LYS:HE3	19:AU:56:THR:HG23	1.84	0.57
20:AV:75:ILE:N	20:AV:100:ALA:HB1	2.18	0.57
20:AV:8:LYS:HA	20:AV:28:LYS:CD	2.31	0.57
20:AV:96:ILE:HD12	20:AV:96:ILE:H	1.69	0.57
23:AY:26:GLU:O	23:AY:29:GLU:HB2	2.03	0.57
23:AY:32:PHE:N	23:AY:32:PHE:HD1	2.01	0.57
24:AZ:3:ARG:CB	24:AZ:3:ARG:HH11	2.14	0.57
34:BA:1006:C:O2	34:BA:1006:C:H2'	2.03	0.57
34:BA:1167:A:C2	34:BA:1169:A:C2	2.92	0.57
34:BA:123:C:OP1	34:BA:312:C:H5'	2.03	0.57
34:BA:1253:G:O2'	34:BA:1254:C:H5'	2.03	0.57
34:BA:1316:G:H5'	34:BA:1360:A:C8	2.39	0.57
34:BA:1317:C:HO2'	34:BA:1318:A:C5'	1.82	0.57
34:BA:1417:G:H22	34:BA:1482:G:H2'	1.67	0.57
10:AL:101:PRO:HG3	34:BA:346:G:H5''	1.86	0.57
34:BA:675:A:H2'	34:BA:676:A:H8	1.69	0.57
34:BA:686:U:HO2'	34:BA:687:A:P	2.27	0.57
34:BA:815:A:C2	34:BA:1527:C:O2	2.57	0.57
34:BA:862:C:C4	34:BA:863:U:H5	2.21	0.57
34:BA:872:A:C2'	34:BA:873:A:C5'	2.82	0.57
34:BA:981:U:C6	34:BA:981:U:H3'	2.39	0.57
56:BE:6:G:N7	56:BE:69:G:C2	2.68	0.57
35:BF:100:GLY:HA2	35:BF:176:GLU:OE2	2.03	0.57
35:BF:84:GLU:HG3	35:BF:212:GLN:OE1	2.03	0.57
36:BG:44:GLU:HA	36:BG:52:LEU:CD1	2.33	0.57
37:BH:17:VAL:O	37:BH:19:LEU:HD23	2.04	0.57
37:BH:8:VAL:HG13	37:BH:11:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:57:GLN:N	39:BJ:57:GLN:OE1	2.37	0.57
39:BJ:77:ARG:N	39:BJ:80:ARG:NH2	2.52	0.57
40:BK:26:PHE:HD2	40:BK:43:PHE:HE1	1.52	0.57
41:BL:112:LEU:HD12	41:BL:131:GLY:C	2.24	0.57
41:BL:39:LEU:O	41:BL:43:GLY:O	2.22	0.57
42:BM:49:PRO:CG	42:BM:81:ILE:HB	2.34	0.57
42:BM:67:GLY:O	42:BM:73:GLN:NE2	2.37	0.57
42:BM:82:ALA:HB2	42:BM:101:PHE:CZ	2.39	0.57
36:BG:5:ILE:CG2	43:BN:51:ARG:HH12	2.16	0.57
43:BN:48:THR:HA	43:BN:62:HIS:HB3	1.84	0.57
44:BO:41:THR:HB	44:BO:71:LYS:CE	2.34	0.57
46:BQ:16:ASP:CA	46:BQ:34:LEU:CG	2.69	0.57
46:BQ:84:ILE:HD11	46:BQ:86:CYS:HB3	1.85	0.57
34:BA:1316:G:H5'	47:BR:17:LYS:HZ3	1.69	0.57
53:BX:104:LEU:O	53:BX:105:SER:O	2.21	0.57
57:BZ:158:LEU:HA	57:BZ:159:ASP:C	2.25	0.57
57:BZ:171:ILE:HD13	57:BZ:182:ASP:OD1	2.04	0.57
57:BZ:206:GLN:HG2	57:BZ:227:LYS:HG3	1.82	0.57
57:BZ:207:MET:HE1	57:BZ:209:ILE:CA	2.27	0.57
57:BZ:207:MET:HE3	57:BZ:224:GLY:O	2.03	0.57
57:BZ:206:GLN:CB	57:BZ:228:ARG:N	2.52	0.57
57:BZ:493:GLN:HG2	57:BZ:519:TYR:HB3	1.86	0.57
57:BZ:520:GLU:CD	57:BZ:593:THR:CA	2.59	0.57
56:BD:48:C:H3'	56:BD:48:C:P	2.44	0.57
56:BD:6:G:O2'	56:BD:7:A:H5'	2.03	0.57
57:BZ:539:THR:CA	57:BZ:541:LYS:H	2.16	0.57
1:AA:1486:A:H2'	1:AA:1487:G:O4'	2.04	0.57
1:AA:1051:G:C6	1:AA:2751:G:N1	2.67	0.57
1:AA:1051:G:H3'	1:AA:1052:C:C5'	2.34	0.57
1:AA:1341:U:H2'	1:AA:1342:A:OP1	2.04	0.57
1:AA:1387:C:C2	1:AA:1388:G:N7	2.72	0.57
1:AA:1392:A:C6	1:AA:1393:A:C6	2.92	0.57
1:AA:141:A:N1	1:AA:141(A):C:O4'	2.37	0.57
1:AA:1458:C:O2	1:AA:1461:G:N2	2.37	0.57
1:AA:1602:U:OP2	1:AA:1602:U:C4	2.57	0.57
1:AA:161:U:H3	1:AA:164:U:H3	1.50	0.57
1:AA:1671:U:O2	1:AA:1673:U:H5'	2.03	0.57
1:AA:1794:U:H2'	1:AA:1795:C:C6	2.39	0.57
1:AA:1834:U:H1'	1:AA:1969:A:H2	1.63	0.57
1:AA:1987:G:C2	1:AA:1988:C:C4	2.92	0.57
1:AA:2003:G:C6	1:AA:2004:G:C6	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:209:C:H2'	1:AA:210:C:C5'	2.33	0.57
1:AA:2135:A:C4'	1:AA:2136:C:C5	2.76	0.57
1:AA:2152:G:P	3:AC:3:HIS:C	2.82	0.57
1:AA:217:G:H2'	1:AA:218:A:O5'	2.04	0.57
1:AA:2243:U:O2	1:AA:2244:U:C6	2.57	0.57
1:AA:2298:A:N1	1:AA:2321:G:C6	2.73	0.57
1:AA:2406:U:OP2	1:AA:2411:A:N6	2.34	0.57
1:AA:2679:A:C2'	1:AA:2680:C:H5'	2.34	0.57
1:AA:2630:G:N2	1:AA:2789:C:N3	2.52	0.57
1:AA:338:G:OP1	20:AV:2:ARG:NH2	2.37	0.57
1:AA:344:G:H2'	1:AA:345:A:C1'	2.33	0.57
1:AA:361:G:C2'	1:AA:362:U:O4'	2.52	0.57
1:AA:739:G:C2'	1:AA:1784:A:H61	2.17	0.57
1:AA:952:G:C6	1:AA:966:G:C6	2.92	0.57
3:AC:131:LEU:HB3	3:AC:136:LEU:HB2	1.85	0.57
3:AC:58:VAL:CG1	3:AC:199:HIS:HB3	2.34	0.57
4:AD:10:THR:N	4:AD:11:PRO:CD	2.67	0.57
1:AA:1902:C:H5'	4:AD:244:ARG:CZ	2.34	0.57
1:AA:1825:A:O2'	4:AD:252:TRP:CH2	2.55	0.57
5:AE:104:VAL:HG12	5:AE:105:THR:H	1.67	0.57
5:AE:116:VAL:O	5:AE:117:MET:O	2.22	0.57
5:AE:133:LYS:HZ2	5:AE:137:HIS:HB3	1.69	0.57
5:AE:13:ARG:HD2	5:AE:13:ARG:C	2.23	0.57
5:AE:51:PHE:CD1	5:AE:52:LEU:N	2.72	0.57
5:AE:51:PHE:CE1	5:AE:75:VAL:HG22	2.39	0.57
6:AF:39:TRP:HE3	6:AF:99:TYR:HB3	1.67	0.57
6:AF:5:ALA:O	6:AF:20:LEU:HD22	2.04	0.57
6:AF:70:THR:O	6:AF:72:ARG:N	2.36	0.57
7:AG:131:TYR:CZ	7:AG:132:ASN:HA	2.38	0.57
7:AG:33:ARG:HH21	7:AG:34:LEU:N	2.02	0.57
7:AG:44:GLY:O	7:AG:47:LYS:N	2.36	0.57
8:AH:76:VAL:CG2	8:AH:77:LYS:H	2.16	0.57
32:AJ:76:TYR:CE2	32:AJ:80:LYS:HE2	2.39	0.57
32:AJ:98:ARG:HG2	32:AJ:99:ILE:N	2.18	0.57
9:AK:100:GLU:O	9:AK:104:LYS:HG2	2.04	0.57
10:AL:3:GLN:CD	10:AL:33:ALA:HB3	2.20	0.57
11:AM:117:GLU:N	11:AM:117:GLU:OE2	2.34	0.57
11:AM:123:LEU:O	11:AM:138:LEU:HD23	2.03	0.57
11:AM:15:ARG:NH2	11:AM:16:ARG:H	2.01	0.57
11:AM:81:GLN:O	11:AM:86:LYS:HG2	2.04	0.57
12:AN:112:GLU:CA	12:AN:115:MET:HB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:56:ARG:O	12:AN:60:ARG:HG3	2.04	0.57
12:AN:68:ILE:HG21	12:AN:95:ALA:CB	2.34	0.57
18:AT:59:VAL:HG21	18:AT:66:GLU:CB	2.34	0.57
20:AV:33:LYS:O	20:AV:34:LYS:C	2.42	0.57
21:AW:95:PRO:CD	21:AW:131:ARG:HG2	2.34	0.57
21:AW:28:MET:HE1	21:AW:88:PHE:HB2	1.84	0.57
22:AX:59:LEU:CD1	22:AX:79:VAL:HG11	2.34	0.57
34:BA:1134:G:C6	34:BA:1135:U:H1'	2.39	0.57
34:BA:1194:U:C5	34:BA:1195:C:C5	2.92	0.57
34:BA:1319:A:N6	34:BA:1323:G:N3	2.52	0.57
34:BA:922:G:N3	34:BA:1398:A:H2	2.02	0.57
34:BA:1486:G:H2'	34:BA:1487:G:O4'	2.04	0.57
34:BA:1515:C:O2'	34:BA:1516:G:H5'	2.05	0.57
34:BA:244:U:O2'	34:BA:245:C:OP2	2.22	0.57
34:BA:287:U:H2'	34:BA:288:A:C5'	2.34	0.57
34:BA:434:U:C2	34:BA:435:C:C5	2.93	0.57
34:BA:448:A:O2'	34:BA:449:C:H5'	2.04	0.57
34:BA:534:U:H5''	34:BA:535:A:OP2	2.03	0.57
34:BA:939:G:C2	34:BA:940:C:C4	2.91	0.57
34:BA:951:G:O2'	34:BA:972:C:H5	1.87	0.57
34:BA:986:A:C8	52:BW:55:LYS:HE3	2.39	0.57
35:BF:100:GLY:C	35:BF:104:ASN:HD21	2.07	0.57
35:BF:118:LEU:HD11	35:BF:141:GLU:CD	2.23	0.57
35:BF:19:HIS:CA	35:BF:39:ILE:HD11	2.34	0.57
36:BG:201:TYR:N	36:BG:201:TYR:HD1	2.02	0.57
36:BG:181:ASN:HD22	36:BG:206:GLU:HA	1.69	0.57
36:BG:26:LYS:O	36:BG:28:GLN:HG3	2.04	0.57
36:BG:46:GLU:O	36:BG:47:LEU:HD13	2.03	0.57
37:BH:98:GLU:O	37:BH:100:ARG:N	2.37	0.57
37:BH:11:LEU:C	37:BH:19:LEU:HD12	2.25	0.57
37:BH:20:TYR:HB2	37:BH:27:TYR:HA	1.86	0.57
37:BH:78:LEU:O	37:BH:79:PHE:C	2.43	0.57
38:BI:61:TYR:HA	38:BI:64:ARG:HG2	1.85	0.57
40:BK:72:ARG:NH2	40:BK:138:LYS:HZ3	1.99	0.57
40:BK:37:ASN:OD1	40:BK:38:LEU:N	2.24	0.57
40:BK:37:ASN:CG	40:BK:38:LEU:H	2.07	0.57
40:BK:69:VAL:HG21	40:BK:104:LEU:CG	2.34	0.57
41:BL:39:LEU:HD12	41:BL:45:ILE:HG22	1.85	0.57
34:BA:877:C:OP1	41:BL:88:LYS:HD3	2.03	0.57
42:BM:15:ALA:HB3	42:BM:77:ILE:N	2.19	0.57
43:BN:10:GLY:N	43:BN:16:LEU:HD11	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:9:ARG:HH11	43:BN:9:ARG:CB	2.17	0.57
44:BO:85:ARG:HG3	44:BO:85:ARG:NH1	2.18	0.57
46:BQ:15:VAL:CG2	46:BQ:39:ILE:CG1	2.04	0.57
46:BQ:64:TRP:O	46:BQ:65:LYS:HB3	2.03	0.57
49:BT:15:PRO:HD2	49:BT:42:ARG:NE	2.19	0.57
50:BU:98:LEU:HD13	50:BU:102:GLY:O	2.04	0.57
34:BA:1441:G:O6	53:BX:35:THR:CG2	2.52	0.57
54:BY:4:GLY:C	54:BY:6:ARG:N	2.57	0.57
57:BZ:206:GLN:CG	57:BZ:227:LYS:CG	2.73	0.57
57:BZ:24:LYS:N	57:BZ:26:LEU:HD22	2.19	0.57
57:BZ:310:PHE:CA	57:BZ:385:PRO:HG3	2.33	0.57
57:BZ:468:THR:HG23	57:BZ:469:PHE:N	2.10	0.57
57:BZ:52:ARG:HH12	57:BZ:54:ILE:HG12	1.69	0.57
56:BD:51:U:N3	56:BD:64:A:C5	2.72	0.57
37:BH:193:ASP:OD2	37:BH:194:LEU:HD21	2.04	0.57
34:BA:799:G:H3'	34:BA:800:G:C8	2.39	0.57
1:AA:1081:U:C4	1:AA:1086:A:C2	2.89	0.57
1:AA:1473:G:O2'	1:AA:1474:C:H5'	2.04	0.57
1:AA:1477:A:H2'	1:AA:1478:G:C1'	2.34	0.57
1:AA:1520:U:H3'	1:AA:1520:U:C6	2.35	0.57
1:AA:1471:A:C8	1:AA:1521:G:N1	2.72	0.57
1:AA:1535:U:H3'	1:AA:1536:A:C8	2.38	0.57
1:AA:1810:A:C2'	1:AA:1811:G:H5'	2.32	0.57
1:AA:1950:G:C5	1:AA:1951:U:C5	2.92	0.57
1:AA:1956:U:C2	1:AA:1957:C:C5	2.92	0.57
1:AA:2307:G:C8	1:AA:2308:G:H1'	2.39	0.57
1:AA:243:U:C2'	1:AA:243:U:O2	2.53	0.57
1:AA:2517:C:C5	1:AA:2542:A:N7	2.73	0.57
1:AA:2519:U:C2	1:AA:2542:A:C2	2.92	0.57
1:AA:2580:U:OP2	1:AA:2580:U:H6	1.87	0.57
1:AA:2637:U:H6	1:AA:2637:U:OP2	1.87	0.57
1:AA:2749:A:C6	1:AA:2750:A:N7	2.71	0.57
1:AA:2629:A:C5	1:AA:2896:C:O5'	2.44	0.57
1:AA:540:G:C6	1:AA:541:C:C4	2.93	0.57
1:AA:669:G:N3	1:AA:801:G:N2	2.52	0.57
1:AA:814:C:C2	1:AA:815:C:C5	2.92	0.57
1:AA:988:A:H62	24:AZ:13:ILE:CD1	2.18	0.57
2:AB:73:A:N6	2:AB:104:A:C1'	2.67	0.57
2:AB:12:C:O4'	22:AX:74:ARG:HG2	2.04	0.57
2:AB:32:C:C2'	2:AB:33:G:C8	2.87	0.57
2:AB:9:G:C5	2:AB:112:G:C6	2.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:116:THR:HG22	3:AC:149:ILE:HB	1.86	0.57
3:AC:181:PRO:O	3:AC:185:LEU:HG	2.04	0.57
4:AD:171:ASP:O	4:AD:186:HIS:HB3	2.04	0.57
4:AD:198:ASN:ND2	4:AD:201:HIS:HB2	2.19	0.57
1:AA:1798:U:H5'	4:AD:257:LEU:HB2	1.85	0.57
4:AD:258:LYS:HA	4:AD:261:LYS:CD	2.34	0.57
4:AD:259:THR:HG21	4:AD:260:ARG:HH12	1.67	0.57
4:AD:72:LYS:HZ1	4:AD:99:ASP:CG	2.07	0.57
1:AA:1656:C:OP1	5:AE:117:MET:HB2	2.04	0.57
5:AE:178:GLU:O	5:AE:180:ASN:N	2.37	0.57
6:AF:123:LEU:HG	6:AF:191:ARG:HD3	1.86	0.57
6:AF:122:LYS:HZ1	6:AF:192:LEU:HB3	1.67	0.57
6:AF:204:ASN:OD1	6:AF:204:ASN:N	2.37	0.57
6:AF:52:LYS:HD2	6:AF:88:VAL:HG23	1.86	0.57
7:AG:6:ALA:O	7:AG:10:LYS:HG2	2.04	0.57
7:AG:119:GLY:O	7:AG:120:LEU:HD23	2.04	0.57
7:AG:1:MET:C	7:AG:3:LEU:H	2.08	0.57
8:AH:87:LEU:HD21	8:AH:162:ILE:CG1	2.35	0.57
1:AA:2749:A:H4'	8:AH:62:LYS:CB	2.34	0.57
8:AH:71:LEU:O	8:AH:74:ASN:ND2	2.30	0.57
32:AJ:33:ASN:HD22	32:AJ:62:ASP:N	2.02	0.57
32:AJ:62:ASP:N	32:AJ:63:ARG:HA	2.19	0.57
32:AJ:52:ILE:CD1	32:AJ:76:TYR:HD1	2.17	0.57
10:AL:16:ALA:HB2	10:AL:46:ALA:O	2.04	0.57
10:AL:67:LYS:N	10:AL:67:LYS:HE2	2.20	0.57
10:AL:8:LEU:O	10:AL:18:LYS:HG3	2.04	0.57
11:AM:54:GLY:O	11:AM:56:SER:N	2.37	0.57
11:AM:81:GLN:CA	11:AM:86:LYS:CG	2.83	0.57
12:AN:16:ARG:O	12:AN:17:LEU:HG	2.03	0.57
12:AN:14:ARG:O	12:AN:73:PRO:HG2	2.04	0.57
15:AQ:102:ILE:C	15:AQ:104:ASN:H	2.08	0.57
1:AA:2847:U:C3'	15:AQ:99:LEU:HD12	2.31	0.57
17:AS:72:VAL:O	17:AS:73:SER:O	2.23	0.57
18:AT:16:LYS:H	18:AT:16:LYS:HZ2	1.43	0.57
18:AT:36:LEU:CD2	18:AT:51:LEU:HD21	2.25	0.57
18:AT:78:GLU:HG2	18:AT:99:ARG:HD2	1.86	0.57
20:AV:6:HIS:CG	20:AV:33:LYS:HZ3	2.23	0.57
21:AW:29:TYR:CG	21:AW:72:ARG:NH2	2.72	0.57
22:AX:82:ARG:HG2	22:AX:83:PRO:N	2.18	0.57
23:AY:26:GLU:HA	23:AY:29:GLU:HG3	1.86	0.57
24:AZ:40:THR:HG21	24:AZ:42:ALA:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:8:LEU:HB2	24:AZ:33:GLN:HB3	1.86	0.57
34:BA:1085:U:C5'	34:BA:1094:G:N2	2.65	0.57
34:BA:1275:A:H2'	34:BA:1276:G:H5'	1.86	0.57
34:BA:129(A):G:H4'	34:BA:130:A:H5''	1.85	0.57
34:BA:1315:U:O4'	34:BA:1361:G:C5'	2.48	0.57
34:BA:1316:G:HO2'	34:BA:1318:A:N6	2.00	0.57
34:BA:136:C:H4'	49:BT:65:GLN:HE22	1.69	0.57
34:BA:1419:G:C2'	34:BA:1420:C:H6	2.16	0.57
34:BA:230:G:N2	34:BA:231:G:H1'	2.18	0.57
34:BA:262:A:C6	34:BA:263:A:N6	2.72	0.57
34:BA:340:U:C2	34:BA:341:C:C5	2.92	0.57
34:BA:341:C:O2'	34:BA:342:C:H5'	2.04	0.57
34:BA:34:C:O2'	34:BA:35:G:C5'	2.50	0.57
34:BA:106:C:O2	34:BA:379:C:H4'	2.04	0.57
34:BA:430:A:OP1	37:BH:9:CYS:CB	2.51	0.57
34:BA:543:C:N3	34:BA:544:G:N7	2.52	0.57
34:BA:752:G:C8	34:BA:752:G:OP2	2.58	0.57
34:BA:816:A:H2'	34:BA:817:C:OP2	2.04	0.57
34:BA:878:G:H5'	41:BL:89:PRO:HG2	1.85	0.57
34:BA:881:G:C6	34:BA:882:C:C4	2.92	0.57
34:BA:949:A:C3'	46:BQ:102:ARG:HH11	2.07	0.57
34:BA:961:U:O2'	34:BA:962:C:C5'	2.48	0.57
34:BA:986:A:C2	52:BW:52:TYR:OH	2.58	0.57
35:BF:14:GLY:CA	35:BF:209:ARG:HH21	2.13	0.57
35:BF:80:ILE:HD12	35:BF:208:ILE:CG2	2.34	0.57
36:BG:71:ALA:HB2	36:BG:106:VAL:CG2	2.34	0.57
37:BH:125:HIS:HA	37:BH:149:ALA:HB3	1.85	0.57
37:BH:168:ARG:H	37:BH:168:ARG:HD2	1.66	0.57
37:BH:173:TRP:CA	37:BH:186:LEU:HD12	2.34	0.57
38:BI:37:ARG:NH1	38:BI:111:GLU:HB2	2.20	0.57
38:BI:84:PHE:CD1	38:BI:134:ALA:HA	2.39	0.57
39:BJ:48:LEU:HB3	51:BV:78:LEU:CD2	2.28	0.57
40:BK:64:GLN:O	40:BK:68:ASN:ND2	2.37	0.57
40:BK:77:SER:CA	40:BK:156:TRP:HZ2	2.16	0.57
41:BL:32:LYS:HG3	41:BL:59:LEU:CD1	2.34	0.57
41:BL:7:ALA:O	41:BL:10:LEU:HB2	2.04	0.57
44:BO:112:THR:N	44:BO:113:PRO:CD	2.64	0.57
44:BO:13:GLN:HA	44:BO:76:GLY:HA3	1.85	0.57
45:BP:29:GLY:O	45:BP:30:ALA:O	2.21	0.57
34:BA:1330:U:H5''	46:BQ:70:LEU:HD23	1.85	0.57
46:BQ:91:ARG:O	46:BQ:96:LEU:CD2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:95:GLY:C	46:BQ:110:ARG:HG2	2.24	0.57
36:BG:29:TYR:OH	47:BR:54:PRO:HB2	2.02	0.57
48:BS:41:GLU:HA	48:BS:44:LYS:HE3	1.85	0.57
49:BT:6:LEU:CD1	49:BT:6:LEU:N	2.67	0.57
51:BV:80:PRO:O	51:BV:82:THR:O	2.22	0.57
52:BW:51:VAL:CG2	52:BW:60:VAL:CG2	2.83	0.57
53:BX:34:LYS:O	53:BX:38:LYS:HG3	2.04	0.57
57:BZ:137:PRO:HD2	57:BZ:138:ASP:H	1.68	0.57
57:BZ:13:HIS:CB	57:BZ:108:GLN:C	2.72	0.57
57:BZ:408:GLU:C	57:BZ:410:GLN:H	2.08	0.57
57:BZ:55:THR:HG1	57:BZ:254:VAL:CG1	1.92	0.57
55:BC:37:A:H2'	55:BC:38:A:O4'	2.04	0.57
55:BC:4:C:N3	55:BC:5:G:N7	2.51	0.57
18:AT:95:ILE:H	18:AT:95:ILE:CD1	2.06	0.57
56:BD:9:A:H2	56:BD:45:U:H3	1.51	0.57
1:AA:1223:C:O2	1:AA:1225:C:H5''	2.04	0.57
1:AA:1314:C:O2'	1:AA:1315:C:H5'	2.05	0.57
1:AA:1439:A:H2'	1:AA:1440:G:C5'	2.34	0.57
1:AA:1429:G:C4	1:AA:1568:G:C6	2.92	0.57
1:AA:1670:C:C6	1:AA:1671:U:C6	2.92	0.57
1:AA:1708:C:C2'	1:AA:1709:U:C5'	2.79	0.57
1:AA:1707:G:C4	1:AA:1708:C:C5	2.92	0.57
1:AA:1753:G:H2'	1:AA:1755:A:N7	2.19	0.57
1:AA:1882:C:H2'	1:AA:1883:G:C4'	2.35	0.57
1:AA:1960:A:O4'	34:BA:1418:A:H2	1.88	0.57
1:AA:1981:A:C5'	1:AA:1982:C:OP2	2.50	0.57
1:AA:2055:C:H4'	1:AA:2056:G:O5'	2.04	0.57
1:AA:2269:A:H2'	1:AA:2270:G:O4'	2.03	0.57
1:AA:2278:A:N7	22:AX:14:ARG:CB	2.67	0.57
1:AA:2281:C:O2'	1:AA:2282:G:O5'	2.22	0.57
1:AA:251:A:H2'	1:AA:252:G:O5'	2.05	0.57
1:AA:1669:A:C5'	1:AA:2550:G:OP1	2.46	0.57
1:AA:2630:G:H1	1:AA:2789:C:N4	2.03	0.57
1:AA:2777:G:C8	1:AA:2777:G:O5'	2.57	0.57
1:AA:2778:A:H4'	1:AA:2779:U:OP2	2.02	0.57
1:AA:2859:G:O2'	1:AA:2860:A:H5'	2.04	0.57
1:AA:360:G:O5'	1:AA:360:G:H8	1.87	0.57
1:AA:360:G:H2'	1:AA:361:G:O5'	2.03	0.57
1:AA:387:U:H4'	1:AA:388:G:C1'	2.33	0.57
1:AA:506:G:HO2'	1:AA:507:A:H8	1.51	0.57
1:AA:28:A:C8	1:AA:513:A:C6	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:586:A:N6	1:AA:810:U:H5'	2.19	0.57
1:AA:594:U:C2'	1:AA:595:C:C6	2.80	0.57
1:AA:729:G:C5	1:AA:730:C:C6	2.91	0.57
1:AA:823:G:C2	1:AA:824:A:C5	2.93	0.57
1:AA:977:G:C2	1:AA:978:G:H1'	2.39	0.57
2:AB:66:A:C2	2:AB:108:C:C6	2.92	0.57
2:AB:68:C:H2'	2:AB:69:G:O4'	2.04	0.57
3:AC:108:MET:SD	3:AC:131:LEU:CD2	2.87	0.57
4:AD:135:PHE:CD1	4:AD:135:PHE:N	2.73	0.57
4:AD:208:LYS:HE2	4:AD:211:ARG:CG	2.35	0.57
1:AA:1804:C:P	4:AD:257:LEU:HD22	2.44	0.57
1:AA:2574:G:O2'	5:AE:143:ASN:HB3	2.03	0.57
5:AE:113:PHE:O	5:AE:158:GLY:HA2	2.04	0.57
5:AE:31:CYS:O	5:AE:33:VAL:HG13	2.04	0.57
6:AF:40:GLN:N	6:AF:184:TYR:OH	2.37	0.57
7:AG:153:ARG:O	7:AG:155:MET:SD	2.63	0.57
7:AG:36:LYS:HZ3	7:AG:38:VAL:HG13	1.69	0.57
8:AH:153:LYS:H	8:AH:154:PRO:CD	2.15	0.57
32:AJ:83:GLY:C	32:AJ:85:GLU:N	2.57	0.57
1:AA:558:G:O5'	9:AK:109:LYS:HD3	2.04	0.57
9:AK:7:LYS:HZ3	9:AK:39:ARG:HH12	1.53	0.57
10:AL:122:LEU:C	15:AQ:74:ARG:NH2	2.58	0.57
10:AL:31:LYS:C	10:AL:32:TYR:CG	2.78	0.57
11:AM:55:ARG:CA	11:AM:55:ARG:HH21	2.16	0.57
12:AN:111:GLU:HB2	12:AN:113:GLN:NE2	2.18	0.57
12:AN:43:THR:HG23	12:AN:46:GLN:HE21	1.69	0.57
12:AN:59:ARG:C	12:AN:60:ARG:HD2	2.24	0.57
13:AO:73:VAL:O	13:AO:74:LYS:C	2.42	0.57
15:AQ:104:ASN:O	15:AQ:108:ARG:NH1	2.38	0.57
16:AR:30:LYS:O	16:AR:32:PHE:N	2.32	0.57
16:AR:81:HIS:CG	16:AR:117:GLN:HE22	2.22	0.57
17:AS:1:MET:O	17:AS:3:ALA:N	2.36	0.57
17:AS:27:ALA:O	17:AS:33:VAL:CG2	2.52	0.57
20:AV:49:VAL:HB	20:AV:51:VAL:HG23	1.86	0.57
21:AW:44:PHE:CD2	21:AW:48:PHE:CE1	2.91	0.57
22:AX:21:LEU:HG	22:AX:22:GLY:N	2.17	0.57
23:AY:19:LEU:C	23:AY:19:LEU:HD13	2.24	0.57
23:AY:29:GLU:O	23:AY:32:PHE:HB2	2.04	0.57
23:AY:20:VAL:CG2	23:AY:55:LEU:HD23	2.34	0.57
1:AA:988:A:H5''	24:AZ:10:LYS:HE3	1.87	0.57
34:BA:109:A:N6	34:BA:326:G:C6	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1178:G:N2	34:BA:1180:A:C5'	2.67	0.57
34:BA:1315:U:H6	34:BA:1315:U:O5'	1.87	0.57
34:BA:133:U:H5'	34:BA:134:A:P	2.44	0.57
34:BA:1449:C:H2'	34:BA:1450:U:C5'	2.32	0.57
34:BA:16:A:H1'	38:BI:17:ALA:HB3	1.84	0.57
34:BA:259:G:H5''	53:BX:83:ARG:NH2	2.19	0.57
34:BA:62:U:H1'	34:BA:379:C:H1'	1.86	0.57
34:BA:587:G:N2	34:BA:755:G:C5	2.72	0.57
34:BA:900:A:H2'	34:BA:901:A:O5'	2.05	0.57
34:BA:935:A:H2'	34:BA:936:C:H6	1.69	0.57
34:BA:978:A:N1	34:BA:1318:A:N6	2.52	0.57
56:BD:75:C:OP1	56:BD:75:C:H2'	2.04	0.57
56:BE:71:G:N2	56:BE:72:C:O2	2.38	0.57
35:BF:105:PHE:C	35:BF:107:THR:H	2.06	0.57
35:BF:17:PHE:HA	35:BF:42:ILE:CG2	2.34	0.57
35:BF:79:ASP:O	35:BF:82:ARG:HB3	2.03	0.57
35:BF:80:ILE:HG23	35:BF:212:GLN:HE21	1.68	0.57
35:BF:67:THR:HB	35:BF:90:MET:SD	2.43	0.57
38:BI:106:PRO:HB3	38:BI:120:THR:HG21	1.86	0.57
38:BI:15:ARG:HH11	38:BI:15:ARG:HG3	1.68	0.57
41:BL:123:GLU:O	41:BL:126:LYS:HE3	2.04	0.57
43:BN:39:PRO:CA	43:BN:70:ARG:HH11	2.17	0.57
43:BN:29:ARG:HB2	43:BN:84:GLN:HE21	1.69	0.57
43:BN:27:ALA:HB2	43:BN:85:LEU:CD2	2.34	0.57
45:BP:117:ARG:HH11	45:BP:117:ARG:CG	2.12	0.57
34:BA:35:G:O2'	45:BP:118:SER:HA	2.04	0.57
45:BP:119:LYS:HB3	45:BP:120:TYR:HD1	1.69	0.57
45:BP:64:TYR:C	45:BP:65:GLU:HG3	2.25	0.57
45:BP:84:LEU:HD23	45:BP:85:ILE:N	2.20	0.57
45:BP:96:VAL:HG12	45:BP:96:VAL:O	2.04	0.57
46:BQ:10:PRO:HB2	46:BQ:45:VAL:HG21	1.86	0.57
48:BS:81:LEU:HD23	48:BS:81:LEU:C	2.25	0.57
49:BT:51:VAL:O	49:BT:52:ASP:C	2.42	0.57
50:BU:43:LEU:CD2	50:BU:44:ALA:O	2.53	0.57
34:BA:322:C:O2'	53:BX:23:ARG:HB2	2.04	0.57
57:BZ:18:LYS:CA	60:BZ:701:GCP:O1B	2.51	0.57
56:BD:1:G:N2	56:BD:72:C:N1	2.52	0.57
57:BZ:40:GLU:H	57:BZ:41:ARG:CA	2.16	0.57
57:BZ:43:MET:O	57:BZ:44:ASP:HB2	2.03	0.57
1:AA:1153:C:C2	1:AA:1154:G:C8	2.93	0.57
1:AA:973:A:O4'	1:AA:1188:U:C5	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:G:C8	16:AR:2:PRO:CA	2.81	0.57
1:AA:1255:U:N3	6:AF:72:ARG:O	2.37	0.57
1:AA:134:C:C2	1:AA:146:G:N2	2.73	0.57
1:AA:1472:A:N9	1:AA:1473:G:N7	2.52	0.57
1:AA:1568:G:HO2'	1:AA:1569:A:P	2.27	0.57
1:AA:197:A:C5	1:AA:2430:A:N7	2.73	0.57
1:AA:1980:G:O2'	1:AA:1981:A:OP1	2.21	0.57
1:AA:1:G:C4	1:AA:2902:C:N3	2.27	0.57
1:AA:2075:U:O2	1:AA:2076:U:C5'	2.52	0.57
1:AA:2126:A:N7	1:AA:2163:C:H4'	2.19	0.57
1:AA:2146:C:N3	1:AA:2147:G:H1'	2.20	0.57
1:AA:2158:A:O2'	1:AA:2159:G:OP2	2.21	0.57
1:AA:2210:G:C6	4:AD:150:LYS:CA	2.82	0.57
1:AA:2216:G:H21	4:AD:150:LYS:NZ	2.02	0.57
1:AA:2453:A:N6	1:AA:2500:U:H3	2.01	0.57
1:AA:2545:G:C2'	1:AA:2546:U:H5'	2.33	0.57
1:AA:2657:A:N6	1:AA:2664:G:O2'	2.38	0.57
1:AA:221:A:N7	1:AA:266:G:C5	2.73	0.57
1:AA:2685:G:H4'	10:AL:66:LYS:CE	2.33	0.57
1:AA:270(X):G:N2	1:AA:270(Y):G:O2'	2.38	0.57
1:AA:2784:C:H2'	1:AA:2785:C:H6	1.69	0.57
1:AA:2886:G:C2	1:AA:2887:U:C6	2.92	0.57
1:AA:2:G:C1'	1:AA:2902:C:O2	2.53	0.57
1:AA:308:G:N1	1:AA:309:G:N3	2.53	0.57
1:AA:289:A:C2'	1:AA:351:G:N1	2.63	0.57
1:AA:500:G:H1'	1:AA:502:A:OP2	2.04	0.57
1:AA:942:G:N1	1:AA:943:U:C4	2.73	0.57
1:AA:954:G:O6	1:AA:964:C:N4	2.37	0.57
2:AB:81:G:C6	2:AB:82:G:N7	2.72	0.57
4:AD:169:GLU:O	4:AD:172:TYR:O	2.22	0.57
5:AE:57:LYS:O	5:AE:58:ARG:HB2	2.04	0.57
5:AE:44:TYR:O	5:AE:81:ILE:HG23	2.04	0.57
5:AE:8:LYS:CD	5:AE:9:VAL:N	2.65	0.57
1:AA:250:G:H5'	5:AE:8:LYS:CG	117.79	0.57
8:AH:15:VAL:HG22	8:AH:16:SER:N	2.19	0.57
8:AH:89:ILE:HG12	8:AH:94:TYR:CE2	2.39	0.57
32:AJ:17:ALA:CB	32:AJ:41:PHE:CB	2.80	0.57
1:AA:1061:U:H3'	32:AJ:52:ILE:HG12	1.86	0.57
9:AK:107:LEU:HD21	9:AK:113:GLY:CA	2.31	0.57
9:AK:57:ALA:CB	9:AK:124:ALA:HA	2.29	0.57
10:AL:116:SER:HB2	34:BA:345:C:C2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:15:GLY:HA2	10:AL:47:ILE:HG13	1.86	0.57
10:AL:64:ARG:HH11	10:AL:67:LYS:CA	2.16	0.57
10:AL:8:LEU:CD2	10:AL:9:GLU:H	2.11	0.57
11:AM:16:ARG:HD2	11:AM:16:ARG:C	2.24	0.57
11:AM:47:ASP:CB	11:AM:48:PRO:CD	2.82	0.57
12:AN:36:ALA:HA	12:AN:129:THR:HG22	1.86	0.57
13:AO:38:VAL:CG1	13:AO:39:PRO:HD3	2.33	0.57
13:AO:73:VAL:HB	13:AO:77:ARG:NH2	2.19	0.57
14:AP:64:GLU:C	14:AP:66:ALA:N	2.49	0.57
14:AP:13:ARG:NH1	14:AP:94:TYR:OH	2.37	0.57
16:AR:46:ALA:O	16:AR:49:HIS:HB2	2.04	0.57
18:AT:88:ARG:CA	18:AT:88:ARG:NE	2.65	0.57
19:AU:39:ILE:HD12	19:AU:54:VAL:CG1	2.34	0.57
21:AW:10:ARG:O	21:AW:11:GLU:HB2	2.05	0.57
21:AW:78:LYS:O	21:AW:80:ARG:N	2.37	0.57
22:AX:1:MET:O	22:AX:2:ALA:HB3	2.05	0.57
23:AY:48:LEU:HA	23:AY:51:GLN:CD	2.25	0.57
34:BA:1067:A:O2'	34:BA:1068:G:P	2.62	0.57
34:BA:1253:G:N2	34:BA:1254:C:H1'	2.17	0.57
34:BA:1269:A:H1'	34:BA:1312:G:N2	2.17	0.57
34:BA:1317:C:C4	34:BA:1318:A:C6	2.89	0.57
34:BA:1269:A:H5'	34:BA:1326:C:C4'	2.35	0.57
34:BA:1329:A:OP1	46:BQ:29:ARG:NE	2.37	0.57
34:BA:1495:U:OP1	34:BA:1495:U:H6	1.87	0.57
34:BA:187:C:C4	34:BA:188:U:O2	2.58	0.57
34:BA:591:U:H2'	34:BA:592:G:C8	2.39	0.57
34:BA:766:A:H2'	34:BA:767:A:H8	1.69	0.57
56:BE:15:G:C2'	56:BE:16:U:H5''	2.34	0.57
56:BE:21:A:C2'	56:BE:22:G:C4'	2.82	0.57
35:BF:87:ARG:C	35:BF:89:GLY:N	2.54	0.57
36:BG:8:ILE:HG22	36:BG:9:GLY:N	2.19	0.57
37:BH:114:ARG:CG	37:BH:114:ARG:HH11	2.17	0.57
37:BH:15:GLU:OE2	37:BH:66:ARG:NH1	2.37	0.57
34:BA:540:G:H21	37:BH:42:GLN:HE22	1.52	0.57
39:BJ:75:LEU:O	39:BJ:78:GLU:HB3	2.04	0.57
40:BK:113:GLU:OE1	40:BK:118:VAL:C	2.42	0.57
40:BK:78:ARG:O	40:BK:84:ASN:CA	2.29	0.57
41:BL:38:ILE:HA	41:BL:41:ARG:HB2	1.85	0.57
41:BL:88:LYS:HZ3	41:BL:88:LYS:HB2	1.70	0.57
43:BN:27:ALA:CB	43:BN:85:LEU:HD21	2.35	0.57
45:BP:84:LEU:O	45:BP:100:ILE:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:8:GLU:CD	46:BQ:21:TYR:CB	2.44	0.57
46:BQ:91:ARG:HD3	46:BQ:98:VAL:CA	2.34	0.57
48:BS:79:ARG:HA	48:BS:82:ILE:HG13	1.86	0.57
49:BT:39:TYR:CE1	49:BT:41:PRO:HG3	2.40	0.57
51:BV:21:LYS:HD2	51:BV:22:VAL:N	2.17	0.57
52:BW:55:LYS:O	52:BW:55:LYS:HG2	2.03	0.57
53:BX:25:ARG:O	53:BX:28:ALA:HB3	2.04	0.57
53:BX:43:LEU:HD22	53:BX:48:LYS:CB	2.31	0.57
57:BZ:131:ASP:OD1	57:BZ:131:ASP:N	2.36	0.57
57:BZ:172:ALA:HB1	57:BZ:179:MET:HE1	1.82	0.57
57:BZ:93:ASP:OD2	57:BZ:197:PRO:HB3	2.03	0.57
57:BZ:204:PRO:HB2	57:BZ:290:ASP:CB	2.31	0.57
57:BZ:247:ARG:O	57:BZ:276:ILE:CB	2.44	0.57
57:BZ:377:GLY:HA2	57:BZ:582:PRO:HB3	1.83	0.57
57:BZ:390:ARG:HG2	57:BZ:391:GLU:CB	2.33	0.57
57:BZ:395:ARG:CD	57:BZ:474:ASP:CB	2.52	0.57
57:BZ:465:LEU:HG	57:BZ:465:LEU:O	2.03	0.57
56:BD:50:U:C4	56:BD:65:G:N1	2.72	0.57
32:AJ:16:LYS:HD2	32:AJ:16:LYS:H	1.70	0.57
1:AA:1563:G:H2'	1:AA:1564:C:C6	2.39	0.57
1:AA:977:G:HO2'	1:AA:1001:A:H2	1.53	0.57
1:AA:1060:U:OP1	32:AJ:52:ILE:HD13	2.04	0.57
1:AA:1199:U:C2	1:AA:1200:C:C5	2.92	0.57
1:AA:1221:C:H2'	1:AA:1221:C:O2	2.04	0.57
1:AA:124:G:OP1	1:AA:1376:C:C1'	2.53	0.57
1:AA:1453:A:C4'	1:AA:1453:A:OP2	2.53	0.57
1:AA:1463:C:H2'	1:AA:1464:C:O5'	2.04	0.57
1:AA:1570:A:C2	1:AA:1571:A:N7	2.72	0.57
1:AA:1656:C:H5''	5:AE:136:ARG:CZ	2.35	0.57
1:AA:1717:G:N2	1:AA:1718:G:H1'	2.19	0.57
1:AA:1729:A:H3'	1:AA:1730:U:C6	2.40	0.57
1:AA:1771:C:H2'	1:AA:1772:G:C8	2.39	0.57
1:AA:1857:G:O2'	1:AA:1885:A:N6	2.38	0.57
1:AA:1909:C:N3	1:AA:1922:G:C6	2.73	0.57
1:AA:1909:C:H6	1:AA:1909:C:O5'	1.88	0.57
1:AA:1920:C:H1'	1:AA:1921:G:P	2.44	0.57
1:AA:1926:U:H3	1:AA:1929:G:N2	2.01	0.57
1:AA:1943:U:O2'	1:AA:1944:U:P	2.63	0.57
1:AA:1982:C:N4	1:AA:1983:C:N4	2.53	0.57
1:AA:2018:G:H8	1:AA:2018:G:OP2	1.87	0.57
1:AA:1131:G:N7	1:AA:2025:C:H4'	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190:A:N6	1:AA:207:A:C8	2.73	0.57
1:AA:2180:U:H2'	1:AA:2181:G:H8	1.70	0.57
1:AA:2266:A:C5'	1:AA:2267:A:N3	2.66	0.57
1:AA:2269:A:C2	1:AA:2270:G:C1'	2.88	0.57
1:AA:2272:U:OP1	22:AX:18:ALA:HB2	2.04	0.57
1:AA:2283:C:C6	1:AA:2389:G:N3	2.73	0.57
1:AA:2472:G:C2'	1:AA:2475:C:H42	2.17	0.57
1:AA:2472:G:H3'	1:AA:2475:C:H42	1.69	0.57
1:AA:2781:A:C2'	1:AA:2782:G:H4'	2.34	0.57
1:AA:2801:A:OP1	1:AA:2801:A:O3'	2.21	0.57
1:AA:2859:G:H2'	1:AA:2860:A:C8	2.40	0.57
1:AA:584:C:H2'	1:AA:585:G:H5'	1.87	0.57
1:AA:637:A:C2	1:AA:651:G:C5'	2.82	0.57
1:AA:740:U:O5'	1:AA:1784:A:N1	2.38	0.57
1:AA:758:C:H2'	1:AA:759:G:C8	2.40	0.57
3:AC:124:GLY:HA2	3:AC:137:LEU:HD21	1.86	0.57
3:AC:156:ILE:CG1	3:AC:160:ARG:HB2	2.23	0.57
4:AD:127:VAL:HA	4:AD:193:VAL:CG1	2.16	0.57
5:AE:105:THR:CG2	5:AE:199:ARG:NH2	2.67	0.57
5:AE:156:MET:O	5:AE:160:TYR:CE1	2.57	0.57
5:AE:198:VAL:C	5:AE:199:ARG:HD2	2.24	0.57
6:AF:27:GLU:HG3	6:AF:116:ASP:HB2	1.86	0.57
7:AG:134:GLY:O	7:AG:135:LEU:HB3	2.03	0.57
7:AG:12:TYR:CA	7:AG:15:VAL:HG22	2.33	0.57
7:AG:170:ARG:HD3	7:AG:174:GLU:HB2	1.86	0.57
7:AG:47:LYS:HE2	7:AG:73:ALA:CB	2.31	0.57
8:AH:85:LYS:HZ3	8:AH:142:GLY:HA2	1.68	0.57
8:AH:156:ALA:HA	8:AH:171:LEU:HD23	1.85	0.57
8:AH:45:VAL:CG2	8:AH:50:VAL:HG13	2.31	0.57
8:AH:61:HIS:O	8:AH:64:LEU:HB2	2.05	0.57
32:AJ:76:TYR:O	32:AJ:80:LYS:HB2	2.05	0.57
9:AK:65:LYS:O	9:AK:66:LYS:O	2.22	0.57
11:AM:47:ASP:HB3	11:AM:48:PRO:HD2	1.86	0.57
12:AN:109:VAL:HG21	12:AN:114:ALA:N	2.19	0.57
13:AO:67:LEU:O	13:AO:68:ARG:C	2.43	0.57
13:AO:6:SER:OG	13:AO:9:LYS:CE	2.53	0.57
14:AP:103:GLU:HA	14:AP:106:ARG:HB3	1.85	0.57
14:AP:41:ASP:CG	14:AP:42:ASP:N	2.54	0.57
15:AQ:102:ILE:C	15:AQ:104:ASN:N	2.56	0.57
1:AA:1151:G:H4'	16:AR:81:HIS:CD2	2.40	0.57
18:AT:14:PRO:CD	18:AT:99:ARG:HG3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AU:31:HIS:CE1	19:AU:33:LYS:HD2	2.39	0.57
21:AW:100:VAL:HG12	21:AW:133:ILE:HB	1.86	0.57
21:AW:5:LEU:HB2	21:AW:23:LYS:HZ3	1.70	0.57
21:AW:43:GLU:O	21:AW:44:PHE:C	2.43	0.57
2:AB:76:G:H1'	21:AW:75:ASN:ND2	2.20	0.57
22:AX:11:ARG:HG2	22:AX:11:ARG:HH11	1.69	0.57
23:AY:32:PHE:CD1	23:AY:32:PHE:N	2.72	0.57
23:AY:24:LYS:HG2	23:AY:52:ILE:HG21	1.85	0.57
34:BA:1135:U:O3'	34:BA:1136:U:H6	1.86	0.57
34:BA:962:C:O2'	34:BA:1200:C:C5	2.57	0.57
34:BA:1244:C:OP2	54:BY:9:ARG:CD	2.49	0.57
34:BA:1269:A:H8	34:BA:1270:C:C1'	2.15	0.57
34:BA:1308:U:C4	34:BA:1309:G:OP2	2.34	0.57
34:BA:1316:G:H4'	34:BA:1360:A:N6	2.12	0.57
34:BA:1346:A:O2'	34:BA:1347:G:OP2	2.22	0.57
34:BA:1430:C:N3	34:BA:1431:C:H5	2.02	0.57
34:BA:171:A:O2'	34:BA:172:A:H5'	2.05	0.57
34:BA:241:C:H2'	34:BA:242:C:O5'	2.04	0.57
34:BA:247:G:C6	34:BA:278:G:N1	2.73	0.57
34:BA:586:C:OP1	50:BU:34:LYS:CE	2.52	0.57
34:BA:682:G:C6	34:BA:683:G:N7	2.73	0.57
34:BA:776:G:C5'	34:BA:777:A:OP1	2.51	0.57
34:BA:861:G:H2'	34:BA:862:C:H6	1.69	0.57
34:BA:952:U:C5'	34:BA:972:C:N4	2.65	0.57
55:BC:16:U:C2'	55:BC:17:C:H5'	2.34	0.57
35:BF:80:ILE:HD13	35:BF:211:ILE:HG22	1.86	0.57
35:BF:219:VAL:CG1	35:BF:222:ILE:HD11	2.32	0.57
35:BF:82:ARG:HA	35:BF:92:TYR:CZ	2.39	0.57
36:BG:191:THR:C	36:BG:193:TYR:H	2.08	0.57
37:BH:106:TYR:HB3	37:BH:114:ARG:NE	2.20	0.57
37:BH:120:LEU:HD12	37:BH:120:LEU:C	2.25	0.57
37:BH:154:ASN:HD22	37:BH:155:LEU:N	2.02	0.57
34:BA:402:G:P	37:BH:74:GLN:HE21	2.28	0.57
38:BI:114:GLY:O	38:BI:115:VAL:CG1	2.51	0.57
38:BI:151:LEU:HD21	41:BL:67:PRO:CG	2.34	0.57
38:BI:20:GLN:NE2	38:BI:21:ALA:H	2.03	0.57
39:BJ:42:GLU:HB2	39:BJ:61:LEU:HD23	1.87	0.57
40:BK:116:ALA:O	40:BK:120:ILE:HG13	2.05	0.57
40:BK:23:VAL:HG12	40:BK:24:THR:N	2.19	0.57
41:BL:17:THR:HG21	41:BL:18:ARG:NH2	2.19	0.57
43:BN:16:LEU:HB3	43:BN:70:ARG:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:35:SER:N	43:BN:73:ASP:O	2.38	0.57
45:BP:10:LEU:HD21	45:BP:15:ARG:HE	1.69	0.57
46:BQ:22:ILE:CG2	46:BQ:67:GLU:OE1	2.53	0.57
48:BS:34:LEU:CD1	48:BS:35:ARG:N	2.67	0.57
1:AA:716:A:C2	48:BS:44:LYS:HA	2.39	0.57
34:BA:728:A:H5'	48:BS:54:ARG:HH22	1.69	0.57
34:BA:375:U:O2'	49:BT:6:LEU:HD21	2.04	0.57
50:BU:59:ILE:CG1	50:BU:60:ILE:N	2.67	0.57
34:BA:254:G:OP1	50:BU:67:LYS:O	2.23	0.57
51:BV:17:SER:HB3	51:BV:54:ARG:CZ	2.34	0.57
52:BW:11:VAL:HG12	52:BW:15:LEU:CD1	2.35	0.57
52:BW:62:ILE:HD11	52:BW:67:VAL:CG1	2.35	0.57
53:BX:49:ALA:HB1	53:BX:99:LEU:HG	1.86	0.57
57:BZ:101:ALA:O	57:BZ:135:ALA:HB1	2.04	0.57
57:BZ:222:GLY:O	57:BZ:223:ILE:HB	2.04	0.57
57:BZ:267:LEU:HD23	57:BZ:268:ALA:H	1.68	0.57
57:BZ:322:GLU:HB3	57:BZ:582:PRO:HD2	1.86	0.57
57:BZ:488:LEU:HG	57:BZ:526:ILE:N	2.18	0.57
31:AI:54:ALA:N	31:AI:85:ASP:CA	2.60	0.57
56:BD:7:A:C6	56:BD:67:C:N4	2.50	0.57
57:BZ:538:LEU:H	57:BZ:539:THR:CB	2.17	0.57
57:BZ:36:ALA:O	57:BZ:37:GLU:HG2	2.03	0.57
1:AA:1024:G:OP2	1:AA:1025:G:C2	2.58	0.57
1:AA:1105:U:C3'	1:AA:1107:G:C8	2.80	0.57
1:AA:1130:U:O2'	1:AA:1131:G:OP1	2.18	0.57
1:AA:128:C:H2'	1:AA:129:C:C6	2.39	0.57
1:AA:1424:G:H2'	1:AA:1425:G:O5'	2.04	0.57
1:AA:1471:A:C4	1:AA:1521:G:N2	2.72	0.57
1:AA:1472:A:C2'	1:AA:1473:G:C8	2.87	0.57
1:AA:1628:G:H2'	1:AA:1629:U:C6	2.39	0.57
1:AA:1645:G:H5''	1:AA:1646:C:H5'	1.86	0.57
1:AA:1664:A:C2'	1:AA:1665:A:H8	2.18	0.57
1:AA:1855:G:C6	1:AA:1856:G:C5	2.93	0.57
1:AA:414:C:H1'	1:AA:1864:U:C1'	2.32	0.57
1:AA:1928:A:C8	1:AA:1929:G:N3	2.73	0.57
1:AA:1936:A:H1'	1:AA:1940:U:C4	2.39	0.57
1:AA:1679:U:C4'	1:AA:1990:C:O2'	2.53	0.57
1:AA:2000:G:C2	1:AA:2001:A:N7	2.72	0.57
1:AA:2026:C:C2'	1:AA:2027:G:H5'	2.35	0.57
1:AA:2043:C:C5	1:AA:2777:G:H1'	2.39	0.57
1:AA:205:G:O2'	1:AA:206:U:OP2	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2181:G:C2	1:AA:2182:G:O6	2.52	0.57
1:AA:2333:A:N3	1:AA:2333:A:C2'	2.67	0.57
1:AA:2509:G:N2	1:AA:2510:C:H1'	2.18	0.57
1:AA:1939:U:C2'	1:AA:2592:G:HO2'	2.18	0.57
1:AA:2670:A:C6	1:AA:2671:A:C5	2.93	0.57
1:AA:2856:C:O2'	1:AA:2857:G:H5'	2.05	0.57
1:AA:2869:G:C6	1:AA:2870:C:C4	2.92	0.57
1:AA:28:A:H1'	1:AA:513:A:C6	2.36	0.57
1:AA:354:G:H3'	1:AA:354:G:OP2	2.05	0.57
1:AA:386:G:H4'	1:AA:387:U:H5	1.68	0.57
1:AA:564:C:H42	1:AA:578:A:N6	2.02	0.57
1:AA:780:G:N3	1:AA:785:G:O6	2.38	0.57
1:AA:811:U:H6	1:AA:811:U:H3'	1.70	0.57
2:AB:11:C:H3'	22:AX:74:ARG:NH2	2.20	0.57
4:AD:92:ILE:HD11	4:AD:104:TYR:CD1	2.39	0.57
4:AD:155:LEU:HG	4:AD:157:ARG:CZ	2.34	0.57
4:AD:169:GLU:CG	4:AD:184:LYS:NZ	2.68	0.57
4:AD:269:PHE:O	4:AD:270:ILE:HG13	2.05	0.57
4:AD:64:ILE:O	4:AD:64:ILE:CG2	2.53	0.57
5:AE:149:ARG:NH1	5:AE:151:TYR:HA	2.19	0.57
5:AE:171:GLU:OE1	5:AE:172:VAL:HG22	2.05	0.57
5:AE:53:PRO:HD2	5:AE:75:VAL:HG13	1.85	0.57
5:AE:48:GLN:O	5:AE:77:ILE:HG13	2.05	0.57
1:AA:659:C:H5'	6:AF:102:PRO:HD3	1.87	0.57
6:AF:75:HIS:NE2	6:AF:80:ALA:HB3	2.19	0.57
7:AG:36:LYS:NZ	7:AG:160:VAL:HG23	2.20	0.57
7:AG:4:ASP:HB3	7:AG:104:GLU:CD	2.24	0.57
8:AH:88:LEU:HD21	8:AH:90:LYS:HB3	1.87	0.57
9:AK:10:GLU:O	9:AK:12:ARG:NH2	2.38	0.57
9:AK:118:LYS:O	9:AK:121:LYS:HE3	2.03	0.57
9:AK:123:TYR:CG	9:AK:129:PRO:HB2	2.40	0.57
9:AK:95:PRO:HG2	9:AK:96:GLU:H	1.69	0.57
10:AL:65:THR:HA	10:AL:77:ILE:HG13	1.87	0.57
11:AM:72:PRO:HA	11:AM:110:TYR:CD1	2.40	0.57
12:AN:115:MET:HA	12:AN:118:LEU:HD11	1.87	0.57
12:AN:48:GLU:CA	12:AN:51:ARG:HG3	2.33	0.57
1:AA:2850:A:C2	13:AO:61:HIS:CE1	2.93	0.57
15:AQ:7:ILE:O	15:AQ:9:LEU:N	2.37	0.57
16:AR:46:ALA:HA	16:AR:49:HIS:ND1	2.20	0.57
17:AS:13:ARG:O	17:AS:14:VAL:CG2	2.53	0.57
16:AR:89:GLU:OE2	17:AS:52:VAL:HB	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:83:ARG:HD3	17:AS:84:LYS:HA	1.87	0.57
18:AT:5:ALA:CB	18:AT:54:ALA:HB2	2.24	0.57
19:AU:31:HIS:NE2	19:AU:33:LYS:HB3	2.20	0.57
19:AU:62:LYS:HA	19:AU:72:LYS:HB3	1.85	0.57
20:AV:109:GLU:O	20:AV:110:GLU:C	2.42	0.57
20:AV:29:GLU:HB2	20:AV:32:PRO:O	2.03	0.57
20:AV:47:LYS:CE	20:AV:49:VAL:HG11	2.34	0.57
22:AX:46:LYS:HE3	22:AX:76:GLY:HA3	1.87	0.57
23:AY:50:ARG:HB2	23:AY:54:ARG:HH12	1.69	0.57
34:BA:1265:G:C2'	34:BA:1266:G:H5'	2.35	0.57
34:BA:176:C:H2'	34:BA:177:C:H6	1.70	0.57
34:BA:256:U:O5'	34:BA:256:U:H6	1.87	0.57
34:BA:276:G:P	50:BU:14:LYS:HD3	2.44	0.57
34:BA:428:G:O2'	34:BA:429:U:P	2.62	0.57
34:BA:484:G:O4'	34:BA:486:U:C6	2.58	0.57
34:BA:533:A:C6	34:BA:536:C:C4	2.93	0.57
34:BA:571:U:O4	34:BA:865:A:N1	2.37	0.57
34:BA:907:A:C2'	34:BA:908:A:H8	2.16	0.57
34:BA:943:U:H2'	34:BA:944:G:H8	1.70	0.57
3:AC:52:ARG:HD3	55:BC:62:C:H1'	1.85	0.57
56:BE:19:G:C2	56:BE:57:G:C2	2.93	0.57
35:BF:67:THR:OG1	35:BF:155:LEU:HD11	2.04	0.57
35:BF:173:ALA:CA	35:BF:176:GLU:HB2	2.34	0.57
35:BF:87:ARG:NH2	35:BF:219:VAL:HG11	2.19	0.57
37:BH:100:ARG:CZ	37:BH:137:SER:HA	2.34	0.57
37:BH:98:GLU:O	37:BH:103:ASN:HB3	2.04	0.57
37:BH:157:LEU:O	37:BH:158:ILE:C	2.43	0.57
37:BH:26:CYS:O	37:BH:33:MET:SD	2.63	0.57
38:BI:80:ILE:CG2	38:BI:142:LEU:HD21	2.34	0.57
39:BJ:83:ASP:OD1	39:BJ:84:ASN:ND2	2.37	0.57
40:BK:113:GLU:HB2	40:BK:118:VAL:HG11	1.86	0.57
41:BL:38:ILE:CD1	41:BL:118:VAL:HB	2.34	0.57
42:BM:11:LYS:O	42:BM:11:LYS:HG2	2.03	0.57
42:BM:50:LEU:CD2	42:BM:51:ARG:HH12	2.15	0.57
42:BM:26:VAL:HG22	42:BM:61:ALA:CB	2.34	0.57
44:BO:13:GLN:CB	44:BO:76:GLY:HA3	2.34	0.57
44:BO:18:ARG:CA	44:BO:80:VAL:HG23	2.34	0.57
44:BO:23:ALA:CB	44:BO:28:THR:HG23	2.35	0.57
44:BO:66:LEU:C	44:BO:70:LYS:HZ2	2.07	0.57
45:BP:76:ASN:HD22	45:BP:77:LEU:HD23	1.69	0.57
46:BQ:20:THR:HA	46:BQ:25:ILE:HG22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:70:LEU:O	46:BQ:74:VAL:HG23	2.04	0.57
48:BS:39:LEU:HD21	48:BS:56:LEU:HD22	1.85	0.57
52:BW:6:LYS:HB3	52:BW:41:VAL:HG12	1.83	0.57
53:BX:72:LEU:HD22	53:BX:76:ALA:CB	2.34	0.57
57:BZ:89:MET:CE	57:BZ:119:TYR:CD1	2.80	0.57
57:BZ:220:VAL:O	57:BZ:279:LEU:HD21	2.03	0.57
57:BZ:69:ARG:CA	57:BZ:70:ILE:HB	2.31	0.57
1:AA:1579:A:N6	1:AA:1581:G:C2	2.72	0.57
55:BC:15:G:O5'	55:BC:15:G:H8	1.87	0.57
57:BZ:295:GLU:HG3	57:BZ:296:ALA:HA	1.86	0.57
1:AA:1036:G:OP1	8:AH:59:ARG:CZ	2.47	0.57
1:AA:1140:C:H5'	9:AK:65:LYS:NZ	2.19	0.57
1:AA:1310:G:H2'	1:AA:1311:G:O4'	2.05	0.57
1:AA:1353:A:N7	1:AA:1377:G:N2	2.53	0.57
1:AA:1424:G:C2'	1:AA:1425:G:O5'	2.53	0.57
1:AA:1424:G:H5'	1:AA:1499:C:O2'	2.05	0.57
1:AA:1324:G:O2'	1:AA:1616:A:C6	2.54	0.57
1:AA:1782:C:H6	1:AA:1782:C:H3'	1.69	0.57
1:AA:1935:G:C1'	1:AA:1964:G:N2	2.68	0.57
1:AA:1992:G:C1'	1:AA:1993:U:C4	2.88	0.57
1:AA:2227:A:N3	4:AD:262:ARG:NH1	2.53	0.57
1:AA:2289:G:O2'	1:AA:2383:G:H1'	2.05	0.57
1:AA:2371:G:H2'	1:AA:2372:G:O4'	2.03	0.57
1:AA:2507:C:C6	59:AA:3002:8AN:C2'	2.87	0.57
1:AA:2667:C:C6	1:AA:2668:G:C8	2.92	0.57
1:AA:2694:G:O6	1:AA:2695:C:N4	2.38	0.57
1:AA:2719:G:H8	1:AA:2719:G:O5'	1.87	0.57
1:AA:2803:C:C4	1:AA:2804:C:N4	2.73	0.57
1:AA:2824:C:N4	1:AA:2825:C:C2	2.73	0.57
1:AA:303:U:C2'	1:AA:304:G:H5'	2.35	0.57
1:AA:356:G:H3'	1:AA:357:A:C8	2.39	0.57
1:AA:448:U:O4	1:AA:583:G:N3	2.37	0.57
1:AA:643:A:C1'	1:AA:644:A:C8	2.87	0.57
1:AA:643:A:O2'	1:AA:644:A:OP2	2.21	0.57
1:AA:691:C:H1'	4:AD:45:ASN:ND2	2.16	0.57
1:AA:942:G:C2	1:AA:943:U:C4	2.92	0.57
3:AC:77:ILE:CG2	3:AC:123:VAL:HG22	2.29	0.57
4:AD:178:PRO:HG2	4:AD:179:SER:N	2.18	0.57
1:AA:783:A:H3'	4:AD:227:ASN:OD1	2.04	0.57
4:AD:5:LYS:HB3	4:AD:29:PRO:CD	2.31	0.57
6:AF:103:LYS:C	6:AF:106:ARG:HG2	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:50:SER:O	6:AF:92:PRO:HG2	2.04	0.57
7:AG:6:ALA:CA	7:AG:9:ARG:HH21	2.18	0.57
8:AH:6:ARG:CD	8:AH:66:GLY:HA2	2.34	0.57
32:AJ:123:ALA:HA	32:AJ:127:ILE:CD1	2.35	0.57
10:AL:47:ILE:O	10:AL:47:ILE:HG23	2.04	0.57
11:AM:131:SER:OG	11:AM:134:ALA:HB2	2.04	0.57
11:AM:36:LYS:NZ	11:AM:42:SER:CB	2.68	0.57
11:AM:42:SER:O	11:AM:44:GLY:N	2.37	0.57
12:AN:120:ILE:O	12:AN:124:LYS:CG	2.53	0.57
12:AN:52:VAL:O	12:AN:53:ALA:C	2.43	0.57
13:AO:96:ARG:NH2	13:AO:117:VAL:HG23	2.20	0.57
15:AQ:56:GLY:O	15:AQ:61:PHE:CA	2.53	0.57
15:AQ:76:PHE:HZ	15:AQ:78:LEU:CD1	2.18	0.57
1:AA:2848:G:C2'	15:AQ:99:LEU:HD21	2.35	0.57
18:AT:76:VAL:HA	18:AT:104:THR:HG22	1.87	0.57
18:AT:88:ARG:O	18:AT:89:ALA:HB3	2.03	0.57
34:BA:1309:G:C8	34:BA:1330:U:C2	2.93	0.57
34:BA:944:G:N2	34:BA:1339:A:H62	1.86	0.57
34:BA:1362(A):C:H5'	34:BA:1363:A:P	2.45	0.57
34:BA:1488:G:C2	34:BA:1489:G:C5	2.93	0.57
34:BA:225:C:H2'	34:BA:226:G:O5'	2.05	0.57
34:BA:330:C:H2'	34:BA:331:G:H8	1.70	0.57
34:BA:413:G:H22	34:BA:428:G:C2'	2.17	0.57
34:BA:564:C:N3	50:BU:31:LEU:HD11	2.20	0.57
34:BA:744:C:O2'	34:BA:851:G:N2	2.37	0.57
34:BA:872:A:C5	34:BA:874:G:N7	2.73	0.57
34:BA:900:A:C2'	34:BA:901:A:O5'	2.52	0.57
34:BA:932:C:H5''	40:BK:3:ARG:HB3	1.87	0.57
34:BA:973:G:C1'	43:BN:55:LYS:H	2.15	0.57
56:BE:4:C:C6	56:BE:6:G:C6	2.93	0.57
35:BF:57:PHE:HD2	35:BF:57:PHE:O	1.88	0.57
36:BG:24:ALA:HB2	36:BG:32:LEU:CD1	2.35	0.57
37:BH:110:PHE:CZ	37:BH:147:ALA:CB	2.87	0.57
37:BH:169:LYS:CG	37:BH:176:LEU:HD21	2.34	0.57
37:BH:18:LYS:C	37:BH:20:TYR:H	2.06	0.57
39:BJ:75:LEU:O	39:BJ:78:GLU:N	2.38	0.57
40:BK:75:VAL:HG12	40:BK:76:ARG:N	2.19	0.57
34:BA:1347:G:C8	42:BM:107:ARG:CB	2.81	0.57
46:BQ:16:ASP:HB2	46:BQ:30:ALA:CB	2.33	0.57
46:BQ:14:ARG:CB	46:BQ:41:PRO:HA	2.35	0.57
50:BU:34:LYS:HD2	50:BU:35:VAL:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:53:ARG:NH2	51:BV:60:ALA:N	2.50	0.57
52:BW:64:GLU:O	52:BW:67:VAL:HG23	2.03	0.57
53:BX:89:ARG:HH21	53:BX:104:LEU:HD22	1.70	0.57
57:BZ:2:ILE:HG23	57:BZ:268:ALA:CA	2.33	0.57
57:BZ:488:LEU:CD2	57:BZ:527:HIS:N	2.67	0.57
42:BM:99:LEU:N	42:BM:99:LEU:HD22	2.20	0.57
1:AA:1005:C:O2	9:AK:28:THR:CB	2.47	0.57
1:AA:1028:A:N6	1:AA:1126:A:C8	2.73	0.57
1:AA:1053:C:C4	1:AA:1054:A:N6	2.73	0.57
1:AA:1000:A:N6	1:AA:1155:A:H5'	2.19	0.57
1:AA:1177:A:C2	1:AA:1178:C:C2	2.93	0.57
1:AA:1199:U:OP2	1:AA:1199:U:C6	2.58	0.57
1:AA:1200:C:C2	1:AA:1201:C:C5	2.91	0.57
1:AA:1304:C:OP1	1:AA:1642:G:O2'	2.23	0.57
1:AA:1399:C:H2'	1:AA:1400:G:H8	1.70	0.57
1:AA:1526:G:N2	1:AA:1546:C:C4	2.72	0.57
1:AA:1609:A:H1'	1:AA:1616:A:H4'	1.85	0.57
1:AA:1652:A:H62	1:AA:1653:G:H21	1.50	0.57
1:AA:1670:C:H2'	1:AA:1671:U:H5'	1.85	0.57
1:AA:173:G:N2	1:AA:174:C:C2	2.73	0.57
1:AA:1906:G:O2'	1:AA:1907:G:H5'	2.04	0.57
1:AA:1971:A:C2	4:AD:239:ARG:HB3	2.39	0.57
1:AA:1971:A:N3	4:AD:239:ARG:HA	2.20	0.57
1:AA:2047:U:O2'	1:AA:2048:G:H5'	2.04	0.57
1:AA:2062:A:H2'	1:AA:2063:C:OP1	2.05	0.57
1:AA:2168:G:C2	1:AA:2170:A:H3'	2.40	0.57
1:AA:2227:A:C5	1:AA:2228:G:C8	2.92	0.57
1:AA:2290:G:C2	1:AA:2291:U:C2	2.92	0.57
1:AA:239:U:H1'	1:AA:259:G:H22	1.68	0.57
1:AA:245:G:N2	1:AA:254:G:C1'	2.68	0.57
1:AA:246:C:C2	1:AA:247:G:C8	2.93	0.57
1:AA:2519:U:C6	1:AA:2542:A:N1	2.72	0.57
1:AA:2653:U:C4	1:AA:2669:G:N2	2.70	0.57
1:AA:2729:G:C2'	1:AA:2730:C:H5'	2.35	0.57
1:AA:2790:A:H4'	1:AA:2791:C:H5''	1.84	0.57
1:AA:2807:G:N3	1:AA:2808:U:H5	1.78	0.57
1:AA:364:C:C2'	1:AA:365:C:C5	2.80	0.57
1:AA:448:U:C2'	1:AA:449:A:OP1	2.53	0.57
1:AA:448:U:O2'	1:AA:449:A:OP1	2.23	0.57
1:AA:548:A:N7	1:AA:549:G:H1'	2.20	0.57
1:AA:608:A:H61	1:AA:619:G:H2'	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:650:C:O2	1:AA:651:G:O4'	2.23	0.57
1:AA:672:C:C6	11:AM:38:GLN:OE1	2.57	0.57
1:AA:819:A:H2'	1:AA:820:A:H8	1.68	0.57
1:AA:892:G:C2	1:AA:893:C:N4	2.73	0.57
1:AA:920:G:C2	1:AA:921:G:C8	2.91	0.57
2:AB:116:G:C6	2:AB:117:G:C4	2.93	0.57
2:AB:37:C:N3	2:AB:49:C:O4'	2.38	0.57
3:AC:68:LEU:HD22	3:AC:156:ILE:O	2.04	0.57
5:AE:102:VAL:HA	5:AE:202:LYS:HZ2	1.69	0.57
6:AF:71:GLY:O	6:AF:73:ALA:N	2.31	0.57
7:AG:165:THR:HB	7:AG:168:GLU:CD	2.25	0.57
7:AG:19:LEU:HA	7:AG:22:ARG:NE	2.19	0.57
8:AH:95:ARG:N	8:AH:95:ARG:HD2	2.20	0.57
1:AA:1055:G:O3'	31:AI:34:ALA:N	2.36	0.57
32:AJ:51:ALA:C	32:AJ:72:PRO:HB2	2.20	0.57
9:AK:13:TRP:HA	9:AK:51:PHE:O	2.04	0.57
12:AN:75:THR:HB	12:AN:77:LYS:CE	2.35	0.57
12:AN:75:THR:CG2	12:AN:77:LYS:H	2.14	0.57
12:AN:9:TYR:H	12:AN:9:TYR:HD2	1.52	0.57
13:AO:110:PRO:C	13:AO:111:LEU:HD23	2.26	0.57
14:AP:96:GLY:O	14:AP:99:LYS:N	2.38	0.57
15:AQ:82:LEU:C	15:AQ:84:GLN:H	2.09	0.57
16:AR:45:TYR:HB3	16:AR:49:HIS:CE1	2.40	0.57
16:AR:52:ARG:O	16:AR:54:LYS:N	2.38	0.57
16:AR:88:ILE:CG2	17:AS:55:ALA:HB3	2.33	0.57
18:AT:8:ARG:C	18:AT:102:HIS:CD2	2.77	0.57
18:AT:65:LEU:O	18:AT:68:ARG:HG2	2.05	0.57
18:AT:76:VAL:CG2	18:AT:77:ASP:N	2.68	0.57
19:AU:12:VAL:HG22	19:AU:29:TRP:CE2	2.39	0.57
19:AU:63:LYS:HE2	19:AU:63:LYS:CA	2.35	0.57
22:AX:44:ARG:HH21	22:AX:77:ARG:NH1	2.02	0.57
34:BA:1180:A:OP1	42:BM:102:LEU:CD1	2.48	0.57
34:BA:1204:A:H2'	34:BA:1205:U:H5'	1.87	0.57
34:BA:129(A):G:N2	34:BA:191(A):G:N7	2.50	0.57
34:BA:1376:U:H2'	34:BA:1377:A:N7	2.19	0.57
34:BA:1405:G:C6	34:BA:1497:G:O6	2.56	0.57
34:BA:325:A:N7	34:BA:326:G:C6	2.72	0.57
34:BA:358:U:H2'	34:BA:359:U:C6	2.39	0.57
34:BA:47:C:O2'	34:BA:48:C:OP2	2.19	0.57
34:BA:438:G:H21	34:BA:495:A:H8	1.46	0.57
34:BA:51:A:HO2'	34:BA:52:G:P	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:572:A:O5'	34:BA:573:A:P	2.62	0.57
34:BA:597:G:O2'	34:BA:598:U:H5'	2.05	0.57
34:BA:754:C:C2'	34:BA:755:G:OP1	2.53	0.57
34:BA:769:G:H5'	34:BA:1513:A:C4'	2.34	0.57
34:BA:778:G:N3	34:BA:779:C:C6	2.73	0.57
34:BA:889:A:H5''	34:BA:890:G:OP1	2.05	0.57
35:BF:182:ILE:H	35:BF:182:ILE:CD1	2.16	0.57
35:BF:162:ILE:O	35:BF:185:ILE:CD1	2.53	0.57
35:BF:208:ILE:HG13	35:BF:211:ILE:HD12	1.87	0.57
36:BG:157:ILE:O	36:BG:159:GLY:N	2.38	0.57
36:BG:21:ARG:HD2	36:BG:58:GLU:OE2	2.04	0.57
34:BA:409:G:OP2	37:BH:22:LYS:HG2	2.04	0.57
34:BA:932:C:H5''	40:BK:3:ARG:CB	2.35	0.57
41:BL:67:PRO:HD2	41:BL:76:PRO:HB3	1.85	0.57
42:BM:113:LYS:HZ2	42:BM:119:ALA:CB	2.17	0.57
34:BA:1248:A:O2'	42:BM:36:TYR:CE1	2.57	0.57
34:BA:1125:U:H5''	43:BN:38:ILE:HG21	1.86	0.57
34:BA:1059:C:O2'	43:BN:53:PRO:HD3	2.04	0.57
34:BA:685:G:H4'	44:BO:40:ILE:O	2.05	0.57
45:BP:88:GLY:O	45:BP:90:VAL:HG23	2.04	0.57
48:BS:63:ARG:NH2	48:BS:87:ILE:HG21	2.18	0.57
48:BS:70:LEU:O	48:BS:74:ASP:O	2.23	0.57
50:BU:10:VAL:CG2	50:BU:55:ASP:HB2	2.33	0.57
34:BA:1225:A:C2'	52:BW:80:TYR:HB2	2.35	0.57
54:BY:12:LYS:HG3	54:BY:17:THR:OG1	2.05	0.57
57:BZ:26:LEU:C	57:BZ:27:GLN:HG2	2.25	0.57
57:BZ:325:PHE:HA	57:BZ:330:GLN:CD	2.24	0.57
57:BZ:61:THR:O	57:BZ:62:ALA:HB2	2.05	0.57
56:BD:1:G:C5	56:BD:2:C:N4	2.73	0.57
56:BD:4:C:C2	56:BD:70:G:C2	2.93	0.57
1:AA:884:C:H1'	1:AA:885:C:P	2.45	0.57
34:BA:1022:G:N3	34:BA:1022:G:H2'	2.18	0.57
37:BH:151:LYS:HD2	37:BH:151:LYS:N	2.20	0.57
1:AA:1020:A:O2'	1:AA:1021:A:C8	2.58	0.57
1:AA:1139:G:O5'	1:AA:1139:G:H8	1.88	0.57
1:AA:1168:G:C6	1:AA:1182:A:N1	2.72	0.57
1:AA:1173:G:N2	1:AA:1175:U:OP1	2.37	0.57
1:AA:1183:G:H1'	1:AA:1184:G:N7	2.18	0.57
1:AA:1302:A:C5'	1:AA:1303:G:OP2	2.50	0.57
1:AA:1343:G:N2	1:AA:1405:U:H1'	2.19	0.57
1:AA:1360:A:N6	1:AA:1371:G:H1'	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1451:C:H5''	1:AA:1453:A:O2'	2.05	0.57
1:AA:1699:G:H2'	1:AA:1763:G:H22	1.70	0.57
1:AA:1773:A:C5	1:AA:1774:C:O2	2.57	0.57
1:AA:179:G:H3'	1:AA:180:G:H8	1.70	0.57
1:AA:1920:C:O2'	1:AA:1921:G:O5'	2.22	0.57
1:AA:197:A:C2	1:AA:198:C:H1'	2.40	0.57
1:AA:1993:U:N1	1:AA:1994:C:C5	2.73	0.57
1:AA:2075:U:O2	1:AA:2075:U:H2'	2.05	0.57
1:AA:2169:A:O2'	55:BC:56:C:C5'	2.52	0.57
1:AA:2171:A:O2'	1:AA:2172:U:O5'	2.22	0.57
1:AA:2232:U:C2'	1:AA:2233:U:H5'	2.33	0.57
1:AA:2531:A:O2'	1:AA:2532:G:H5'	2.05	0.57
1:AA:2602:A:C2	22:AX:1:MET:HA	2.40	0.57
1:AA:26:G:N2	1:AA:27:G:N2	2.53	0.57
1:AA:2716:U:H2'	1:AA:2717:G:H8	1.68	0.57
1:AA:2834:G:H8	1:AA:2834:G:H3'	1.69	0.57
1:AA:516:C:H2'	1:AA:517:C:C6	2.39	0.57
1:AA:565:C:O3'	1:AA:1253:A:C2	2.58	0.57
1:AA:629:G:H1'	1:AA:639:U:HO2'	1.69	0.57
1:AA:673:C:C2'	1:AA:674:G:C5'	2.80	0.57
1:AA:786:C:C5'	1:AA:1780:A:C8	2.88	0.57
1:AA:803:U:O2'	1:AA:804:A:H5'	2.05	0.57
1:AA:816:C:H5'	1:AA:816:C:C6	2.35	0.57
4:AD:151:LYS:O	4:AD:152:GLY:O	2.23	0.57
1:AA:1788:C:C2'	4:AD:222:ARG:HE	2.18	0.57
4:AD:260:ARG:NH1	4:AD:260:ARG:CG	2.66	0.57
4:AD:5:LYS:HD2	4:AD:81:ALA:HB1	1.85	0.57
5:AE:113:PHE:CA	5:AE:158:GLY:HA2	2.35	0.57
5:AE:173:VAL:HG13	5:AE:183:LEU:O	2.05	0.57
5:AE:109:LYS:CA	5:AE:191:PRO:HD3	2.34	0.57
5:AE:53:PRO:CD	5:AE:75:VAL:HG13	2.34	0.57
1:AA:2636:U:O3'	5:AE:79:ARG:NH2	2.38	0.57
6:AF:194:MET:SD	6:AF:200:GLU:HG2	2.44	0.57
1:AA:2466:C:H5''	6:AF:5:ALA:HB1	120.41	0.57
7:AG:142:PRO:C	7:AG:143:GLU:HG2	2.25	0.57
8:AH:118:PRO:CD	8:AH:121:ILE:HG21	2.35	0.57
32:AJ:107:ILE:O	32:AJ:108:ALA:HB2	2.05	0.57
32:AJ:52:ILE:HD13	32:AJ:73:PRO:HG2	1.87	0.57
10:AL:23:ARG:CD	10:AL:23:ARG:N	2.67	0.57
10:AL:39:ILE:CD1	10:AL:39:ILE:N	2.66	0.57
10:AL:3:GLN:OE1	10:AL:6:THR:HG21	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:8:LEU:HD22	10:AL:81:ASP:O	2.05	0.57
11:AM:123:LEU:HD12	11:AM:130:PHE:CE2	2.40	0.57
12:AN:104:PHE:O	12:AN:105:GLU:CD	2.43	0.57
12:AN:120:ILE:O	12:AN:121:ALA:C	2.43	0.57
13:AO:38:VAL:CB	13:AO:39:PRO:CD	2.77	0.57
13:AO:79:LEU:HD23	13:AO:80:PHE:H	1.59	0.57
14:AP:68:GLN:O	14:AP:69:VAL:C	2.42	0.57
14:AP:76:LYS:CG	14:AP:77:ALA:N	2.68	0.57
14:AP:95:HIS:CG	14:AP:96:GLY:N	2.73	0.57
15:AQ:45:PHE:HE1	15:AQ:86:ILE:HG22	1.70	0.57
15:AQ:55:ASN:O	15:AQ:57:PHE:HE2	1.87	0.57
15:AQ:32:TYR:CD2	15:AQ:88:ILE:HA	2.40	0.57
16:AR:49:HIS:HA	16:AR:52:ARG:NE	2.20	0.57
16:AR:84:LYS:HE2	16:AR:84:LYS:N	2.20	0.57
16:AR:93:LYS:CA	16:AR:93:LYS:NZ	2.60	0.57
17:AS:12:TYR:HE1	17:AS:14:VAL:HB	1.69	0.57
17:AS:18:LEU:HD23	17:AS:18:LEU:N	2.12	0.57
17:AS:67:GLY:O	17:AS:92:THR:OG1	2.23	0.57
17:AS:7:THR:O	17:AS:9:GLY:N	2.38	0.57
17:AS:77:ALA:O	17:AS:84:LYS:HA	2.05	0.57
20:AV:37:VAL:HG13	20:AV:39:VAL:HB	1.85	0.57
24:AZ:45:GLY:HA2	24:AZ:48:GLU:OE1	2.04	0.57
34:BA:1110:A:C5	34:BA:1111:A:N7	2.73	0.57
34:BA:1155:G:H2'	34:BA:1156:G:C8	2.40	0.57
34:BA:1164:G:C6	34:BA:1165:C:N4	2.73	0.57
34:BA:1219:U:O3'	52:BW:34:TRP:CE2	2.33	0.57
34:BA:1313:U:N3	34:BA:1325:C:C2	2.72	0.57
34:BA:1494:G:H3'	34:BA:1494:G:P	2.43	0.57
34:BA:173:U:H4'	34:BA:197:A:N3	2.20	0.57
34:BA:263:A:O5'	34:BA:263:A:H8	1.87	0.57
34:BA:251:G:C2	34:BA:266:G:C6	2.93	0.57
34:BA:33:A:O2'	34:BA:363:A:H1'	2.05	0.57
34:BA:509:A:C5	34:BA:510:A:C6	2.92	0.57
34:BA:55:A:C2'	34:BA:56:U:C5'	2.80	0.57
34:BA:597:G:C2'	34:BA:598:U:H5'	2.35	0.57
34:BA:696:A:N3	34:BA:786:G:O2'	2.35	0.57
34:BA:697:U:C2'	34:BA:698:G:C8	2.84	0.57
34:BA:993:G:O2'	34:BA:994:A:P	2.63	0.57
35:BF:20:GLU:N	35:BF:20:GLU:OE1	2.38	0.57
37:BH:170:VAL:CG1	37:BH:174:LEU:HB2	2.34	0.57
37:BH:166:LYS:HA	37:BH:178:VAL:HG11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:9:VAL:HG13	39:BJ:59:TYR:O	2.05	0.57
40:BK:43:PHE:HD2	40:BK:44:TYR:CD2	2.23	0.57
41:BL:40:ALA:N	41:BL:45:ILE:CG2	2.68	0.57
41:BL:46:LYS:HE3	41:BL:64:LYS:CG	2.27	0.57
42:BM:11:LYS:H	42:BM:104:ARG:HH21	1.51	0.57
42:BM:65:VAL:HG21	42:BM:77:ILE:HD11	1.85	0.57
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:HD13	2.40	0.57
47:BR:19:ARG:O	47:BR:20:ALA:C	2.44	0.57
34:BA:136:C:O4'	49:BT:1:MET:HE1	2.05	0.57
34:BA:112:G:OP2	49:BT:27:LYS:HD3	2.05	0.57
52:BW:21:GLU:O	52:BW:24:ALA:CB	2.52	0.57
53:BX:56:MET:SD	53:BX:84:LEU:CD1	2.92	0.57
57:BZ:220:VAL:HG21	57:BZ:279:LEU:HB2	1.71	0.57
57:BZ:228:ARG:CA	57:BZ:267:LEU:CD1	2.83	0.57
57:BZ:309:MET:HE1	57:BZ:366:LEU:HB3	1.86	0.57
57:BZ:380:LEU:H	57:BZ:580:VAL:CG2	2.18	0.57
57:BZ:566:GLU:O	57:BZ:567:GLN:HB2	2.04	0.57
55:BC:38:A:C2	55:BC:39:U:C6	2.93	0.57
1:AA:1038:C:C4'	1:AA:1039:G:OP1	2.53	0.57
1:AA:1039:G:N2	1:AA:1040:C:C2	2.73	0.57
57:BZ:411:HIS:CD2	57:BZ:459:THR:HG22	2.39	0.57
1:AA:1080:C:C1'	32:AJ:129:GLY:CA	2.83	0.56
1:AA:1174:A:N3	1:AA:1175:U:H5''	2.19	0.56
1:AA:1210:A:H1'	1:AA:1212:G:H21	1.69	0.56
1:AA:1496:A:N3	1:AA:1496:A:H2'	2.18	0.56
1:AA:1702:G:C5	1:AA:1703:G:N7	2.72	0.56
1:AA:1759:A:C2'	1:AA:1760:A:O5'	2.52	0.56
1:AA:1833:U:O2'	1:AA:1834:U:OP1	2.14	0.56
1:AA:2210:G:O2'	1:AA:2211:G:P	2.63	0.56
1:AA:2291:U:C2	1:AA:2292:C:C5	2.92	0.56
1:AA:2332:U:O4'	1:AA:2336:A:N6	2.37	0.56
1:AA:2346:A:H4'	1:AA:2383:G:O4'	2.05	0.56
1:AA:2438:U:O2	1:AA:2441:C:C5	2.58	0.56
1:AA:2519:U:OP1	1:AA:2519:U:H3'	2.05	0.56
1:AA:2527:C:H2'	1:AA:2528:U:C6	2.40	0.56
1:AA:2556:C:N3	57:BZ:546:MET:HE3	2.05	0.56
1:AA:2585:U:C6	1:AA:2585:U:OP1	2.58	0.56
1:AA:2596:U:O4	1:AA:2597:G:N1	2.38	0.56
1:AA:2772:C:H2'	1:AA:2772:C:O2	2.03	0.56
1:AA:2810:A:H2'	1:AA:2811:G:H5'	1.87	0.56
1:AA:2845:G:O2'	1:AA:2846:G:O5'	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:351:G:O2'	1:AA:352:G:C8	2.56	0.56
1:AA:270:A:N6	1:AA:370:G:C8	2.73	0.56
1:AA:526:A:C2	1:AA:2626:C:O4'	2.58	0.56
1:AA:573:G:C2'	1:AA:574:C:O5'	2.53	0.56
1:AA:580:C:C2	1:AA:581:C:C5	2.92	0.56
1:AA:64:A:H5''	19:AU:73:ARG:HA	1.86	0.56
1:AA:754:C:O2'	1:AA:755:C:H5'	2.05	0.56
1:AA:772:C:H2'	1:AA:773:U:H6	1.70	0.56
1:AA:800:A:HO2'	1:AA:801:G:P	2.28	0.56
1:AA:867:C:N4	1:AA:868:U:C4	2.73	0.56
1:AA:903:C:C4	1:AA:904:C:N4	2.73	0.56
1:AA:972:G:OP1	1:AA:974(A):C:C5'	2.47	0.56
1:AA:973:A:O2'	1:AA:974:G:C5'	2.53	0.56
2:AB:51:G:OP1	14:AP:60:GLY:C	2.44	0.56
3:AC:108:MET:HE1	3:AC:130:ILE:HG22	1.86	0.56
4:AD:14:ARG:C	4:AD:15:PHE:CD1	2.79	0.56
1:AA:1791:A:H4'	4:AD:206:LEU:CD2	2.34	0.56
4:AD:78:LYS:HA	4:AD:115:GLN:O	2.04	0.56
5:AE:13:ARG:HE	5:AE:21:VAL:CA	2.18	0.56
5:AE:59:VAL:HG12	5:AE:62:PRO:HD2	1.86	0.56
6:AF:109:GLY:C	6:AF:111:ALA:N	2.57	0.56
1:AA:2309:A:N7	7:AG:80:PHE:CZ	2.73	0.56
8:AH:35:VAL:HG21	8:AH:75:ALA:CB	2.34	0.56
32:AJ:108:ALA:HA	32:AJ:109:LYS:C	2.25	0.56
9:AK:4:TYR:CZ	16:AR:101:ARG:CZ	2.88	0.56
9:AK:51:PHE:CE1	9:AK:119:ARG:NE	2.73	0.56
9:AK:89:LYS:HE3	9:AK:89:LYS:H	1.63	0.56
10:AL:76:ALA:HB1	10:AL:78:ARG:HH22	1.70	0.56
1:AA:2394:C:OP1	11:AM:57:THR:CA	2.52	0.56
11:AM:58:THR:HG22	11:AM:60:MET:H	1.69	0.56
11:AM:88:LEU:CD2	11:AM:124:LYS:HZ1	2.18	0.56
12:AN:67:ARG:NH2	12:AN:103:MET:C	2.58	0.56
12:AN:6:ARG:O	12:AN:7:MET:HG2	2.05	0.56
12:AN:16:ARG:HG2	12:AN:73:PRO:CD	2.34	0.56
16:AR:108:GLU:OE1	16:AR:109:LEU:CG	2.51	0.56
16:AR:57:PHE:O	16:AR:58:ARG:C	2.43	0.56
16:AR:63:VAL:O	16:AR:65:ILE:N	2.38	0.56
16:AR:68:ALA:O	16:AR:72:HIS:ND1	2.38	0.56
16:AR:80:ILE:HA	16:AR:83:LEU:HD13	1.87	0.56
17:AS:28:GLU:N	17:AS:29:PRO:CD	2.67	0.56
17:AS:3:ALA:HA	17:AS:44:LYS:NZ	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:36:PRO:CA	17:AS:60:GLU:O	2.43	0.56
17:AS:65:GLY:CA	17:AS:97:LYS:HZ1	2.18	0.56
18:AT:34:ASN:ND2	18:AT:37:ARG:NH1	2.53	0.56
19:AU:24:GLY:O	19:AU:83:VAL:HG22	2.04	0.56
20:AV:32:PRO:O	20:AV:34:LYS:N	2.37	0.56
20:AV:69:ALA:HB3	20:AV:71:LYS:NZ	2.19	0.56
21:AW:76:LEU:HD23	21:AW:82:ARG:O	2.04	0.56
34:BA:1003:G:N7	34:BA:1004:A:N3	2.52	0.56
34:BA:1039:C:H2'	34:BA:1040:U:H6	1.70	0.56
34:BA:1106:G:C4	34:BA:1107:C:C5	2.93	0.56
34:BA:1216:G:C4	34:BA:1217:C:C5	2.93	0.56
34:BA:1241:G:H8	34:BA:1241:G:OP2	1.88	0.56
34:BA:1257:U:O2'	34:BA:1258:G:C8	2.57	0.56
34:BA:1346:A:C2	40:BK:10:ARG:CD	2.87	0.56
15:AQ:112:ARG:NH2	34:BA:1464:G:H3'	2.20	0.56
34:BA:173:U:C5'	34:BA:197:A:O2'	2.53	0.56
34:BA:22:G:C4	34:BA:23:C:C5	2.93	0.56
34:BA:308:C:C2'	34:BA:309:G:O5'	2.53	0.56
34:BA:521:G:OP2	45:BP:54:LYS:NZ	2.38	0.56
34:BA:528:C:H42	45:BP:49:ASN:ND2	2.01	0.56
34:BA:970:C:H4'	34:BA:972:C:C5	2.40	0.56
35:BF:157:ARG:O	35:BF:158:LEU:HG	2.05	0.56
35:BF:50:GLU:CG	35:BF:200:ILE:O	2.42	0.56
35:BF:16:HIS:NE2	35:BF:213:LEU:HB3	2.20	0.56
36:BG:107:GLN:OE1	36:BG:111:LEU:HD22	2.05	0.56
37:BH:144:ASP:HA	37:BH:184:LYS:HZ2	1.68	0.56
38:BI:72:GLN:HE21	38:BI:144:THR:HG23	1.70	0.56
38:BI:50:GLU:HB2	38:BI:53:LEU:HD23	1.86	0.56
39:BJ:36:ARG:NH1	39:BJ:36:ARG:HB2	2.20	0.56
40:BK:109:ASN:O	40:BK:119:ARG:NE	2.38	0.56
40:BK:36:LYS:HZ1	40:BK:36:LYS:HA	1.68	0.56
41:BL:5:PRO:O	41:BL:6:ILE:C	2.42	0.56
42:BM:32:ASP:CG	42:BM:33:PHE:N	2.58	0.56
42:BM:78:LYS:HD3	42:BM:79:LEU:HD22	1.87	0.56
44:BO:73:MET:HE2	44:BO:103:LEU:HD22	1.87	0.56
45:BP:102:ARG:HD3	45:BP:110:VAL:HG13	1.87	0.56
45:BP:23:LYS:CA	45:BP:23:LYS:HE3	2.15	0.56
47:BR:33:VAL:O	47:BR:34:TYR:O	2.23	0.56
47:BR:41:ARG:HA	47:BR:44:LEU:CD2	2.35	0.56
49:BT:58:TYR:CD1	49:BT:59:TRP:N	2.73	0.56
49:BT:7:ALA:HB3	49:BT:18:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:45:SER:N	51:BV:51:LEU:HD21	2.20	0.56
53:BX:79:ARG:O	53:BX:80:ARG:C	2.42	0.56
57:BZ:172:ALA:CB	57:BZ:179:MET:SD	2.79	0.56
57:BZ:228:ARG:HA	57:BZ:267:LEU:HD13	1.87	0.56
57:BZ:303:ASP:C	57:BZ:346:ARG:NH2	2.59	0.56
1:AA:2660:A:N3	57:BZ:456:MET:O	2.37	0.56
56:BD:15:G:H22	56:BD:59:U:H3	1.52	0.56
31:AI:47:ASN:O	31:AI:95:GLN:CB	2.53	0.56
1:AA:1511:A:H8	1:AA:1511:A:H3'	1.70	0.56
1:AA:2111:C:N4	1:AA:2145:C:C5	2.73	0.56
34:BA:511:C:O2'	34:BA:512:U:O4'	2.23	0.56
31:AI:135:ARG:O	31:AI:137:GLU:N	2.35	0.56
45:BP:16:GLU:O	45:BP:17:LYS:HB3	2.04	0.56
3:AC:141:LYS:HG3	3:AC:141:LYS:O	2.05	0.56
57:BZ:449:ILE:C	57:BZ:451:PHE:H	2.08	0.56
1:AA:1024:G:C3'	1:AA:1025:G:H5''	2.35	0.56
1:AA:1045:A:O4'	1:AA:1111:A:N1	2.38	0.56
1:AA:1298:C:O2'	1:AA:1302:A:C8	2.58	0.56
1:AA:147:U:H2'	1:AA:148:C:C6	2.39	0.56
1:AA:149:A:C8	1:AA:150:C:C6	2.93	0.56
1:AA:1523:U:N3	1:AA:1524:G:N7	2.54	0.56
1:AA:1676:A:C8	1:AA:1677:A:N7	2.73	0.56
1:AA:1696:G:C6	1:AA:1697:G:C2	2.93	0.56
1:AA:172:C:N1	1:AA:173:G:N7	2.52	0.56
1:AA:1749:A:O2'	1:AA:1750:G:H5'	2.05	0.56
1:AA:1780:A:C2'	1:AA:1781:C:OP1	2.52	0.56
1:AA:1838:C:C5	1:AA:1899:G:C6	2.93	0.56
1:AA:1840:G:O2'	1:AA:1841:U:H5'	2.05	0.56
1:AA:1950:G:N7	1:AA:1951:U:H5	2.01	0.56
1:AA:1955:U:O3'	1:AA:1956:U:C5	2.58	0.56
1:AA:1999:C:N3	1:AA:2000:G:C8	2.73	0.56
1:AA:2013:A:H2'	1:AA:2014:A:O5'	2.04	0.56
1:AA:2053:G:H2'	1:AA:2054:A:O5'	2.05	0.56
1:AA:2197:U:H1'	1:AA:2198:A:C2	2.39	0.56
1:AA:2206:C:C2	1:AA:2207:C:C5	2.92	0.56
1:AA:2283:C:N3	1:AA:2389:G:N2	2.53	0.56
1:AA:2384:G:O2'	1:AA:2385:C:OP1	2.19	0.56
1:AA:2416:C:H5''	11:AM:59:LEU:CB	2.10	0.56
1:AA:569:U:O4	1:AA:2498:C:H4'	2.05	0.56
1:AA:2479:G:H5''	1:AA:2537:U:H4'	1.86	0.56
1:AA:2673:G:N2	1:AA:2674:G:C5	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2691:C:O4'	1:AA:2872:G:O6	2.23	0.56
1:AA:270(V):G:C6	1:AA:270(W):G:O6	2.57	0.56
1:AA:2711:A:N6	1:AA:2714:G:C5	2.74	0.56
1:AA:2714:G:C6	1:AA:2715:C:N4	2.73	0.56
1:AA:2748:A:C6	1:AA:2757:A:N6	2.72	0.56
1:AA:2762:G:N7	1:AA:2763:G:N7	2.53	0.56
1:AA:2793:G:N2	1:AA:2803:C:C2	2.73	0.56
1:AA:308:G:C2	1:AA:329:G:N2	2.73	0.56
1:AA:392:C:C5'	1:AA:409:C:H5''	2.34	0.56
1:AA:629:G:H5'	1:AA:649:G:N3	2.20	0.56
1:AA:728:G:H21	1:AA:730:C:C5'	2.18	0.56
1:AA:763:G:C4	1:AA:765:G:C8	2.93	0.56
1:AA:820:A:N1	1:AA:821:A:N3	2.53	0.56
1:AA:821:A:H8	1:AA:946:G:C5	2.22	0.56
2:AB:14:U:C1'	2:AB:107:U:H1'	2.34	0.56
2:AB:9:G:N2	2:AB:10:C:C2	2.73	0.56
1:AA:2125:G:C3'	3:AC:217:THR:OG1	2.53	0.56
4:AD:172:TYR:HD2	4:AD:186:HIS:N	2.03	0.56
1:AA:1791:A:O3'	4:AD:206:LEU:CD2	2.52	0.56
4:AD:55:GLY:N	4:AD:218:ARG:HD3	2.20	0.56
4:AD:64:ILE:O	4:AD:64:ILE:HG23	2.06	0.56
5:AE:111:ARG:HB2	5:AE:161:GLY:CA	2.35	0.56
5:AE:122:PHE:CD1	5:AE:122:PHE:N	2.72	0.56
5:AE:33:VAL:HG23	5:AE:34:VAL:HG23	1.87	0.56
7:AG:8:LYS:HB2	7:AG:104:GLU:HB2	1.87	0.56
8:AH:127:GLU:HB3	8:AH:129:THR:N	2.20	0.56
8:AH:133:VAL:HG22	8:AH:134:SER:H	1.70	0.56
8:AH:167:GLU:C	8:AH:169:VAL:H	2.08	0.56
8:AH:54:ARG:HH11	8:AH:57:ASP:CB	2.18	0.56
8:AH:69:ARG:CG	8:AH:70:THR:H	2.18	0.56
8:AH:69:ARG:CG	8:AH:70:THR:N	2.68	0.56
8:AH:74:ASN:ND2	8:AH:75:ALA:N	2.53	0.56
31:AI:59:ILE:C	31:AI:61:LEU:H	2.09	0.56
1:AA:1081:U:C4'	32:AJ:125:ARG:CD	2.82	0.56
9:AK:62:VAL:C	9:AK:64:GLY:H	2.07	0.56
1:AA:1952:A:C2	10:AL:22:ILE:HG12	2.39	0.56
11:AM:97:PRO:CA	11:AM:102:ARG:CZ	2.83	0.56
13:AO:65:LEU:O	13:AO:68:ARG:N	2.38	0.56
13:AO:74:LYS:CA	13:AO:77:ARG:HH22	2.17	0.56
14:AP:42:ASP:OD2	14:AP:43:GLU:N	2.38	0.56
14:AP:42:ASP:OD1	14:AP:44:LYS:HD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:76:PHE:HZ	15:AQ:78:LEU:HD12	1.70	0.56
16:AR:61:TRP:HZ3	16:AR:94:ASN:N	2.04	0.56
16:AR:47:TYR:CZ	17:AS:76:LYS:O	2.59	0.56
19:AU:26:TYR:HB2	19:AU:28:PHE:HZ	1.70	0.56
21:AW:176:PRO:HB2	21:AW:179:ASP:N	2.19	0.56
21:AW:1:MET:HE1	21:AW:2:GLU:O	2.05	0.56
21:AW:77:ASP:H	21:AW:83:PRO:HA	1.70	0.56
22:AX:12:ASN:O	22:AX:14:ARG:HG2	2.05	0.56
23:AY:42:ASN:O	23:AY:45:ILE:HG23	2.05	0.56
34:BA:1000:A:C2	34:BA:1001:G:N7	2.74	0.56
34:BA:1060:C:H4'	43:BN:52:GLY:HA2	1.87	0.56
34:BA:1109:C:C2'	34:BA:1110:A:H5'	2.34	0.56
34:BA:1144:G:H2'	34:BA:1144:G:N3	2.20	0.56
34:BA:1241:G:O2'	34:BA:1242:C:H5'	2.06	0.56
34:BA:1317:C:C2	34:BA:1318:A:C4	2.93	0.56
34:BA:1419:G:H2'	34:BA:1420:C:C6	2.39	0.56
34:BA:1464:G:H2'	34:BA:1465:C:C6	2.40	0.56
34:BA:197:A:O4'	34:BA:197:A:OP2	2.22	0.56
34:BA:295:C:O2'	34:BA:296:U:H5'	2.04	0.56
34:BA:558:G:O5'	34:BA:559:A:H3'	2.06	0.56
34:BA:571:U:C5'	34:BA:571:U:H6	2.19	0.56
34:BA:607:A:C5	34:BA:608:A:C8	2.93	0.56
34:BA:689:C:OP2	44:BO:46:GLY:HA3	2.04	0.56
34:BA:696:A:C2	34:BA:697:U:O4'	2.58	0.56
34:BA:886:G:C2'	34:BA:887:G:C5'	2.82	0.56
34:BA:927:G:O5'	34:BA:1503:A:C6	2.54	0.56
34:BA:962:C:O2'	34:BA:963:G:H5'	2.05	0.56
56:BE:19:G:H3'	56:BE:20:U:O4'	2.05	0.56
35:BF:146:GLN:O	35:BF:147:LYS:C	2.43	0.56
35:BF:70:PHE:HB3	35:BF:163:PHE:HB3	1.88	0.56
35:BF:70:PHE:HA	35:BF:163:PHE:O	2.04	0.56
36:BG:151:VAL:CG1	36:BG:152:ILE:N	2.68	0.56
36:BG:33:LEU:HD23	36:BG:36:ASP:OD1	2.05	0.56
36:BG:35:GLU:C	36:BG:38:ARG:HG2	2.25	0.56
36:BG:46:GLU:C	36:BG:47:LEU:HD22	2.26	0.56
37:BH:13:ARG:CB	37:BH:40:PRO:HD3	2.35	0.56
38:BI:109:ILE:HG23	38:BI:110:LEU:CD2	2.34	0.56
39:BJ:53:ALA:CB	39:BJ:86:ARG:HH11	2.18	0.56
40:BK:76:ARG:HH11	40:BK:89:MET:HG3	1.69	0.56
41:BL:69:ARG:NH1	41:BL:74:PRO:O	2.38	0.56
42:BM:17:VAL:HG21	42:BM:77:ILE:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:49:VAL:CG2	47:BR:41:ARG:HB2	2.35	0.56
34:BA:581:G:O3'	48:BS:64:ARG:NH2	2.38	0.56
49:BT:27:LYS:HB2	49:BT:27:LYS:HZ2	1.70	0.56
50:BU:74:LEU:O	50:BU:74:LEU:HD13	2.05	0.56
51:BV:64:ARG:O	51:BV:67:ALA:HB3	2.04	0.56
34:BA:194:C:H5''	53:BX:65:LYS:CD	2.35	0.56
57:BZ:240:ILE:HG21	57:BZ:286:ASP:HA	1.83	0.56
57:BZ:400:TYR:CD1	57:BZ:444:PRO:CA	2.88	0.56
57:BZ:544:THR:O	57:BZ:545:ASN:ND2	2.37	0.56
56:BD:52:G:O6	56:BD:63:G:N1	2.38	0.56
55:BC:38:A:N6	55:BC:39:U:C5	2.73	0.56
1:AA:1418:G:OP2	1:AA:1418:G:H8	1.89	0.56
8:AH:107:VAL:HG13	8:AH:152:ARG:CD	2.35	0.56
1:AA:363(B):G:H3'	1:AA:363(B):G:P	2.45	0.56
1:AA:1069:A:N1	1:AA:1096:A:OP1	2.37	0.56
1:AA:1071:G:N7	1:AA:1089:G:N2	2.09	0.56
1:AA:1127:A:C8	1:AA:1127:A:C3'	2.89	0.56
1:AA:1142(A):A:N6	1:AA:1143:A:C8	2.74	0.56
1:AA:1201:C:H42	1:AA:1241:A:N6	2.03	0.56
1:AA:1227:A:C3'	1:AA:1228:G:H5''	2.36	0.56
1:AA:1296:G:H5''	1:AA:2709:G:O2'	2.05	0.56
1:AA:1342:A:C1'	1:AA:1345:C:N4	2.68	0.56
1:AA:1754:C:C5	15:AQ:98:LYS:NZ	2.74	0.56
1:AA:1838:C:H2'	1:AA:1898:U:C5	2.40	0.56
1:AA:1944:U:O4'	1:AA:1955:U:C6	2.58	0.56
1:AA:1982:C:C4	1:AA:1983:C:N4	2.72	0.56
1:AA:2139:C:H2'	1:AA:2140:C:H6	1.70	0.56
1:AA:2208:U:C2'	1:AA:2209:C:H5'	2.35	0.56
1:AA:2208:U:H1'	1:AA:2217:G:H1	1.70	0.56
1:AA:2333:A:C4'	1:AA:2335:A:O4'	2.52	0.56
1:AA:2352:A:C2	22:AX:34:GLY:HA3	2.40	0.56
1:AA:2385:C:N3	1:AA:2386:C:C5	2.74	0.56
1:AA:2576:G:OP2	1:AA:2576:G:N2	2.39	0.56
1:AA:2601:C:O2	1:AA:2603:G:N7	2.38	0.56
1:AA:2749:A:C2	1:AA:2757:A:N1	2.74	0.56
1:AA:2840:C:O2'	1:AA:2841:C:H5'	2.05	0.56
1:AA:2853:C:H2'	1:AA:2854:G:C8	2.39	0.56
1:AA:662:G:H5'	11:AM:16:ARG:HA	1.86	0.56
1:AA:691:C:N3	1:AA:692:C:C5	2.73	0.56
1:AA:76:C:O2'	1:AA:77:C:H5'	2.05	0.56
1:AA:793:A:N3	1:AA:793:A:H2'	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:805:G:C2'	1:AA:806:C:OP1	2.53	0.56
1:AA:943:U:O4'	1:AA:943:U:P	2.64	0.56
1:AA:955:C:P	12:AN:17:LEU:HD23	2.45	0.56
1:AA:948:G:O4'	1:AA:984:A:C2	2.58	0.56
2:AB:77:U:O3'	21:AW:78:LYS:CE	2.47	0.56
3:AC:93:TYR:CZ	3:AC:109:ASP:HB3	2.41	0.56
3:AC:64:LEU:HD11	3:AC:161:ILE:HG12	1.86	0.56
4:AD:111:LEU:CB	4:AD:115:GLN:HE22	2.13	0.56
1:AA:1790:C:O2'	4:AD:213:ARG:CZ	2.54	0.56
1:AA:1804:C:C4'	4:AD:250:TRP:CH2	2.72	0.56
5:AE:175:VAL:O	5:AE:175:VAL:HG23	2.04	0.56
5:AE:7:VAL:CG1	5:AE:196:VAL:HG23	2.32	0.56
5:AE:4:ILE:HG13	5:AE:27:LEU:CD1	2.34	0.56
5:AE:51:PHE:C	5:AE:74:PRO:HB3	2.25	0.56
8:AH:11:VAL:HG13	8:AH:15:VAL:HG12	1.85	0.56
8:AH:51:ARG:HD3	8:AH:52:VAL:H	1.70	0.56
1:AA:2748:A:N3	8:AH:67:LEU:HD11	2.20	0.56
32:AJ:27:LEU:HB3	32:AJ:59:ILE:HD12	1.86	0.56
9:AK:46:VAL:O	9:AK:47:ALA:CB	2.52	0.56
10:AL:112:MET:HA	10:AL:115:VAL:HG21	1.87	0.56
10:AL:34:THR:O	10:AL:61:VAL:HG21	2.05	0.56
10:AL:73:ASP:HB3	15:AQ:79:HIS:CD2	2.39	0.56
11:AM:99:LEU:CD2	11:AM:101:VAL:HG13	2.35	0.56
1:AA:942:G:C5'	11:AM:32:THR:HG22	2.35	0.56
12:AN:102:VAL:HG13	12:AN:104:PHE:CE1	2.40	0.56
12:AN:116:GLU:CA	12:AN:119:ARG:HG3	2.34	0.56
12:AN:6:ARG:NH2	12:AN:9:TYR:N	2.53	0.56
12:AN:85:LYS:O	12:AN:87:LYS:N	2.38	0.56
13:AO:14:SER:HA	13:AO:17:ARG:CD	2.36	0.56
13:AO:77:ARG:O	13:AO:78:LYS:C	2.42	0.56
14:AP:93:LYS:O	14:AP:98:VAL:CG1	2.54	0.56
15:AQ:50:ILE:HG23	15:AQ:68:TYR:HB2	1.86	0.56
16:AR:16:LYS:CG	16:AR:20:LEU:HD21	2.35	0.56
17:AS:43:GLU:C	17:AS:44:LYS:HD3	2.25	0.56
17:AS:62:LEU:CD1	17:AS:96:ILE:HD13	2.35	0.56
21:AW:116:VAL:HG12	21:AW:176:PRO:HA	1.87	0.56
21:AW:31:ARG:HG2	21:AW:31:ARG:HH11	1.69	0.56
21:AW:40:ASP:O	21:AW:44:PHE:CD1	2.59	0.56
34:BA:1103:C:O2'	35:BF:111:ARG:HD2	2.05	0.56
34:BA:1171:G:H2'	34:BA:1172:C:C5	2.40	0.56
34:BA:1321:C:C5	34:BA:1322:C:H3'	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1333:A:H2'	34:BA:1334:G:C8	2.39	0.56
34:BA:132:C:O2'	34:BA:133:U:O5'	2.23	0.56
34:BA:1348:U:O2	34:BA:1349:A:C8	2.57	0.56
34:BA:1361:G:H3'	34:BA:1361:G:H8	1.69	0.56
34:BA:1396:A:C2'	34:BA:1397:C:OP2	2.52	0.56
34:BA:1438:G:C6	34:BA:1439:C:N4	2.73	0.56
34:BA:1447:G:H2'	34:BA:1448:C:C6	2.39	0.56
34:BA:1449:C:O2	34:BA:1450:U:O4'	2.22	0.56
34:BA:815:A:C5	34:BA:1529:G:C6	2.93	0.56
34:BA:482:A:N3	34:BA:482:A:C2'	2.66	0.56
34:BA:560:U:O5'	34:BA:566:G:N2	2.38	0.56
34:BA:654:G:H1'	34:BA:753:A:C2	2.40	0.56
34:BA:81:G:H3'	34:BA:82:U:H5''	1.87	0.56
34:BA:22:G:H4'	34:BA:885:G:C8	2.41	0.56
35:BF:115:LEU:HD13	35:BF:145:LEU:HG	1.88	0.56
37:BH:152:SER:HA	37:BH:155:LEU:HD21	1.88	0.56
38:BI:63:ARG:HA	38:BI:66:MET:CG	2.33	0.56
40:BK:5:ARG:HH11	40:BK:5:ARG:HB3	1.68	0.56
41:BL:126:LYS:CE	41:BL:127:LEU:HB2	2.34	0.56
41:BL:24:THR:O	41:BL:60:ARG:CA	2.54	0.56
34:BA:942:G:N2	42:BM:124:GLN:OE1	2.38	0.56
42:BM:36:TYR:HD2	42:BM:37:PHE:CE2	2.23	0.56
42:BM:47:LEU:HD21	42:BM:50:LEU:HD13	1.86	0.56
43:BN:52:GLY:H	43:BN:59:SER:CB	2.18	0.56
34:BA:539:A:OP1	45:BP:114:LYS:NZ	2.38	0.56
47:BR:40:CYS:O	47:BR:44:LEU:HB3	2.04	0.56
43:BN:65:LEU:CB	47:BR:56:VAL:HG13	2.31	0.56
49:BT:49:LEU:HD12	49:BT:50:LYS:H	1.70	0.56
39:BJ:89:MET:CE	51:BV:75:ILE:HG21	2.36	0.56
52:BW:32:LYS:HB3	52:BW:50:ALA:HB3	1.86	0.56
52:BW:80:TYR:CG	52:BW:81:ARG:N	2.73	0.56
57:BZ:119:TYR:HB3	57:BZ:120:GLY:CA	2.36	0.56
57:BZ:6:ARG:C	57:BZ:72:ILE:HD11	2.17	0.56
1:AA:1022:G:O2'	1:AA:1023:U:O5'	2.23	0.56
1:AA:1024:G:OP2	1:AA:1025:G:N3	2.39	0.56
1:AA:1062:G:H1'	1:AA:1063:G:P	2.45	0.56
1:AA:1135:C:H2'	1:AA:1136:G:C8	2.32	0.56
1:AA:1312:U:H2'	1:AA:1313:U:C1'	2.34	0.56
1:AA:1366:A:N1	1:AA:1367:A:N3	2.54	0.56
1:AA:1366:A:C2	1:AA:1367:A:H1'	2.40	0.56
1:AA:1316:U:H5'	1:AA:1392:A:H1'	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1405:U:C2'	1:AA:1406:U:C6	2.77	0.56
1:AA:1520:U:OP2	1:AA:1520:U:C6	2.58	0.56
1:AA:1528:A:H5'	1:AA:1529:A:OP2	2.06	0.56
1:AA:1675:C:O2	1:AA:1675:C:C2'	2.52	0.56
1:AA:1699:G:O2'	1:AA:1700:A:P	2.63	0.56
1:AA:1762:A:C5'	1:AA:1763:G:OP2	2.53	0.56
1:AA:1799:G:C6	4:AD:177:LEU:HD12	2.40	0.56
1:AA:1934:C:H4'	1:AA:1974:C:H4'	1.86	0.56
1:AA:1947:C:N3	1:AA:1948:G:C8	2.74	0.56
1:AA:1993:U:O2'	1:AA:1994:C:H5'	2.05	0.56
1:AA:203:C:H3'	1:AA:204:A:C8	2.36	0.56
1:AA:2215:G:P	1:AA:2215:G:H8	2.29	0.56
1:AA:2238:G:H2'	1:AA:2239:G:H5''	1.87	0.56
1:AA:2259:G:N2	1:AA:2282:G:C5	2.74	0.56
1:AA:2287:A:O2'	1:AA:2288:A:O5'	2.16	0.56
1:AA:2322:A:N3	1:AA:2323:G:H5'	2.19	0.56
1:AA:2345:G:C5	1:AA:2371:G:N2	2.73	0.56
1:AA:2373:G:C6	1:AA:2374:C:N4	2.73	0.56
1:AA:2324:C:O2	1:AA:2385:C:C5	2.58	0.56
1:AA:2387:U:H1'	22:AX:41:ARG:CZ	2.33	0.56
1:AA:2391:G:HO2'	1:AA:2392:A:P	2.29	0.56
1:AA:2450:A:C2'	1:AA:2451:A:H5'	2.35	0.56
1:AA:2472:G:O5'	1:AA:2472:G:C8	2.57	0.56
1:AA:2479:G:H5''	1:AA:2537:U:C4'	2.35	0.56
1:AA:259:G:H1'	1:AA:621:A:O2'	2.05	0.56
1:AA:2646:C:C2'	1:AA:2647:U:H5'	2.35	0.56
1:AA:2717:G:C2	1:AA:2718:G:C5	2.94	0.56
1:AA:2723:C:O2'	13:AO:2:ARG:CA	2.51	0.56
1:AA:2781:A:C3'	1:AA:2782:G:H4'	2.35	0.56
1:AA:281:G:H22	1:AA:283:A:C4'	2.18	0.56
1:AA:543:C:H2'	1:AA:544:C:H5	1.70	0.56
1:AA:653:A:H3'	1:AA:654:A:H4'	1.87	0.56
1:AA:873:G:H4'	12:AN:65:PHE:CZ	2.40	0.56
1:AA:893:C:C2	1:AA:894:C:C5	2.93	0.56
1:AA:972:G:C5	1:AA:973:A:C8	2.94	0.56
1:AA:989:G:P	24:AZ:10:LYS:HZ1	2.28	0.56
2:AB:43:C:O5'	2:AB:43:C:C6	2.48	0.56
3:AC:153:ILE:HA	3:AC:156:ILE:CD1	2.26	0.56
3:AC:33:ALA:CB	3:AC:39:GLU:OE1	2.54	0.56
3:AC:76:ALA:HB2	3:AC:153:ILE:HD11	1.84	0.56
3:AC:81:GLU:OE2	3:AC:82:LYS:HD3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:29:PRO:HG3	4:AD:82:ILE:C	2.24	0.56
4:AD:90:ALA:O	4:AD:91:ARG:O	2.23	0.56
5:AE:201:THR:O	5:AE:202:LYS:HD3	2.05	0.56
6:AF:103:LYS:HB3	6:AF:107:LYS:CE	2.32	0.56
6:AF:203:GLN:N	6:AF:203:GLN:NE2	2.52	0.56
7:AG:135:LEU:C	7:AG:135:LEU:HD13	2.26	0.56
7:AG:12:TYR:CG	7:AG:13:GLU:N	2.72	0.56
7:AG:79:ASN:O	7:AG:82:LEU:HD23	2.04	0.56
8:AH:68:THR:O	8:AH:72:ILE:HG13	2.06	0.56
32:AJ:17:ALA:HB1	32:AJ:41:PHE:N	2.20	0.56
1:AA:1061:U:O5'	32:AJ:52:ILE:HD13	2.05	0.56
10:AL:86:ILE:CG2	10:AL:87:ILE:N	2.68	0.56
11:AM:126:VAL:HB	11:AM:146:VAL:HG23	1.86	0.56
11:AM:7:ARG:HD3	11:AM:8:PRO:HD3	1.87	0.56
12:AN:34:LEU:HD21	12:AN:118:LEU:HD22	1.88	0.56
12:AN:77:LYS:HA	12:AN:89:ASN:HB2	1.88	0.56
12:AN:98:LYS:CE	12:AN:98:LYS:N	2.68	0.56
13:AO:24:GLN:O	13:AO:25:ALA:C	2.44	0.56
13:AO:86:ARG:NH1	13:AO:87:TYR:HE2	2.03	0.56
14:AP:76:LYS:HG2	14:AP:77:ALA:N	2.20	0.56
16:AR:92:ARG:O	16:AR:94:ASN:N	2.34	0.56
16:AR:40:PHE:HD2	17:AS:84:LYS:HG2	1.70	0.56
19:AU:36:LYS:O	19:AU:39:ILE:HB	2.05	0.56
21:AW:118:GLN:HB2	21:AW:144:LEU:CD2	2.27	0.56
21:AW:127:LYS:HD3	21:AW:165:VAL:CG2	2.31	0.56
21:AW:110:GLY:HA2	21:AW:144:LEU:O	2.06	0.56
21:AW:17:ALA:HA	21:AW:20:ARG:CZ	2.35	0.56
21:AW:25:PRO:HG2	21:AW:85:HIS:HA	1.88	0.56
22:AX:50:ASN:HB2	22:AX:81:VAL:HB	1.87	0.56
23:AY:59:LEU:HD11	23:AY:63:ARG:HD3	1.86	0.56
34:BA:101:A:C4	34:BA:102:G:C8	2.93	0.56
34:BA:103:C:H1'	34:BA:151:A:H2	1.70	0.56
34:BA:60:A:H62	34:BA:110:C:H42	1.53	0.56
34:BA:955:U:C1'	34:BA:1227:A:H61	2.03	0.56
34:BA:1462:G:C6	34:BA:1463:C:N4	2.73	0.56
34:BA:155:C:C2	34:BA:167:G:C2	2.94	0.56
34:BA:32:A:H2'	34:BA:33:A:C8	2.41	0.56
34:BA:508:C:H4'	34:BA:509:A:O5'	2.03	0.56
34:BA:80:G:H3'	34:BA:81:G:H8	1.70	0.56
34:BA:818:G:O2'	34:BA:819:A:OP1	2.17	0.56
34:BA:876:G:O2'	41:BL:11:THR:HG21	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:902:G:H2'	34:BA:903:G:H8	1.70	0.56
34:BA:949:A:O2'	34:BA:971:G:N2	2.39	0.56
34:BA:973:G:N1	34:BA:974:A:C6	2.73	0.56
35:BF:113:HIS:HA	35:BF:116:GLU:CD	2.26	0.56
36:BG:58:GLU:N	36:BG:65:ALA:HB3	2.18	0.56
38:BI:75:THR:HG23	38:BI:75:THR:O	2.05	0.56
40:BK:47:CYS:SG	40:BK:50:ILE:HD12	2.46	0.56
41:BL:44:PHE:HD1	41:BL:79:VAL:HG12	1.71	0.56
43:BN:45:ARG:HG2	43:BN:65:LEU:O	2.04	0.56
44:BO:85:ARG:NH2	44:BO:111:ASP:OD2	2.39	0.56
45:BP:23:LYS:O	45:BP:24:VAL:HG23	2.05	0.56
46:BQ:91:ARG:NH1	46:BQ:91:ARG:HG2	2.20	0.56
48:BS:27:VAL:HG12	48:BS:31:LEU:HD22	1.87	0.56
34:BA:582:U:C5'	48:BS:64:ARG:NH2	2.64	0.56
49:BT:67:THR:HB	49:BT:70:ALA:CB	2.36	0.56
34:BA:189:U:C2	50:BU:63:ARG:NH2	2.72	0.56
57:BZ:89:MET:CG	57:BZ:119:TYR:CZ	2.88	0.56
57:BZ:311:PHE:HB2	57:BZ:356:PHE:CB	2.21	0.56
31:AI:53:VAL:O	31:AI:54:ALA:HB3	2.05	0.56
56:BD:48:C:N3	56:BD:59:U:C2	2.73	0.56
56:BD:7:A:C2	56:BD:66:U:O2	2.56	0.56
55:BC:68:C:O2'	55:BC:69:G:H5'	2.05	0.56
1:AA:1579:A:H61	1:AA:1581:G:N2	2.00	0.56
34:BA:1537:U:C2	34:BA:1538:C:C6	2.94	0.56
1:AA:1015:G:O2'	1:AA:1016:G:H5'	2.06	0.56
1:AA:1048:A:C8	1:AA:1110:G:O2'	2.55	0.56
1:AA:1092:C:C3'	1:AA:1092:C:C6	2.87	0.56
1:AA:1221:C:N3	1:AA:1229:G:N1	2.54	0.56
1:AA:1303:G:N7	1:AA:1304:C:C4	2.73	0.56
1:AA:1358:G:N1	1:AA:1372:U:OP2	2.36	0.56
1:AA:1652:A:N7	1:AA:1653:G:N3	2.52	0.56
1:AA:1665:A:O3'	10:AL:1:MET:N	2.38	0.56
1:AA:740:U:O4'	1:AA:1784:A:C5	2.58	0.56
1:AA:1891:G:N3	1:AA:1891:G:H2'	2.21	0.56
1:AA:1941:C:O2	1:AA:1941:C:C2'	2.52	0.56
1:AA:2194:G:H2'	1:AA:2194:G:N3	2.19	0.56
1:AA:2259:G:O4'	1:AA:2427:C:C6	2.58	0.56
1:AA:2286:A:H4'	1:AA:2287:A:N3	2.20	0.56
1:AA:2416:C:O5'	1:AA:2416:C:C6	2.58	0.56
1:AA:2532:G:C4'	1:AA:2657:A:C6	2.86	0.56
1:AA:2559:C:O2'	1:AA:2560:C:C5'	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2669:G:H2'	1:AA:2670:A:O4'	2.05	0.56
1:AA:2721:A:C2'	1:AA:2722:G:H8	2.19	0.56
1:AA:2749:A:N1	1:AA:2750:A:N6	2.45	0.56
1:AA:2749:A:O3'	8:AH:62:LYS:HE2	2.05	0.56
1:AA:2794:C:H3'	1:AA:2799:A:H2	1.71	0.56
1:AA:280:C:N3	1:AA:283:A:N7	2.54	0.56
1:AA:2583:G:N1	59:AA:3002:8AN:C2'	2.68	0.56
1:AA:513:A:C2	1:AA:514:A:H8	2.24	0.56
1:AA:948:G:C6	1:AA:970:C:C2	2.94	0.56
3:AC:97:GLU:HB3	3:AC:126:LYS:HZ2	1.68	0.56
4:AD:8:PRO:HD2	4:AD:26:LYS:H	1.71	0.56
5:AE:102:VAL:HG22	5:AE:104:VAL:HG23	1.87	0.56
1:AA:2512:C:OP1	5:AE:120:TRP:HH2	1.89	0.56
6:AF:37:VAL:HA	6:AF:184:TYR:CE2	2.41	0.56
6:AF:18:ARG:HG3	6:AF:19:GLU:N	2.21	0.56
7:AG:162:THR:O	7:AG:162:THR:HG22	2.06	0.56
8:AH:7:LEU:N	8:AH:8:PRO:HD2	2.18	0.56
32:AJ:105:LEU:HD22	32:AJ:123:ALA:CB	2.35	0.56
32:AJ:22:PRO:O	32:AJ:24:GLY:HA3	2.04	0.56
9:AK:34:LEU:HD21	9:AK:120:LEU:HD13	1.88	0.56
10:AL:89:ASN:HD22	10:AL:91:LEU:CB	2.19	0.56
11:AM:23:PRO:HB2	11:AM:29:LYS:H	1.65	0.56
11:AM:93:GLY:O	11:AM:102:ARG:NH2	2.39	0.56
12:AN:109:VAL:HG11	12:AN:114:ALA:N	2.20	0.56
12:AN:33:GLY:C	12:AN:34:LEU:HD23	2.26	0.56
13:AO:11:ASN:CG	13:AO:12:ARG:H	2.07	0.56
13:AO:25:ALA:HA	13:AO:48:VAL:CG2	2.34	0.56
13:AO:45:ARG:O	13:AO:46:GLY:C	2.42	0.56
14:AP:51:ALA:O	14:AP:73:LEU:HD12	2.05	0.56
14:AP:68:GLN:O	14:AP:70:GLY:N	2.38	0.56
16:AR:105:VAL:HG22	16:AR:109:LEU:HD11	1.87	0.56
16:AR:70:ARG:O	16:AR:71:GLN:C	2.43	0.56
17:AS:6:LYS:HZ3	17:AS:10:LYS:HD2	1.70	0.56
18:AT:6:ILE:CG2	18:AT:7:ALA:N	2.68	0.56
20:AV:1:MET:HG2	20:AV:33:LYS:CD	2.36	0.56
20:AV:46:LYS:HZ1	20:AV:52:SER:HB2	1.70	0.56
21:AW:161:VAL:CG1	21:AW:162:GLU:H	2.15	0.56
21:AW:118:GLN:OE1	21:AW:172:ALA:HB1	2.05	0.56
22:AX:32:ARG:CZ	22:AX:32:ARG:CB	2.83	0.56
23:AY:36:ILE:CG2	23:AY:37:GLY:H	2.17	0.56
24:AZ:9:VAL:CG1	24:AZ:54:VAL:HA	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1002:G:C6	34:BA:1003:G:O6	2.59	0.56
34:BA:1082:G:H2'	34:BA:1083:U:H5'	1.88	0.56
34:BA:1187:G:H2'	34:BA:1188:A:C8	2.39	0.56
34:BA:1394:A:H62	34:BA:1501:C:C4'	2.18	0.56
34:BA:1453:G:H2'	34:BA:1454:G:C4'	2.31	0.56
34:BA:1461:G:C4	34:BA:1462:G:N7	2.74	0.56
34:BA:17:U:H2'	34:BA:18:C:C6	2.37	0.56
34:BA:237:C:H2'	34:BA:238:G:C8	2.40	0.56
34:BA:250:A:H5'	34:BA:252:U:O4'	2.05	0.56
34:BA:337:C:N4	34:BA:338:A:N6	2.54	0.56
34:BA:475:G:C2'	34:BA:476:G:C8	2.79	0.56
34:BA:600:C:H5'	41:BL:129:VAL:HA	1.86	0.56
34:BA:640:A:H2'	34:BA:641:U:C5'	2.36	0.56
34:BA:702:A:HO2'	34:BA:703:G:P	2.28	0.56
34:BA:706:A:H4'	44:BO:29:ILE:HD13	1.88	0.56
34:BA:763:G:C2'	34:BA:764:C:O5'	2.53	0.56
34:BA:809:G:O2'	34:BA:810:C:H5'	2.05	0.56
34:BA:918:A:H2'	34:BA:919:A:H8	1.68	0.56
34:BA:975:A:C8	34:BA:1365:G:N2	2.74	0.56
35:BF:109:SER:O	35:BF:110:GLN:C	2.42	0.56
35:BF:134:GLU:HB3	35:BF:135:GLN:NE2	2.21	0.56
35:BF:171:ALA:CA	35:BF:174:VAL:HB	2.36	0.56
35:BF:54:THR:HG23	35:BF:199:TYR:CB	2.36	0.56
35:BF:56:ARG:HD2	35:BF:56:ARG:C	2.26	0.56
36:BG:139:GLN:O	36:BG:143:GLU:HG3	2.05	0.56
37:BH:13:ARG:HH21	37:BH:40:PRO:CA	2.14	0.56
37:BH:198:VAL:CG2	37:BH:199:ASN:H	2.14	0.56
37:BH:205:GLU:O	37:BH:206:PHE:C	2.44	0.56
37:BH:93:PHE:O	37:BH:96:LEU:N	2.39	0.56
38:BI:106:PRO:O	38:BI:109:ILE:CG2	2.54	0.56
38:BI:18:ARG:HB2	38:BI:26:PHE:HA	1.85	0.56
40:BK:93:PRO:O	40:BK:94:ARG:C	2.43	0.56
42:BM:111:ARG:HG2	42:BM:112:LYS:O	2.05	0.56
42:BM:49:PRO:HD3	42:BM:78:LYS:NZ	2.20	0.56
43:BN:6:ILE:HD11	43:BN:73:ASP:H	1.70	0.56
43:BN:32:ALA:CB	43:BN:75:ILE:HB	2.34	0.56
44:BO:106:LYS:HG2	44:BO:107:SER:N	2.19	0.56
34:BA:562:C:O2	45:BP:15:ARG:O	2.23	0.56
47:BR:55:GLY:O	47:BR:56:VAL:O	2.23	0.56
48:BS:8:LYS:HE2	48:BS:12:ILE:HD11	1.86	0.56
48:BS:35:ARG:NH2	48:BS:59:MET:HE3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:47:THR:H	51:BV:49:LYS:NZ	2.00	0.56
51:BV:63:GLN:O	51:BV:67:ALA:CB	2.53	0.56
51:BV:77:GLY:C	51:BV:79:LEU:HD12	2.25	0.56
52:BW:6:LYS:CG	52:BW:41:VAL:HG11	2.36	0.56
53:BX:53:LEU:O	53:BX:54:LYS:C	2.43	0.56
53:BX:73:HIS:H	53:BX:76:ALA:HB2	1.65	0.56
34:BA:263:A:C5'	53:BX:75:ASN:HD21	2.19	0.56
34:BA:1305:G:OP1	54:BY:2:GLY:HA3	2.05	0.56
57:BZ:119:TYR:CG	57:BZ:120:GLY:HA3	2.40	0.56
57:BZ:6:ARG:CD	57:BZ:195:PRO:O	2.54	0.56
57:BZ:226:ILE:CG2	57:BZ:267:LEU:HA	2.36	0.56
57:BZ:380:LEU:H	57:BZ:580:VAL:HG23	1.70	0.56
57:BZ:546:MET:HB3	57:BZ:547:ARG:HA	1.87	0.56
57:BZ:10:ILE:CA	57:BZ:74:ASP:H	2.16	0.56
57:BZ:258:LEU:HD13	57:BZ:260:LEU:CD2	2.31	0.56
9:AK:133:GLN:OE1	9:AK:133:GLN:HA	2.05	0.56
1:AA:1054:A:O5'	1:AA:1054:A:H8	1.88	0.56
1:AA:1247:A:O2'	1:AA:1248:G:P	2.63	0.56
1:AA:1428:C:C4	1:AA:1569:A:H5''	2.41	0.56
1:AA:137(A):G:N2	1:AA:142:G:C2	2.73	0.56
1:AA:1439:A:C5	1:AA:1440:G:H1'	2.41	0.56
1:AA:1834:U:C1'	1:AA:1969:A:H2	2.19	0.56
1:AA:1957:C:C2	1:AA:1958:C:C5	2.93	0.56
1:AA:1973:G:H2'	1:AA:1974:C:H6	1.70	0.56
1:AA:1956:U:O2'	1:AA:1985:G:H4'	2.06	0.56
1:AA:2053:G:O2'	1:AA:2054:A:C5'	2.53	0.56
1:AA:2083:G:C4	1:AA:2084:C:C5	2.93	0.56
1:AA:2215:G:H2'	1:AA:2216:G:H8	1.69	0.56
1:AA:2262:U:O2'	1:AA:2328:A:N3	2.24	0.56
1:AA:2376:A:C2	1:AA:2377:A:C4	2.94	0.56
1:AA:2246:G:C4	1:AA:2426:A:C2	2.93	0.56
1:AA:2543:G:N2	1:AA:2765:A:C2	2.74	0.56
1:AA:2572:A:OP1	1:AA:2574:G:H4'	2.06	0.56
1:AA:2666:C:C2'	1:AA:2667:C:H5''	2.35	0.56
1:AA:2682:U:C2'	1:AA:2683:C:O5'	2.53	0.56
1:AA:270(W):G:C4	1:AA:270(X):G:C8	2.94	0.56
1:AA:2746:U:O4	1:AA:2756:U:H5	1.77	0.56
1:AA:2759:G:O2'	1:AA:2760:C:H5'	2.04	0.56
1:AA:281:G:OP1	1:AA:281:G:C8	2.59	0.56
1:AA:2823:A:OP2	5:AE:113:PHE:CE1	2.59	0.56
1:AA:246:C:O2'	1:AA:385:C:H4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:373:U:C2	1:AA:400:G:N2	2.73	0.56
1:AA:600:G:O2'	6:AF:104:LYS:HG2	2.04	0.56
1:AA:67:U:O5'	1:AA:67:U:H6	1.89	0.56
1:AA:67:U:H2'	1:AA:68:G:H8	1.67	0.56
1:AA:721:C:C2	1:AA:722:A:N7	2.73	0.56
1:AA:72:U:C4	1:AA:112:U:H1'	2.40	0.56
1:AA:730:C:H5"	1:AA:763:G:OP1	2.05	0.56
1:AA:774:A:O2'	1:AA:775:G:P	2.63	0.56
1:AA:792:G:H21	1:AA:2072:G:C2'	2.19	0.56
2:AB:80:U:O2'	2:AB:81:G:H8	1.89	0.56
3:AC:7:TYR:CE2	3:AC:11:LEU:HD22	2.41	0.56
4:AD:107:ALA:H	4:AD:108:PRO:CD	2.09	0.56
4:AD:132:PRO:HA	4:AD:189:CYS:O	2.06	0.56
1:AA:1819:A:OP2	4:AD:157:ARG:NE	2.39	0.56
4:AD:183:ARG:HA	4:AD:268:ARG:CA	2.35	0.56
1:AA:1790:C:OP2	4:AD:221:VAL:O	2.22	0.56
4:AD:236:GLY:O	4:AD:237:GLU:HG2	2.05	0.56
5:AE:100:GLU:HB2	5:AE:172:VAL:HG11	1.87	0.56
5:AE:187:ALA:O	5:AE:188:VAL:C	2.44	0.56
5:AE:7:VAL:HG11	5:AE:196:VAL:CG2	2.32	0.56
7:AG:35:GLU:HA	7:AG:100:TRP:HH2	1.70	0.56
7:AG:74:LYS:CD	7:AG:87:PRO:HG3	2.31	0.56
8:AH:149:ARG:NH1	8:AH:164:TYR:HB3	2.20	0.56
9:AK:17:ASP:OD1	9:AK:18:ALA:N	2.39	0.56
9:AK:69:GLN:C	9:AK:70:LYS:HD3	2.26	0.56
10:AL:111:PHE:O	10:AL:112:MET:C	2.43	0.56
11:AM:107:LYS:CE	11:AM:110:TYR:HB3	2.33	0.56
12:AN:65:PHE:C	12:AN:66:ILE:HD12	2.25	0.56
13:AO:104:ARG:NH2	13:AO:107:ASP:OD1	2.38	0.56
13:AO:5:LYS:HZ3	13:AO:5:LYS:C	2.08	0.56
14:AP:15:ARG:HG2	14:AP:15:ARG:HH21	1.69	0.56
14:AP:42:ASP:C	14:AP:44:LYS:N	2.59	0.56
1:AA:2296:U:C5	14:AP:5:THR:HG23	2.41	0.56
17:AS:13:ARG:NH2	17:AS:43:GLU:OE2	2.37	0.56
18:AT:12:ILE:HD12	18:AT:46:PHE:CE2	2.41	0.56
19:AU:26:TYR:CB	19:AU:28:PHE:CZ	2.88	0.56
20:AV:46:LYS:HD3	20:AV:52:SER:OG	2.05	0.56
20:AV:88:LYS:HG2	20:AV:89:PHE:N	2.21	0.56
21:AW:102:LEU:CD1	21:AW:137:ILE:HG22	2.36	0.56
21:AW:99:TYR:CE1	21:AW:124:ILE:HB	2.41	0.56
34:BA:1002:G:N2	34:BA:1039:C:C4	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1073:U:H2'	34:BA:1074:G:C8	2.32	0.56
34:BA:1127:G:H21	34:BA:1147:C:N4	2.04	0.56
34:BA:1164:G:N1	34:BA:1165:C:N3	2.53	0.56
34:BA:1251:A:H2'	34:BA:1252:A:N7	2.20	0.56
34:BA:1261:A:C2	34:BA:1262:C:C2	2.93	0.56
34:BA:1278:U:H5'	34:BA:1279:A:C4'	2.35	0.56
34:BA:1300:G:O2'	34:BA:1301:U:O5'	2.24	0.56
34:BA:230:G:H4'	49:BT:25:ARG:NH1	2.20	0.56
34:BA:261:U:C2'	34:BA:263:A:OP2	2.52	0.56
34:BA:379:C:H2'	34:BA:380:G:C5'	2.35	0.56
34:BA:412:A:OP2	34:BA:412:A:H4'	2.04	0.56
34:BA:432:A:N7	34:BA:433:C:C6	2.74	0.56
34:BA:712:A:O2'	34:BA:713:G:O4'	2.23	0.56
34:BA:714:G:H8	34:BA:714:G:O5'	1.87	0.56
34:BA:713:G:H2'	34:BA:714:G:N7	2.20	0.56
34:BA:781:A:H4'	34:BA:1522:U:HO2'	1.70	0.56
34:BA:1230:C:C5'	56:BE:30:G:C5'	2.83	0.56
56:BE:5:G:O4'	56:BE:6:G:H2'	2.06	0.56
35:BF:176:GLU:O	35:BF:180:LEU:CG	2.52	0.56
35:BF:163:PHE:CA	35:BF:185:ILE:O	2.47	0.56
35:BF:69:LEU:HD22	35:BF:91:PRO:CB	2.35	0.56
37:BH:59:ARG:HB3	37:BH:63:LYS:HZ2	1.69	0.56
37:BH:21:LEU:CD1	37:BH:67:ILE:HG22	2.34	0.56
38:BI:142:LEU:H	38:BI:143:ARG:HE	1.52	0.56
41:BL:61:VAL:CG1	41:BL:62:TYR:H	2.19	0.56
41:BL:82:HIS:O	41:BL:137:VAL:CG1	2.52	0.56
42:BM:97:LYS:NZ	42:BM:102:LEU:HD22	2.21	0.56
44:BO:100:ALA:C	44:BO:102:GLY:N	2.59	0.56
45:BP:86:ARG:HH22	45:BP:119:LYS:HG2	1.70	0.56
45:BP:85:ILE:HG13	45:BP:99:HIS:O	2.05	0.56
45:BP:97:ARG:C	45:BP:98:TYR:CD1	2.79	0.56
47:BR:10:ALA:O	47:BR:12:ARG:HG2	2.05	0.56
47:BR:18:VAL:HG23	47:BR:19:ARG:HG3	1.86	0.56
39:BJ:95:GLU:C	51:BV:32:ARG:HG3	2.26	0.56
51:BV:75:ILE:HG22	51:BV:76:LEU:HD22	1.87	0.56
52:BW:16:LEU:HD12	52:BW:19:VAL:HG12	1.87	0.56
52:BW:22:LEU:C	52:BW:24:ALA:H	2.07	0.56
57:BZ:107:PRO:O	57:BZ:110:ARG:HB2	2.06	0.56
57:BZ:27:GLN:H	57:BZ:28:GLN:C	2.09	0.56
57:BZ:397:GLN:HB3	57:BZ:472:TYR:CA	2.31	0.56
57:BZ:493:GLN:CA	57:BZ:519:TYR:HA	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:543:LEU:HG	57:BZ:544:THR:CG2	2.21	0.56
57:BZ:58:ALA:HA	57:BZ:255:LEU:O	2.06	0.56
57:BZ:57:LEU:HD23	57:BZ:71:ASN:OD1	2.05	0.56
57:BZ:41:ARG:CG	57:BZ:42:VAL:HG13	2.36	0.56
1:AA:1482:U:H2'	1:AA:1483:G:H4'	1.86	0.56
1:AA:1417:C:O3'	1:AA:1588:C:H1'	2.05	0.56
1:AA:1580:A:H2'	1:AA:1581:G:C1'	2.36	0.56
1:AA:1000:A:N7	1:AA:1001:A:C5	2.74	0.56
1:AA:1059:G:N2	32:AJ:130:SER:N	2.52	0.56
1:AA:1142:U:H2'	1:AA:1142(A):A:C8	2.39	0.56
1:AA:1206:G:H2'	1:AA:1207:C:C4'	2.32	0.56
1:AA:331:A:C2	1:AA:1209:G:C6	2.93	0.56
1:AA:1234:U:H2'	1:AA:1235:G:C8	2.40	0.56
1:AA:1264:G:H8	1:AA:1264:G:H3'	1.71	0.56
1:AA:1401:G:C5	1:AA:1402:C:C5	2.93	0.56
1:AA:1657:C:O2'	1:AA:1658:C:H5'	2.06	0.56
1:AA:154:G:N2	1:AA:173:G:C2	2.73	0.56
1:AA:1901:A:H4'	4:AD:244:ARG:NH1	2.17	0.56
1:AA:192:C:C2'	1:AA:192:C:O2	2.46	0.56
1:AA:1964:G:C8	1:AA:1964:G:OP1	2.59	0.56
1:AA:2030:A:O2'	1:AA:2031:A:O5'	2.21	0.56
1:AA:2074:U:O2'	1:AA:2075:U:H5'	2.06	0.56
1:AA:2097:C:H2'	1:AA:2098:U:C5'	2.34	0.56
1:AA:2226:C:O2	4:AD:262:ARG:CZ	2.54	0.56
1:AA:859:G:O2'	1:AA:2268:A:C2	2.53	0.56
1:AA:2283:C:N3	1:AA:2284:C:H1'	2.19	0.56
1:AA:2428:G:C4'	1:AA:2429:G:O5'	2.54	0.56
1:AA:2595:G:N3	1:AA:2599:G:N1	2.54	0.56
1:AA:2606:C:C2	1:AA:2607:G:C8	2.93	0.56
1:AA:261:G:HO2'	1:AA:262:A:H5'	1.70	0.56
1:AA:2706:G:C2	1:AA:2707:G:C5	2.93	0.56
1:AA:270(F):U:C4	1:AA:270(G):C:C5	2.94	0.56
1:AA:270(K):C:H5''	1:AA:270(L):U:C6	2.41	0.56
1:AA:2759:G:C6	1:AA:2760:C:C5	2.93	0.56
1:AA:455:C:P	1:AA:455:C:O4'	2.63	0.56
1:AA:530:G:H22	1:AA:2021:C:C2'	2.18	0.56
1:AA:641:C:H2'	1:AA:642:G:C5'	2.35	0.56
1:AA:662:G:N1	1:AA:663:G:O6	2.39	0.56
1:AA:685:A:C5'	1:AA:686:G:H21	2.07	0.56
1:AA:769:G:C2	1:AA:770:G:C8	2.93	0.56
1:AA:775:G:N2	1:AA:788:A:OP2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:811:U:C3'	1:AA:811:U:C6	2.88	0.56
2:AB:88:C:H2'	2:AB:89:G:H5'	1.86	0.56
3:AC:21:THR:CG2	3:AC:228:SER:HB3	2.35	0.56
1:AA:2823:A:P	5:AE:113:PHE:CZ	2.99	0.56
5:AE:47:VAL:HA	5:AE:48:GLN:NE2	2.21	0.56
6:AF:158:THR:CG2	6:AF:159:GLY:N	2.68	0.56
7:AG:97:ASP:O	7:AG:98:ARG:C	2.43	0.56
8:AH:119:GLU:C	8:AH:121:ILE:N	2.55	0.56
8:AH:135:GLY:HA3	8:AH:141:VAL:HG22	1.87	0.56
8:AH:29:PRO:CD	8:AH:79:VAL:HA	2.35	0.56
32:AJ:17:ALA:HB3	32:AJ:38:VAL:O	1.91	0.56
9:AK:67:LEU:O	9:AK:68:GLU:CB	2.54	0.56
9:AK:76:SER:OG	9:AK:81:GLY:O	2.21	0.56
10:AL:26:LYS:HG3	10:AL:27:GLY:H	1.70	0.56
11:AM:124:LYS:HA	11:AM:138:LEU:HD23	1.87	0.56
11:AM:51:PHE:O	11:AM:55:ARG:CG	2.53	0.56
11:AM:70:GLN:HB3	11:AM:110:TYR:OH	2.06	0.56
1:AA:2484:G:C1'	12:AN:124:LYS:HZ3	2.18	0.56
12:AN:36:ALA:HA	12:AN:129:THR:CG2	2.35	0.56
12:AN:6:ARG:HE	12:AN:8:LYS:HG3	1.71	0.56
13:AO:34:ILE:HG22	13:AO:35:THR:N	2.20	0.56
13:AO:83:ILE:O	13:AO:86:ARG:N	2.38	0.56
14:AP:26:LEU:CD2	14:AP:37:ALA:HB1	2.29	0.56
14:AP:79:ALA:O	14:AP:80:LEU:C	2.44	0.56
15:AQ:10:VAL:HB	15:AQ:11:GLU:OE2	2.04	0.56
15:AQ:44:ASP:C	15:AQ:46:GLU:N	2.59	0.56
15:AQ:28:VAL:HG22	15:AQ:93:ARG:C	2.24	0.56
16:AR:93:LYS:HZ3	16:AR:93:LYS:N	2.03	0.56
16:AR:83:LEU:HD21	16:AR:95:LEU:HD13	1.88	0.56
17:AS:18:LEU:O	17:AS:20:LEU:N	2.38	0.56
17:AS:28:GLU:C	17:AS:30:GLY:N	2.59	0.56
17:AS:61:VAL:C	17:AS:99:ILE:HB	2.23	0.56
20:AV:2:ARG:HD2	20:AV:3:VAL:CB	2.35	0.56
21:AW:57:ILE:O	21:AW:58:VAL:HG22	2.05	0.56
21:AW:94:GLU:O	21:AW:96:VAL:HG23	2.06	0.56
23:AY:20:VAL:HG21	23:AY:56:LEU:CD1	2.33	0.56
23:AY:28:MET:O	23:AY:29:GLU:C	2.44	0.56
34:BA:1108:G:C6	34:BA:1109:C:N4	2.73	0.56
34:BA:1225:A:O3'	52:BW:80:TYR:CB	2.54	0.56
34:BA:189:U:C2	50:BU:72:ARG:NH1	2.70	0.56
34:BA:266:G:N2	34:BA:270:A:N6	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:517:G:H5''	34:BA:518:C:OP1	2.05	0.56
34:BA:519:C:H5''	45:BP:51:ALA:HB2	1.87	0.56
34:BA:545:C:OP2	37:BH:62:GLN:OE1	2.23	0.56
34:BA:68:G:H4'	34:BA:171:A:O4'	2.06	0.56
34:BA:735:C:HO2'	34:BA:736:C:H5'	1.68	0.56
34:BA:782:A:N6	34:BA:801:U:C6	2.74	0.56
34:BA:815:A:C8	34:BA:819:A:H2	2.24	0.56
34:BA:575:G:N1	34:BA:821:G:N7	2.53	0.56
34:BA:843:U:C3'	34:BA:848:C:H5'	2.35	0.56
34:BA:966:G:C2'	34:BA:967:C:O5'	2.54	0.56
34:BA:993:G:HO2'	34:BA:994:A:P	2.28	0.56
56:BE:8:U:H6	56:BE:8:U:O5'	1.87	0.56
35:BF:97:TRP:HE1	35:BF:101:MET:CE	2.18	0.56
35:BF:101:MET:O	35:BF:103:THR:N	2.39	0.56
35:BF:113:HIS:HA	35:BF:116:GLU:OE2	2.04	0.56
35:BF:135:GLN:O	35:BF:139:LYS:HG2	2.06	0.56
35:BF:157:ARG:HG2	35:BF:158:LEU:CD2	2.35	0.56
36:BG:122:GLU:O	36:BG:125:GLU:CB	2.53	0.56
36:BG:8:ILE:HD11	36:BG:16:ARG:HD2	1.88	0.56
36:BG:5:ILE:HD12	36:BG:5:ILE:N	2.21	0.56
37:BH:4:TYR:CG	37:BH:5:ILE:N	2.74	0.56
37:BH:58:LEU:O	37:BH:58:LEU:HD22	2.06	0.56
37:BH:72:GLU:OE1	37:BH:72:GLU:HA	2.05	0.56
38:BI:76:ILE:HG22	38:BI:78:HIS:HD2	1.69	0.56
38:BI:79:GLU:HA	38:BI:91:LEU:CD2	2.35	0.56
39:BJ:42:GLU:HG3	39:BJ:44:GLY:H	1.70	0.56
41:BL:13:ILE:CG2	41:BL:14:ARG:N	2.54	0.56
42:BM:28:VAL:O	42:BM:29:ASN:C	2.44	0.56
43:BN:47:PHE:CE2	47:BR:37:PHE:HZ	2.24	0.56
34:BA:718:G:C4'	44:BO:117:ASN:HD21	2.17	0.56
46:BQ:36:LYS:CD	46:BQ:59:TYR:CD2	2.82	0.56
46:BQ:52:GLU:HA	46:BQ:55:ARG:CD	2.36	0.56
48:BS:62:GLN:CD	48:BS:65:ARG:NH2	2.59	0.56
49:BT:60:LEU:CA	49:BT:64:ALA:HB3	2.28	0.56
57:BZ:137:PRO:HB2	57:BZ:164:TYR:HE2	1.69	0.56
57:BZ:19:THR:OG1	57:BZ:22:VAL:HG22	2.05	0.56
57:BZ:241:ASP:HB2	57:BZ:286:ASP:OD1	2.05	0.56
57:BZ:400:TYR:H	57:BZ:469:PHE:HA	1.70	0.56
57:BZ:407:VAL:C	57:BZ:436:ARG:NH1	2.58	0.56
56:BD:48:C:H2'	56:BD:59:U:O4'	2.06	0.56
50:BU:99:SER:C	50:BU:100:LYS:HG2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AI:117:LEU:HA	31:AI:121:ASP:O	2.06	0.56
1:AA:1000:A:N1	1:AA:1155:A:C4	2.74	0.56
1:AA:1064:C:C6	1:AA:1065:U:C4	2.93	0.56
1:AA:112:U:O2	1:AA:112:U:H2'	2.06	0.56
1:AA:1144:G:C4	1:AA:1145:C:C5	2.94	0.56
1:AA:1178:C:N3	1:AA:1179:C:C4	2.74	0.56
1:AA:116:C:O2'	1:AA:117:G:H5'	2.06	0.56
1:AA:1358:G:N7	1:AA:1371:G:C6	2.74	0.56
1:AA:140:A:H2	1:AA:1408:C:O2	1.88	0.56
1:AA:1649:G:C2	1:AA:1650:G:N7	2.74	0.56
1:AA:1700:A:C8	1:AA:1701:A:C8	2.93	0.56
1:AA:2075:U:C2'	1:AA:2075:U:O2	2.53	0.56
1:AA:221:A:C8	1:AA:221:A:C3'	2.89	0.56
1:AA:223:A:O2'	1:AA:420:C:H1'	2.06	0.56
1:AA:2277:G:H5''	22:AX:12:ASN:HD21	1.70	0.56
1:AA:2287:A:C8	1:AA:2289:G:C5	2.93	0.56
1:AA:2353:G:H1'	22:AX:34:GLY:HA3	1.87	0.56
1:AA:2447:G:C4	1:AA:2500:U:C4	2.94	0.56
1:AA:2487:G:H2'	1:AA:2488:A:H8	1.70	0.56
1:AA:269:U:C5	1:AA:270(Z):U:OP2	2.58	0.56
1:AA:270(J):G:C6	1:AA:270(K):C:C4	2.93	0.56
1:AA:270(K):C:H3'	1:AA:270(L):U:O4'	2.06	0.56
1:AA:270(X):G:N2	1:AA:270(Y):G:HO2'	2.04	0.56
1:AA:270(Z):U:O2'	1:AA:271(A):C:OP1	2.23	0.56
1:AA:2740:A:C6	1:AA:2741:A:N6	2.74	0.56
1:AA:2789:C:HO2'	1:AA:2791:C:H5''	1.70	0.56
1:AA:2885:C:N3	1:AA:2886:G:H1'	2.20	0.56
59:AA:3002:8AN:P	56:BD:75:C:H1'	2.46	0.56
1:AA:451:C:C5	1:AA:453:C:H5'	2.32	0.56
1:AA:461:C:N4	1:AA:469:G:N2	2.54	0.56
1:AA:27:G:C2	1:AA:512:G:H2'	2.41	0.56
1:AA:627:A:N6	1:AA:636:G:O2'	2.39	0.56
1:AA:662:G:H5'	11:AM:17:LYS:N	2.20	0.56
1:AA:684:G:C2	1:AA:775:G:C6	2.93	0.56
1:AA:746:A:C8	1:AA:2611:U:O2'	2.58	0.56
1:AA:847:U:O4	1:AA:933:A:C2	2.59	0.56
1:AA:947:G:C2'	1:AA:948:G:H5'	2.36	0.56
1:AA:972:G:C6	1:AA:973:A:N7	2.74	0.56
1:AA:988:A:C2	1:AA:989:G:N2	2.73	0.56
2:AB:68:C:H2'	2:AB:69:G:C1'	2.36	0.56
2:AB:77:U:H5	2:AB:98:G:N2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:62:VAL:CB	3:AC:192:PHE:CA	2.81	0.56
1:AA:2173:A:N9	3:AC:218:MET:CE	2.68	0.56
3:AC:87:GLU:OE2	3:AC:94:VAL:HG11	2.06	0.56
4:AD:160:GLY:C	4:AD:196:VAL:HG21	2.26	0.56
4:AD:181:GLU:C	4:AD:270:ILE:HD12	2.24	0.56
4:AD:63:ARG:HD3	4:AD:65:ILE:HD11	1.88	0.56
4:AD:78:LYS:HE2	4:AD:114:GLY:O	2.06	0.56
5:AE:94:GLU:O	5:AE:96:PHE:N	2.39	0.56
6:AF:32:LEU:HD11	6:AF:105:VAL:HG11	1.88	0.56
6:AF:34:TRP:CD1	6:AF:38:ARG:NH1	2.73	0.56
6:AF:39:TRP:CG	6:AF:40:GLN:N	2.73	0.56
7:AG:10:LYS:O	7:AG:11:TYR:C	2.45	0.56
7:AG:119:GLY:HA3	7:AG:180:PHE:CG	2.40	0.56
7:AG:61:ALA:HB1	7:AG:67:LYS:HE2	1.82	0.56
8:AH:148:ILE:HG23	8:AH:149:ARG:N	2.21	0.56
8:AH:15:VAL:HG21	8:AH:79:VAL:HG21	1.87	0.56
9:AK:99:LEU:CD2	9:AK:122:VAL:HG21	2.36	0.56
9:AK:54:VAL:C	9:AK:130:HIS:NE2	2.59	0.56
10:AL:106:LEU:HA	10:AL:111:PHE:HE1	1.71	0.56
11:AM:135:LEU:CD1	11:AM:135:LEU:H	2.18	0.56
11:AM:74:GLU:HG2	11:AM:112:LEU:HD23	1.88	0.56
11:AM:81:GLN:HA	11:AM:86:LYS:CG	2.36	0.56
1:AA:2690:C:H5	13:AO:14:SER:HB2	1.65	0.56
2:AB:48:A:O3'	14:AP:95:HIS:CE1	2.59	0.56
19:AU:24:GLY:O	19:AU:82:GLN:HG3	2.06	0.56
19:AU:42:ALA:O	19:AU:46:ALA:CB	2.54	0.56
1:AA:1341:U:O2'	19:AU:56:THR:O	2.20	0.56
19:AU:50:LYS:HG3	19:AU:84:ALA:H	1.71	0.56
21:AW:104:PHE:HD2	21:AW:104:PHE:N	2.03	0.56
21:AW:6:LYS:CA	21:AW:37:VAL:HG13	2.36	0.56
22:AX:27:GLU:OE1	22:AX:27:GLU:HA	2.06	0.56
34:BA:1004:A:H2'	34:BA:1036:G:O6	2.05	0.56
34:BA:1125:U:OP2	34:BA:1126:U:O4	2.24	0.56
34:BA:1138:G:N1	34:BA:1140:C:C6	2.73	0.56
34:BA:1196:U:O2'	34:BA:1197:G:OP2	2.21	0.56
34:BA:1312:G:C5	34:BA:1326:C:C2	2.85	0.56
34:BA:949:A:C1'	34:BA:1364:U:H3	2.18	0.56
34:BA:1364:U:H6	34:BA:1364:U:O5'	1.88	0.56
34:BA:1405:G:C4	34:BA:1406:U:H5	2.23	0.56
34:BA:1468:A:H2'	34:BA:1469:G:O5'	2.05	0.56
34:BA:186(C):G:O2'	34:BA:186(D):C:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:19:C:N3	34:BA:20:U:C5	2.73	0.56
34:BA:333:G:H4'	53:BX:16:HIS:HD2	1.65	0.56
34:BA:376:G:OP1	49:BT:5:ARG:HB2	2.05	0.56
34:BA:389:A:N1	34:BA:390:C:H1'	2.20	0.56
34:BA:409:G:C2	34:BA:410:G:C8	2.93	0.56
34:BA:483:C:H6	34:BA:483:C:O5'	1.88	0.56
34:BA:887:G:H2'	34:BA:888:G:H8	1.67	0.56
34:BA:978:A:H3'	34:BA:978:A:H8	1.69	0.56
36:BG:25:GLY:N	36:BG:28:GLN:HE22	2.03	0.56
37:BH:162:LEU:O	37:BH:166:LYS:HG2	2.05	0.56
37:BH:148:VAL:CB	37:BH:181:MET:HE3	2.27	0.56
37:BH:52:SER:OG	37:BH:54:TYR:HB3	2.05	0.56
37:BH:59:ARG:CA	37:BH:59:ARG:HH11	2.14	0.56
34:BA:9:G:H3'	38:BI:126:ARG:NH1	2.21	0.56
38:BI:61:TYR:HA	38:BI:64:ARG:HG3	1.87	0.56
39:BJ:6:VAL:HG12	39:BJ:63:TYR:H	1.69	0.56
39:BJ:76:ALA:HA	39:BJ:79:LEU:HD12	1.88	0.56
40:BK:26:PHE:CD2	40:BK:43:PHE:CE1	2.94	0.56
40:BK:49:ILE:HG21	40:BK:121:ALA:CB	2.30	0.56
40:BK:50:ILE:HB	40:BK:51:GLN:OE1	2.06	0.56
41:BL:18:ARG:CZ	41:BL:18:ARG:N	2.68	0.56
41:BL:26:VAL:HG13	41:BL:27:PRO:CD	2.35	0.56
41:BL:6:ILE:O	41:BL:7:ALA:C	2.42	0.56
41:BL:98:LYS:H	41:BL:98:LYS:NZ	1.90	0.56
43:BN:7:LYS:HZ2	43:BN:71:LEU:HD11	1.71	0.56
43:BN:84:GLN:C	43:BN:85:LEU:HD12	2.26	0.56
34:BA:692:U:O4	44:BO:52:GLY:C	2.43	0.56
44:BO:62:GLN:HA	44:BO:97:ALA:CB	2.36	0.56
45:BP:5:PRO:O	45:BP:6:THR:OG1	2.23	0.56
50:BU:28:PRO:C	50:BU:36:ILE:HD11	2.26	0.56
51:BV:40:LEU:N	51:BV:40:LEU:HD23	2.20	0.56
34:BA:1225:A:O3'	52:BW:80:TYR:HB2	2.06	0.56
57:BZ:206:GLN:O	57:BZ:227:LYS:CB	2.54	0.56
57:BZ:208:GLN:HB2	57:BZ:227:LYS:HE2	1.88	0.56
57:BZ:276:ILE:HD12	57:BZ:276:ILE:O	2.05	0.56
57:BZ:81:PHE:CB	57:BZ:365:HIS:HD2	1.82	0.56
57:BZ:488:LEU:N	57:BZ:525:GLY:O	2.35	0.56
57:BZ:6:ARG:HB2	57:BZ:68:TYR:C	2.26	0.56
56:BD:51:U:O4	56:BD:64:A:N1	2.30	0.56
1:AA:1488:G:C3'	1:AA:1489:U:C5'	2.83	0.56
7:AG:91:ARG:HD3	7:AG:91:ARG:C	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BC:38:A:N6	55:BC:39:U:C4	2.74	0.56
37:BH:190:ASP:O	37:BH:191:ARG:C	2.43	0.56
37:BH:195:ALA:O	37:BH:196:LEU:C	2.44	0.56
6:AF:148:LEU:HD22	6:AF:148:LEU:N	2.21	0.56
1:AA:1127:A:C6	1:AA:2518:A:C2	2.94	0.56
1:AA:1207:C:C6	1:AA:1207:C:OP2	2.58	0.56
1:AA:513:A:O2'	1:AA:1217:C:OP1	2.22	0.56
1:AA:1272:A:N1	1:AA:1618:A:C2	2.73	0.56
1:AA:1285:G:C8	1:AA:1285:G:O5'	2.59	0.56
1:AA:1315:C:C2	1:AA:1316:U:C5	2.93	0.56
1:AA:1374:G:C6	1:AA:1375:C:C4	2.94	0.56
1:AA:1344:G:H4'	1:AA:1384:A:C6	2.41	0.56
1:AA:1614:A:N3	1:AA:1614:A:C3'	2.65	0.56
1:AA:1609:A:N6	1:AA:1616:A:C2	2.74	0.56
1:AA:1669:A:N6	1:AA:1994:C:C2	2.73	0.56
1:AA:1788:C:C4	1:AA:1789:A:H8	2.20	0.56
1:AA:1790:C:O2	1:AA:1790:C:H2'	2.04	0.56
1:AA:1975:G:H2'	1:AA:1976:U:O5'	2.06	0.56
1:AA:1996:C:H2'	1:AA:1997:G:O5'	2.06	0.56
1:AA:2040:C:C2	1:AA:2041:U:C5	2.94	0.56
1:AA:2171:A:O2'	1:AA:2172:U:C6	2.56	0.56
1:AA:2287:A:C2	1:AA:2346:A:N6	2.74	0.56
1:AA:2313:C:H2'	1:AA:2314:C:C6	2.41	0.56
1:AA:2318:G:C8	1:AA:2318:G:O5'	2.54	0.56
1:AA:2378:A:C2	1:AA:2379:G:C1'	2.88	0.56
1:AA:2346:A:H5'	1:AA:2383:G:O4'	2.06	0.56
1:AA:2383:G:N2	1:AA:2384:G:N3	2.53	0.56
1:AA:2437:U:C2	1:AA:2438:U:C5	2.94	0.56
1:AA:2051:A:C6	1:AA:2614:A:C6	2.94	0.56
1:AA:2723:C:C4	1:AA:2724:C:C5	2.93	0.56
1:AA:2745:C:H1'	8:AH:143:GLN:CG	2.35	0.56
1:AA:2815:C:H2'	1:AA:2816:C:H6	1.70	0.56
1:AA:422:A:N3	1:AA:422:A:C2'	2.69	0.56
1:AA:738:G:N3	1:AA:739:G:H1'	2.21	0.56
1:AA:68:G:N2	1:AA:74:A:O5'	2.38	0.56
1:AA:687:C:O2	1:AA:788:A:P	2.64	0.56
1:AA:827:U:O3'	1:AA:828:U:O2	2.23	0.56
1:AA:842:G:C6	1:AA:843:G:C6	2.94	0.56
1:AA:856:C:H1'	22:AX:69:PHE:HE1	1.69	0.56
1:AA:848:G:C2	1:AA:931:G:O6	2.58	0.56
1:AA:946:G:O6	1:AA:972:G:N2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:996:A:H5'	16:AR:93:LYS:HD2	1.88	0.56
2:AB:73:A:HO2'	2:AB:74:U:C5'	2.19	0.56
1:AA:2122:U:C1'	3:AC:166:ASP:OD2	2.54	0.56
3:AC:161:ILE:HG22	3:AC:174:PRO:HG2	1.87	0.56
3:AC:21:THR:HG22	3:AC:225:ASN:HD22	1.70	0.56
4:AD:102:LYS:O	4:AD:103:ARG:HG3	2.06	0.56
4:AD:112:GLN:N	4:AD:115:GLN:HE22	2.03	0.56
4:AD:176:ARG:HG3	4:AD:176:ARG:NH1	2.09	0.56
4:AD:244:ARG:H	4:AD:245:PRO:CD	2.05	0.56
5:AE:49:LEU:HD13	5:AE:50:GLY:H	1.71	0.56
1:AA:2811:G:P	5:AE:60:ASN:HD22	2.28	0.56
6:AF:182:ASN:OD1	6:AF:185:ASP:OD1	2.23	0.56
7:AG:19:LEU:H	7:AG:19:LEU:HD12	1.70	0.56
32:AJ:11:GLN:CA	32:AJ:56:GLU:HB2	2.18	0.56
9:AK:2:LYS:O	9:AK:3:THR:O	2.23	0.56
9:AK:67:LEU:HB2	9:AK:88:GLU:OE1	2.05	0.56
9:AK:96:GLU:N	9:AK:96:GLU:OE2	2.38	0.56
11:AM:122:PRO:HG3	11:AM:138:LEU:N	2.20	0.56
11:AM:15:ARG:O	11:AM:16:ARG:C	2.43	0.56
12:AN:36:ALA:HB1	12:AN:39:PRO:HG2	1.87	0.56
12:AN:44:ALA:C	12:AN:48:GLU:OE2	2.44	0.56
12:AN:68:ILE:HG13	12:AN:69:PHE:H	1.70	0.56
12:AN:83:MET:O	12:AN:83:MET:HE2	2.06	0.56
13:AO:97:VAL:CA	13:AO:114:VAL:HG22	2.32	0.56
13:AO:20:LEU:CD1	13:AO:21:TYR:N	2.69	0.56
13:AO:35:THR:HG22	13:AO:113:LEU:HD23	1.88	0.56
13:AO:59:ASP:OD1	13:AO:62:ALA:N	2.39	0.56
13:AO:63:ARG:HG2	13:AO:63:ARG:HH11	1.71	0.56
14:AP:24:LEU:HG	14:AP:41:ASP:HA	1.87	0.56
15:AQ:57:PHE:C	15:AQ:58:ASN:ND2	2.58	0.56
16:AR:59:ARG:HA	16:AR:62:ILE:CD1	2.33	0.56
17:AS:41:GLY:N	17:AS:51:VAL:HG22	2.20	0.56
21:AW:31:ARG:O	21:AW:31:ARG:NH1	2.37	0.56
21:AW:41:LEU:HA	21:AW:44:PHE:HB2	1.87	0.56
21:AW:44:PHE:HD2	21:AW:48:PHE:HE1	1.52	0.56
21:AW:60:GLU:OE2	21:AW:67:LEU:O	2.24	0.56
22:AX:31:VAL:HG22	22:AX:67:VAL:N	2.21	0.56
34:BA:983:A:O2'	34:BA:1050:G:OP2	2.22	0.56
34:BA:1132:C:H2'	34:BA:1133:G:H8	1.70	0.56
34:BA:1329:A:P	46:BQ:29:ARG:CG	2.91	0.56
34:BA:1409:C:O2'	34:BA:1410:G:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1493:A:OP1	58:BA:1601:NMY:N6	2.39	0.56
34:BA:295:C:O2	34:BA:296:U:O4'	2.24	0.56
34:BA:301:G:N2	34:BA:302:G:N9	2.53	0.56
34:BA:373:A:C6	34:BA:482:A:N6	2.74	0.56
34:BA:37:U:H2'	34:BA:38:G:H5'	1.86	0.56
34:BA:46:G:H1'	34:BA:396:G:N2	2.21	0.56
34:BA:406:G:N2	34:BA:407:G:C4	2.73	0.56
34:BA:454:C:H5''	34:BA:455:C:OP2	2.06	0.56
34:BA:465:A:N7	34:BA:467:G:N1	2.53	0.56
34:BA:815:A:C8	34:BA:819:A:C2	2.94	0.56
34:BA:815:A:H2	34:BA:1527:C:O2	1.87	0.56
34:BA:872:A:C6	34:BA:874:G:N7	2.73	0.56
34:BA:93:U:H2'	34:BA:95:G:H8	1.71	0.56
35:BF:150:SER:O	35:BF:151:GLY:C	2.44	0.56
35:BF:152:PHE:O	35:BF:154:LEU:N	2.38	0.56
35:BF:78:GLN:HE22	35:BF:96:ARG:CZ	2.17	0.56
36:BG:10:PHE:HD1	36:BG:178:LEU:CD2	2.14	0.56
34:BA:532:A:C5'	36:BG:161:GLU:OE1	2.54	0.56
36:BG:72:LYS:O	36:BG:76:VAL:HB	2.06	0.56
38:BI:43:LEU:HD23	38:BI:44:GLY:CA	2.36	0.56
38:BI:91:LEU:HG	38:BI:92:LYS:N	2.20	0.56
39:BJ:23:LYS:HA	39:BJ:26:ILE:CG1	2.35	0.56
41:BL:11:THR:C	41:BL:13:ILE:N	2.56	0.56
41:BL:18:ARG:HH11	41:BL:18:ARG:CB	2.17	0.56
42:BM:17:VAL:HG11	42:BM:81:ILE:HA	1.88	0.56
44:BO:54:ARG:C	44:BO:56:GLY:N	2.60	0.56
34:BA:562:C:O2'	45:BP:15:ARG:CB	2.53	0.56
45:BP:45:PRO:HG2	45:BP:49:ASN:O	2.06	0.56
45:BP:68:ALA:CB	45:BP:98:TYR:O	2.54	0.56
46:BQ:15:VAL:CG1	46:BQ:34:LEU:HD23	2.25	0.56
46:BQ:7:VAL:O	46:BQ:7:VAL:HG23	2.06	0.56
48:BS:16:ALA:O	48:BS:17:ARG:C	2.44	0.56
49:BT:27:LYS:C	49:BT:29:ASP:N	2.58	0.56
39:BJ:100:ASN:O	51:BV:28:GLU:N	2.39	0.56
51:BV:30:ASP:OD2	51:BV:32:ARG:HB2	2.06	0.56
51:BV:62:GLU:O	51:BV:63:GLN:C	2.45	0.56
52:BW:4:SER:HA	52:BW:5:LEU:C	2.26	0.56
53:BX:62:LEU:HD23	53:BX:65:LYS:HG3	1.87	0.56
57:BZ:111:PHE:CZ	57:BZ:115:LYS:HG2	2.40	0.56
57:BZ:15:ASP:HB2	57:BZ:16:HIS:CB	2.26	0.56
57:BZ:398:GLU:HB2	57:BZ:399:PRO:CD	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:426:LEU:N	57:BZ:441:TYR:CD2	2.74	0.56
57:BZ:488:LEU:HD21	57:BZ:527:HIS:HA	1.86	0.56
57:BZ:79:ALA:HA	57:BZ:80:ASP:O	2.05	0.56
31:AI:54:ALA:C	31:AI:56:ASN:H	2.07	0.56
55:BC:30:G:H8	55:BC:30:G:O5'	1.88	0.56
1:AA:1041:C:C2	1:AA:1115:G:O6	2.59	0.56
1:AA:1131:G:N2	1:AA:1132:A:C2	2.74	0.56
1:AA:1147:C:O2'	1:AA:1148:A:H5'	2.03	0.56
1:AA:1202:C:C2	1:AA:1203:G:O2'	2.52	0.56
1:AA:1237:A:O2'	1:AA:1238:G:P	2.64	0.56
1:AA:1525:G:C4	1:AA:1526:G:C8	2.94	0.56
1:AA:1526:G:N2	1:AA:1546:C:N3	2.54	0.56
1:AA:1598:C:O2'	19:AU:35:THR:HG23	2.04	0.56
1:AA:1742:C:C6	1:AA:1743:G:H5''	2.41	0.56
1:AA:1762:A:H8	1:AA:1762:A:C3'	2.10	0.56
1:AA:1780:A:P	1:AA:1782:C:OP1	2.64	0.56
1:AA:1788:C:H6	1:AA:1788:C:O5'	1.89	0.56
1:AA:1790:C:O2	1:AA:1790:C:C2'	2.50	0.56
1:AA:1992:G:H4'	1:AA:1993:U:C5	2.40	0.56
1:AA:1993:U:N1	1:AA:1994:C:H5	2.04	0.56
1:AA:2311:A:H5''	1:AA:2312:U:C5	2.40	0.56
1:AA:2335:A:O2'	1:AA:2336:A:H8	1.89	0.56
1:AA:2436:G:C5	1:AA:2437:U:C4	2.94	0.56
1:AA:2472:G:N2	1:AA:2477:C:OP1	2.33	0.56
1:AA:2553:G:N2	1:AA:2554:U:O2	2.38	0.56
1:AA:2623:G:H5'	1:AA:2826:A:C1'	2.33	0.56
1:AA:585:G:N2	1:AA:1256:G:C6	2.74	0.56
1:AA:623:G:H2'	1:AA:624:C:C5'	2.36	0.56
1:AA:92:G:H2'	1:AA:93:C:C6	2.40	0.56
1:AA:942:G:H3'	11:AM:32:THR:HG22	1.86	0.56
3:AC:211:SER:HB2	3:AC:213:TYR:CE1	2.40	0.56
3:AC:99:ILE:HG23	3:AC:107:TRP:HZ3	1.70	0.56
4:AD:126:GLN:O	4:AD:126:GLN:HG3	2.06	0.56
7:AG:149:VAL:HG13	7:AG:150:ASP:N	2.21	0.56
7:AG:76:SER:O	7:AG:82:LEU:O	2.24	0.56
8:AH:157:TYR:CD1	8:AH:158:HIS:HB2	2.41	0.56
8:AH:41:MET:SD	8:AH:64:LEU:HD22	2.46	0.56
8:AH:9:ILE:HG13	8:AH:69:ARG:HH12	1.70	0.56
32:AJ:60:TYR:CD1	32:AJ:61:ALA:N	2.73	0.56
9:AK:107:LEU:HD22	9:AK:117:PHE:CZ	2.41	0.56
10:AL:22:ILE:HB	10:AL:23:ARG:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:114:ILE:HG12	11:AM:130:PHE:CA	2.35	0.56
12:AN:66:ILE:CG2	12:AN:67:ARG:N	2.40	0.56
14:AP:52:SER:CB	14:AP:69:VAL:HG13	2.35	0.56
15:AQ:113:LYS:O	15:AQ:116:ALA:N	2.38	0.56
15:AQ:28:VAL:HG13	15:AQ:92:GLY:C	2.26	0.56
16:AR:65:ILE:HG21	16:AR:95:LEU:HB2	1.88	0.56
17:AS:73:SER:OG	17:AS:89:GLN:NE2	2.39	0.56
1:AA:495:G:O3'	18:AT:4:LYS:HE3	2.06	0.56
1:AA:519:U:H4'	18:AT:75:TYR:HB2	1.88	0.56
19:AU:85:PRO:CB	19:AU:87:GLN:HE21	2.19	0.56
20:AV:14:LEU:HD13	20:AV:20:TYR:O	2.06	0.56
21:AW:116:VAL:HA	21:AW:175:VAL:O	2.05	0.56
21:AW:4:ARG:HG2	21:AW:38:TYR:O	2.05	0.56
1:AA:2387:U:C1'	22:AX:41:ARG:CZ	2.83	0.56
22:AX:43:THR:O	22:AX:43:THR:HG22	2.05	0.56
22:AX:50:ASN:HB3	22:AX:63:VAL:CG2	2.36	0.56
22:AX:76:GLY:C	22:AX:78:TYR:CE1	2.79	0.56
23:AY:16:LEU:HD22	23:AY:58:VAL:HG22	1.88	0.56
24:AZ:17:LYS:CA	24:AZ:20:LYS:NZ	2.68	0.56
34:BA:1004:A:H5''	34:BA:1025:U:C5	2.41	0.56
34:BA:1100:C:H2'	35:BF:98:LEU:HD13	1.86	0.56
34:BA:1314:C:N3	34:BA:1323:G:N2	2.48	0.56
34:BA:1377:A:H5''	34:BA:1378:C:C6	2.41	0.56
34:BA:1494:G:C5	58:BA:1601:NMY:H82	2.40	0.56
34:BA:1526:G:H2'	34:BA:1527:C:C6	2.41	0.56
34:BA:250:A:H4'	34:BA:251:G:O5'	2.05	0.56
34:BA:575:G:C6	34:BA:821:G:C8	2.93	0.56
34:BA:589:C:N4	34:BA:590:C:N4	2.53	0.56
34:BA:859:A:C2'	34:BA:860:A:C5'	2.84	0.56
34:BA:893:C:C2	34:BA:894:G:C8	2.94	0.56
34:BA:974:A:H8	34:BA:974:A:OP1	1.88	0.56
34:BA:978:A:N1	34:BA:1318:A:C6	2.74	0.56
55:BC:16:U:O4	55:BC:18:G:O2'	2.24	0.56
35:BF:102:LEU:CB	35:BF:180:LEU:CD1	2.84	0.56
35:BF:35:GLU:OE2	35:BF:36:ARG:O	2.23	0.56
36:BG:69:HIS:HA	36:BG:104:GLN:O	2.06	0.56
37:BH:58:LEU:CD2	37:BH:62:GLN:HG2	2.36	0.56
34:BA:8:A:C4'	38:BI:102:ALA:HA	2.36	0.56
38:BI:102:ALA:CB	38:BI:120:THR:HG22	2.33	0.56
39:BJ:50:TYR:CZ	39:BJ:52:ILE:HD11	2.40	0.56
40:BK:89:MET:HE2	40:BK:156:TRP:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:7:ALA:HA	41:BL:10:LEU:CG	2.35	0.56
41:BL:19:VAL:HB	41:BL:21:LYS:CG	2.35	0.56
41:BL:45:ILE:HG12	41:BL:45:ILE:O	2.06	0.56
41:BL:5:PRO:C	41:BL:8:ASP:HB3	2.24	0.56
34:BA:1128:C:C4'	42:BM:16:ARG:HH22	2.19	0.56
42:BM:96:LEU:HD12	42:BM:101:PHE:HE1	1.70	0.56
43:BN:27:ALA:HB2	43:BN:85:LEU:HD21	1.87	0.56
46:BQ:106:ASN:O	46:BQ:107:ALA:HB2	2.06	0.56
46:BQ:44:ARG:O	46:BQ:45:VAL:HB	2.05	0.56
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:CD2	2.89	0.56
36:BG:6:HIS:HB3	47:BR:49:HIS:ND1	2.20	0.56
50:BU:18:THR:HG23	50:BU:69:LYS:HE3	1.87	0.56
50:BU:51:TYR:O	50:BU:52:LYS:HG3	2.06	0.56
50:BU:43:LEU:HD11	50:BU:69:LYS:CG	2.35	0.56
51:BV:44:LEU:O	51:BV:45:SER:OG	2.21	0.56
53:BX:12:ALA:H	53:BX:13:LEU:CD1	2.01	0.56
53:BX:81:LYS:HB3	53:BX:85:MET:CE	2.36	0.56
57:BZ:11:ILE:HG22	57:BZ:12:ALA:N	2.20	0.56
57:BZ:392:ILE:O	57:BZ:392:ILE:HD12	2.06	0.56
1:AA:884:C:H1'	1:AA:885:C:H5'	1.86	0.56
34:BA:1017:G:H2'	34:BA:1018:C:H6	1.71	0.56
3:AC:4:GLY:O	3:AC:5:LYS:HG3	2.06	0.56
1:AA:1047:G:HO2'	1:AA:1048:A:P	2.29	0.56
1:AA:1056:G:H4'	1:AA:1057:A:C5'	2.34	0.56
1:AA:1037:G:N1	1:AA:1119:C:C4	2.74	0.56
1:AA:1201:C:N4	1:AA:1241:A:H62	2.04	0.56
1:AA:1472:A:N7	1:AA:1474:C:C5	2.74	0.56
1:AA:1520:U:C5	1:AA:1520:U:OP2	2.59	0.56
1:AA:1558:A:H2	1:AA:1560:G:C8	2.24	0.56
1:AA:1591:G:H2'	1:AA:1592:C:C6	2.40	0.56
1:AA:1655:A:H3'	1:AA:1656:C:H6	1.70	0.56
1:AA:1780:A:O2'	1:AA:1781:C:OP1	2.22	0.56
1:AA:1811:G:H2'	1:AA:1812:A:O4'	2.06	0.56
1:AA:1838:C:O2	1:AA:1838:C:C2'	2.52	0.56
1:AA:1964:G:N1	1:AA:1967:C:C5	2.72	0.56
1:AA:2067:G:N1	1:AA:2069:G:C4	2.73	0.56
1:AA:184:C:O3'	1:AA:217:G:N2	2.38	0.56
1:AA:2184:G:H2'	1:AA:2184:G:N3	2.21	0.56
1:AA:2211:G:H21	1:AA:2212:A:C5'	2.19	0.56
1:AA:2366:A:N6	1:AA:2367:G:C2	2.74	0.56
1:AA:2371:G:C2'	1:AA:2372:G:O4'	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:236:C:N3	1:AA:237:C:C5	2.74	0.56
1:AA:2463:C:H2'	1:AA:2464:C:C5'	2.36	0.56
1:AA:257:A:O2'	1:AA:258:G:H5'	2.06	0.56
1:AA:2594:C:H2'	1:AA:2595:G:O4'	2.06	0.56
1:AA:2617:C:N3	1:AA:2618:G:C8	2.74	0.56
1:AA:269:U:O2	1:AA:269:U:H2'	2.06	0.56
59:AA:3003:8AN:N7	56:BE:75:C:C2	2.74	0.56
1:AA:389:G:N3	1:AA:389:G:H2'	2.21	0.56
1:AA:424:G:C2'	1:AA:425:G:H5'	2.35	0.56
1:AA:547:A:O2'	1:AA:548:A:H5'	2.06	0.56
1:AA:575:A:HO2'	1:AA:576:U:H5'	1.69	0.56
1:AA:584:C:H2'	1:AA:585:G:C5'	2.36	0.56
1:AA:609:A:N1	1:AA:619:G:C2	2.74	0.56
1:AA:714:U:O4	1:AA:717:G:OP2	2.24	0.56
1:AA:740:U:H2'	1:AA:741:G:O5'	2.04	0.56
1:AA:785:G:C4	1:AA:786:C:C5	2.94	0.56
1:AA:786:C:H5''	1:AA:1780:A:H8	1.70	0.56
1:AA:196:A:C6	1:AA:828:U:H5''	2.38	0.56
1:AA:914:C:H5	1:AA:915:C:C5	2.23	0.56
1:AA:955:C:H5''	12:AN:87:LYS:CE	2.36	0.56
1:AA:960:A:C4	1:AA:962:G:C8	2.94	0.56
1:AA:996:A:N6	1:AA:1160:G:C6	2.74	0.56
2:AB:109:G:N1	2:AB:110:G:C5	2.74	0.56
2:AB:74:U:H2'	2:AB:75:G:C1'	2.36	0.56
3:AC:104:LEU:HD13	3:AC:130:ILE:CD1	2.34	0.56
3:AC:10:LEU:HD13	3:AC:13:LYS:HD2	1.86	0.56
1:AA:729:G:OP1	4:AD:13:ARG:NH2	2.39	0.56
4:AD:148:GLU:HB2	4:AD:151:LYS:HG3	1.87	0.56
4:AD:226:MET:O	4:AD:228:PRO:N	2.38	0.56
4:AD:5:LYS:O	4:AD:27:THR:CG2	2.54	0.56
5:AE:149:ARG:HH11	5:AE:151:TYR:HA	1.71	0.56
5:AE:14:ILE:N	5:AE:14:ILE:HD12	2.15	0.56
7:AG:62:LEU:HD23	7:AG:143:GLU:HB3	1.86	0.56
7:AG:148:MET:HG2	7:AG:151:ALA:H	1.70	0.56
7:AG:49:ASP:CA	7:AG:53:LEU:HD13	2.36	0.56
8:AH:25:LYS:HZ3	8:AH:32:GLU:CB	2.15	0.56
8:AH:89:ILE:HG12	8:AH:94:TYR:CD2	2.41	0.56
8:AH:9:ILE:HD13	8:AH:73:ALA:HB2	1.87	0.56
32:AJ:12:LEU:HD11	32:AJ:41:PHE:HZ	1.70	0.56
9:AK:39:ARG:HG2	9:AK:40:PRO:CD	2.36	0.56
9:AK:42:TRP:O	9:AK:43:THR:CG2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:63:VAL:HG12	10:AL:99:PHE:CZ	2.41	0.56
11:AM:15:ARG:HH22	11:AM:16:ARG:HB2	1.71	0.56
12:AN:19:GLY:O	12:AN:20:ALA:HB3	2.06	0.56
12:AN:63:LYS:O	12:AN:106:VAL:HG13	2.06	0.56
13:AO:17:ARG:NH1	13:AO:17:ARG:HB2	2.21	0.56
14:AP:106:ARG:NH2	14:AP:110:LEU:CD2	2.58	0.56
2:AB:51:G:N7	14:AP:32:LEU:HD21	2.21	0.56
15:AQ:34:VAL:HG21	15:AQ:36:GLU:CD	2.25	0.56
10:AL:75:SER:O	15:AQ:77:PRO:O	2.23	0.56
1:AA:1152:C:H4'	16:AR:80:ILE:HG21	1.87	0.56
16:AR:81:HIS:O	16:AR:117:GLN:NE2	2.38	0.56
16:AR:92:ARG:C	16:AR:93:LYS:HZ3	2.09	0.56
1:AA:494:G:C5'	18:AT:7:ALA:HA	2.33	0.56
19:AU:65:ARG:HA	19:AU:70:LEU:CD1	2.36	0.56
19:AU:72:LYS:O	19:AU:73:ARG:CB	2.47	0.56
20:AV:32:PRO:HB2	20:AV:34:LYS:CG	2.35	0.56
22:AX:12:ASN:CA	22:AX:14:ARG:NE	2.69	0.56
24:AZ:10:LYS:CE	24:AZ:31:LEU:HD21	2.30	0.56
24:AZ:18:ASP:OD1	24:AZ:19:GLN:N	2.39	0.56
24:AZ:40:THR:O	24:AZ:41:PRO:C	2.40	0.56
24:AZ:4:LEU:CD2	24:AZ:56:VAL:HG23	2.27	0.56
34:BA:1049:U:C6	34:BA:1049:U:O5'	2.58	0.56
34:BA:1431:C:N4	34:BA:1470:G:C6	2.74	0.56
34:BA:237:C:H2'	34:BA:238:G:H8	1.71	0.56
10:AL:116:SER:HA	34:BA:345:C:H1'	1.87	0.56
34:BA:41:G:C4	34:BA:42:G:C8	2.94	0.56
34:BA:474:G:O5'	49:BT:81:ARG:HA	2.06	0.56
34:BA:791:G:H2'	34:BA:792:A:O4'	2.06	0.56
34:BA:890:G:C2'	34:BA:891:U:OP2	2.53	0.56
34:BA:935:A:H2'	34:BA:936:C:C6	2.40	0.56
34:BA:962:C:H2'	34:BA:963:G:C8	2.41	0.56
56:BE:18:G:C4	56:BE:58:A:C4	2.94	0.56
56:BE:18:G:N7	56:BE:58:A:C2	2.74	0.56
56:BE:73:A:O2'	56:BE:74:C:OP2	2.24	0.56
35:BF:130:ARG:HB3	35:BF:131:PRO:CD	2.31	0.56
36:BG:192:THR:HG22	36:BG:192:THR:O	2.06	0.56
36:BG:200:ALA:C	36:BG:201:TYR:CD1	2.79	0.56
36:BG:30:ARG:HD3	36:BG:30:ARG:H	1.71	0.56
37:BH:15:GLU:HB3	37:BH:19:LEU:HD11	1.88	0.56
37:BH:8:VAL:C	37:BH:10:ARG:N	2.59	0.56
38:BI:70:PRO:O	38:BI:76:ILE:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:109:ASN:HA	40:BK:119:ARG:HD3	1.88	0.56
40:BK:69:VAL:CG1	40:BK:104:LEU:HD21	2.36	0.56
41:BL:81:HIS:HB3	41:BL:138:TRP:O	2.05	0.56
42:BM:15:ALA:CB	42:BM:76:ALA:HB3	2.36	0.56
43:BN:28:ARG:HG2	43:BN:28:ARG:HH11	1.71	0.56
44:BO:44:SER:N	44:BO:47:VAL:HG21	2.21	0.56
45:BP:7:ILE:HB	45:BP:8:ASN:HD22	1.70	0.56
45:BP:97:ARG:HB3	45:BP:98:TYR:CD1	2.41	0.56
46:BQ:97:PRO:HG2	46:BQ:101:GLN:CG	2.32	0.56
46:BQ:56:LEU:HD13	46:BQ:56:LEU:O	2.06	0.56
46:BQ:6:GLY:O	46:BQ:7:VAL:HG22	2.06	0.56
50:BU:53:LEU:O	50:BU:53:LEU:HG	2.06	0.56
50:BU:53:LEU:O	50:BU:82:MET:SD	2.63	0.56
51:BV:22:VAL:HG22	51:BV:55:ARG:O	2.05	0.56
51:BV:51:LEU:N	51:BV:51:LEU:HD12	2.21	0.56
51:BV:58:LEU:C	51:BV:62:GLU:HB2	2.27	0.56
51:BV:74:ARG:CG	51:BV:74:ARG:HH11	2.17	0.56
53:BX:63:ILE:HG22	53:BX:64:ASP:N	2.21	0.56
57:BZ:122:LYS:HE3	57:BZ:155:ASP:O	2.05	0.56
57:BZ:403:VAL:O	57:BZ:465:LEU:CD1	2.54	0.56
57:BZ:546:MET:HB3	57:BZ:547:ARG:CA	2.36	0.56
46:BQ:48:LEU:CG	46:BQ:53:VAL:HG22	2.35	0.56
1:AA:1182:A:C6	1:AA:1183:G:C6	2.94	0.55
1:AA:1223:C:C4	1:AA:1227:A:N1	2.73	0.55
1:AA:1470:G:H2'	1:AA:1519:G:O6	2.07	0.55
1:AA:1635:G:C2'	1:AA:1636:C:H5'	2.36	0.55
1:AA:1460:A:N1	1:AA:1732:A:C6	2.74	0.55
1:AA:1905:C:O2'	1:AA:1929:G:O2'	2.22	0.55
1:AA:2011:U:C2'	1:AA:2012:G:H8	2.18	0.55
1:AA:2020:A:OP2	16:AR:27:LEU:HD22	2.06	0.55
1:AA:2163:C:C2'	1:AA:2164:C:H5'	2.36	0.55
1:AA:2306:C:OP1	7:AG:136:ARG:CD	2.53	0.55
1:AA:2311:A:H5''	1:AA:2312:U:H5	1.71	0.55
1:AA:2491:U:C6	1:AA:2492:U:OP2	2.59	0.55
1:AA:2512:C:H6	1:AA:2512:C:O5'	1.89	0.55
1:AA:1456:G:H1	1:AA:2703:C:H42	1.51	0.55
1:AA:2688:U:H1'	1:AA:2721:A:N6	2.22	0.55
1:AA:2740:A:N6	1:AA:2764:A:N9	2.54	0.55
1:AA:2785:C:C4	1:AA:2786:U:O4	2.59	0.55
1:AA:2794:C:H3'	1:AA:2799:A:C2	2.40	0.55
1:AA:2822:G:N7	13:AO:4:LEU:HD21	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2851:A:N1	1:AA:2852:G:N3	2.54	0.55
1:AA:41:C:C2	1:AA:43:G:C8	2.94	0.55
1:AA:565:C:O4'	1:AA:1252:G:O6	2.23	0.55
1:AA:811:U:H6	1:AA:811:U:O5'	1.86	0.55
1:AA:86:C:OP1	20:AV:30:VAL:HG23	2.05	0.55
1:AA:875:G:C6	1:AA:876:C:N4	2.75	0.55
1:AA:922:U:H2'	1:AA:923:C:C6	2.41	0.55
2:AB:61:G:C6	2:AB:62:C:N4	2.74	0.55
2:AB:80:U:C2'	2:AB:81:G:H8	2.19	0.55
2:AB:9:G:C2	2:AB:10:C:C4	2.94	0.55
4:AD:105:ILE:HD11	4:AD:106:ILE:HD13	1.88	0.55
5:AE:105:THR:HB	5:AE:166:THR:OG1	2.05	0.55
5:AE:46:ALA:HB2	5:AE:85:ASN:ND2	2.21	0.55
5:AE:66:HIS:C	5:AE:66:HIS:ND1	2.60	0.55
6:AF:9:ILE:HG21	6:AF:124:LEU:O	2.06	0.55
1:AA:2315:G:H4'	7:AG:130:ASN:OD1	2.06	0.55
8:AH:103:LEU:CD1	8:AH:115:VAL:HG11	2.23	0.55
8:AH:149:ARG:CZ	8:AH:164:TYR:CD1	2.82	0.55
8:AH:7:LEU:CA	8:AH:52:VAL:HG13	2.35	0.55
32:AJ:23:VAL:N	32:AJ:24:GLY:HA3	2.19	0.55
9:AK:97:ARG:CA	9:AK:100:GLU:HG2	2.32	0.55
9:AK:107:LEU:HD13	9:AK:117:PHE:CE1	2.41	0.55
9:AK:24:GLY:O	9:AK:27:ALA:N	2.40	0.55
9:AK:38:HIS:O	16:AR:71:GLN:NE2	2.39	0.55
10:AL:12:ASP:O	10:AL:94:ARG:CZ	2.54	0.55
10:AL:94:ARG:CG	10:AL:96:THR:N	2.67	0.55
11:AM:29:LYS:C	11:AM:30:THR:CG2	2.70	0.55
1:AA:943:U:P	11:AM:32:THR:HB	2.46	0.55
12:AN:114:ALA:O	12:AN:117:ALA:HB3	2.06	0.55
12:AN:6:ARG:NE	12:AN:8:LYS:HG3	2.21	0.55
13:AO:105:ARG:HG3	13:AO:106:GLY:N	2.20	0.55
13:AO:52:ILE:O	13:AO:56:LYS:HG3	2.06	0.55
14:AP:57:LYS:O	14:AP:58:LEU:HB2	2.06	0.55
14:AP:93:LYS:O	14:AP:98:VAL:HG13	2.06	0.55
15:AQ:30:VAL:C	15:AQ:32:TYR:OH	2.44	0.55
15:AQ:64:ARG:NH2	15:AQ:77:PRO:HB2	2.21	0.55
16:AR:29:SER:OG	16:AR:30:LYS:HD2	2.06	0.55
16:AR:37:GLU:O	16:AR:38:THR:C	2.44	0.55
16:AR:52:ARG:C	16:AR:54:LYS:N	2.58	0.55
1:AA:535:C:O2'	16:AR:53:ARG:HG2	2.06	0.55
17:AS:5:VAL:HG11	17:AS:37:VAL:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:40:LEU:N	17:AS:54:GLY:HA3	2.21	0.55
20:AV:29:GLU:OE1	20:AV:34:LYS:HB2	2.06	0.55
20:AV:81:LYS:HD3	20:AV:96:ILE:CG1	2.36	0.55
21:AW:23:LYS:HA	21:AW:39:VAL:O	2.06	0.55
1:AA:2277:G:N7	22:AX:14:ARG:HG3	2.21	0.55
22:AX:70:GLN:O	22:AX:78:TYR:O	2.23	0.55
34:BA:1125:U:H4'	34:BA:1126:U:H5	1.71	0.55
34:BA:1496:C:H2'	34:BA:1497:G:H8	1.71	0.55
34:BA:319:G:C2'	34:BA:320:C:H5'	2.36	0.55
34:BA:501:C:H2'	34:BA:502:G:C8	2.41	0.55
34:BA:815:A:C2	34:BA:1529:G:N2	2.73	0.55
56:BE:53:G:H2'	56:BE:54:U:C6	2.42	0.55
56:BE:73:A:H4'	56:BE:74:C:O2	2.05	0.55
35:BF:221:LEU:O	35:BF:221:LEU:HD22	2.07	0.55
36:BG:34:LEU:O	36:BG:38:ARG:HD3	2.06	0.55
34:BA:409:G:C5'	37:BH:24:GLU:OE1	2.54	0.55
37:BH:34:GLU:O	37:BH:35:ARG:CB	2.54	0.55
34:BA:8:A:H4'	38:BI:102:ALA:HA	1.87	0.55
38:BI:109:ILE:HG12	38:BI:110:LEU:HD23	1.87	0.55
38:BI:16:THR:CG2	38:BI:28:PHE:HA	2.34	0.55
38:BI:63:ARG:CA	38:BI:66:MET:HG2	2.35	0.55
39:BJ:60:PHE:HE2	51:BV:78:LEU:HD21	1.68	0.55
39:BJ:72:VAL:O	39:BJ:73:ASN:C	2.44	0.55
41:BL:102:ARG:HD3	41:BL:105:ARG:NH1	2.21	0.55
41:BL:114:THR:O	41:BL:116:LYS:N	2.39	0.55
42:BM:27:THR:HG22	42:BM:30:GLY:H	1.71	0.55
44:BO:71:LYS:HG3	44:BO:72:ALA:H	1.71	0.55
44:BO:80:VAL:CG2	44:BO:81:ASP:N	2.69	0.55
44:BO:83:ILE:HD12	44:BO:83:ILE:N	2.21	0.55
47:BR:23:ARG:HH11	47:BR:29:ARG:N	2.05	0.55
47:BR:42:ILE:O	47:BR:44:LEU:N	2.39	0.55
47:BR:48:ALA:HA	47:BR:53:LEU:HD12	1.88	0.55
48:BS:66:LEU:H	48:BS:66:LEU:HD23	1.70	0.55
49:BT:4:ILE:HG12	49:BT:66:PRO:HA	1.89	0.55
52:BW:12:ASP:OD1	52:BW:38:SER:HA	2.06	0.55
52:BW:45:VAL:CA	52:BW:67:VAL:HG21	2.37	0.55
53:BX:50:GLU:OE1	53:BX:100:ILE:HG12	2.05	0.55
34:BA:191:G:O2'	53:BX:102:GLY:O	2.21	0.55
54:BY:3:LYS:O	54:BY:14:TRP:CE3	2.59	0.55
57:BZ:11:ILE:CD1	57:BZ:95:VAL:CB	2.56	0.55
57:BZ:20:THR:HG21	60:BZ:701:GCP:O1A	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:483:ARG:HH12	57:BZ:576:GLU:CD	2.09	0.55
56:BD:16:U:H3'	56:BD:17:C:C5'	2.35	0.55
8:AH:152:ARG:HB2	8:AH:152:ARG:CZ	2.37	0.55
34:BA:772:U:C2	34:BA:773:G:C8	2.94	0.55
13:AO:60:LEU:H	13:AO:60:LEU:CD2	2.19	0.55
31:AI:135:ARG:C	31:AI:137:GLU:H	2.10	0.55
1:AA:987:G:HO2'	1:AA:1000:A:H1'	1.70	0.55
1:AA:1035:U:H2'	1:AA:1036:G:O4'	2.05	0.55
1:AA:1061:U:OP2	1:AA:1061:U:H6	1.90	0.55
1:AA:1069:A:H5'	1:AA:1070:A:C8	2.41	0.55
1:AA:1083:U:O2	1:AA:1083:U:H2'	2.07	0.55
1:AA:1105:U:N3	1:AA:1107:G:N1	2.54	0.55
1:AA:1106:G:H2'	1:AA:1107:G:H8	1.68	0.55
1:AA:1163:G:C6	1:AA:1164:G:N7	2.74	0.55
1:AA:1189:A:OP1	11:AM:29:LYS:HE3	2.05	0.55
1:AA:564:C:HO2'	1:AA:1252:G:H1	1.53	0.55
1:AA:1269:A:O5'	1:AA:1269:A:C8	2.59	0.55
1:AA:1447:G:H1'	1:AA:1545(A):A:C1'	2.36	0.55
1:AA:154:G:H2'	1:AA:155:C:C6	2.41	0.55
1:AA:1592:C:O2'	1:AA:1593:G:C5'	2.53	0.55
1:AA:1746:G:H2'	1:AA:1747:G:H8	1.67	0.55
1:AA:1784:A:H4'	1:AA:1785:A:C1'	2.37	0.55
1:AA:1923:U:C4	1:AA:1924:C:N4	2.73	0.55
1:AA:1937:A:O2'	1:AA:1938:A:OP1	2.23	0.55
1:AA:1936:A:C4	1:AA:1940:U:N3	2.74	0.55
1:AA:195:A:H5''	1:AA:196:A:OP2	2.07	0.55
1:AA:2003:G:N1	1:AA:2004:G:C2	2.74	0.55
1:AA:1655:A:N6	1:AA:2005:A:O2'	2.39	0.55
1:AA:2010:G:P	18:AT:41:LYS:HZ3	2.29	0.55
1:AA:2022:U:O2	1:AA:2022:U:C2'	2.53	0.55
1:AA:2048:G:C2	1:AA:2049:G:C4	2.94	0.55
1:AA:204:A:H5'	1:AA:206:U:O4'	2.06	0.55
1:AA:2261:C:H6	1:AA:2261:C:O5'	1.89	0.55
1:AA:239:U:O2'	1:AA:240:G:C5'	2.51	0.55
1:AA:2457:U:O2'	1:AA:2458:G:H5'	2.06	0.55
1:AA:2533:A:H4'	1:AA:2664:G:O3'	2.06	0.55
1:AA:270(U):C:H2'	1:AA:270(V):G:O4'	2.06	0.55
1:AA:2747:G:N2	1:AA:2754:U:H3	2.04	0.55
1:AA:2877:G:C2	1:AA:2878:U:C2	2.94	0.55
1:AA:460:A:H2'	1:AA:461:C:O4'	2.06	0.55
1:AA:475:U:C6	1:AA:475:U:OP2	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:27:G:H22	1:AA:512:G:C2'	2.20	0.55
1:AA:547:A:N6	1:AA:548:A:C6	2.74	0.55
1:AA:558:G:O2'	1:AA:559:G:H5''	2.07	0.55
1:AA:62:C:O5'	1:AA:62:C:H6	1.90	0.55
1:AA:988:A:OP1	24:AZ:12:PRO:HD2	2.07	0.55
2:AB:112:G:C5'	2:AB:113:C:OP2	2.54	0.55
2:AB:82:G:C2	2:AB:83:G:N7	2.74	0.55
3:AC:102:LYS:O	3:AC:105:ASP:HB2	2.05	0.55
3:AC:127:LEU:HB3	3:AC:131:LEU:CD1	2.36	0.55
4:AD:165:ILE:N	4:AD:165:ILE:HD12	2.21	0.55
4:AD:55:GLY:H	4:AD:219:PRO:HD2	1.62	0.55
4:AD:61:LEU:HB3	4:AD:86:PRO:HG2	1.82	0.55
5:AE:15:PHE:O	5:AE:16:ARG:C	2.44	0.55
1:AA:2734:A:N3	5:AE:203:LYS:HD2	2.21	0.55
5:AE:59:VAL:CG1	5:AE:62:PRO:HD2	2.36	0.55
6:AF:120:GLU:OE1	6:AF:120:GLU:HA	2.04	0.55
6:AF:196:LEU:HD22	6:AF:199:TRP:NE1	2.21	0.55
7:AG:1:MET:HB3	7:AG:2:PRO:HD3	1.88	0.55
7:AG:82:LEU:O	7:AG:83:ARG:HG3	2.07	0.55
32:AJ:78:ILE:HG21	32:AJ:122:ALA:O	2.04	0.55
9:AK:100:GLU:HB3	9:AK:104:LYS:HE2	1.89	0.55
9:AK:126:PRO:O	9:AK:127:ASP:HB3	2.07	0.55
9:AK:15:LEU:CD1	9:AK:137:LYS:HB3	2.35	0.55
9:AK:28:THR:C	9:AK:31:ALA:HB3	2.26	0.55
9:AK:33:LEU:HD22	9:AK:33:LEU:O	2.05	0.55
11:AM:90:ARG:CA	11:AM:125:VAL:HG22	2.36	0.55
6:AF:31:HIS:CG	11:AM:14:LYS:NZ	2.74	0.55
11:AM:46:LYS:N	11:AM:46:LYS:CE	2.64	0.55
11:AM:81:GLN:CA	11:AM:86:LYS:HG3	2.36	0.55
13:AO:17:ARG:CB	13:AO:17:ARG:NH1	2.69	0.55
14:AP:106:ARG:CD	14:AP:107:GLU:OE2	2.54	0.55
15:AQ:85:LYS:HZ2	15:AQ:85:LYS:CB	2.18	0.55
16:AR:45:TYR:O	16:AR:49:HIS:ND1	2.39	0.55
18:AT:20:VAL:CG1	18:AT:21:VAL:N	2.67	0.55
19:AU:52:VAL:O	19:AU:82:GLN:HB3	2.05	0.55
20:AV:74:PRO:C	20:AV:76:CYS:N	2.54	0.55
21:AW:56:VAL:HG13	21:AW:133:ILE:CD1	2.36	0.55
21:AW:87:ASP:N	21:AW:87:ASP:OD2	2.39	0.55
34:BA:1095:U:H5'	34:BA:1109:C:O2	2.07	0.55
34:BA:1112:C:O2	36:BG:179:ARG:CZ	2.52	0.55
34:BA:1268:A:C2	34:BA:1311:G:C4	2.92	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1299:A:N6	34:BA:1301:U:C2	2.74	0.55
34:BA:1238:A:N6	34:BA:1301:U:H3	1.97	0.55
34:BA:1428:A:C6	34:BA:1429:C:N4	2.75	0.55
34:BA:258:G:H2'	34:BA:259:G:H8	1.71	0.55
34:BA:413:G:H2'	34:BA:414:A:OP2	2.06	0.55
34:BA:593:G:C5	34:BA:594:G:C8	2.94	0.55
34:BA:738:C:C2	34:BA:739:C:C5	2.93	0.55
34:BA:797:C:HO2'	34:BA:798:G:H5'	1.70	0.55
34:BA:862:C:C2	34:BA:863:U:H5	2.24	0.55
34:BA:22:G:C5'	34:BA:885:G:O4'	2.53	0.55
56:BE:5:G:C1'	56:BE:7:A:H5''	2.27	0.55
35:BF:149:LEU:C	35:BF:151:GLY:N	2.56	0.55
35:BF:54:THR:HG23	35:BF:199:TYR:HB3	1.89	0.55
35:BF:52:GLU:OE1	35:BF:53:ARG:HB2	2.06	0.55
36:BG:150:LYS:NZ	36:BG:152:ILE:CG2	2.69	0.55
36:BG:155:GLY:O	36:BG:196:LEU:HB2	2.06	0.55
36:BG:47:LEU:CD1	36:BG:83:ARG:NH2	2.70	0.55
36:BG:65:ALA:O	36:BG:66:VAL:HB	2.06	0.55
36:BG:52:LEU:CA	36:BG:70:VAL:HG22	2.27	0.55
37:BH:114:ARG:O	37:BH:117:ALA:HB3	2.04	0.55
37:BH:120:LEU:HG	37:BH:121:VAL:N	2.21	0.55
37:BH:123:HIS:HB2	37:BH:125:HIS:HE1	1.71	0.55
37:BH:179:GLU:O	37:BH:181:MET:N	2.33	0.55
37:BH:78:LEU:O	37:BH:81:GLU:N	2.39	0.55
39:BJ:49:ALA:HB3	51:BV:79:LEU:CA	2.36	0.55
39:BJ:7:ASN:C	39:BJ:8:ILE:CG1	2.74	0.55
40:BK:110:GLN:O	40:BK:111:ARG:O	2.24	0.55
40:BK:17:VAL:O	40:BK:17:VAL:CG1	2.55	0.55
40:BK:57:GLU:O	40:BK:61:VAL:HG23	2.06	0.55
41:BL:123:GLU:OE1	41:BL:124:ALA:N	2.39	0.55
34:BA:591:U:OP1	41:BL:30:ARG:CZ	2.54	0.55
41:BL:44:PHE:O	41:BL:64:LYS:CD	2.55	0.55
43:BN:32:ALA:O	43:BN:33:GLN:HB2	2.05	0.55
43:BN:32:ALA:HB2	43:BN:75:ILE:O	2.05	0.55
44:BO:112:THR:O	44:BO:112:THR:HG22	2.06	0.55
44:BO:31:THR:OG1	44:BO:42:TRP:HB3	2.05	0.55
45:BP:24:VAL:HG23	45:BP:97:ARG:CG	2.24	0.55
45:BP:85:ILE:CD1	45:BP:98:TYR:HB3	2.37	0.55
46:BQ:5:ALA:HB3	46:BQ:67:GLU:OE1	2.06	0.55
49:BT:12:LYS:NZ	49:BT:13:HIS:CE1	2.74	0.55
49:BT:20:VAL:HG12	49:BT:21:VAL:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:44:ALA:CB	50:BU:71:PHE:O	2.55	0.55
50:BU:86:GLU:O	50:BU:89:LEU:HB2	2.05	0.55
51:BV:45:SER:HB3	51:BV:51:LEU:CD1	2.31	0.55
51:BV:80:PRO:O	51:BV:81:PHE:C	2.44	0.55
52:BW:18:LYS:HE2	52:BW:22:LEU:HB2	1.88	0.55
52:BW:51:VAL:CG1	52:BW:75:ALA:HB2	2.34	0.55
53:BX:86:ARG:HG2	53:BX:87:LYS:N	2.21	0.55
54:BY:6:ARG:HH11	54:BY:15:ARG:NH2	2.03	0.55
57:BZ:389:PHE:CG	57:BZ:396:LYS:CG	2.89	0.55
57:BZ:488:LEU:HG	57:BZ:526:ILE:CA	2.36	0.55
57:BZ:87:ARG:HH21	57:BZ:210:SER:HB3	1.70	0.55
57:BZ:411:HIS:CD2	57:BZ:459:THR:CG2	2.89	0.55
14:AP:33:LYS:HE2	14:AP:54:LEU:CD2	2.35	0.55
9:AK:139:GLU:C	9:AK:139:GLU:OE2	2.45	0.55
1:AA:1024:G:C2	1:AA:1139:G:N2	2.74	0.55
1:AA:1027:A:H2'	1:AA:1028:A:C8	2.41	0.55
1:AA:1083:U:O2'	1:AA:1084:A:H5''	2.07	0.55
1:AA:1178:C:C4	1:AA:1179:C:N4	2.74	0.55
1:AA:840:C:H4'	1:AA:1192:G:O2'	2.07	0.55
1:AA:1392:A:H2'	1:AA:1393:A:C8	2.42	0.55
1:AA:1455:G:C2'	1:AA:1456:G:H5'	2.37	0.55
1:AA:1515:C:C6	1:AA:1515:C:OP1	2.59	0.55
1:AA:1658:C:OP1	5:AE:134:ILE:CB	2.51	0.55
1:AA:1670:C:OP2	1:AA:1671:U:H5	1.82	0.55
1:AA:1688:U:C2'	1:AA:1689:A:OP2	2.54	0.55
1:AA:1692:U:H1'	1:AA:1696:G:H21	1.71	0.55
1:AA:1718:G:C2'	1:AA:1725:G:H8	2.05	0.55
1:AA:172:C:C6	1:AA:173:G:C8	2.93	0.55
1:AA:1827:C:C1'	1:AA:1970:A:H2	2.20	0.55
1:AA:2002:G:H4'	1:AA:2712(A):A:O2'	2.06	0.55
1:AA:2047:U:O2'	1:AA:2048:G:O5'	2.24	0.55
1:AA:2067:G:C6	1:AA:2069:G:C5	2.94	0.55
1:AA:2168:G:N3	1:AA:2170:A:C8	2.74	0.55
1:AA:2206:C:O2'	1:AA:2207:C:H5'	2.07	0.55
1:AA:2209:C:H2'	1:AA:2210:G:C3'	2.36	0.55
1:AA:2309:A:H3'	1:AA:2309:A:N3	2.21	0.55
1:AA:2423:U:C1'	1:AA:2425:A:C4	2.89	0.55
1:AA:2436:G:O2'	1:AA:2437:U:H5'	2.06	0.55
1:AA:2486:G:N1	1:AA:2487:G:C5	2.75	0.55
1:AA:2501:C:H5''	1:AA:2502:G:H5''	1.88	0.55
1:AA:252:G:H21	1:AA:253:C:H1'	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2730:C:H4'	5:AE:169:ASN:O	2.06	0.55
1:AA:2845:G:C5'	15:AQ:57:PHE:O	2.55	0.55
1:AA:341:G:H2'	1:AA:342:G:O4'	2.07	0.55
1:AA:542:C:H2'	1:AA:543:C:H6	1.72	0.55
1:AA:643:A:H4'	1:AA:644:A:C5'	2.35	0.55
1:AA:768:G:H2'	1:AA:769:G:H8	1.71	0.55
1:AA:876:C:H6	1:AA:876:C:O5'	1.89	0.55
1:AA:950:G:C4	1:AA:951:C:C5	2.94	0.55
1:AA:958:U:O4	12:AN:19:GLY:O	2.23	0.55
1:AA:975:G:N3	1:AA:975:G:H2'	2.21	0.55
2:AB:69:G:C5'	2:AB:70:C:OP2	2.54	0.55
4:AD:148:GLU:HA	4:AD:186:HIS:HE1	1.71	0.55
1:AA:2596:U:C2'	4:AD:242:ARG:NH1	2.53	0.55
4:AD:244:ARG:HA	4:AD:252:TRP:NE1	2.21	0.55
4:AD:63:ARG:HG2	4:AD:65:ILE:HG12	1.88	0.55
4:AD:94:LEU:HD12	4:AD:95:LEU:N	2.21	0.55
7:AG:128:ARG:CZ	7:AG:130:ASN:HD21	2.19	0.55
7:AG:54:GLU:OE2	7:AG:70:VAL:HG22	2.06	0.55
7:AG:68:PRO:HB3	7:AG:72:ARG:NH1	2.21	0.55
8:AH:30:LYS:O	8:AH:32:GLU:N	2.39	0.55
8:AH:6:ARG:HD3	8:AH:69:ARG:HD3	1.87	0.55
32:AJ:99:ILE:HG22	32:AJ:99:ILE:O	2.05	0.55
9:AK:25:ARG:C	9:AK:28:THR:HG23	2.27	0.55
9:AK:49:GLY:O	9:AK:50:ASP:O	2.24	0.55
9:AK:16:ILE:CD1	9:AK:52:VAL:HG22	2.11	0.55
10:AL:59:LYS:CB	10:AL:84:ALA:O	2.50	0.55
12:AN:93:TYR:N	12:AN:93:TYR:CD1	2.73	0.55
12:AN:98:LYS:N	12:AN:98:LYS:HE3	2.21	0.55
12:AN:99:PRO:HG2	12:AN:99:PRO:O	2.07	0.55
14:AP:8:GLU:C	14:AP:10:ARG:N	2.58	0.55
14:AP:17:ARG:NH1	14:AP:25:ARG:HD2	2.21	0.55
14:AP:26:LEU:H	14:AP:88:ASP:HB2	1.71	0.55
14:AP:51:ALA:CA	14:AP:73:LEU:HG	2.36	0.55
1:AA:18:C:H4'	16:AR:23:GLY:O	2.06	0.55
16:AR:59:ARG:HB3	16:AR:59:ARG:HH11	1.70	0.55
18:AT:43:GLY:O	18:AT:44:ALA:C	2.45	0.55
22:AX:57:PHE:CD1	22:AX:57:PHE:N	2.73	0.55
23:AY:15:GLU:O	23:AY:16:LEU:C	2.44	0.55
23:AY:63:ARG:HB3	23:AY:63:ARG:HH21	1.71	0.55
34:BA:105:G:H2'	34:BA:106:C:H6	1.70	0.55
34:BA:1110:A:C4	34:BA:1111:A:C8	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1217:C:H2'	34:BA:1218:C:H6	1.71	0.55
34:BA:1269:A:H5'	34:BA:1326:C:H4'	1.87	0.55
34:BA:1443:G:H4'	34:BA:1446:A:O5'	2.05	0.55
34:BA:324:G:N2	34:BA:327:A:OP2	2.39	0.55
34:BA:493:G:H2'	34:BA:494:U:C5	2.41	0.55
34:BA:619:U:O4	37:BH:134:ASP:OD1	2.24	0.55
34:BA:577:G:H1'	34:BA:816:A:C2	2.41	0.55
34:BA:817:C:C2	34:BA:819:A:H5'	2.40	0.55
34:BA:878:G:O4'	41:BL:3:THR:HG21	2.06	0.55
35:BF:105:PHE:CD1	35:BF:108:ILE:HB	2.42	0.55
34:BA:1104:G:O2'	35:BF:111:ARG:NH2	2.38	0.55
35:BF:84:GLU:OE2	35:BF:84:GLU:HA	2.06	0.55
36:BG:123:GLN:HB3	36:BG:128:PHE:CE2	2.41	0.55
34:BA:619:U:H3	37:BH:135:LEU:CD2	2.20	0.55
37:BH:63:LYS:N	37:BH:63:LYS:HD2	2.21	0.55
37:BH:98:GLU:HA	37:BH:103:ASN:HD21	1.65	0.55
40:BK:68:ASN:ND2	40:BK:127:ALA:O	2.39	0.55
40:BK:54:THR:O	40:BK:55:GLY:C	2.42	0.55
42:BM:118:LYS:HB2	42:BM:121:ARG:HB2	1.87	0.55
44:BO:92:GLU:OE2	44:BO:96:ARG:HB2	2.05	0.55
46:BQ:103:THR:O	46:BQ:105:THR:N	2.38	0.55
34:BA:953:G:N7	46:BQ:104:ARG:NH2	2.55	0.55
46:BQ:14:ARG:HE	46:BQ:42:ALA:HA	1.71	0.55
46:BQ:22:ILE:HB	46:BQ:25:ILE:CG1	2.24	0.55
34:BA:974:A:P	47:BR:31:ARG:HG2	2.46	0.55
50:BU:3:LYS:HE3	50:BU:62:SER:O	2.06	0.55
50:BU:8:GLY:O	50:BU:56:VAL:CG1	2.53	0.55
34:BA:189:U:H3	50:BU:63:ARG:HE	1.53	0.55
50:BU:44:ALA:HB1	50:BU:71:PHE:O	2.06	0.55
50:BU:84:LEU:O	50:BU:87:LYS:HB2	2.06	0.55
51:BV:79:LEU:N	51:BV:79:LEU:HD12	2.20	0.55
52:BW:3:ARG:HB3	52:BW:42:PRO:HA	1.89	0.55
53:BX:57:ARG:O	53:BX:58:LYS:C	2.44	0.55
57:BZ:173:GLY:HA3	57:BZ:174:LEU:C	2.26	0.55
57:BZ:205:PHE:HA	57:BZ:228:ARG:C	2.22	0.55
57:BZ:512:LEU:CD2	57:BZ:524:ILE:CG2	2.77	0.55
1:AA:2555:U:C4	57:BZ:547:ARG:NH2	2.51	0.55
57:BZ:28:GLN:HG3	57:BZ:60:ASN:HB3	1.88	0.55
31:AI:54:ALA:HB1	31:AI:83:TYR:CB	2.36	0.55
57:BZ:313:VAL:HG23	57:BZ:354:ASP:CB	2.35	0.55
57:BZ:499:PHE:C	57:BZ:540:GLY:HA2	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1487:G:H2'	1:AA:1488:G:H8	1.72	0.55
1:AA:1488:G:C2'	1:AA:1489:U:C5'	2.77	0.55
1:AA:1579:A:H61	1:AA:1581:G:H21	1.53	0.55
37:BH:172:PRO:CG	37:BH:193:ASP:HB3	2.37	0.55
1:AA:1034:G:C6	1:AA:1035:U:C4	2.94	0.55
1:AA:1072:C:H2'	1:AA:1093:G:N1	2.20	0.55
1:AA:1095:A:H2'	1:AA:1096:A:O4'	2.07	0.55
1:AA:1134:G:C5	1:AA:1136:G:OP2	2.59	0.55
1:AA:1224:G:C2'	17:AS:87:HIS:CE1	2.89	0.55
1:AA:1286:A:C2	1:AA:1329:U:C2	2.94	0.55
1:AA:1407:C:C2	1:AA:1408:C:C5	2.94	0.55
1:AA:1456:G:C2	1:AA:1457:A:C8	2.94	0.55
1:AA:1527:G:C1'	1:AA:1528:A:N3	2.68	0.55
1:AA:1565:C:C4	1:AA:1567:A:C8	2.94	0.55
1:AA:1642:G:HO2'	1:AA:1643:G:H5'	1.72	0.55
1:AA:1679:U:H4'	1:AA:1990:C:O2'	2.06	0.55
1:AA:1698:A:O2'	1:AA:1699:G:P	2.64	0.55
1:AA:1819:A:H3'	4:AD:178:PRO:CB	2.29	0.55
1:AA:572:A:C2	1:AA:2033:A:C2	2.92	0.55
1:AA:2041:U:O2	1:AA:2042:A:C8	2.60	0.55
1:AA:2056:G:C4	1:AA:2577:A:N3	2.75	0.55
1:AA:2132:U:O2	1:AA:2132:U:C2'	2.53	0.55
1:AA:2215:G:O5'	1:AA:2215:G:C8	2.60	0.55
1:AA:2271:G:H5'	22:AX:20:ARG:HH12	1.71	0.55
1:AA:2273:A:H8	1:AA:2274:A:O4'	1.89	0.55
1:AA:2385:C:N3	1:AA:2386:C:C6	2.74	0.55
1:AA:2498:C:C3'	1:AA:2499:C:H5''	2.37	0.55
1:AA:253:C:H2'	1:AA:254:G:O5'	2.06	0.55
1:AA:2558:C:H2'	1:AA:2558:C:O2	2.07	0.55
1:AA:2668:G:N2	1:AA:2669:G:C2	2.75	0.55
1:AA:270(E):G:OP2	1:AA:270(E):G:C8	2.60	0.55
1:AA:2756:U:O2'	1:AA:2757:A:C5'	2.55	0.55
1:AA:2639:A:C4	1:AA:2778:A:C2	2.95	0.55
1:AA:2827:C:O2'	1:AA:2828:C:H5'	2.05	0.55
1:AA:1455:G:H1'	1:AA:2853:C:OP1	2.06	0.55
59:AA:3003:8AN:N7	56:BE:75:C:N3	2.54	0.55
1:AA:330:A:H2	1:AA:1210:A:H2'	1.70	0.55
1:AA:108:U:H4'	1:AA:348:G:C2	2.41	0.55
1:AA:348:G:N3	1:AA:349:G:C8	2.75	0.55
1:AA:556:G:C4	1:AA:557:U:C5	2.94	0.55
1:AA:562:U:N3	1:AA:572:A:N3	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:627:A:C1'	1:AA:637:A:C6	2.89	0.55
1:AA:679:C:H2'	1:AA:679:C:O2	2.06	0.55
1:AA:721:C:N3	1:AA:722:A:N7	2.55	0.55
1:AA:730:C:O2	1:AA:730:C:H2'	2.06	0.55
1:AA:764:A:C6	1:AA:1789:A:H2	2.24	0.55
1:AA:786:C:H5''	1:AA:1780:A:C8	2.41	0.55
1:AA:824:A:C3'	1:AA:825:C:C5	2.89	0.55
1:AA:838:C:N3	1:AA:941:A:N7	2.54	0.55
1:AA:852:G:C5	1:AA:853:G:N7	2.75	0.55
1:AA:878:A:C5	1:AA:898:C:N4	2.74	0.55
1:AA:949:C:C2	1:AA:950:G:N7	2.74	0.55
1:AA:977:G:O2'	1:AA:978:G:H5'	2.06	0.55
2:AB:1:U:C4	2:AB:2:C:N4	2.75	0.55
2:AB:73:A:C2	2:AB:74:U:C2	2.95	0.55
2:AB:80:U:C2	2:AB:81:G:N7	2.74	0.55
4:AD:75:ILE:O	4:AD:76:PRO:C	2.42	0.55
4:AD:78:LYS:O	4:AD:95:LEU:HD22	2.06	0.55
5:AE:120:TRP:CD1	5:AE:120:TRP:C	2.77	0.55
1:AA:2786:U:O4'	5:AE:65:GLY:HA2	2.06	0.55
6:AF:106:ARG:CG	6:AF:107:LYS:N	2.65	0.55
6:AF:116:ASP:HA	6:AF:119:ARG:HG3	1.87	0.55
6:AF:120:GLU:CA	6:AF:120:GLU:OE1	2.54	0.55
6:AF:43:LYS:HG3	6:AF:98:SER:CA	2.37	0.55
7:AG:140:ILE:HG22	7:AG:141:PHE:CD1	2.41	0.55
7:AG:86:MET:H	7:AG:87:PRO:HD3	1.71	0.55
1:AA:1080:C:H5	32:AJ:132:ARG:NH2	2.01	0.55
9:AK:127:ASP:OD1	9:AK:128:HIS:ND1	2.39	0.55
9:AK:67:LEU:HA	9:AK:70:LYS:NZ	2.21	0.55
10:AL:24:VAL:HG21	10:AL:30:ALA:HA	1.87	0.55
10:AL:86:ILE:HG21	10:AL:90:GLN:HA	1.87	0.55
11:AM:55:ARG:O	11:AM:56:SER:CB	2.46	0.55
12:AN:26:TYR:H	12:AN:102:VAL:CB	2.19	0.55
12:AN:29:PHE:HB2	12:AN:104:PHE:CD2	2.40	0.55
12:AN:124:LYS:O	12:AN:125:LEU:C	2.44	0.55
15:AQ:107:ASP:N	15:AQ:107:ASP:OD1	2.40	0.55
9:AK:4:TYR:CE2	16:AR:100:VAL:HB	2.41	0.55
16:AR:97:ASP:CB	16:AR:101:ARG:NH2	2.66	0.55
17:AS:50:PRO:CB	17:AS:53:GLU:OE1	2.55	0.55
18:AT:7:ALA:O	18:AT:102:HIS:HA	2.05	0.55
18:AT:72:LYS:CB	18:AT:108:GLY:HA3	2.36	0.55
18:AT:7:ALA:N	18:AT:103:ILE:HD13	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:102:LEU:HD21	21:AW:125:LEU:HD12	1.87	0.55
21:AW:152:ALA:CA	21:AW:155:LEU:HD22	2.37	0.55
21:AW:10:ARG:CB	21:AW:36:LYS:HD2	2.25	0.55
22:AX:45:PHE:HB3	22:AX:59:LEU:HD11	1.88	0.55
22:AX:9:SER:C	22:AX:10:THR:O	2.41	0.55
19:AU:7:VAL:CG2	23:AY:31:ARG:NH2	2.65	0.55
34:BA:1065:U:C5	34:BA:1190:G:H1'	2.42	0.55
34:BA:1213:A:N6	34:BA:1215:G:C2	2.74	0.55
34:BA:1524:C:H2'	34:BA:1525:G:O4'	2.06	0.55
34:BA:164:U:H2'	34:BA:165:C:C6	2.39	0.55
34:BA:465:A:H5'	34:BA:466:C:OP2	2.06	0.55
34:BA:476:G:O2'	34:BA:477:G:H5'	2.06	0.55
34:BA:582:U:O5'	34:BA:582:U:H6	1.90	0.55
34:BA:768:A:N6	34:BA:769:G:C6	2.74	0.55
34:BA:781:A:O2'	34:BA:782:A:OP1	2.24	0.55
34:BA:920:U:H2'	34:BA:921:U:H6	1.72	0.55
34:BA:925:G:O2'	34:BA:927:G:OP1	2.18	0.55
34:BA:978:A:H8	34:BA:980:C:N4	2.05	0.55
56:BE:41:C:O2	56:BE:41:C:H2'	2.06	0.55
34:BA:1339:A:C4'	56:BE:41:C:O4'	2.47	0.55
35:BF:12:GLU:OE1	35:BF:209:ARG:NH2	2.40	0.55
35:BF:23:ARG:HH11	35:BF:24:TRP:H	1.48	0.55
36:BG:110:ASN:HD21	36:BG:140:ARG:CG	2.19	0.55
36:BG:40:ARG:HA	36:BG:43:LEU:CD1	2.33	0.55
37:BH:118:ARG:HG3	37:BH:118:ARG:NH2	2.21	0.55
37:BH:170:VAL:HG11	37:BH:174:LEU:HD12	1.88	0.55
37:BH:171:GLY:HA3	37:BH:173:TRP:HZ3	1.71	0.55
37:BH:13:ARG:HB3	37:BH:40:PRO:HD3	1.89	0.55
37:BH:58:LEU:HD22	37:BH:62:GLN:HG2	1.88	0.55
38:BI:109:ILE:HD11	38:BI:139:LEU:CD1	2.35	0.55
40:BK:63:LYS:O	40:BK:66:VAL:HB	2.05	0.55
41:BL:114:THR:C	41:BL:116:LYS:H	2.09	0.55
41:BL:82:HIS:CD2	41:BL:138:TRP:HE1	2.24	0.55
41:BL:138:TRP:CE3	41:BL:138:TRP:OXT	2.60	0.55
41:BL:17:THR:HB	41:BL:18:ARG:NH2	2.21	0.55
41:BL:6:ILE:HD12	41:BL:85:ARG:HD3	1.88	0.55
42:BM:58:HIS:HD2	42:BM:59:PHE:CE1	2.23	0.55
42:BM:37:PHE:CE1	42:BM:74:ILE:HG12	2.41	0.55
43:BN:26:ALA:C	43:BN:28:ARG:H	2.09	0.55
45:BP:24:VAL:HG13	45:BP:98:TYR:CE2	2.41	0.55
45:BP:27:LEU:CD2	45:BP:33:ARG:HH11	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:71:GLN:N	48:BS:78:TYR:HD1	2.03	0.55
49:BT:39:TYR:HD1	49:BT:40:ASP:N	2.03	0.55
50:BU:92:ARG:O	50:BU:95:TYR:N	2.36	0.55
51:BV:34:TYR:HE1	51:BV:35:ARG:HE	1.53	0.55
51:BV:75:ILE:HG22	51:BV:76:LEU:N	2.21	0.55
52:BW:9:VAL:CG1	52:BW:41:VAL:CG2	2.80	0.55
53:BX:53:LEU:HD21	53:BX:92:LEU:CD1	2.37	0.55
54:BY:9:ARG:O	54:BY:10:ARG:C	2.43	0.55
57:BZ:109:THR:C	57:BZ:111:PHE:H	2.10	0.55
57:BZ:173:GLY:CA	57:BZ:174:LEU:C	2.74	0.55
57:BZ:253:LYS:CB	57:BZ:262:ARG:HG3	2.35	0.55
57:BZ:317:PRO:HD2	57:BZ:318:PHE:H	1.71	0.55
57:BZ:50:LYS:NZ	57:BZ:368:VAL:CG2	2.70	0.55
57:BZ:400:TYR:C	57:BZ:442:VAL:HG13	2.25	0.55
57:BZ:69:ARG:HG3	57:BZ:70:ILE:O	2.07	0.55
56:BD:65:G:N1	56:BD:66:U:C2	2.74	0.55
37:BH:151:LYS:HD2	37:BH:151:LYS:H	1.71	0.55
45:BP:18:VAL:O	45:BP:19:ARG:HB2	2.06	0.55
1:AA:1174:A:H2'	1:AA:1175:U:C5'	2.20	0.55
1:AA:1175:U:H5'	1:AA:1176:G:P	2.47	0.55
1:AA:1179:C:H6	1:AA:1179:C:OP2	1.90	0.55
1:AA:1256:G:C4	1:AA:1257:C:C5	2.94	0.55
1:AA:1522:G:H3'	1:AA:1522:G:C8	2.41	0.55
1:AA:13:A:C8	1:AA:15:G:O6	2.59	0.55
1:AA:161:U:O2	1:AA:161:U:H2'	2.06	0.55
1:AA:1718:G:N2	1:AA:1742:C:C4	2.75	0.55
1:AA:1782:C:C6	1:AA:1782:C:H3'	2.41	0.55
1:AA:1935:G:O2'	1:AA:1937:A:C2	2.40	0.55
1:AA:1953:A:H62	1:AA:2550:G:H4'	1.71	0.55
1:AA:2052:G:C5	1:AA:2053:G:N7	2.74	0.55
1:AA:2163:C:H2'	1:AA:2164:C:H5'	1.88	0.55
1:AA:2094:G:N2	1:AA:2196:C:C2	2.75	0.55
1:AA:2273:A:C8	1:AA:2274:A:C8	2.94	0.55
1:AA:2322:A:N3	1:AA:2322:A:H2'	2.20	0.55
1:AA:2484:G:H1'	12:AN:124:LYS:HZ3	1.71	0.55
1:AA:2458:G:C8	1:AA:2490:G:O6	2.60	0.55
1:AA:2560:C:C2'	1:AA:2561:A:H5'	2.36	0.55
1:AA:2570:G:N2	1:AA:2571:C:N1	2.54	0.55
1:AA:267:C:OP2	1:AA:271(A):C:C5	2.60	0.55
1:AA:2718:G:C5	1:AA:2719:G:C5	2.94	0.55
1:AA:2747:G:N2	1:AA:2748:A:N6	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2523:G:C1'	1:AA:2765:A:H62	2.17	0.55
1:AA:2793:G:C2	1:AA:2803:C:C2	2.94	0.55
1:AA:27:G:N2	1:AA:512:G:C2'	2.69	0.55
1:AA:2815:C:C2	1:AA:2816:C:C5	2.94	0.55
1:AA:334:C:OP2	1:AA:335:C:H5	1.90	0.55
1:AA:410:G:H8	1:AA:410:G:O5'	1.89	0.55
1:AA:434:U:O2'	1:AA:435:C:O5'	2.23	0.55
1:AA:516:C:H2'	1:AA:517:C:H6	1.69	0.55
1:AA:529:A:O3'	1:AA:530:G:C8	2.60	0.55
1:AA:735:A:H2'	1:AA:736:C:C5'	2.37	0.55
1:AA:819:A:C8	1:AA:973:A:C2	2.95	0.55
1:AA:908:C:H2'	1:AA:909:A:O5'	2.07	0.55
3:AC:161:ILE:HG23	3:AC:188:ASN:ND2	2.22	0.55
3:AC:171:ILE:HD11	3:AC:192:PHE:CE2	2.04	0.55
3:AC:44:HIS:HB2	3:AC:213:TYR:HB2	1.88	0.55
4:AD:5:LYS:HD2	4:AD:113:VAL:CG2	2.36	0.55
1:AA:779:U:OP1	4:AD:50:THR:HB	2.07	0.55
4:AD:7:LYS:CD	4:AD:25:THR:HG22	2.36	0.55
5:AE:148:GLY:O	5:AE:149:ARG:CB	2.54	0.55
6:AF:106:ARG:HG3	6:AF:107:LYS:H	1.67	0.55
6:AF:201:VAL:HG12	6:AF:205:ARG:CZ	2.36	0.55
7:AG:9:ARG:HD2	7:AG:10:LYS:CE	2.37	0.55
8:AH:162:ILE:C	8:AH:163:TYR:CD1	2.80	0.55
8:AH:88:LEU:HD23	8:AH:89:ILE:C	2.27	0.55
9:AK:100:GLU:HB3	9:AK:104:LYS:CE	2.36	0.55
9:AK:87:LEU:HA	9:AK:90:MET:CB	2.36	0.55
10:AL:20:MET:O	10:AL:41:ALA:HB1	2.07	0.55
10:AL:49:ARG:NE	34:BA:1423:G:OP1	2.39	0.55
12:AN:119:ARG:O	12:AN:123:HIS:HB2	2.05	0.55
13:AO:116:LEU:O	13:AO:116:LEU:HG	2.07	0.55
1:AA:2881:C:OP1	13:AO:90:ARG:NH1	2.40	0.55
14:AP:7:TYR:O	14:AP:11:LYS:HD3	2.07	0.55
14:AP:24:LEU:H	14:AP:86:ALA:HB2	1.70	0.55
14:AP:24:LEU:HD23	14:AP:39:ILE:HG22	1.86	0.55
14:AP:74:ALA:CB	14:AP:104:GLY:O	2.53	0.55
14:AP:75:GLU:C	14:AP:78:LEU:HB3	2.25	0.55
10:AL:106:LEU:CD2	15:AQ:38:ASN:HD21	2.19	0.55
15:AQ:23:ARG:NH2	15:AQ:88:ILE:O	2.40	0.55
1:AA:2848:G:C1'	15:AQ:99:LEU:HD21	2.37	0.55
16:AR:57:PHE:HA	16:AR:60:LEU:CD1	2.37	0.55
17:AS:11:GLN:O	17:AS:21:ARG:CD	2.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:81:ALA:CB	18:AT:98:LYS:O	2.54	0.55
19:AU:29:TRP:CB	19:AU:76:ARG:HH21	2.19	0.55
20:AV:97:ARG:CA	20:AV:101:LYS:HG3	2.27	0.55
20:AV:37:VAL:CG1	20:AV:64:GLU:HG2	2.34	0.55
20:AV:12:THR:CG2	20:AV:70:SER:O	2.54	0.55
12:AN:137:TYR:HE2	21:AW:124:ILE:HD12	1.72	0.55
22:AX:40:GLN:HE22	22:AX:43:THR:HA	1.72	0.55
19:AU:7:VAL:CB	23:AY:28:MET:HG2	2.36	0.55
34:BA:1157:A:H2'	34:BA:1181:G:N3	2.21	0.55
34:BA:1277:C:O2'	34:BA:1279:A:C8	2.60	0.55
34:BA:1126:U:O2	34:BA:1280:A:N6	2.39	0.55
34:BA:1307:U:O4'	46:BQ:109:THR:HG21	2.07	0.55
34:BA:1224:G:O6	34:BA:1322:C:H1'	2.06	0.55
34:BA:1309:G:C2	34:BA:1328:C:C2	2.83	0.55
34:BA:595:G:H8	34:BA:641:U:C4	2.19	0.55
34:BA:720:C:H1'	51:BV:50:ILE:HD12	1.88	0.55
34:BA:859:A:C2'	34:BA:860:A:O5'	2.55	0.55
34:BA:961:U:C6	34:BA:983:A:N1	2.74	0.55
56:BE:65:G:O2'	56:BE:66:U:H5'	2.07	0.55
35:BF:19:HIS:CE1	35:BF:204:ASN:ND2	2.73	0.55
35:BF:189:ASP:HB2	35:BF:205:ASP:CB	2.36	0.55
36:BG:47:LEU:HD11	36:BG:83:ARG:HH21	1.67	0.55
37:BH:200:GLU:CG	37:BH:201:GLN:N	2.68	0.55
38:BI:78:HIS:CE1	38:BI:142:LEU:HD22	2.42	0.55
39:BJ:37:VAL:HA	39:BJ:65:VAL:HG11	1.87	0.55
42:BM:11:LYS:O	42:BM:12:GLU:HG2	2.07	0.55
42:BM:16:ARG:NH1	42:BM:64:THR:HG21	2.21	0.55
42:BM:67:GLY:N	42:BM:73:GLN:HE21	2.03	0.55
45:BP:100:ILE:H	45:BP:100:ILE:HD13	1.71	0.55
45:BP:27:LEU:HD21	45:BP:33:ARG:HH11	1.70	0.55
46:BQ:19:LEU:HD11	46:BQ:30:ALA:HA	0.55	0.55
49:BT:12:LYS:HZ2	49:BT:13:HIS:CE1	2.22	0.55
49:BT:18:ARG:HH11	49:BT:20:VAL:HG21	1.71	0.55
50:BU:16:GLN:O	50:BU:17:LYS:CB	2.55	0.55
57:BZ:20:THR:CG2	60:BZ:701:GCP:O1A	2.55	0.55
57:BZ:426:LEU:HD21	57:BZ:429:MET:CB	2.29	0.55
57:BZ:90:SER:O	57:BZ:91:MET:HB2	2.04	0.55
46:BQ:4:ILE:CD1	46:BQ:57:ARG:CB	2.83	0.55
56:BD:63:G:C6	56:BD:64:A:N6	2.73	0.55
8:AH:152:ARG:HG3	8:AH:152:ARG:HH21	1.71	0.55
40:BK:132:GLY:O	40:BK:136:LYS:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1029:A:H2'	1:AA:1030:G:C4'	2.36	0.55
1:AA:1077:A:N6	1:AA:1088:A:C4'	2.69	0.55
1:AA:108:U:H2'	1:AA:109:G:H8	1.71	0.55
1:AA:1201:C:N4	1:AA:1241:A:H61	2.04	0.55
1:AA:1267:U:C5	1:AA:2012:G:N2	2.75	0.55
1:AA:1299:G:C6	1:AA:1639:U:H5''	2.41	0.55
1:AA:1342:A:C4	1:AA:1345:C:N4	2.75	0.55
1:AA:1469:A:H2'	1:AA:1470:G:H5'	1.88	0.55
1:AA:1545(A):A:C8	1:AA:1545(A):A:O5'	2.57	0.55
1:AA:1555:G:C4	1:AA:1556:C:C5	2.94	0.55
1:AA:1613:G:N2	1:AA:1619:G:C5	2.75	0.55
1:AA:1636:C:O2	1:AA:1636:C:H2'	2.07	0.55
1:AA:1688:U:O2	1:AA:1698:A:C5	2.60	0.55
1:AA:1699:G:O6	1:AA:1763:G:O4'	2.24	0.55
1:AA:1935:G:N2	1:AA:1962:C:C2'	2.69	0.55
1:AA:1942:C:P	1:AA:1943:U:H3'	2.46	0.55
1:AA:2615:U:H2'	1:AA:2616:C:C6	2.39	0.55
1:AA:2706:G:C4	1:AA:2707:G:C8	2.95	0.55
1:AA:270(X):G:C2	1:AA:270(Y):G:H1'	2.41	0.55
1:AA:2645:G:O2'	1:AA:2733:A:P	2.65	0.55
1:AA:2791:C:C3'	1:AA:2791:C:P	2.94	0.55
1:AA:2825:C:C4	1:AA:2826:A:N7	2.74	0.55
1:AA:297:C:N4	1:AA:298:G:N2	2.54	0.55
1:AA:344:G:H5''	1:AA:345:A:OP2	2.06	0.55
1:AA:2:G:C2	1:AA:3:U:C2	2.94	0.55
1:AA:460:A:C6	1:AA:470:A:C8	2.94	0.55
1:AA:489:G:C5	1:AA:1284:A:C2	2.95	0.55
1:AA:558:G:O2'	1:AA:559:G:C5'	2.55	0.55
1:AA:621:A:C8	1:AA:622:G:C4'	2.89	0.55
1:AA:696:G:N2	1:AA:697:C:C2	2.74	0.55
1:AA:850:C:H5''	24:AZ:18:ASP:HB2	1.88	0.55
1:AA:967:C:H2'	1:AA:968:G:C8	2.42	0.55
3:AC:103:ILE:CD1	3:AC:110:PHE:HZ	2.20	0.55
3:AC:7:TYR:CE2	3:AC:11:LEU:HD13	2.41	0.55
3:AC:10:LEU:CD1	3:AC:32:LEU:CD2	2.84	0.55
3:AC:50:ASP:OD1	3:AC:53:ARG:HG3	2.06	0.55
4:AD:17:THR:HG22	4:AD:17:THR:O	2.04	0.55
4:AD:221:VAL:O	4:AD:222:ARG:CG	2.52	0.55
1:AA:1675:C:N4	5:AE:128:SER:CB	2.69	0.55
6:AF:201:VAL:HG12	6:AF:205:ARG:NH2	2.22	0.55
6:AF:68:LYS:O	6:AF:69:HIS:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:127:GLY:O	7:AG:128:ARG:CB	2.55	0.55
8:AH:33:LEU:CD2	8:AH:35:VAL:HG22	2.36	0.55
32:AJ:52:ILE:CD1	32:AJ:73:PRO:HG2	2.33	0.55
9:AK:99:LEU:CG	9:AK:100:GLU:N	2.69	0.55
9:AK:99:LEU:HD12	9:AK:100:GLU:CA	2.37	0.55
10:AL:24:VAL:HG22	10:AL:30:ALA:CB	2.37	0.55
10:AL:18:LYS:HE2	10:AL:44:LYS:HD2	1.87	0.55
6:AF:31:HIS:CB	11:AM:11:GLY:H	2.18	0.55
11:AM:114:ILE:HD11	11:AM:123:LEU:HG	1.86	0.55
11:AM:128:HIS:CG	11:AM:129:ALA:N	2.74	0.55
11:AM:124:LYS:CB	11:AM:143:GLY:HA3	2.37	0.55
1:AA:636:G:H22	11:AM:75:ILE:HG23	1.64	0.55
12:AN:8:LYS:NZ	12:AN:11:LYS:NZ	2.51	0.55
14:AP:101:LEU:O	14:AP:101:LEU:HD13	2.07	0.55
14:AP:17:ARG:O	14:AP:20:ARG:CB	2.54	0.55
16:AR:39:LEU:O	16:AR:40:PHE:C	2.41	0.55
1:AA:1161:C:C1'	17:AS:22:VAL:HG11	2.34	0.55
17:AS:33:VAL:CG1	17:AS:34:GLU:N	2.69	0.55
16:AR:88:ILE:CB	17:AS:52:VAL:HG13	2.37	0.55
17:AS:57:VAL:HG12	17:AS:58:VAL:HG23	1.89	0.55
18:AT:14:PRO:O	18:AT:15:ARG:C	2.43	0.55
20:AV:1:MET:HA	20:AV:33:LYS:CG	2.37	0.55
20:AV:35:TYR:OH	20:AV:67:LEU:HB2	2.07	0.55
21:AW:44:PHE:CD2	21:AW:48:PHE:HE1	2.24	0.55
24:AZ:29:ARG:O	24:AZ:30:ARG:O	2.24	0.55
34:BA:1054:C:OP1	34:BA:1197:G:OP1	2.25	0.55
34:BA:945:G:N2	34:BA:1337:G:C2	2.75	0.55
34:BA:1345:U:C2	34:BA:1377:A:C6	2.95	0.55
34:BA:1395:C:C2'	34:BA:1396:A:O5'	2.55	0.55
34:BA:1450:U:H1'	34:BA:1454:G:N2	2.22	0.55
34:BA:1496:C:H2'	34:BA:1497:G:C8	2.42	0.55
34:BA:1504:G:C3'	34:BA:1504:G:P	2.94	0.55
34:BA:307:C:O2	34:BA:307:C:H2'	2.06	0.55
34:BA:366:C:O2'	34:BA:394:G:N2	2.39	0.55
34:BA:42:G:H2'	34:BA:43:C:H6	1.66	0.55
34:BA:440:A:C3'	34:BA:442:C:H6	2.18	0.55
34:BA:594:G:N7	34:BA:595:G:N3	2.55	0.55
34:BA:686:U:H4'	34:BA:686:U:OP1	2.06	0.55
34:BA:752:G:H8	34:BA:752:G:OP2	1.90	0.55
34:BA:758:G:C2'	34:BA:759:A:OP2	2.54	0.55
34:BA:787:A:C2	34:BA:788:U:O4'	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:792:A:C2'	34:BA:794:A:H62	2.06	0.55
34:BA:939:G:N2	34:BA:940:C:C2	2.75	0.55
1:AA:2169:A:C2	55:BC:56:C:N4	2.75	0.55
35:BF:217:ARG:HG3	35:BF:217:ARG:NH1	2.22	0.55
36:BG:159:GLY:N	36:BG:193:TYR:CE1	2.68	0.55
36:BG:59:ARG:CZ	36:BG:64:VAL:HG22	2.36	0.55
37:BH:15:GLU:OE1	37:BH:15:GLU:HA	2.06	0.55
37:BH:80:GLU:CA	37:BH:83:SER:OG	2.54	0.55
34:BA:1081:G:OP1	38:BI:17:ALA:O	2.25	0.55
39:BJ:37:VAL:HA	39:BJ:65:VAL:HB	1.88	0.55
39:BJ:55:ASP:OD2	39:BJ:86:ARG:NH1	2.39	0.55
39:BJ:77:ARG:HA	39:BJ:80:ARG:HE	1.71	0.55
40:BK:85:TYR:HD1	40:BK:154:TYR:CE1	2.24	0.55
45:BP:60:LEU:HD21	45:BP:64:TYR:CD2	2.42	0.55
45:BP:85:ILE:HD12	45:BP:99:HIS:C	2.26	0.55
49:BT:54:GLU:O	49:BT:55:ARG:C	2.45	0.55
50:BU:104:LYS:CG	50:BU:105:ALA:H	2.19	0.55
39:BJ:50:TYR:CE1	51:BV:81:PHE:CE2	2.95	0.55
57:BZ:102:PHE:HA	57:BZ:135:ALA:HA	1.88	0.55
57:BZ:125:VAL:H	57:BZ:161:ALA:HB1	1.72	0.55
57:BZ:205:PHE:HE1	57:BZ:226:ILE:HG21	1.72	0.55
57:BZ:380:LEU:HD12	57:BZ:380:LEU:O	2.06	0.55
57:BZ:546:MET:CG	57:BZ:547:ARG:HA	2.37	0.55
57:BZ:377:GLY:C	57:BZ:582:PRO:HG3	2.24	0.55
57:BZ:16:HIS:O	60:BZ:701:GCP:C5'	2.55	0.55
56:BD:7:A:C2	56:BD:67:C:N4	2.64	0.55
34:BA:232:G:C4	34:BA:233:C:C5	2.95	0.55
1:AA:1510:A:H5'	1:AA:1511:A:OP2	2.06	0.55
55:BC:68:C:H2'	55:BC:69:G:H8	1.71	0.55
38:BI:73:ASN:ND2	38:BI:73:ASN:O	2.32	0.55
1:AA:1047:G:O2'	1:AA:1048:A:O5'	2.14	0.55
1:AA:1068:G:C2	1:AA:1069:A:N6	2.75	0.55
1:AA:1071:G:C6	1:AA:1072:C:N4	2.74	0.55
1:AA:1083:U:C2	1:AA:1085:A:C5	2.93	0.55
1:AA:1164:G:H2'	1:AA:1165:U:O5'	2.07	0.55
1:AA:1287:A:N1	1:AA:1648:C:O2'	2.32	0.55
1:AA:1310:G:N2	1:AA:1610:A:C2	2.75	0.55
1:AA:1530:G:O3'	1:AA:1531:C:O4'	2.25	0.55
1:AA:1670:C:C6	1:AA:1671:U:C5	2.94	0.55
1:AA:1672:C:O2	1:AA:2582:G:C1'	2.54	0.55
1:AA:1799:G:C2'	1:AA:1800:C:O5'	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1936:A:O4'	1:AA:1940:U:C4	2.59	0.55
1:AA:1946:U:H2'	1:AA:1947:C:H6	1.71	0.55
1:AA:1954:G:HO2'	1:AA:1955:U:H5'	1.70	0.55
1:AA:1990:C:N3	1:AA:1991:U:N3	2.54	0.55
1:AA:2033:A:N1	1:AA:2036:C:C5	2.75	0.55
1:AA:2091:U:H5''	1:AA:2093:G:OP1	2.07	0.55
1:AA:2253:G:H2'	1:AA:2254:C:C6	2.37	0.55
1:AA:2347:C:C5	1:AA:2382:G:H1'	2.41	0.55
1:AA:2357:U:C6	1:AA:2357:U:OP2	2.60	0.55
1:AA:2393:A:H5''	11:AM:56:SER:HA	1.87	0.55
1:AA:2437:U:H2'	1:AA:2438:U:H6	1.69	0.55
1:AA:2447:G:C4	1:AA:2500:U:C5	2.94	0.55
1:AA:2582:G:H21	1:AA:2583:G:H1'	1.68	0.55
1:AA:12:U:O2	1:AA:2627:G:OP1	2.25	0.55
1:AA:2718:G:C4	1:AA:2719:G:C8	2.94	0.55
1:AA:2725:A:O2'	1:AA:2726:U:H6	1.88	0.55
1:AA:2737:G:H2'	1:AA:2738:A:H8	1.71	0.55
1:AA:2753:A:H2'	1:AA:2754:U:O5'	2.06	0.55
1:AA:26:G:N2	1:AA:27:G:H21	2.05	0.55
1:AA:2842:G:H2'	1:AA:2843:G:O4'	2.07	0.55
1:AA:507:A:H5'	1:AA:509:C:C1'	2.37	0.55
1:AA:748:G:H8	1:AA:750:A:OP2	1.89	0.55
1:AA:807:U:O2	1:AA:807:U:H2'	2.06	0.55
1:AA:819:A:N6	1:AA:1188:U:H3	2.04	0.55
1:AA:836:G:C5	1:AA:837:C:N4	2.75	0.55
1:AA:892:G:C2	1:AA:893:C:N3	2.75	0.55
1:AA:919:G:N3	1:AA:920:G:C8	2.74	0.55
2:AB:4:C:N3	2:AB:117:G:C2	2.74	0.55
4:AD:214:TRP:O	4:AD:215:LEU:C	2.42	0.55
4:AD:232:PRO:HG2	4:AD:247:ALA:C	2.26	0.55
1:AA:2597:G:H5'	4:AD:242:ARG:CD	2.36	0.55
4:AD:5:LYS:HD3	4:AD:31:LYS:HZ2	1.72	0.55
4:AD:90:ALA:CA	4:AD:91:ARG:NH1	2.69	0.55
4:AD:77:ALA:HB1	4:AD:95:LEU:CG	2.36	0.55
5:AE:41:LYS:O	5:AE:44:TYR:N	2.39	0.55
6:AF:16:GLY:C	6:AF:17:ARG:HD3	2.27	0.55
6:AF:36:VAL:HG13	6:AF:37:VAL:N	2.21	0.55
7:AG:16:ARG:NH2	7:AG:16:ARG:CG	2.68	0.55
7:AG:29:TRP:C	7:AG:31:VAL:HG23	2.27	0.55
2:AB:57:A:O4'	7:AG:29:TRP:CH2	2.59	0.55
7:AG:74:LYS:HB3	7:AG:87:PRO:CG	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:76:VAL:O	8:AH:77:LYS:C	2.44	0.55
32:AJ:104:VAL:CG1	32:AJ:127:ILE:CB	2.78	0.55
9:AK:99:LEU:HG	9:AK:100:GLU:H	1.70	0.55
10:AL:35:VAL:HG11	10:AL:64:ARG:HD3	1.88	0.55
11:AM:92:GLU:N	11:AM:125:VAL:HG11	2.22	0.55
12:AN:109:VAL:CG1	12:AN:110:THR:N	2.67	0.55
12:AN:48:GLU:O	12:AN:51:ARG:CG	2.37	0.55
12:AN:85:LYS:CE	12:AN:88:GLY:HA3	2.36	0.55
14:AP:7:TYR:HB3	14:AP:11:LYS:HZ1	1.71	0.55
2:AB:38:C:O3'	14:AP:93:LYS:NZ	2.39	0.55
16:AR:99:ALA:CA	16:AR:106:PHE:CD1	2.90	0.55
20:AV:97:ARG:O	20:AV:98:VAL:HG22	2.07	0.55
21:AW:29:TYR:CD2	21:AW:72:ARG:NH1	2.74	0.55
22:AX:50:ASN:HB3	22:AX:63:VAL:CG1	2.37	0.55
22:AX:53:MET:HE3	22:AX:59:LEU:N	2.22	0.55
24:AZ:5:LYS:CE	24:AZ:57:GLU:HB2	2.36	0.55
34:BA:1259:C:O5'	34:BA:1259:C:H6	1.88	0.55
34:BA:1406:U:O2	34:BA:1406:U:C2'	2.51	0.55
34:BA:1438:G:H2'	34:BA:1439:C:H5'	1.89	0.55
34:BA:1461:G:HO2'	34:BA:1462:G:H5'	1.72	0.55
34:BA:1487:G:H2'	34:BA:1488:G:H8	1.71	0.55
34:BA:1516:G:N2	34:BA:1518:A:P	2.79	0.55
34:BA:151:A:N6	34:BA:152:A:C2	2.74	0.55
34:BA:308:C:H2'	34:BA:309:G:O5'	2.07	0.55
34:BA:446:G:H2'	34:BA:447:G:C8	2.42	0.55
34:BA:519:C:C5	34:BA:520:A:N3	2.74	0.55
34:BA:577:G:N2	34:BA:578:C:H1'	2.19	0.55
34:BA:646:U:C2	34:BA:647:C:C5	2.95	0.55
34:BA:761:G:H5'	50:BU:102:GLY:C	2.27	0.55
34:BA:794:A:C6	34:BA:795:C:N4	2.74	0.55
34:BA:833:U:C2	34:BA:834:C:C5	2.94	0.55
34:BA:858:G:N2	34:BA:870:U:P	2.80	0.55
35:BF:147:LYS:HE2	35:BF:147:LYS:CA	2.36	0.55
35:BF:67:THR:HB	35:BF:155:LEU:CD2	2.36	0.55
36:BG:181:ASN:HD21	36:BG:206:GLU:HG2	1.71	0.55
37:BH:185:PHE:HD2	37:BH:186:LEU:H	1.54	0.55
38:BI:101:ILE:HD13	38:BI:101:ILE:N	2.22	0.55
38:BI:102:ALA:CB	38:BI:106:PRO:CB	2.79	0.55
38:BI:33:VAL:CG2	38:BI:43:LEU:HD12	2.32	0.55
41:BL:14:ARG:HD2	41:BL:15:ASN:ND2	2.21	0.55
41:BL:5:PRO:CA	41:BL:8:ASP:HB3	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:82:HIS:NE2	41:BL:84:ARG:CG	2.70	0.55
42:BM:15:ALA:CB	42:BM:77:ILE:N	2.70	0.55
42:BM:47:LEU:HD11	42:BM:56:LEU:CG	2.33	0.55
43:BN:19:SER:N	43:BN:91:PRO:HG3	2.21	0.55
44:BO:59:TYR:O	44:BO:62:GLN:NE2	2.40	0.55
45:BP:28:LYS:NZ	45:BP:33:ARG:NH2	2.41	0.55
47:BR:13:THR:O	47:BR:15:LYS:N	2.39	0.55
47:BR:34:TYR:CD1	47:BR:34:TYR:N	2.71	0.55
48:BS:27:VAL:O	48:BS:28:GLN:C	2.45	0.55
50:BU:87:LYS:O	50:BU:91:ARG:HB3	2.06	0.55
52:BW:47:HIS:O	52:BW:61:TYR:HA	2.06	0.55
57:BZ:140:VAL:O	57:BZ:144:VAL:HG23	2.06	0.55
57:BZ:18:LYS:HB2	60:BZ:701:GCP:C3B	2.35	0.55
57:BZ:1:MET:O	57:BZ:68:TYR:OH	2.17	0.55
57:BZ:229:GLY:C	57:BZ:230:LYS:HG3	2.27	0.55
57:BZ:310:PHE:C	57:BZ:384:ARG:H	2.09	0.55
57:BZ:407:VAL:H	57:BZ:408:GLU:HG3	1.70	0.55
57:BZ:496:ALA:HB3	57:BZ:514:HIS:CA	2.32	0.55
57:BZ:500:ALA:HB2	57:BZ:539:THR:C	2.27	0.55
1:AA:1509:C:OP2	1:AA:1509:C:H3'	2.07	0.55
1:AA:1578:U:H3'	1:AA:1580:A:C2	2.41	0.55
14:AP:56:LEU:CD1	14:AP:59:LYS:HD2	2.36	0.55
1:AA:274:G:N3	1:AA:274:G:O5'	2.40	0.55
57:BZ:99:VAL:HG12	57:BZ:100:ASP:H	1.71	0.55
1:AA:1093:G:H21	1:AA:1098:A:N6	2.05	0.55
1:AA:1174:A:C2'	1:AA:1174:A:N3	2.69	0.55
1:AA:1179:C:C2'	1:AA:1180:C:H6	2.19	0.55
1:AA:1291:C:H2'	1:AA:1292:U:H6	1.71	0.55
1:AA:1355:G:N2	1:AA:1377:G:N3	2.54	0.55
1:AA:1449:A:C2	1:AA:1449(A):G:N9	2.74	0.55
1:AA:1617:C:O2	1:AA:1617:C:C2'	2.48	0.55
1:AA:1769:G:H2'	1:AA:1770:G:C8	2.42	0.55
1:AA:1780:A:O5'	1:AA:1781:C:H3'	2.06	0.55
1:AA:1783:A:C8	1:AA:1783:A:OP2	2.59	0.55
1:AA:1815:A:C1'	1:AA:1817:G:C4	2.89	0.55
1:AA:1826:G:N2	1:AA:1970:A:C2	2.73	0.55
1:AA:186:G:O2'	1:AA:187:G:H5'	2.07	0.55
1:AA:2052:G:O5'	5:AE:141:ILE:HG13	2.07	0.55
1:AA:2057:A:H2'	1:AA:2058:A:C8	2.38	0.55
1:AA:2121:G:O2'	3:AC:167:LYS:CG	2.54	0.55
1:AA:216:A:C2	1:AA:217:G:C5	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2208:U:O2'	1:AA:2217:G:N2	2.39	0.55
1:AA:2286:A:H3'	1:AA:2286:A:H8	1.71	0.55
1:AA:2423:U:O2	1:AA:2423:U:C2'	2.51	0.55
1:AA:2436:G:C5	1:AA:2437:U:C5	2.95	0.55
1:AA:570:G:H1	1:AA:2498:C:C3'	2.19	0.55
1:AA:2588:G:O5'	1:AA:2588:G:H8	1.90	0.55
1:AA:2619:C:O3'	5:AE:152:LYS:O	2.25	0.55
1:AA:2637:U:C5'	5:AE:81:ILE:CD1	2.79	0.55
1:AA:2694:G:C5	1:AA:2695:C:C5	2.94	0.55
1:AA:2821:A:O2'	1:AA:2822:G:H5'	2.07	0.55
1:AA:2830:G:N1	1:AA:2831:G:C5	2.75	0.55
1:AA:292:C:C2'	1:AA:293:U:H3	2.20	0.55
1:AA:296:C:H6	1:AA:338:G:N2	2.03	0.55
1:AA:417:C:C4	1:AA:418:G:N7	2.75	0.55
1:AA:513:A:N1	1:AA:514:A:N7	2.54	0.55
1:AA:516:C:C2	1:AA:517:C:C5	2.95	0.55
1:AA:545:G:H1'	1:AA:549:G:C2	2.41	0.55
1:AA:574:C:H41	1:AA:2054:A:C5'	2.19	0.55
1:AA:722:A:N3	1:AA:723:G:C8	2.75	0.55
1:AA:819:A:H8	1:AA:819:A:H5'	1.72	0.55
1:AA:848:G:N2	1:AA:933:A:C4	2.74	0.55
1:AA:86:C:H6	1:AA:86:C:O5'	1.89	0.55
1:AA:861:A:C6	1:AA:917:A:C2	2.95	0.55
1:AA:945:A:H2'	1:AA:946:G:C5'	2.36	0.55
1:AA:967:C:H2'	1:AA:968:G:H8	1.72	0.55
4:AD:132:PRO:O	4:AD:133:LEU:O	2.25	0.55
4:AD:260:ARG:HH11	4:AD:260:ARG:HB2	1.71	0.55
4:AD:7:LYS:CD	4:AD:91:ARG:HE	2.20	0.55
5:AE:53:PRO:CG	5:AE:75:VAL:CG1	2.84	0.55
6:AF:182:ASN:OD1	6:AF:182:ASN:O	2.25	0.55
6:AF:61:GLY:HA3	6:AF:78:ILE:HG22	1.89	0.55
7:AG:12:TYR:CE1	7:AG:13:GLU:HG3	2.41	0.55
8:AH:103:LEU:N	8:AH:115:VAL:HG12	2.21	0.55
8:AH:6:ARG:O	8:AH:69:ARG:HD2	2.06	0.55
8:AH:35:VAL:CB	8:AH:72:ILE:HG23	2.37	0.55
1:AA:1077:A:H2	32:AJ:133:SER:HA	1.71	0.55
9:AK:31:ALA:O	9:AK:32:THR:C	2.43	0.55
10:AL:19:ILE:HB	10:AL:42:SER:O	2.07	0.55
10:AL:21:CYS:SG	10:AL:22:ILE:N	2.80	0.55
10:AL:64:ARG:NH1	10:AL:66:LYS:H	2.04	0.55
10:AL:8:LEU:HD13	10:AL:9:GLU:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:77:ARG:HA	11:AM:115:LEU:HB2	1.88	0.55
12:AN:110:THR:HG22	12:AN:110:THR:O	2.07	0.55
12:AN:37:LEU:C	12:AN:39:PRO:HD3	2.27	0.55
1:AA:2000:G:OP2	13:AO:2:ARG:HG2	2.06	0.55
15:AQ:110:ILE:HD12	15:AQ:113:LYS:CE	2.37	0.55
16:AR:91:ASP:CG	17:AS:10:LYS:HD3	2.27	0.55
19:AU:39:ILE:O	19:AU:43:VAL:HG23	2.06	0.55
19:AU:40:LYS:O	19:AU:51:VAL:HG21	2.07	0.55
20:AV:95:LYS:CG	20:AV:103:GLY:HA3	2.32	0.55
21:AW:50:GLN:O	21:AW:52:SER:N	2.32	0.55
21:AW:29:TYR:CD1	21:AW:72:ARG:NH2	2.75	0.55
22:AX:32:ARG:HB2	22:AX:32:ARG:HH11	1.70	0.55
1:AA:74:A:N1	23:AY:46:ARG:CD	2.70	0.55
34:BA:1054:C:C3'	34:BA:1054:C:C6	2.89	0.55
34:BA:1068:G:OP2	34:BA:1094:G:H5'	2.07	0.55
34:BA:1202:G:N7	43:BN:53:PRO:HB2	2.22	0.55
34:BA:1222:G:OP2	34:BA:1322:C:H5	1.89	0.55
34:BA:1330:U:H4'	46:BQ:70:LEU:HD21	1.85	0.55
34:BA:1353:G:N3	34:BA:1370:G:N2	2.55	0.55
34:BA:1406:U:O2	34:BA:1407:C:C6	2.60	0.55
34:BA:1481:U:H2'	34:BA:1482:G:N7	2.21	0.55
34:BA:20:U:C2'	34:BA:21:G:O4'	2.55	0.55
34:BA:265:G:C8	34:BA:267:C:C5	2.94	0.55
34:BA:27:G:N1	34:BA:557:G:C4	2.75	0.55
34:BA:307:C:H41	34:BA:308:C:H41	1.52	0.55
34:BA:363:A:C4	45:BP:31:PRO:HG2	2.42	0.55
34:BA:494:U:O2'	34:BA:495:A:H5'	2.07	0.55
34:BA:587:G:N3	34:BA:755:G:C2	2.74	0.55
34:BA:643:C:H5'	41:BL:31:PHE:CZ	2.42	0.55
34:BA:667:G:OP2	34:BA:732:C:O2'	2.25	0.55
34:BA:722:A:O3'	34:BA:723:U:C4	2.59	0.55
34:BA:959:A:C3'	34:BA:960:U:C5'	2.83	0.55
34:BA:961:U:C6	34:BA:983:A:C6	2.95	0.55
34:BA:977:A:H4'	34:BA:982:U:O4	2.06	0.55
55:BC:16:U:H5	55:BC:18:G:H5''	1.72	0.55
56:BE:21:A:N7	56:BE:46:G:N7	2.54	0.55
56:BE:71:G:C2	56:BE:72:C:C2	2.95	0.55
35:BF:121:LEU:HD22	35:BF:126:GLU:OE2	2.07	0.55
35:BF:131:PRO:O	35:BF:134:GLU:HB2	2.07	0.55
35:BF:152:PHE:C	35:BF:152:PHE:CD1	2.80	0.55
35:BF:149:LEU:HD23	35:BF:153:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:69:LEU:O	35:BF:162:ILE:HB	2.06	0.55
35:BF:234:PRO:HB2	35:BF:238:LEU:HD22	1.89	0.55
36:BG:142:MET:CE	36:BG:143:GLU:HA	2.37	0.55
36:BG:157:ILE:HG13	36:BG:164:ARG:HB3	1.89	0.55
36:BG:193:TYR:HD2	36:BG:193:TYR:N	2.05	0.55
37:BH:118:ARG:HH21	37:BH:136:PRO:HB2	1.70	0.55
37:BH:152:SER:HA	37:BH:155:LEU:CD2	2.37	0.55
37:BH:168:ARG:N	37:BH:168:ARG:CD	2.69	0.55
37:BH:13:ARG:NH1	37:BH:38:TYR:CE1	2.75	0.55
37:BH:52:SER:O	37:BH:53:ASP:C	2.45	0.55
38:BI:105:VAL:HG12	38:BI:106:PRO:CD	2.37	0.55
38:BI:115:VAL:HG11	38:BI:118:ILE:HD12	1.89	0.55
39:BJ:100:ASN:OD1	51:BV:26:LEU:O	2.25	0.55
40:BK:111:ARG:CZ	40:BK:112:PRO:HD2	2.36	0.55
41:BL:47:GLY:O	41:BL:61:VAL:HA	2.06	0.55
41:BL:32:LYS:HG3	41:BL:59:LEU:HD12	1.89	0.55
42:BM:17:VAL:HA	42:BM:63:ILE:HG23	1.89	0.55
44:BO:111:ASP:O	44:BO:112:THR:C	2.43	0.55
45:BP:48:PRO:CG	45:BP:49:ASN:N	2.70	0.55
46:BQ:37:THR:CG2	46:BQ:39:ILE:HG12	2.31	0.55
36:BG:12:LEU:HG	47:BR:57:ARG:HG3	1.85	0.55
48:BS:44:LYS:O	48:BS:46:HIS:N	2.40	0.55
49:BT:59:TRP:HA	49:BT:59:TRP:HE3	1.70	0.55
50:BU:40:LYS:NZ	50:BU:42:TYR:CE1	2.74	0.55
50:BU:44:ALA:CA	50:BU:71:PHE:O	2.55	0.55
51:BV:81:PHE:O	51:BV:82:THR:HG22	2.07	0.55
52:BW:40:ILE:HD11	52:BW:71:LEU:HD23	1.88	0.55
57:BZ:136:ARG:O	57:BZ:140:VAL:HG23	2.06	0.55
57:BZ:205:PHE:CZ	57:BZ:207:MET:CB	2.86	0.55
57:BZ:398:GLU:CA	57:BZ:472:TYR:HD1	2.12	0.55
56:BD:47:U:C3'	56:BD:48:C:H5''	2.37	0.55
57:BZ:514:HIS:CD2	57:BZ:515:GLY:CA	2.86	0.55
1:AA:273(E):U:C6	1:AA:363(B):G:N2	2.75	0.55
57:BZ:215:ASN:C	57:BZ:217:TYR:H	2.09	0.55
8:AH:20:ALA:HB1	8:AH:21:PRO:HD3	1.87	0.55
1:AA:1080:C:C4'	32:AJ:128:ALA:CA	2.83	0.55
1:AA:1242:A:H3'	1:AA:1243:G:H8	1.72	0.55
1:AA:124:G:O5'	1:AA:124:G:H8	1.90	0.55
1:AA:582:G:C6	1:AA:1259:G:C6	2.94	0.55
1:AA:1309:G:H1	1:AA:1605:C:H42	1.53	0.55
1:AA:1434:A:C2	1:AA:1435:G:C1'	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1470:G:C8	1:AA:1470:G:C3'	2.88	0.55
1:AA:1491:G:H4'	4:AD:72:LYS:NZ	2.22	0.55
1:AA:1480:G:C6	1:AA:1514:U:O4	2.60	0.55
1:AA:1477:A:C2	1:AA:1516:U:C2	2.94	0.55
1:AA:154:G:C2'	1:AA:155:C:H5'	2.37	0.55
1:AA:1571:A:OP2	1:AA:1571:A:C8	2.60	0.55
1:AA:1668:A:N1	1:AA:1993:U:C1'	2.59	0.55
1:AA:1707:G:C2	1:AA:1756:G:N2	2.75	0.55
1:AA:1935:G:O2'	1:AA:1936:A:OP2	2.25	0.55
1:AA:1992:G:N1	1:AA:1995:U:O4	2.39	0.55
1:AA:204:A:C8	1:AA:204:A:OP1	2.60	0.55
1:AA:2066:C:C4	1:AA:2067:G:N7	2.74	0.55
1:AA:2209:C:H3'	1:AA:2209:C:C6	2.42	0.55
1:AA:2274:A:N7	1:AA:2276:G:C8	2.75	0.55
1:AA:2481:G:HO2'	1:AA:2482:G:C5'	2.20	0.55
1:AA:2586:C:N4	1:AA:2587:A:H62	2.05	0.55
1:AA:2639:A:C4	1:AA:2778:A:N1	2.75	0.55
1:AA:2544:G:H4'	1:AA:2645:G:OP1	2.07	0.55
1:AA:2646:C:H2'	1:AA:2647:U:H6	1.68	0.55
1:AA:2694:G:C6	1:AA:2695:C:C5	2.95	0.55
1:AA:2747:G:C2	1:AA:2754:U:N3	2.75	0.55
1:AA:2779:U:H5''	1:AA:2780:G:H3'	1.87	0.55
1:AA:6:A:N3	1:AA:2898:U:C1'	2.70	0.55
1:AA:326:G:H22	1:AA:337:C:C1'	2.17	0.55
1:AA:500:G:H2'	1:AA:501:A:H3'	1.89	0.55
1:AA:61:G:O2'	1:AA:62:C:H5'	2.07	0.55
1:AA:64:A:C2	19:AU:66:LEU:HB2	2.41	0.55
1:AA:71:A:N3	1:AA:73:A:N6	2.54	0.55
1:AA:833:U:C1'	11:AM:48:PRO:HD2	2.36	0.55
1:AA:838:C:C4	1:AA:839:U:C4	2.94	0.55
1:AA:852:G:C4	1:AA:853:G:C8	2.95	0.55
1:AA:893:C:N1	1:AA:894:C:C6	2.75	0.55
1:AA:864:G:N2	1:AA:913:U:H1'	2.22	0.55
1:AA:930:U:HO2'	1:AA:931:G:P	2.28	0.55
1:AA:569:U:OP1	1:AA:945:A:N6	2.40	0.55
1:AA:954:G:C6	1:AA:964:C:C4	2.95	0.55
1:AA:977:G:C5	1:AA:987:G:C2	2.94	0.55
2:AB:104:A:C2'	2:AB:105:G:O4'	2.53	0.55
2:AB:7:G:O2'	2:AB:8:U:OP1	2.25	0.55
4:AD:132:PRO:HA	4:AD:190:TYR:CD1	2.42	0.55
4:AD:157:ARG:O	4:AD:160:GLY:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:178:PRO:CG	4:AD:179:SER:H	2.14	0.55
1:AA:1566:A:C2	4:AD:215:LEU:HD22	2.41	0.55
4:AD:53:PHE:CD2	4:AD:221:VAL:HG13	2.42	0.55
4:AD:28:GLU:N	4:AD:29:PRO:CD	2.70	0.55
5:AE:103:ASP:CA	5:AE:170:LEU:HD21	2.37	0.55
5:AE:165:VAL:HG12	5:AE:166:THR:N	2.17	0.55
7:AG:125:PHE:CE2	7:AG:130:ASN:HB2	2.42	0.55
1:AA:2314:C:C5'	7:AG:38:VAL:HG21	2.37	0.55
8:AH:40:GLU:O	8:AH:55:PRO:HD3	2.07	0.55
8:AH:6:ARG:HD2	8:AH:66:GLY:CA	2.36	0.55
8:AH:98:LEU:N	8:AH:125:VAL:HG21	2.22	0.55
9:AK:115:ARG:O	9:AK:118:LYS:CB	2.52	0.55
9:AK:39:ARG:HB3	9:AK:48:MET:SD	2.46	0.55
9:AK:56:ASN:HB3	9:AK:59:LYS:HD2	1.87	0.55
9:AK:56:ASN:O	9:AK:57:ALA:C	2.46	0.55
9:AK:60:ILE:CG2	9:AK:61:ARG:N	2.70	0.55
11:AM:111:ARG:HH21	11:AM:129:ALA:CB	2.20	0.55
11:AM:116:GLY:HA3	11:AM:121:LYS:HB3	1.89	0.55
11:AM:130:PHE:HB3	11:AM:134:ALA:CB	2.37	0.55
11:AM:27:HIS:CE1	17:AS:82:ARG:O	2.60	0.55
12:AN:43:THR:OG1	12:AN:45:GLN:HB2	2.07	0.55
12:AN:68:ILE:HG23	12:AN:69:PHE:N	2.22	0.55
13:AO:113:LEU:CD1	13:AO:114:VAL:N	2.70	0.55
13:AO:14:SER:HA	13:AO:17:ARG:NE	2.22	0.55
13:AO:54:LEU:O	13:AO:80:PHE:CE1	2.60	0.55
13:AO:85:PRO:O	13:AO:87:TYR:N	2.39	0.55
15:AQ:55:ASN:HD22	15:AQ:57:PHE:HE2	1.52	0.55
15:AQ:76:PHE:CZ	15:AQ:78:LEU:HG	2.41	0.55
16:AR:13:LYS:CD	16:AR:13:LYS:H	2.08	0.55
16:AR:26:GLY:O	16:AR:27:LEU:HB2	2.06	0.55
16:AR:32:PHE:HB3	16:AR:36:ARG:HH21	1.72	0.55
16:AR:91:ASP:OD1	17:AS:10:LYS:HD3	2.07	0.55
17:AS:30:GLY:O	17:AS:33:VAL:HG23	2.07	0.55
19:AU:27:THR:CG2	19:AU:80:ILE:HD12	2.37	0.55
21:AW:104:PHE:CA	21:AW:139:VAL:O	2.53	0.55
21:AW:110:GLY:HA3	21:AW:144:LEU:HD12	1.89	0.55
21:AW:11:GLU:O	21:AW:15:PRO:HG3	2.07	0.55
21:AW:80:ARG:O	21:AW:81:ARG:HG3	2.07	0.55
22:AX:27:GLU:OE1	22:AX:28:GLY:N	2.39	0.55
1:AA:95:G:O3'	23:AY:40:SER:HA	2.07	0.55
23:AY:39:LEU:O	23:AY:42:ASN:ND2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:10:LYS:HG2	24:AZ:12:PRO:CD	2.33	0.55
24:AZ:38:GLU:HG2	24:AZ:40:THR:OG1	2.07	0.55
24:AZ:45:GLY:C	24:AZ:48:GLU:HG2	2.26	0.55
24:AZ:52:HIS:NE2	24:AZ:53:LEU:HD21	2.22	0.55
34:BA:1126:U:H1'	34:BA:1280:A:H62	1.67	0.55
34:BA:1152:A:C2	34:BA:1153:C:C5	2.95	0.55
34:BA:1201:A:C2'	34:BA:1202:G:OP2	2.55	0.55
34:BA:23:C:O2'	34:BA:24:U:H5'	2.06	0.55
34:BA:435:C:C2'	34:BA:436:C:H5'	2.36	0.55
34:BA:498:A:O2'	34:BA:500:G:C8	2.60	0.55
34:BA:540:G:O6	34:BA:541:G:C6	2.60	0.55
34:BA:27:G:C2	34:BA:557:G:N3	2.75	0.55
34:BA:300:A:C2	34:BA:566:G:O6	2.59	0.55
34:BA:574:A:O5'	34:BA:574:A:H8	1.89	0.55
34:BA:778:G:C2'	34:BA:779:C:H5'	2.37	0.55
34:BA:801:U:C2	34:BA:802:A:C8	2.95	0.55
56:BE:4:C:N3	56:BE:6:G:C8	2.65	0.55
35:BF:178:ARG:HE	35:BF:196:LEU:CD1	2.11	0.55
37:BH:107:ARG:CD	37:BH:174:LEU:HD11	2.37	0.55
37:BH:15:GLU:CG	37:BH:63:LYS:HB3	2.35	0.55
34:BA:9:G:P	38:BI:122:GLU:OE1	2.65	0.55
38:BI:122:GLU:O	38:BI:123:LEU:HD22	2.07	0.55
39:BJ:3:ARG:HG3	39:BJ:65:VAL:C	2.28	0.55
40:BK:87:VAL:HB	40:BK:156:TRP:CH2	2.42	0.55
41:BL:112:LEU:CB	41:BL:133:LEU:HA	2.37	0.55
41:BL:100:ILE:HB	41:BL:125:ARG:HH21	1.71	0.55
41:BL:23:SER:O	41:BL:24:THR:HB	2.07	0.55
41:BL:33:GLU:CA	41:BL:36:LEU:HD21	2.34	0.55
42:BM:11:LYS:N	42:BM:104:ARG:NH2	2.55	0.55
42:BM:45:ALA:HB3	42:BM:74:ILE:HG21	1.88	0.55
43:BN:8:LEU:HD12	43:BN:16:LEU:HA	1.89	0.55
44:BO:24:SER:OG	44:BO:25:TYR:N	2.39	0.55
34:BA:691:G:N2	44:BO:51:LYS:NZ	2.55	0.55
44:BO:92:GLU:C	44:BO:94:ALA:N	2.57	0.55
45:BP:53:ARG:HB3	45:BP:69:TYR:CE1	2.41	0.55
48:BS:41:GLU:C	48:BS:41:GLU:CD	2.65	0.55
52:BW:10:PHE:HA	52:BW:16:LEU:HD22	1.89	0.55
53:BX:55:ILE:C	53:BX:57:ARG:N	2.60	0.55
53:BX:86:ARG:HG2	53:BX:87:LYS:H	1.72	0.55
57:BZ:205:PHE:CE1	57:BZ:230:LYS:HB3	2.42	0.55
57:BZ:205:PHE:CA	57:BZ:229:GLY:HA3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:308:SER:HA	57:BZ:358:VAL:O	2.07	0.55
57:BZ:73:VAL:HB	57:BZ:75:THR:HG1	1.66	0.55
57:BZ:81:PHE:CD2	57:BZ:342:ASN:OD1	2.59	0.55
45:BP:126:LYS:HE3	45:BP:126:LYS:H	1.68	0.55
41:BL:54:ASP:C	41:BL:56:LYS:H	2.09	0.55
31:AI:124:ALA:HB3	31:AI:127:GLU:CB	2.37	0.55
1:AA:1085:A:H1'	1:AA:1086:A:O4'	2.07	0.55
1:AA:1089:G:H8	1:AA:1089:G:O5'	1.89	0.55
1:AA:1106:G:O5'	1:AA:1106:G:H8	1.84	0.55
1:AA:1183:G:H3'	1:AA:1183:G:P	2.47	0.55
1:AA:1269:A:H8	1:AA:1269:A:O5'	1.90	0.55
1:AA:1359:A:C8	1:AA:1359:A:O5'	2.60	0.55
1:AA:1428:C:N4	1:AA:1569:A:H5''	2.22	0.55
1:AA:1540:G:C2'	1:AA:1541:U:H5'	2.36	0.55
1:AA:1351:C:O2'	1:AA:1571:A:C8	2.59	0.55
1:AA:1784:A:H4'	1:AA:1785:A:C8	2.42	0.55
1:AA:1794:U:O2	1:AA:1795:C:C6	2.60	0.55
1:AA:1670:C:H1'	1:AA:1994:C:H4'	1.89	0.55
1:AA:46:C:C6	1:AA:215:G:H8	2.24	0.55
1:AA:2215:G:O5'	1:AA:2215:G:H8	1.90	0.55
1:AA:2092:U:H4'	1:AA:2225:A:C2	2.42	0.55
1:AA:2283:C:C4	1:AA:2389:G:C2	2.95	0.55
1:AA:2520:C:H2'	1:AA:2521:C:H6	1.72	0.55
1:AA:271(B):G:C5'	1:AA:271(C):U:O4'	2.53	0.55
1:AA:2776:A:C4'	1:AA:2777:G:H5''	2.37	0.55
1:AA:339:U:H2'	1:AA:340:A:H8	1.67	0.55
1:AA:38:A:H2'	1:AA:39:C:H6	1.68	0.55
1:AA:271(C):U:O4	1:AA:421:U:C4	2.60	0.55
1:AA:563:G:O5'	1:AA:564:C:P	2.65	0.55
1:AA:588:U:H2'	1:AA:589:C:C6	2.42	0.55
1:AA:603:A:C6	1:AA:625:G:C5	2.95	0.55
1:AA:714:U:O2	1:AA:715:G:H8	1.89	0.55
1:AA:733:G:O6	1:AA:761:A:C8	2.60	0.55
1:AA:763:G:C2'	1:AA:764:A:C5'	2.83	0.55
1:AA:875:G:N2	1:AA:876:C:C2	2.75	0.55
2:AB:61:G:C2	2:AB:62:C:N3	2.75	0.55
2:AB:90:C:O2'	2:AB:91:C:C5'	2.54	0.55
3:AC:131:LEU:HD13	3:AC:136:LEU:O	2.07	0.55
3:AC:116:THR:HG23	3:AC:149:ILE:HB	1.88	0.55
1:AA:2121:G:H1'	3:AC:167:LYS:HZ3	1.55	0.55
3:AC:46:LYS:C	3:AC:210:ARG:HB2	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:70:LYS:O	3:AC:71:GLN:HB3	2.07	0.55
3:AC:71:GLN:HG2	3:AC:174:PRO:HD3	1.88	0.55
3:AC:6:ARG:C	3:AC:8:ARG:N	2.57	0.55
4:AD:158:ALA:C	4:AD:160:GLY:N	2.57	0.55
5:AE:4:ILE:CG1	5:AE:4:ILE:O	2.55	0.55
5:AE:53:PRO:O	5:AE:54:GLN:O	2.25	0.55
6:AF:132:VAL:C	6:AF:134:GLY:N	2.60	0.55
6:AF:156:LEU:CG	6:AF:173:VAL:HG23	2.32	0.55
6:AF:184:TYR:O	6:AF:186:ILE:N	2.40	0.55
6:AF:36:VAL:O	6:AF:184:TYR:OH	2.19	0.55
6:AF:69:HIS:C	6:AF:69:HIS:ND1	2.59	0.55
7:AG:45:GLU:C	7:AG:47:LYS:N	2.58	0.55
7:AG:8:LYS:HE2	7:AG:100:TRP:CD1	2.42	0.55
8:AH:7:LEU:HD13	8:AH:65:HIS:CE1	2.42	0.55
32:AJ:17:ALA:CB	32:AJ:42:ASN:CB	2.85	0.55
9:AK:34:LEU:HA	9:AK:49:GLY:C	2.28	0.55
9:AK:34:LEU:HB3	9:AK:116:LEU:CD2	2.36	0.55
11:AM:138:LEU:HD13	11:AM:139:LYS:N	2.22	0.55
12:AN:63:LYS:HD2	12:AN:64:ILE:O	2.06	0.55
14:AP:60:GLY:C	14:AP:62:LYS:N	2.59	0.55
15:AQ:17:THR:HG21	15:AQ:20:PRO:HG3	1.88	0.55
15:AQ:52:ILE:CA	15:AQ:66:VAL:CG1	2.80	0.55
10:AL:122:LEU:C	15:AQ:74:ARG:HH22	2.10	0.55
15:AQ:28:VAL:HG22	15:AQ:92:GLY:O	2.06	0.55
16:AR:32:PHE:HD1	16:AR:32:PHE:N	2.03	0.55
16:AR:61:TRP:HZ3	16:AR:93:LYS:C	2.09	0.55
16:AR:83:LEU:O	16:AR:90:VAL:CG2	2.55	0.55
17:AS:35:LEU:O	17:AS:61:VAL:CA	2.53	0.55
19:AU:32:PRO:HG3	19:AU:77:LYS:CB	2.37	0.55
21:AW:168:GLU:OE1	21:AW:169:GLU:CA	2.55	0.55
21:AW:51:ALA:HA	21:AW:53:ILE:O	2.06	0.55
19:AU:7:VAL:HB	23:AY:28:MET:HG2	1.89	0.55
34:BA:1068:G:H2'	34:BA:1069:C:C6	2.41	0.55
34:BA:110:C:C2'	34:BA:111:G:H5'	2.37	0.55
34:BA:1069:C:H1'	34:BA:1191:A:C2	2.40	0.55
34:BA:1238:A:N7	34:BA:1303:C:H1'	2.21	0.55
34:BA:1270:C:C2'	34:BA:1313:U:C4'	2.76	0.55
34:BA:1308:U:O4	34:BA:1309:G:N7	2.40	0.55
34:BA:1452:C:H5'	34:BA:1453:G:N3	2.22	0.55
34:BA:1498:U:H2'	34:BA:1498:U:O2	2.07	0.55
34:BA:179:A:H3'	34:BA:180:U:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:848:C:C4	34:BA:849:C:C5	2.95	0.55
34:BA:858:G:O5'	34:BA:858:G:H8	1.89	0.55
34:BA:917:G:O2'	34:BA:918:A:C5'	2.54	0.55
34:BA:944:G:H2'	34:BA:945:G:H5''	1.89	0.55
34:BA:994:A:N3	47:BR:5:ALA:HA	2.22	0.55
55:BC:57:G:H2'	55:BC:57:G:N3	2.21	0.55
59:AA:3002:8AN:P	56:BD:75:C:C1'	2.95	0.55
35:BF:107:THR:O	35:BF:108:ILE:C	2.43	0.55
35:BF:115:LEU:HD22	35:BF:145:LEU:HG	1.88	0.55
35:BF:119:GLU:HA	35:BF:142:LEU:CD1	2.37	0.55
35:BF:31:TYR:OH	35:BF:200:ILE:HD13	2.07	0.55
35:BF:56:ARG:CB	35:BF:56:ARG:NH1	2.54	0.55
35:BF:64:ARG:H	35:BF:64:ARG:CD	2.20	0.55
36:BG:11:ARG:HH12	36:BG:180:ALA:N	2.05	0.55
37:BH:20:TYR:HB2	37:BH:27:TYR:CA	2.36	0.55
37:BH:39:PRO:O	37:BH:44:GLY:CA	2.55	0.55
37:BH:93:PHE:O	37:BH:95:GLY:N	2.40	0.55
38:BI:100:VAL:C	38:BI:101:ILE:HD13	2.27	0.55
38:BI:37:ARG:NH1	38:BI:112:LEU:N	2.55	0.55
38:BI:80:ILE:HA	38:BI:81:GLU:OE2	2.07	0.55
39:BJ:12:PRO:CB	39:BJ:57:GLN:HE21	2.19	0.55
40:BK:102:ARG:O	40:BK:103:TRP:C	2.45	0.55
41:BL:100:ILE:H	41:BL:100:ILE:CD1	2.05	0.55
41:BL:112:LEU:HA	41:BL:134:ILE:H	1.72	0.55
41:BL:65:TYR:HA	41:BL:79:VAL:HG23	1.89	0.55
42:BM:38:GLN:C	42:BM:40:LEU:H	2.09	0.55
42:BM:81:ILE:O	42:BM:84:ALA:HB3	2.07	0.55
42:BM:98:PRO:C	42:BM:100:GLY:N	2.49	0.55
43:BN:34:VAL:HG22	43:BN:74:ILE:CD1	2.36	0.55
45:BP:60:LEU:HD13	45:BP:64:TYR:O	2.06	0.55
34:BA:1226:C:C6	46:BQ:104:ARG:CA	2.89	0.55
47:BR:39:LEU:HB2	47:BR:44:LEU:HD13	1.88	0.55
52:BW:9:VAL:HA	52:BW:41:VAL:CG2	2.37	0.55
52:BW:19:VAL:HG22	52:BW:43:GLU:CD	2.28	0.55
57:BZ:27:GLN:CG	57:BZ:28:GLN:CB	2.83	0.55
57:BZ:488:LEU:HD21	57:BZ:526:ILE:O	2.07	0.55
56:BD:51:U:N3	56:BD:64:A:N1	2.50	0.55
56:BD:52:G:N9	56:BD:63:G:N2	2.54	0.55
1:AA:1416:G:OP2	1:AA:1416:G:H4'	2.07	0.55
1:AA:98:G:O2'	1:AA:103:A:H1'	2.07	0.54
1:AA:1050:A:C5	1:AA:2751:G:H3'	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1042:G:C2	1:AA:1114:G:C6	2.95	0.54
1:AA:1256:G:C5	1:AA:1257:C:C5	2.95	0.54
1:AA:1367:A:H62	1:AA:1368:G:H1'	1.72	0.54
1:AA:1354:A:H62	1:AA:1377:G:H21	1.53	0.54
1:AA:1477:A:H4'	1:AA:1478:G:OP2	2.08	0.54
1:AA:1558:A:C2	1:AA:1560:G:C1'	2.90	0.54
1:AA:161:U:O2	1:AA:164:U:N3	2.38	0.54
1:AA:1640:C:H2'	1:AA:1641:A:O4'	2.07	0.54
1:AA:1680:U:H6	1:AA:1680:U:O5'	1.90	0.54
1:AA:1699:G:C8	1:AA:1763:G:N2	2.74	0.54
1:AA:1808:U:H2'	1:AA:1808:U:O2	2.07	0.54
1:AA:1980:G:O2'	1:AA:1981:A:P	2.65	0.54
1:AA:1996:C:C6	1:AA:1996:C:C5'	2.76	0.54
1:AA:2051:A:H5''	1:AA:2578:G:C5'	2.33	0.54
1:AA:2273:A:N7	1:AA:2274:A:C8	2.75	0.54
1:AA:2357:U:C2'	1:AA:2358:G:O5'	2.55	0.54
1:AA:2412:A:H2'	1:AA:2413:G:O4'	2.06	0.54
1:AA:2460:U:H3'	1:AA:2461:C:C5	2.41	0.54
1:AA:2583:G:N1	59:AA:3002:8AN:O2'	2.41	0.54
1:AA:2553:G:C6	1:AA:2583:G:O2'	2.61	0.54
1:AA:2686:G:O2'	1:AA:2687:U:H5'	2.07	0.54
1:AA:2748:A:N6	1:AA:2756:U:C2	2.74	0.54
1:AA:2808:U:O2	1:AA:2808:U:H2'	2.06	0.54
1:AA:2850:A:C4	1:AA:2869:G:H4'	2.42	0.54
1:AA:386:G:O2'	1:AA:387:U:C5	2.60	0.54
1:AA:641:C:N4	1:AA:646:A:N6	2.54	0.54
1:AA:771:G:N1	1:AA:772:C:C4	2.74	0.54
1:AA:969:U:H2'	1:AA:970:C:C4'	2.36	0.54
1:AA:996:A:C2	1:AA:997:G:N7	2.76	0.54
2:AB:29:A:C4	2:AB:56:G:N2	2.75	0.54
3:AC:56:GLN:HG2	3:AC:201:PRO:CG	2.37	0.54
4:AD:135:PHE:HD1	4:AD:135:PHE:N	2.04	0.54
4:AD:175:LEU:O	4:AD:182:LEU:HD23	2.07	0.54
4:AD:58:HIS:CD2	4:AD:215:LEU:HA	2.42	0.54
4:AD:23:GLU:CD	4:AD:24:ILE:N	2.61	0.54
4:AD:5:LYS:HE2	4:AD:29:PRO:HA	1.88	0.54
5:AE:121:ASN:O	5:AE:122:PHE:O	2.25	0.54
5:AE:13:ARG:NE	11:AM:56:SER:CB	122.98	0.54
5:AE:164:ARG:HG2	5:AE:165:VAL:N	2.22	0.54
5:AE:36:ARG:HB3	5:AE:41:LYS:CB	2.38	0.54
6:AF:122:LYS:HE3	6:AF:192:LEU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:46:ARG:HH21	6:AF:46:ARG:HG2	1.71	0.54
1:AA:37:C:O2'	6:AF:50:SER:CB	2.55	0.54
6:AF:56:GLU:C	6:AF:60:SER:OG	2.46	0.54
7:AG:36:LYS:HA	7:AG:95:ARG:O	2.07	0.54
8:AH:90:LYS:HE2	8:AH:159:GLU:CD	2.28	0.54
8:AH:38:SER:HB3	8:AH:41:MET:SD	2.46	0.54
1:AA:1055:G:H4'	31:AI:33:PRO:CA	2.37	0.54
10:AL:15:GLY:HA3	10:AL:52:VAL:HG21	1.84	0.54
10:AL:43:VAL:HG22	10:AL:44:LYS:N	2.22	0.54
1:AA:1246:A:OP2	11:AM:15:ARG:CZ	2.55	0.54
11:AM:15:ARG:HG3	11:AM:16:ARG:N	2.21	0.54
11:AM:79:ARG:O	11:AM:83:VAL:HG22	2.07	0.54
12:AN:22:LYS:CD	12:AN:23:GLY:N	2.70	0.54
15:AQ:85:LYS:HZ2	15:AQ:85:LYS:H	1.55	0.54
18:AT:86:LEU:HB3	18:AT:87:PRO:HD2	1.88	0.54
20:AV:74:PRO:HB3	20:AV:101:LYS:O	2.07	0.54
20:AV:50:ARG:HB2	20:AV:54:LYS:CD	2.36	0.54
21:AW:50:GLN:C	21:AW:52:SER:H	2.10	0.54
21:AW:68:PRO:O	21:AW:90:VAL:HG12	2.07	0.54
24:AZ:44:ARG:O	24:AZ:47:VAL:N	2.40	0.54
24:AZ:52:HIS:C	24:AZ:54:VAL:N	2.58	0.54
34:BA:1167:A:C2	34:BA:1169:A:N3	2.75	0.54
34:BA:119:A:O2'	34:BA:120:A:OP2	2.13	0.54
34:BA:1288:A:H8	34:BA:1288:A:O5'	1.89	0.54
34:BA:1310:G:C5	34:BA:1327:C:N4	2.71	0.54
34:BA:362:G:H2'	34:BA:364:A:OP2	2.07	0.54
34:BA:378:G:H2'	34:BA:379:C:H6	1.71	0.54
34:BA:425:G:N2	34:BA:426:G:C1'	2.70	0.54
34:BA:49:U:C5	34:BA:361:G:C2	2.95	0.54
34:BA:557:G:H2'	34:BA:558:G:N9	2.23	0.54
34:BA:664:G:H22	34:BA:741:G:H22	1.54	0.54
34:BA:756:C:O2'	34:BA:823:G:H1'	2.07	0.54
34:BA:812:C:O2'	34:BA:813:U:P	2.64	0.54
34:BA:939:G:C2	34:BA:940:C:N3	2.75	0.54
34:BA:954:G:N2	34:BA:1228:C:C4	2.75	0.54
34:BA:968:A:H5''	34:BA:969:A:C5'	2.37	0.54
34:BA:1230:C:H5'	56:BE:30:G:O5'	2.08	0.54
35:BF:17:PHE:C	35:BF:42:ILE:HG22	2.27	0.54
35:BF:55:PHE:O	35:BF:58:ILE:HB	2.07	0.54
36:BG:110:ASN:ND2	36:BG:140:ARG:O	2.40	0.54
36:BG:177:THR:O	36:BG:178:LEU:C	2.45	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:140:ARG:CZ	38:BI:140:ARG:HB2	2.37	0.54
38:BI:72:GLN:NE2	38:BI:145:LYS:H	2.02	0.54
40:BK:75:VAL:CG2	40:BK:88:PRO:HB3	2.37	0.54
41:BL:85:ARG:CG	41:BL:85:ARG:NH1	2.66	0.54
42:BM:69:GLY:C	42:BM:73:GLN:OE1	2.46	0.54
43:BN:40:LEU:HD12	43:BN:69:ASN:CB	2.37	0.54
43:BN:59:SER:O	43:BN:60:ARG:O	2.25	0.54
44:BO:85:ARG:HD2	44:BO:113:PRO:HD2	1.89	0.54
44:BO:84:VAL:CG2	51:BV:88:LYS:HZ2	2.20	0.54
46:BQ:86:CYS:O	52:BW:74:PHE:HA	2.07	0.54
47:BR:27:CYS:SG	47:BR:42:ILE:CD1	2.96	0.54
1:AA:716:A:H2	48:BS:44:LYS:CA	2.20	0.54
48:BS:52:SER:O	48:BS:53:HIS:C	2.46	0.54
48:BS:69:TYR:OH	48:BS:73:GLU:HG3	2.07	0.54
50:BU:31:LEU:C	50:BU:32:TYR:CD2	2.80	0.54
51:BV:41:LYS:O	51:BV:43:PHE:N	2.36	0.54
34:BA:191:G:C1'	53:BX:105:SER:HA	2.25	0.54
57:BZ:156:GLU:CA	57:BZ:157:GLN:CB	2.86	0.54
57:BZ:180:ALA:CB	57:BZ:181:GLU:HB3	2.35	0.54
57:BZ:248:ASN:OD1	57:BZ:276:ILE:O	2.25	0.54
57:BZ:390:ARG:CB	57:BZ:391:GLU:HB2	2.31	0.54
57:BZ:400:TYR:CE1	57:BZ:444:PRO:HD3	2.35	0.54
57:BZ:560:PRO:CA	57:BZ:562:ARG:N	2.69	0.54
31:AI:89:ALA:O	31:AI:90:ALA:HB2	2.05	0.54
57:BZ:40:GLU:CG	57:BZ:41:ARG:HB2	2.36	0.54
32:AJ:16:LYS:CD	32:AJ:16:LYS:H	2.20	0.54
1:AA:1047:G:N3	1:AA:1110:G:C3'	2.68	0.54
1:AA:1116:C:N4	1:AA:1117:G:O6	2.40	0.54
1:AA:1188:U:H2'	1:AA:1189:A:H5'	1.88	0.54
1:AA:1291:C:H2'	1:AA:1292:U:C6	2.42	0.54
1:AA:1340:U:C2	1:AA:1602:U:C5	2.95	0.54
1:AA:1349:A:H5'	1:AA:1350:C:H5''	1.88	0.54
1:AA:1388:G:C2	1:AA:1400:G:C2	2.95	0.54
1:AA:1343:G:O6	1:AA:1404:C:N3	2.40	0.54
1:AA:1471:A:H2'	1:AA:1472:A:C4'	2.37	0.54
1:AA:1496:A:N3	1:AA:1498:C:N4	2.50	0.54
1:AA:1534:G:H8	1:AA:1534:G:O5'	1.91	0.54
1:AA:1632:A:H8	1:AA:1632:A:O5'	1.90	0.54
1:AA:1655:A:N3	1:AA:1656:C:H1'	2.22	0.54
1:AA:1789:A:C8	1:AA:1790:C:C6	2.96	0.54
1:AA:1802:A:N3	1:AA:1802:A:C2'	2.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1803:A:C3'	4:AD:257:LEU:HD13	2.37	0.54
1:AA:1931:U:H2'	1:AA:1932:A:C8	2.41	0.54
1:AA:1936:A:C5	1:AA:1945:G:C6	2.95	0.54
1:AA:1954:G:H2'	1:AA:1956:U:O4	2.06	0.54
1:AA:2007:C:C4	1:AA:2008:C:C5	2.94	0.54
1:AA:2091:U:C3'	1:AA:2092:U:H5'	2.36	0.54
1:AA:214:G:H2'	1:AA:215:G:O4'	2.07	0.54
1:AA:2173:A:N1	3:AC:219:GLY:CA	2.70	0.54
1:AA:2207:C:C3'	1:AA:2208:U:H5''	2.34	0.54
1:AA:221:A:C4'	1:AA:222:A:H5'	2.10	0.54
1:AA:2285:C:H3'	1:AA:2285:C:C6	2.42	0.54
1:AA:2364:C:H1'	22:AX:36:ILE:HD11	1.89	0.54
1:AA:2412:A:C8	1:AA:2413:G:C8	2.94	0.54
1:AA:2431:U:HO2'	1:AA:2432:A:H8	1.53	0.54
1:AA:2491:U:H2'	1:AA:2492:U:H5''	1.89	0.54
1:AA:2055:C:C2'	1:AA:2504:U:H5'	2.33	0.54
1:AA:1127:A:N1	1:AA:2518:A:N3	2.55	0.54
1:AA:2582:G:H2'	1:AA:2583:G:H5'	1.89	0.54
1:AA:270(Z):U:H3	1:AA:271(C):U:H1'	1.73	0.54
1:AA:2754:U:H2'	1:AA:2756:U:OP1	2.06	0.54
1:AA:278:A:H2'	1:AA:279:C:N1	2.21	0.54
1:AA:2882:A:C2	1:AA:2883:A:C8	2.95	0.54
1:AA:2895:U:H2'	1:AA:2896:C:H6	1.71	0.54
1:AA:41:C:H2'	1:AA:43:G:H8	1.71	0.54
1:AA:641:C:H2'	1:AA:642:G:C4'	2.38	0.54
1:AA:655:A:H5'	1:AA:656:G:OP1	2.07	0.54
1:AA:71:A:O2'	1:AA:72:U:P	2.65	0.54
1:AA:827:U:H4'	1:AA:828:U:H3	1.70	0.54
1:AA:83:G:C6	1:AA:102:G:H1'	2.42	0.54
1:AA:846:C:H4'	1:AA:847:U:O5'	2.07	0.54
1:AA:847:U:N3	1:AA:933:A:C2	2.65	0.54
1:AA:859:G:O2'	1:AA:860:U:H5''	2.07	0.54
1:AA:896:A:H2	1:AA:897:C:C1'	2.20	0.54
1:AA:931:G:H21	24:AZ:24:LYS:CB	2.15	0.54
1:AA:957:A:H4'	1:AA:958:U:OP2	2.04	0.54
2:AB:45:A:C5	2:AB:46:A:C5	2.95	0.54
1:AA:2210:G:O6	4:AD:150:LYS:N	2.39	0.54
1:AA:1971:A:C2	4:AD:239:ARG:CA	2.90	0.54
4:AD:29:PRO:CB	4:AD:31:LYS:NZ	2.70	0.54
5:AE:14:ILE:HG22	5:AE:19:ARG:CA	2.36	0.54
5:AE:51:PHE:HE1	5:AE:76:ARG:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:183:VAL:C	6:AF:186:ILE:HB	2.27	0.54
6:AF:199:TRP:C	6:AF:203:GLN:OE1	2.46	0.54
6:AF:75:HIS:NE2	6:AF:80:ALA:CB	2.69	0.54
6:AF:8:GLN:HB3	6:AF:18:ARG:HA	1.88	0.54
7:AG:40:ASN:O	7:AG:156:ASP:O	2.25	0.54
8:AH:126:PRO:O	8:AH:127:GLU:CG	2.50	0.54
8:AH:35:VAL:CG2	8:AH:75:ALA:HB2	2.38	0.54
8:AH:33:LEU:HD22	8:AH:35:VAL:HG22	1.88	0.54
8:AH:8:PRO:CB	8:AH:51:ARG:NH1	2.70	0.54
32:AJ:28:GLY:O	32:AJ:29:GLN:HG2	2.08	0.54
32:AJ:23:VAL:CB	32:AJ:41:PHE:CE1	2.89	0.54
9:AK:87:LEU:HA	9:AK:90:MET:CG	2.37	0.54
10:AL:97:ARG:CD	10:AL:118:ALA:HB2	2.36	0.54
10:AL:8:LEU:HD21	10:AL:81:ASP:C	2.26	0.54
12:AN:130:LYS:NZ	12:AN:132:VAL:CG1	2.70	0.54
13:AO:61:HIS:C	13:AO:64:ARG:HH11	2.10	0.54
13:AO:76:VAL:HG12	13:AO:77:ARG:N	2.22	0.54
15:AQ:2:ASN:O	15:AQ:6:LEU:HD22	2.07	0.54
1:AA:2875:C:O2'	15:AQ:4:GLY:HA3	2.08	0.54
16:AR:111:GLU:CG	16:AR:112:ARG:N	2.70	0.54
16:AR:111:GLU:CG	16:AR:112:ARG:H	2.20	0.54
17:AS:56:SER:O	17:AS:57:VAL:CG2	2.55	0.54
20:AV:7:VAL:CG1	20:AV:71:LYS:HB3	2.32	0.54
21:AW:100:VAL:HG23	21:AW:102:LEU:CD2	2.37	0.54
21:AW:39:VAL:HG22	21:AW:44:PHE:HE2	1.65	0.54
21:AW:82:ARG:CG	21:AW:83:PRO:N	2.70	0.54
23:AY:50:ARG:HB3	23:AY:54:ARG:HH22	1.72	0.54
34:BA:1048:G:N2	34:BA:1210:C:H1'	2.22	0.54
34:BA:1055:A:N1	34:BA:1056:U:H1'	2.23	0.54
34:BA:1116:C:C2	34:BA:1185:G:N1	2.76	0.54
34:BA:1145:C:O2'	34:BA:1146:A:H8	1.91	0.54
34:BA:1440:C:C2	34:BA:1462:G:C2	2.96	0.54
34:BA:1508:G:H2'	34:BA:1509:C:C6	2.43	0.54
34:BA:170:U:O2'	34:BA:171:A:H5'	2.07	0.54
34:BA:182:U:H2'	34:BA:182:U:O2	2.06	0.54
34:BA:9:G:C2	34:BA:26:A:C2	2.96	0.54
34:BA:278:G:C1'	34:BA:282:A:H1'	2.38	0.54
34:BA:281:G:HO2'	34:BA:282:A:P	2.30	0.54
34:BA:327:A:C2	34:BA:329:A:C4	2.95	0.54
34:BA:447:G:C8	34:BA:447:G:O5'	2.59	0.54
34:BA:474:G:H5'	49:BT:81:ARG:CD	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:520:A:OP1	45:BP:52:LEU:HD21	2.07	0.54
34:BA:580:U:H2'	34:BA:581:G:O4'	2.07	0.54
34:BA:601:C:H2'	34:BA:602:A:O4'	2.07	0.54
34:BA:652:U:O4	34:BA:752:G:H2'	2.08	0.54
35:BF:101:MET:C	35:BF:103:THR:N	2.59	0.54
35:BF:149:LEU:O	35:BF:151:GLY:N	2.39	0.54
35:BF:82:ARG:HB2	35:BF:94:ASN:HD21	1.73	0.54
36:BG:179:ARG:O	36:BG:179:ARG:HG2	2.08	0.54
38:BI:122:GLU:HB3	38:BI:126:ARG:HG3	1.89	0.54
38:BI:43:LEU:CD2	38:BI:44:GLY:N	2.67	0.54
38:BI:72:GLN:HG3	38:BI:77:PRO:HD3	1.88	0.54
39:BJ:48:LEU:CD1	39:BJ:50:TYR:O	2.55	0.54
40:BK:66:VAL:O	40:BK:70:LYS:HG3	2.06	0.54
41:BL:63:LEU:HB2	41:BL:65:TYR:CE1	2.41	0.54
41:BL:6:ILE:HD12	41:BL:7:ALA:N	2.23	0.54
43:BN:44:VAL:HG22	43:BN:66:ARG:CD	2.37	0.54
44:BO:58:PRO:HB2	44:BO:93:GLN:CG	2.37	0.54
45:BP:50:SER:O	45:BP:51:ALA:CB	2.55	0.54
45:BP:27:LEU:HD22	45:BP:62:SER:OG	2.08	0.54
49:BT:20:VAL:HG11	49:BT:32:TYR:HB2	1.89	0.54
49:BT:6:LEU:CD2	49:BT:17:TYR:CD2	2.85	0.54
50:BU:48:GLU:OE1	50:BU:50:LYS:HB2	2.07	0.54
57:BZ:117:PHE:C	57:BZ:119:TYR:H	2.10	0.54
57:BZ:27:GLN:OE1	57:BZ:28:GLN:NE2	2.41	0.54
57:BZ:480:VAL:HG22	57:BZ:480:VAL:O	2.08	0.54
18:AT:60:ASN:ND2	18:AT:61:ASN:ND2	2.55	0.54
34:BA:232:G:C6	34:BA:233:C:N4	2.75	0.54
1:AA:1581:G:O2'	1:AA:1582:C:H5'	2.07	0.54
1:AA:1105:U:C4'	1:AA:1106:G:C5'	2.67	0.54
1:AA:1289:C:C2	1:AA:1290:C:C5	2.95	0.54
1:AA:141(A):C:O2'	1:AA:142:G:H5'	2.08	0.54
1:AA:1493:C:C2'	1:AA:1493:C:O2	2.52	0.54
1:AA:1524:G:C4	1:AA:1525:G:C8	2.95	0.54
1:AA:1531:C:H2'	1:AA:1532:C:H5	1.68	0.54
1:AA:1569:A:O2'	4:AD:39:LYS:NZ	2.38	0.54
1:AA:140:A:N6	1:AA:1596:A:H4'	2.21	0.54
1:AA:141:A:H2	1:AA:1597:A:H5'	1.71	0.54
1:AA:1618:A:O2'	1:AA:1619:G:OP1	2.18	0.54
1:AA:1650:G:O2'	1:AA:1651:G:O5'	2.26	0.54
1:AA:1770:G:H2'	1:AA:1771:C:C6	2.39	0.54
1:AA:1794:U:H5'	1:AA:1900:A:N6	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1842:G:O2'	1:AA:1843:C:C5'	2.54	0.54
1:AA:572:A:H61	1:AA:2029:G:H1'	1.71	0.54
1:AA:2118:U:OP1	1:AA:2147:G:C6	2.60	0.54
1:AA:2305:A:H2'	7:AG:154:GLY:CA	2.32	0.54
1:AA:2441:C:H2'	1:AA:2442:C:H6	1.71	0.54
1:AA:2443:C:C2	1:AA:2444:G:C8	2.95	0.54
1:AA:2459:A:C2	1:AA:2492:U:N3	2.73	0.54
1:AA:2461:C:C1'	1:AA:2492:U:C5	2.81	0.54
1:AA:2552:U:C2	1:AA:2554:U:H5''	2.42	0.54
1:AA:2552:U:O2	1:AA:2554:U:H5''	2.05	0.54
1:AA:2638:G:N7	1:AA:2775:A:N1	2.55	0.54
1:AA:2644:G:H1	1:AA:2645:G:N2	2.04	0.54
1:AA:2656:U:O2	1:AA:2656:U:H2'	2.06	0.54
1:AA:2687:U:O2	1:AA:2687:U:C2'	2.51	0.54
1:AA:2731:G:C2	1:AA:2732:G:C2	2.96	0.54
1:AA:2888:C:O2'	1:AA:2889:C:O4'	2.24	0.54
1:AA:2507:C:C5	59:AA:3002:8AN:O2'	2.60	0.54
1:AA:530:G:O2'	1:AA:531:C:O3'	2.25	0.54
1:AA:533:G:H5'	16:AR:24:TYR:HD2	1.72	0.54
1:AA:638:G:C2'	1:AA:639:U:H5'	2.37	0.54
1:AA:671:C:H5'	1:AA:672:C:OP2	2.06	0.54
1:AA:678:C:O2'	1:AA:679:C:H5'	2.07	0.54
1:AA:724:U:H2'	1:AA:725:G:H5'	1.88	0.54
1:AA:729:G:H2'	1:AA:730:C:C3'	2.36	0.54
1:AA:774:A:HO2'	1:AA:775:G:H8	1.54	0.54
1:AA:783:A:C6	1:AA:785:G:C8	2.95	0.54
1:AA:824:A:C2'	1:AA:825:C:C5	2.91	0.54
1:AA:820:A:N7	1:AA:973:A:C6	2.75	0.54
2:AB:79:C:O2'	2:AB:80:U:H5'	2.07	0.54
3:AC:113:VAL:CG1	3:AC:138:PRO:HG3	2.37	0.54
3:AC:225:ASN:C	3:AC:227:HIS:H	2.11	0.54
4:AD:142:VAL:HB	4:AD:192:THR:O	2.08	0.54
5:AE:179:GLU:CB	5:AE:181:LEU:HD11	2.36	0.54
5:AE:55:ASN:ND2	5:AE:73:GLU:HG3	2.22	0.54
6:AF:32:LEU:O	6:AF:35:GLU:HB2	2.07	0.54
1:AA:674:G:C4'	6:AF:74:ARG:CZ	2.78	0.54
7:AG:153:ARG:O	7:AG:155:MET:N	2.41	0.54
8:AH:87:LEU:O	8:AH:132:ARG:HB3	2.08	0.54
8:AH:67:LEU:O	8:AH:68:THR:C	2.46	0.54
32:AJ:12:LEU:CD1	32:AJ:23:VAL:CG2	2.86	0.54
32:AJ:51:ALA:CB	32:AJ:72:PRO:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AJ:76:TYR:HE2	32:AJ:80:LYS:HZ3	1.54	0.54
10:AL:113:LYS:HZ1	10:AL:117:LEU:HB2	1.72	0.54
11:AM:8:PRO:O	11:AM:9:ASN:C	2.44	0.54
12:AN:22:LYS:CE	12:AN:23:GLY:H	2.20	0.54
14:AP:99:LYS:O	14:AP:103:GLU:OE2	2.26	0.54
14:AP:96:GLY:O	14:AP:97:ARG:C	2.43	0.54
1:AA:2876:G:P	15:AQ:2:ASN:CB	2.96	0.54
16:AR:6:THR:O	16:AR:9:VAL:HB	2.07	0.54
17:AS:11:GLN:CD	17:AS:22:VAL:HB	2.27	0.54
17:AS:12:TYR:CD1	17:AS:14:VAL:HG23	2.43	0.54
17:AS:3:ALA:O	17:AS:13:ARG:HA	2.07	0.54
17:AS:75:PHE:N	17:AS:75:PHE:CD1	2.76	0.54
18:AT:16:LYS:HA	18:AT:19:LEU:HD12	1.88	0.54
18:AT:88:ARG:HA	18:AT:88:ARG:HE	1.70	0.54
20:AV:26:LYS:NZ	20:AV:36:ALA:CB	2.70	0.54
20:AV:53:PRO:O	20:AV:55:TYR:N	2.40	0.54
20:AV:7:VAL:HG22	20:AV:71:LYS:HG3	1.88	0.54
21:AW:96:VAL:HG13	21:AW:128:VAL:HG13	1.88	0.54
21:AW:122:ARG:HB2	21:AW:171:ILE:HD13	1.89	0.54
22:AX:21:LEU:CD1	22:AX:41:ARG:HG2	2.35	0.54
24:AZ:6:VAL:HG12	24:AZ:55:ARG:C	2.27	0.54
34:BA:1064:G:OP1	34:BA:1386:G:H5'	2.07	0.54
34:BA:1066:C:H5	34:BA:1067:A:H62	1.55	0.54
34:BA:1363:A:H5''	34:BA:1364:U:P	2.47	0.54
34:BA:1440:C:N3	34:BA:1462:G:C2	2.75	0.54
34:BA:1448:C:C2	34:BA:1459:C:O2	2.60	0.54
34:BA:1452:C:H4'	34:BA:1453:G:H5''	1.88	0.54
34:BA:151:A:N6	34:BA:152:A:H2	2.06	0.54
34:BA:352:C:C6	34:BA:352:C:OP1	2.60	0.54
34:BA:389:A:C4	34:BA:390:C:O4'	2.61	0.54
34:BA:521:G:O6	45:BP:49:ASN:ND2	2.40	0.54
34:BA:717:C:C2'	34:BA:718:G:OP2	2.55	0.54
34:BA:765:G:HO2'	34:BA:766:A:H5'	1.68	0.54
34:BA:923:A:OP1	38:BI:21:ALA:CB	2.55	0.54
34:BA:956:U:O2'	34:BA:957:U:C5'	2.55	0.54
34:BA:968:A:N3	34:BA:968:A:H2'	2.22	0.54
34:BA:974:A:H5'	34:BA:975:A:P	2.48	0.54
34:BA:974:A:OP2	47:BR:31:ARG:CG	2.49	0.54
34:BA:981:U:C6	34:BA:981:U:C3'	2.91	0.54
55:BC:18:G:H1	55:BC:55:U:C1'	2.20	0.54
56:BE:21:A:C8	56:BE:46:G:C6	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BE:7:A:N9	56:BE:49:C:OP2	2.40	0.54
35:BF:173:ALA:HA	35:BF:176:GLU:CB	2.34	0.54
36:BG:10:PHE:C	36:BG:11:ARG:HE	2.09	0.54
36:BG:40:ARG:HH11	36:BG:40:ARG:HG3	1.72	0.54
37:BH:110:PHE:CZ	37:BH:147:ALA:HB1	2.42	0.54
37:BH:99:SER:O	37:BH:140:VAL:HG23	2.08	0.54
37:BH:129:ASN:ND2	37:BH:144:ASP:OD1	2.41	0.54
37:BH:63:LYS:CA	37:BH:66:ARG:HD2	2.37	0.54
38:BI:94:ALA:HB1	38:BI:98:THR:CG2	2.31	0.54
40:BK:45:ASP:HB2	40:BK:117:ALA:HB2	1.88	0.54
40:BK:123:GLU:OE1	40:BK:134:ALA:HB2	2.06	0.54
34:BA:755:G:H21	41:BL:1:MET:HE1	1.71	0.54
41:BL:72:PRO:O	41:BL:73:ASP:HB2	2.06	0.54
42:BM:127:LYS:HZ2	56:BE:30:G:H4'	1.71	0.54
42:BM:23:ASN:O	42:BM:59:PHE:N	2.41	0.54
43:BN:27:ALA:CB	43:BN:85:LEU:HD11	2.36	0.54
34:BA:657:G:C4'	48:BS:28:GLN:HE22	2.20	0.54
48:BS:29:VAL:HG12	48:BS:85:LEU:HD21	1.89	0.54
49:BT:27:LYS:NZ	49:BT:27:LYS:N	2.55	0.54
50:BU:60:ILE:HD11	50:BU:62:SER:HA	1.89	0.54
57:BZ:233:PRO:CB	57:BZ:234:ASN:CB	2.85	0.54
57:BZ:234:ASN:CA	57:BZ:235:GLN:CB	2.86	0.54
57:BZ:398:GLU:OE1	57:BZ:444:PRO:HB3	2.08	0.54
57:BZ:446:ARG:NH2	57:BZ:475:VAL:O	2.40	0.54
57:BZ:509:LYS:HZ3	57:BZ:561:ILE:HD11	0.71	0.54
1:AA:2556:C:C4'	57:BZ:550:GLY:CA	2.84	0.54
56:BD:59:U:H2'	56:BD:60:U:H5'	1.88	0.54
57:BZ:500:ALA:HB2	57:BZ:540:GLY:N	2.22	0.54
34:BA:806:C:O2'	34:BA:807:A:H5'	2.07	0.54
1:AA:1137:G:C8	1:AA:1138:G:C8	2.95	0.54
1:AA:1178:C:O2'	1:AA:1179:C:O5'	2.24	0.54
1:AA:1195:G:O2'	1:AA:1226:G:N2	2.39	0.54
1:AA:120:U:C1'	1:AA:149:A:N3	2.71	0.54
1:AA:1257:C:C4	1:AA:1258:C:N4	2.74	0.54
1:AA:1338:G:H21	1:AA:1393:A:H2	1.54	0.54
1:AA:1364:G:N1	1:AA:1367:A:OP2	2.40	0.54
1:AA:1374:G:C5	1:AA:1375:C:C5	2.96	0.54
1:AA:1430:C:C2	1:AA:1431:U:C5	2.95	0.54
1:AA:149:A:C8	1:AA:149:A:H3'	2.43	0.54
1:AA:1538:G:N2	1:AA:1539:G:N3	2.55	0.54
1:AA:1613:G:H2'	1:AA:1614:A:OP1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1650:G:C2	1:AA:1651:G:N9	2.75	0.54
1:AA:1667:G:O5'	10:AL:7:TYR:CE1	2.60	0.54
1:AA:1785:A:O5'	1:AA:1982:C:C4'	2.52	0.54
1:AA:1912:A:N1	1:AA:1919:A:C2	2.75	0.54
1:AA:2011:U:C2'	1:AA:2012:G:C8	2.90	0.54
1:AA:2065:C:C4	1:AA:2066:C:C4	2.96	0.54
1:AA:2112:G:O4'	55:BC:19:G:H8	1.88	0.54
1:AA:2127:G:N2	1:AA:2128:C:O2	2.40	0.54
1:AA:219:G:C2'	1:AA:220:G:H5'	2.38	0.54
1:AA:2218:G:C6	1:AA:2219:G:N7	2.76	0.54
1:AA:2266:A:H5'	1:AA:2267:A:C4	2.42	0.54
1:AA:2300:G:O2'	1:AA:2301:C:H5'	2.07	0.54
1:AA:2331:G:C5	1:AA:2332:U:N3	2.76	0.54
1:AA:2392:A:C2	1:AA:2429:G:N3	2.75	0.54
1:AA:2436:G:O2'	1:AA:2437:U:P	2.66	0.54
1:AA:2462:U:C4	1:AA:2463:C:N4	2.76	0.54
1:AA:2527:C:O2'	1:AA:2528:U:H5'	2.08	0.54
1:AA:527:C:C5	1:AA:2780:G:OP1	2.60	0.54
1:AA:2781:A:H5'	1:AA:2781:A:H8	1.70	0.54
1:AA:2817:G:H2'	1:AA:2818:G:H8	1.72	0.54
1:AA:2825:C:H42	1:AA:2826:A:N6	2.05	0.54
1:AA:2864:G:O2'	1:AA:2865:U:H5'	2.07	0.54
1:AA:497:A:H2'	1:AA:498:G:C8	2.43	0.54
1:AA:14:A:N1	1:AA:526:A:C6	2.76	0.54
1:AA:577:G:C5	1:AA:578:A:N7	2.76	0.54
1:AA:606:U:C6	1:AA:606:U:O5'	2.52	0.54
1:AA:666:G:H5'	11:AM:45:LEU:HD12	1.89	0.54
1:AA:786:C:C5'	1:AA:1780:A:H8	2.20	0.54
1:AA:826:U:C2	1:AA:828:U:C6	2.95	0.54
1:AA:856:C:H4'	22:AX:69:PHE:HB3	1.89	0.54
1:AA:919:G:C2'	1:AA:920:G:O5'	2.55	0.54
1:AA:848:G:N2	1:AA:933:A:H1'	2.22	0.54
1:AA:819:A:C2	1:AA:943:U:O2	2.60	0.54
2:AB:114:G:H1'	14:AP:38:GLN:HE21	1.72	0.54
2:AB:115:G:H4'	14:AP:50:SER:OG	2.07	0.54
2:AB:58:A:N7	2:AB:59:A:N7	2.55	0.54
2:AB:71:C:C2'	2:AB:72:G:C5'	2.64	0.54
3:AC:75:LEU:HD13	3:AC:110:PHE:CD2	2.42	0.54
1:AA:1818:U:C5	4:AD:156:ALA:HB3	2.42	0.54
1:AA:1791:A:H4'	4:AD:206:LEU:HD23	1.88	0.54
4:AD:267:SER:OG	4:AD:268:ARG:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:79:VAL:HB	4:AD:114:GLY:H	1.73	0.54
5:AE:149:ARG:NH1	5:AE:150:VAL:O	2.40	0.54
5:AE:27:LEU:HD13	5:AE:76:ARG:NH1	2.23	0.54
5:AE:47:VAL:CG2	5:AE:79:ARG:HB2	2.35	0.54
6:AF:45:ARG:CG	6:AF:46:ARG:H	2.20	0.54
6:AF:71:GLY:C	6:AF:73:ALA:H	2.11	0.54
7:AG:19:LEU:HG	7:AG:22:ARG:NE	2.19	0.54
32:AJ:72:PRO:CG	32:AJ:77:LEU:HD23	0.18	0.54
32:AJ:98:ARG:NH1	32:AJ:101:TRP:HD1	2.06	0.54
9:AK:62:VAL:O	9:AK:64:GLY:N	2.36	0.54
10:AL:35:VAL:HA	10:AL:61:VAL:HG12	1.89	0.54
10:AL:64:ARG:NE	10:AL:67:LYS:N	2.55	0.54
11:AM:114:ILE:HB	11:AM:131:SER:H	1.73	0.54
11:AM:23:PRO:CG	11:AM:29:LYS:H	2.20	0.54
12:AN:116:GLU:O	12:AN:117:ALA:C	2.45	0.54
12:AN:35:VAL:O	12:AN:35:VAL:HG13	2.06	0.54
12:AN:77:LYS:N	12:AN:77:LYS:HD2	2.22	0.54
12:AN:6:ARG:HH21	12:AN:8:LYS:H	1.55	0.54
13:AO:22:ARG:HA	13:AO:47:PHE:HE2	1.72	0.54
13:AO:31:HIS:HD2	13:AO:34:ILE:HD11	1.72	0.54
13:AO:53:HIS:C	13:AO:56:LYS:HG3	2.27	0.54
15:AQ:103:ARG:O	15:AQ:107:ASP:CG	2.46	0.54
15:AQ:20:PRO:HB3	15:AQ:22:PHE:HE1	1.73	0.54
17:AS:60:GLU:OE1	17:AS:101:GLY:HA3	2.07	0.54
18:AT:18:ARG:CB	18:AT:18:ARG:HH21	2.20	0.54
18:AT:21:VAL:HG13	18:AT:75:TYR:CD2	2.42	0.54
20:AV:65:ALA:CB	20:AV:66:PRO:CD	2.85	0.54
24:AZ:50:VAL:O	24:AZ:52:HIS:CE1	2.61	0.54
34:BA:1107:C:C3'	34:BA:1108:G:C5'	2.86	0.54
34:BA:1269:A:C4'	34:BA:1312:G:N2	2.66	0.54
34:BA:1502:A:H2'	34:BA:1502:A:N3	2.23	0.54
34:BA:272:C:C2'	34:BA:273:A:H8	2.17	0.54
34:BA:355:C:C2	34:BA:356:A:N7	2.75	0.54
34:BA:486:U:N3	34:BA:487:A:C8	2.76	0.54
34:BA:586:C:OP1	50:BU:34:LYS:HE3	2.08	0.54
34:BA:703:G:O5'	34:BA:703:G:C8	2.61	0.54
34:BA:738:C:N4	34:BA:739:C:H41	2.05	0.54
34:BA:859:A:N7	34:BA:860:A:C4	2.76	0.54
34:BA:568:G:N2	34:BA:883:C:H1'	2.22	0.54
34:BA:950:U:H1'	34:BA:971:G:N3	2.23	0.54
34:BA:980:C:C4	34:BA:981:U:N3	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:175:ARG:HD2	35:BF:179:LYS:CE	2.38	0.54
35:BF:221:LEU:HD13	35:BF:222:ILE:N	2.21	0.54
35:BF:52:GLU:OE1	35:BF:53:ARG:N	2.41	0.54
35:BF:61:LEU:N	35:BF:64:ARG:NH1	2.55	0.54
35:BF:80:ILE:HB	35:BF:208:ILE:HD11	1.89	0.54
36:BG:193:TYR:CD2	36:BG:193:TYR:N	2.75	0.54
37:BH:122:ARG:HA	37:BH:134:ASP:O	2.07	0.54
37:BH:200:GLU:HG3	37:BH:201:GLN:HE21	1.70	0.54
38:BI:136:MET:CA	38:BI:139:LEU:HD12	2.38	0.54
40:BK:127:ALA:O	40:BK:128:ALA:C	2.46	0.54
40:BK:149:ARG:O	40:BK:150:ALA:C	2.45	0.54
40:BK:38:LEU:HA	40:BK:41:ARG:CB	2.37	0.54
41:BL:110:ALA:O	41:BL:120:THR:HA	2.08	0.54
41:BL:37:ARG:CD	41:BL:38:ILE:HD13	2.34	0.54
41:BL:67:PRO:CD	41:BL:76:PRO:HB3	2.38	0.54
43:BN:24:VAL:CA	43:BN:34:VAL:HG21	2.35	0.54
45:BP:46:LYS:HE3	45:BP:47:LYS:HZ1	1.72	0.54
46:BQ:19:LEU:O	46:BQ:25:ILE:CD1	2.55	0.54
46:BQ:22:ILE:HG21	46:BQ:67:GLU:OE1	2.08	0.54
46:BQ:87:TYR:O	46:BQ:90:LEU:HB2	2.08	0.54
47:BR:11:LYS:O	47:BR:13:THR:N	2.39	0.54
36:BG:29:TYR:CD1	47:BR:36:PHE:CZ	2.95	0.54
48:BS:17:ARG:NH1	48:BS:77:ARG:CD	2.70	0.54
51:BV:46:GLU:N	51:BV:49:LYS:NZ	2.56	0.54
52:BW:3:ARG:HH21	52:BW:45:VAL:HG22	1.71	0.54
34:BA:1227:A:C5'	52:BW:81:ARG:HE	2.21	0.54
57:BZ:150:ASN:O	57:BZ:151:LEU:HD13	2.07	0.54
57:BZ:15:ASP:HB2	57:BZ:16:HIS:CA	2.37	0.54
57:BZ:173:GLY:HA3	57:BZ:174:LEU:HB3	1.88	0.54
57:BZ:17:GLY:HA2	57:BZ:20:THR:HG21	1.89	0.54
57:BZ:405:LEU:CG	57:BZ:464:LEU:CA	2.65	0.54
57:BZ:488:LEU:HD11	57:BZ:509:LYS:O	2.07	0.54
56:BD:1:G:N2	56:BD:2:C:C2	2.73	0.54
56:BD:62:C:N4	56:BD:63:G:O6	2.41	0.54
55:BC:33:U:H2'	55:BC:33:U:O2	2.07	0.54
57:BZ:215:ASN:O	57:BZ:217:TYR:N	2.36	0.54
1:AA:1183:G:O2'	1:AA:1184:G:OP2	2.25	0.54
1:AA:1348:G:N1	1:AA:1599:C:C2	2.76	0.54
1:AA:1473:G:C2'	1:AA:1474:C:O4'	2.54	0.54
1:AA:1555:G:H2'	1:AA:1556:C:C5	2.37	0.54
1:AA:1605:C:H3'	1:AA:1606:G:H8	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1670:C:H3'	1:AA:1671:U:C5	2.43	0.54
1:AA:1685:C:H2'	1:AA:1686:C:H6	1.72	0.54
1:AA:1717:G:H1	1:AA:1718:G:N2	2.06	0.54
1:AA:1743:G:C4'	1:AA:1743:G:OP1	2.54	0.54
1:AA:1842:G:C4	1:AA:1843:C:C5	2.96	0.54
1:AA:1882:C:H2'	1:AA:1883:G:C5'	2.37	0.54
1:AA:1987:G:N3	1:AA:1988:C:C5	2.75	0.54
1:AA:1988:C:C2'	1:AA:1989:G:O5'	2.56	0.54
1:AA:2123:G:C2'	3:AC:215:THR:CG2	2.85	0.54
1:AA:2157:G:N3	1:AA:2157:G:OP2	2.41	0.54
1:AA:2226:C:O2'	1:AA:2227:A:H5'	2.08	0.54
1:AA:860:U:H6	1:AA:2267:A:H4'	1.70	0.54
1:AA:2285:C:O2	1:AA:2384:G:N2	2.41	0.54
1:AA:2421:G:C2'	1:AA:2422:A:H8	1.96	0.54
1:AA:1127:A:C2	1:AA:2518:A:N3	2.76	0.54
1:AA:251:A:HO2'	1:AA:252:G:P	2.30	0.54
1:AA:2584:U:C6	1:AA:2584:U:C3'	2.86	0.54
1:AA:308:G:N2	1:AA:329:G:C2	2.76	0.54
1:AA:463:G:N2	1:AA:467:G:C5	2.76	0.54
1:AA:493:G:H21	1:AA:494:G:H1'	1.71	0.54
1:AA:544:C:O2'	1:AA:545:G:H5'	2.08	0.54
1:AA:64:A:O5'	1:AA:64:A:C8	2.60	0.54
1:AA:675:A:H2'	1:AA:676:A:C2	2.43	0.54
1:AA:866:A:N7	1:AA:914:C:O2	2.40	0.54
1:AA:873:G:C2	1:AA:905:U:C2	2.94	0.54
3:AC:156:ILE:CA	3:AC:160:ARG:N	2.69	0.54
3:AC:223:ARG:HG2	3:AC:224:ILE:N	2.22	0.54
3:AC:29:VAL:HG21	3:AC:41:VAL:CG1	2.37	0.54
1:AA:2152:G:O3'	3:AC:2:LYS:HD2	2.06	0.54
3:AC:89:ALA:C	3:AC:154:ARG:HA	2.28	0.54
3:AC:87:GLU:CG	3:AC:94:VAL:HG21	2.24	0.54
4:AD:169:GLU:CB	4:AD:184:LYS:NZ	2.62	0.54
1:AA:763:G:H5'	4:AD:211:ARG:CZ	2.38	0.54
1:AA:781:A:C8	4:AD:220:HIS:CE1	2.96	0.54
4:AD:7:LYS:HZ2	4:AD:91:ARG:CD	2.19	0.54
5:AE:117:MET:SD	5:AE:136:ARG:CG	2.78	0.54
5:AE:164:ARG:C	5:AE:165:VAL:HG22	2.26	0.54
5:AE:173:VAL:CG2	5:AE:183:LEU:O	2.54	0.54
5:AE:104:VAL:HG11	5:AE:198:VAL:HG22	1.89	0.54
5:AE:199:ARG:C	5:AE:200:GLU:CD	2.66	0.54
6:AF:157:VAL:O	6:AF:158:THR:HB	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:53:THR:OG1	6:AF:54:ARG:N	2.37	0.54
7:AG:165:THR:HG22	7:AG:167:GLU:OE1	2.07	0.54
8:AH:6:ARG:N	8:AH:7:LEU:HD23	2.22	0.54
9:AK:126:PRO:O	9:AK:127:ASP:CB	2.53	0.54
9:AK:127:ASP:O	9:AK:130:HIS:N	2.40	0.54
9:AK:74:ARG:NE	9:AK:82:LEU:HD11	2.20	0.54
10:AL:42:SER:HA	10:AL:56:ASP:HA	1.89	0.54
12:AN:62:GLY:CA	21:AW:177:PRO:HA	2.37	0.54
12:AN:72:LYS:HE2	12:AN:96:VAL:HG21	1.89	0.54
13:AO:7:GLY:O	13:AO:8:ARG:C	2.45	0.54
13:AO:87:TYR:O	13:AO:89:ASP:N	2.41	0.54
14:AP:94:TYR:HB3	14:AP:99:LYS:HA	1.89	0.54
17:AS:23:GLU:CA	17:AS:93:GLU:HB3	2.38	0.54
17:AS:40:LEU:CA	17:AS:51:VAL:HG13	2.38	0.54
18:AT:33:ARG:CD	18:AT:37:ARG:HD3	2.35	0.54
19:AU:9:LEU:HD12	19:AU:9:LEU:H	1.72	0.54
20:AV:19:LYS:HD2	20:AV:40:GLU:OE1	2.06	0.54
59:AA:3003:8AN:C8	22:AX:4:LYS:HZ1	2.17	0.54
34:BA:1106:G:C2'	34:BA:1107:C:H6	2.13	0.54
34:BA:124:G:C2'	34:BA:125:U:O4'	2.54	0.54
34:BA:133:U:H4'	34:BA:134:A:OP1	2.08	0.54
34:BA:1371:G:C5	34:BA:1372:U:C5	2.96	0.54
34:BA:1415:G:C6	34:BA:1416:G:N7	2.76	0.54
34:BA:1513:A:N1	34:BA:1523:G:C6	2.76	0.54
34:BA:151:A:H62	34:BA:152:A:H2	1.54	0.54
34:BA:229:U:H2'	34:BA:230:G:H8	1.72	0.54
34:BA:266:G:N2	34:BA:270:A:H62	2.05	0.54
34:BA:306:G:C2'	34:BA:307:C:H5'	2.37	0.54
34:BA:373:A:H1'	34:BA:481:G:C1'	2.24	0.54
34:BA:397:A:C2	34:BA:548:G:C6	2.96	0.54
34:BA:38:G:O2'	34:BA:39:G:H5''	2.07	0.54
34:BA:696:A:C6	34:BA:697:U:H1'	2.43	0.54
34:BA:741:G:O2'	34:BA:742:G:H5'	2.08	0.54
34:BA:979:C:OP2	34:BA:980:C:C5	2.61	0.54
56:BE:15:G:C2'	56:BE:16:U:C5'	2.86	0.54
56:BE:30:G:C2'	56:BE:31:A:H5'	2.37	0.54
56:BE:7:A:N3	56:BE:49:C:OP2	2.39	0.54
56:BE:71:G:N2	56:BE:72:C:C2	2.76	0.54
35:BF:187:LEU:CA	35:BF:201:ILE:O	2.45	0.54
36:BG:134:ILE:HD12	36:BG:134:ILE:N	2.22	0.54
36:BG:17:ASP:OD2	36:BG:18:TRP:HZ3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:107:ARG:HD2	37:BH:174:LEU:HD11	1.89	0.54
37:BH:98:GLU:CD	37:BH:107:ARG:HG3	2.28	0.54
38:BI:106:PRO:CG	38:BI:122:GLU:OE2	2.56	0.54
38:BI:81:GLU:CD	38:BI:81:GLU:H	2.09	0.54
39:BJ:36:ARG:CZ	39:BJ:36:ARG:CB	2.85	0.54
41:BL:87:SER:CB	41:BL:93:VAL:N	2.70	0.54
34:BA:1147:C:HO2'	42:BM:5:TYR:HE1	0.63	0.54
43:BN:75:ILE:HG22	43:BN:76:ASN:ND2	2.22	0.54
46:BQ:14:ARG:HE	46:BQ:42:ALA:CA	2.11	0.54
47:BR:23:ARG:C	47:BR:33:VAL:HG11	2.28	0.54
48:BS:11:VAL:O	48:BS:12:ILE:C	2.45	0.54
48:BS:31:LEU:N	48:BS:31:LEU:HD12	2.21	0.54
48:BS:69:TYR:HA	48:BS:72:ARG:HB3	1.90	0.54
51:BV:58:LEU:HD22	51:BV:62:GLU:CG	2.32	0.54
34:BA:1221:G:C5'	52:BW:52:TYR:C	2.70	0.54
34:BA:1320:C:N3	52:BW:75:ALA:HB3	2.22	0.54
57:BZ:122:LYS:HZ3	57:BZ:153:ALA:HB1	1.72	0.54
57:BZ:156:GLU:HA	57:BZ:157:GLN:HB3	1.90	0.54
57:BZ:181:GLU:CD	57:BZ:182:ASP:H	2.06	0.54
57:BZ:206:GLN:HE21	57:BZ:227:LYS:HB3	1.73	0.54
57:BZ:212:LEU:HD11	57:BZ:220:VAL:HG12	1.88	0.54
57:BZ:311:PHE:CE1	57:BZ:358:VAL:HG21	2.42	0.54
57:BZ:422:ARG:HD2	57:BZ:480:VAL:HG23	1.90	0.54
57:BZ:87:ARG:HH22	57:BZ:210:SER:CB	2.20	0.54
1:AA:1582:C:C3'	1:AA:1583:A:O4'	2.56	0.54
34:BA:490:G:H2'	34:BA:491:G:H8	1.72	0.54
1:AA:1083:U:H2'	1:AA:1084:A:C5'	2.36	0.54
1:AA:1160:G:N1	1:AA:1161:C:N4	2.55	0.54
1:AA:1199:U:C2	1:AA:1200:C:C6	2.96	0.54
1:AA:139:G:O6	1:AA:1595:G:O2'	2.14	0.54
1:AA:1419:A:C3'	1:AA:1420:U:O4'	2.55	0.54
1:AA:1492:G:N2	1:AA:1499:C:C5	2.75	0.54
1:AA:1540:G:C4	1:AA:1541:U:H1'	2.41	0.54
1:AA:1557:C:C2'	1:AA:1558:A:H8	2.04	0.54
1:AA:1621:U:H3'	1:AA:1621:U:C6	2.43	0.54
1:AA:1683:C:H2'	1:AA:1684:C:C6	2.42	0.54
1:AA:1696:G:H2'	1:AA:1697:G:O4'	2.07	0.54
1:AA:1775:U:C1'	4:AD:208:LYS:HZ2	2.21	0.54
1:AA:1806:C:C2	1:AA:1807:G:C8	2.96	0.54
1:AA:1832:C:H2'	1:AA:1833:U:C5'	2.37	0.54
1:AA:1847:A:C2	1:AA:1851:U:O4	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1857:G:H2'	1:AA:1858:G:C5	2.42	0.54
1:AA:1944:U:C1'	1:AA:1955:U:H1'	2.38	0.54
1:AA:2056:G:C4	1:AA:2577:A:C2	2.95	0.54
1:AA:2125:G:N2	1:AA:2172:U:H5'	2.23	0.54
1:AA:2135:A:OP2	1:AA:2160:G:H5'	2.07	0.54
1:AA:2197:U:H3'	1:AA:2197:U:OP2	2.07	0.54
1:AA:2211:G:N3	1:AA:2211:G:C3'	2.64	0.54
1:AA:2232:U:H2'	1:AA:2233:U:O5'	2.07	0.54
1:AA:226:G:N1	1:AA:227:A:C2	2.76	0.54
1:AA:2303:G:C6	1:AA:2304:G:N7	2.76	0.54
1:AA:2403:C:O2	1:AA:2404:C:C6	2.61	0.54
1:AA:2458:G:C8	1:AA:2490:G:C6	2.96	0.54
1:AA:2519:U:C1'	1:AA:2542:A:N1	2.71	0.54
1:AA:2523:G:H1'	1:AA:2765:A:N6	2.21	0.54
1:AA:2576:G:C5'	1:AA:2577:A:OP1	2.54	0.54
1:AA:2075:U:C1'	1:AA:2597:G:N2	2.70	0.54
1:AA:2626:C:H2'	1:AA:2627:G:O4'	2.08	0.54
1:AA:2564:A:N1	1:AA:2647:U:C4'	2.71	0.54
1:AA:2703:C:C2'	1:AA:2704:C:O5'	2.56	0.54
1:AA:2703:C:H2'	1:AA:2704:C:O5'	2.08	0.54
1:AA:270(Y):G:H5''	1:AA:270(Z):U:OP1	2.07	0.54
1:AA:2714:G:C5	1:AA:2715:C:C5	2.95	0.54
1:AA:2788:C:C2	1:AA:2789:C:C2	2.96	0.54
1:AA:281:G:OP1	1:AA:281:G:N7	2.40	0.54
1:AA:2828:C:N3	1:AA:2829:C:C5	2.76	0.54
1:AA:2808:U:C5	1:AA:2892:A:N6	2.74	0.54
1:AA:2252:G:C4	59:AA:3003:8AN:C2	2.88	0.54
1:AA:360:G:H2'	1:AA:361:G:C4'	2.38	0.54
1:AA:534:U:HO2'	16:AR:49:HIS:HE2	1.48	0.54
1:AA:60:G:N3	1:AA:74:A:O4'	2.40	0.54
1:AA:627:A:OP1	1:AA:637:A:N6	2.41	0.54
1:AA:636:G:C4'	1:AA:638:G:O2'	2.55	0.54
1:AA:641:C:O2'	1:AA:642:G:H5'	2.06	0.54
1:AA:676:A:O4'	1:AA:2443:C:O4'	2.26	0.54
1:AA:728:G:C6	1:AA:762:U:C3'	2.90	0.54
1:AA:754:C:N3	1:AA:755:C:C5	2.75	0.54
1:AA:764:A:C4	1:AA:781:A:N6	2.76	0.54
1:AA:775:G:O4'	1:AA:777:A:C2	2.60	0.54
1:AA:813:U:H2'	1:AA:814:C:O4'	2.07	0.54
1:AA:840:C:H5'	1:AA:1192:G:H1'	1.89	0.54
1:AA:850:C:H2'	1:AA:851:U:H6	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:951:C:C2'	1:AA:952:G:H5'	2.37	0.54
1:AA:977:G:H4'	1:AA:1155:A:H5''	1.90	0.54
2:AB:51:G:OP1	14:AP:60:GLY:O	2.25	0.54
2:AB:63:G:H2'	2:AB:64:C:H6	1.73	0.54
4:AD:150:LYS:O	4:AD:152:GLY:N	2.39	0.54
4:AD:157:ARG:O	4:AD:158:ALA:C	2.45	0.54
4:AD:209:ALA:C	4:AD:213:ARG:HG2	2.28	0.54
4:AD:228:PRO:C	4:AD:230:ASP:N	2.57	0.54
4:AD:29:PRO:O	4:AD:31:LYS:N	2.39	0.54
5:AE:144:ARG:O	5:AE:144:ARG:HG2	2.07	0.54
5:AE:38:THR:CB	5:AE:39:PRO:HD3	2.36	0.54
6:AF:184:TYR:C	6:AF:186:ILE:N	2.60	0.54
1:AA:443:A:N7	6:AF:45:ARG:HD3	2.23	0.54
7:AG:125:PHE:CD1	7:AG:131:TYR:N	2.76	0.54
7:AG:57:ALA:H	7:AG:68:PRO:HB2	1.73	0.54
8:AH:121:ILE:HG13	8:AH:133:VAL:CG2	2.33	0.54
8:AH:7:LEU:HB2	8:AH:52:VAL:O	2.06	0.54
32:AJ:112:MET:CE	32:AJ:121:GLU:C	2.76	0.54
32:AJ:12:LEU:HD11	32:AJ:57:ILE:CG2	2.36	0.54
9:AK:99:LEU:HD12	9:AK:103:VAL:CG1	2.37	0.54
1:AA:558:G:H5''	9:AK:109:LYS:CD	2.37	0.54
10:AL:19:ILE:C	10:AL:19:ILE:HD12	2.28	0.54
11:AM:91:PHE:O	11:AM:95:VAL:CB	2.52	0.54
12:AN:27:VAL:CG1	12:AN:102:VAL:HG21	2.38	0.54
12:AN:12:GLN:NE2	12:AN:12:GLN:C	2.61	0.54
12:AN:42:ILE:CD1	12:AN:43:THR:O	2.55	0.54
12:AN:51:ARG:HH21	12:AN:55:VAL:HG21	1.73	0.54
13:AO:37:THR:HG23	13:AO:40:LYS:CD	2.37	0.54
13:AO:50:HIS:CE1	13:AO:54:LEU:HD11	2.42	0.54
13:AO:88:ARG:O	13:AO:89:ASP:CB	2.55	0.54
2:AB:7:G:C4'	14:AP:29:PHE:CE2	2.84	0.54
14:AP:57:LYS:NZ	14:AP:62:LYS:HG3	2.17	0.54
15:AQ:49:VAL:O	15:AQ:50:ILE:HG23	2.07	0.54
17:AS:6:LYS:HD3	17:AS:10:LYS:CB	2.37	0.54
18:AT:11:ARG:CB	18:AT:11:ARG:HH21	2.20	0.54
18:AT:59:VAL:HG21	18:AT:66:GLU:CG	2.37	0.54
19:AU:32:PRO:HG3	19:AU:77:LYS:HB2	1.89	0.54
19:AU:85:PRO:C	19:AU:87:GLN:HE21	2.11	0.54
20:AV:75:ILE:HG23	20:AV:75:ILE:O	2.07	0.54
21:AW:98:MET:HE2	21:AW:100:VAL:CG1	2.37	0.54
23:AY:13:PRO:O	23:AY:17:GLU:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:95:G:P	23:AY:39:LEU:HB3	2.48	0.54
34:BA:1005:A:C6	34:BA:1026:G:N2	2.76	0.54
34:BA:1108:G:H2'	34:BA:1109:C:H6	1.70	0.54
34:BA:1138:G:N3	34:BA:1138:G:H3'	2.23	0.54
34:BA:1277:C:H2'	34:BA:1278:U:O4'	2.06	0.54
34:BA:1347:G:H2'	42:BM:107:ARG:O	2.07	0.54
34:BA:1363:A:H5''	34:BA:1364:U:C5	2.43	0.54
34:BA:1403:C:H1'	34:BA:1500:A:N1	2.23	0.54
34:BA:198:G:H2'	34:BA:199:G:O5'	2.08	0.54
34:BA:393:A:OP2	49:BT:12:LYS:HE3	2.08	0.54
34:BA:432:A:H3'	34:BA:432:A:H8	1.71	0.54
34:BA:46:G:C2	34:BA:396:G:C6	2.96	0.54
34:BA:780:A:OP1	44:BO:122:LYS:HA	2.08	0.54
34:BA:855:G:O2'	34:BA:856:C:H5'	2.08	0.54
34:BA:88:C:H2'	34:BA:89:U:OP2	2.07	0.54
35:BF:100:GLY:O	35:BF:104:ASN:ND2	2.41	0.54
35:BF:208:ILE:CA	35:BF:211:ILE:HB	2.35	0.54
36:BG:142:MET:HE2	36:BG:143:GLU:HA	1.90	0.54
36:BG:142:MET:SD	36:BG:146:ALA:HB3	2.48	0.54
36:BG:72:LYS:O	36:BG:76:VAL:CG2	2.56	0.54
34:BA:407:G:H5''	37:BH:115:ARG:HD2	1.90	0.54
37:BH:129:ASN:ND2	37:BH:145:GLU:HG2	2.22	0.54
37:BH:155:LEU:N	37:BH:158:ILE:HG13	2.17	0.54
37:BH:161:ASN:O	37:BH:165:MET:HB3	2.08	0.54
39:BJ:77:ARG:N	39:BJ:80:ARG:CZ	2.71	0.54
40:BK:106:GLN:NE2	40:BK:106:GLN:CA	2.69	0.54
40:BK:75:VAL:HA	40:BK:89:MET:CE	2.37	0.54
41:BL:41:ARG:CZ	41:BL:41:ARG:HB3	2.38	0.54
41:BL:95:VAL:CG1	41:BL:133:LEU:HD11	2.37	0.54
42:BM:63:ILE:N	42:BM:63:ILE:CD1	2.64	0.54
45:BP:48:PRO:HG2	45:BP:49:ASN:N	2.21	0.54
45:BP:62:SER:OG	45:BP:64:TYR:CG	2.57	0.54
46:BQ:15:VAL:C	46:BQ:34:LEU:HG	2.25	0.54
48:BS:36:ILE:HA	48:BS:59:MET:HE1	1.89	0.54
49:BT:81:ARG:HG2	49:BT:83:GLU:HG2	1.90	0.54
39:BJ:98:LEU:HD21	51:BV:28:GLU:HA	1.90	0.54
44:BO:84:VAL:CG2	51:BV:88:LYS:HD3	2.32	0.54
52:BW:27:GLU:HG2	52:BW:29:ARG:N	2.11	0.54
52:BW:44:MET:O	52:BW:62:ILE:HG21	2.08	0.54
53:BX:43:LEU:CD1	53:BX:51:GLU:HB2	2.37	0.54
57:BZ:180:ALA:CB	57:BZ:181:GLU:CB	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:18:LYS:HB2	60:BZ:701:GCP:O1B	2.03	0.54
57:BZ:19:THR:CA	57:BZ:20:THR:CB	2.85	0.54
57:BZ:205:PHE:CE1	57:BZ:226:ILE:HG21	2.42	0.54
57:BZ:250:LYS:H	57:BZ:275:ALA:HB2	1.72	0.54
57:BZ:306:THR:HG23	57:BZ:307:VAL:HG23	1.90	0.54
57:BZ:64:ILE:N	57:BZ:65:LYS:HG2	2.22	0.54
57:BZ:64:ILE:H	57:BZ:65:LYS:CB	2.19	0.54
57:BZ:78:HIS:O	57:BZ:80:ASP:HB2	2.07	0.54
57:BZ:89:MET:HG2	57:BZ:119:TYR:OH	2.08	0.54
56:BD:68:C:O2'	56:BD:69:G:H5'	2.08	0.54
57:BZ:496:ALA:HB2	57:BZ:516:ALA:HB3	1.88	0.54
55:BC:39:U:H2'	55:BC:40:C:C5'	2.36	0.54
55:BC:39:U:H3'	55:BC:40:C:H5'	1.88	0.54
1:AA:1511:A:C3'	1:AA:1512:G:H5''	2.37	0.54
1:AA:2190:G:C2	1:AA:2191:G:C8	2.96	0.54
55:BC:52:G:H2'	55:BC:53:G:H8	1.71	0.54
1:AA:1093:G:N2	1:AA:1098:A:H62	2.06	0.54
1:AA:1100:C:C6	1:AA:1100:C:O5'	2.61	0.54
1:AA:1105:U:H2'	1:AA:1107:G:C5	2.40	0.54
1:AA:1165:U:C2'	1:AA:1166:C:C6	2.91	0.54
1:AA:1225:C:N3	1:AA:1226:G:N1	2.56	0.54
1:AA:1264:G:H3'	1:AA:1264:G:C8	2.42	0.54
1:AA:1357:U:N3	1:AA:1358:G:N3	2.55	0.54
1:AA:1407:C:O2'	1:AA:1408:C:C5'	2.55	0.54
1:AA:1519:G:C2'	1:AA:1520:U:O4'	2.55	0.54
1:AA:154:G:N1	1:AA:173:G:N1	2.56	0.54
1:AA:1684:C:C4	1:AA:1705:G:C2	2.96	0.54
1:AA:1725:G:N2	1:AA:1726:G:O4'	2.40	0.54
1:AA:1826:G:H2'	1:AA:1827:C:C5'	2.36	0.54
1:AA:1919:A:H4'	1:AA:1920:C:OP2	2.06	0.54
1:AA:2018:G:C1'	16:AR:34:LYS:HZ1	2.21	0.54
1:AA:2093:G:N3	1:AA:2198:A:N1	2.55	0.54
1:AA:2181:G:N2	1:AA:2182:G:H22	2.05	0.54
1:AA:2227:A:C6	1:AA:2228:G:N7	2.76	0.54
1:AA:2311:A:C3'	1:AA:2312:U:C5	2.80	0.54
1:AA:2399:G:C2	1:AA:2400:G:C1'	2.89	0.54
1:AA:2514:U:C2	1:AA:2515:C:C5	2.95	0.54
1:AA:1759:A:H5'	1:AA:2715:C:H1'	1.88	0.54
1:AA:271:G:N3	1:AA:272:G:C8	2.75	0.54
1:AA:2752:C:OP1	1:AA:2752:C:H6	1.90	0.54
1:AA:2737:G:H1	1:AA:2768:C:N4	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2779:U:C3'	1:AA:2779:U:C6	2.91	0.54
1:AA:2776:A:N7	1:AA:2781:A:C5	2.76	0.54
1:AA:2786:U:H2'	1:AA:2787:C:H6	1.72	0.54
1:AA:2788:C:C2	1:AA:2789:C:N3	2.75	0.54
1:AA:2799:A:H1'	1:AA:2802:G:C6	2.42	0.54
1:AA:2808:U:C3'	1:AA:2810:A:OP1	2.56	0.54
1:AA:2816:C:C2	1:AA:2817:G:C8	2.96	0.54
1:AA:304:G:C2	1:AA:305:U:H1'	2.43	0.54
1:AA:446:G:H4'	1:AA:449:A:N7	2.23	0.54
1:AA:522:G:C6	1:AA:523:C:C4	2.96	0.54
1:AA:581:C:H5''	16:AR:32:PHE:CD1	2.43	0.54
1:AA:617:G:H2'	1:AA:618:G:C8	2.43	0.54
1:AA:685:A:H1'	1:AA:688:U:O4	2.07	0.54
1:AA:760:G:C2	1:AA:761:A:H1'	2.43	0.54
1:AA:780:G:C5	1:AA:782:A:N6	2.76	0.54
1:AA:837:C:O2'	1:AA:838:C:H5'	2.08	0.54
1:AA:85:G:C4	1:AA:103:A:H2	2.25	0.54
1:AA:822:U:OP2	1:AA:945:A:O3'	2.26	0.54
1:AA:945:A:C2'	1:AA:946:G:O5'	2.55	0.54
1:AA:96:G:H4'	23:AY:43:HIS:CD2	2.42	0.54
2:AB:31:C:N3	2:AB:32:C:H5	2.06	0.54
2:AB:58:A:H62	2:AB:59:A:N6	2.06	0.54
3:AC:192:PHE:O	3:AC:196:LEU:HB2	2.08	0.54
4:AD:118:VAL:N	4:AD:129:ASN:ND2	2.51	0.54
4:AD:159:ALA:HA	4:AD:196:VAL:HG11	1.88	0.54
1:AA:1820:U:C2'	4:AD:202:LYS:CG	2.83	0.54
4:AD:27:THR:HG21	4:AD:82:ILE:HG22	1.90	0.54
4:AD:5:LYS:O	4:AD:27:THR:HG22	2.08	0.54
5:AE:38:THR:HG22	5:AE:39:PRO:N	2.23	0.54
5:AE:73:GLU:N	5:AE:74:PRO:HD3	2.22	0.54
1:AA:674:G:C5'	6:AF:74:ARG:NH1	2.65	0.54
7:AG:125:PHE:HD2	7:AG:129:GLY:H	1.53	0.54
7:AG:162:THR:C	7:AG:164:GLU:N	2.61	0.54
8:AH:105:LEU:H	8:AH:105:LEU:HD23	1.68	0.54
1:AA:2746:U:C4'	8:AH:139:GLN:HA	2.38	0.54
8:AH:33:LEU:HD11	8:AH:74:ASN:HD21	1.72	0.54
8:AH:38:SER:CB	8:AH:41:MET:HG3	2.13	0.54
8:AH:8:PRO:HA	8:AH:51:ARG:CZ	2.38	0.54
32:AJ:62:ASP:HB3	32:AJ:63:ARG:CA	2.37	0.54
32:AJ:83:GLY:O	32:AJ:84:LEU:C	2.45	0.54
11:AM:76:LYS:HG3	11:AM:77:ARG:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:118:LEU:CB	12:AN:131:ILE:HD13	2.37	0.54
12:AN:42:ILE:CG1	12:AN:46:GLN:NE2	2.67	0.54
15:AQ:57:PHE:O	15:AQ:58:ASN:HB3	2.08	0.54
16:AR:35:ALA:O	16:AR:36:ARG:C	2.44	0.54
18:AT:8:ARG:CZ	18:AT:102:HIS:ND1	2.71	0.54
18:AT:40:ASN:O	18:AT:41:LYS:CB	2.56	0.54
18:AT:21:VAL:HG11	18:AT:75:TYR:HA	1.90	0.54
19:AU:89:ILE:HG22	19:AU:89:ILE:O	2.08	0.54
20:AV:45:VAL:C	20:AV:57:GLN:HG2	2.28	0.54
20:AV:72:VAL:HG21	20:AV:96:ILE:HG21	1.89	0.54
34:BA:1026:G:N7	34:BA:1027:C:C6	2.76	0.54
34:BA:1058:G:O5'	34:BA:1058:G:H8	1.91	0.54
34:BA:110:C:H2'	34:BA:111:G:C5'	2.37	0.54
34:BA:1161:C:C2	34:BA:1162:C:H5	2.26	0.54
34:BA:1405:G:C4	34:BA:1406:U:C5	2.96	0.54
34:BA:1462:G:H2'	34:BA:1463:C:C6	2.42	0.54
34:BA:1514:C:C2	34:BA:1515:C:C5	2.95	0.54
34:BA:66:G:C5'	34:BA:173:U:O4	2.55	0.54
34:BA:186(A):C:H1'	53:BX:104:LEU:HD21	1.84	0.54
34:BA:251:G:C2	34:BA:266:G:O6	2.61	0.54
34:BA:46:G:N2	34:BA:366:C:H1'	2.23	0.54
34:BA:505:G:C8	34:BA:535:A:H1'	2.43	0.54
34:BA:595:G:N7	34:BA:641:U:C2	2.75	0.54
34:BA:660:G:H2'	34:BA:661:G:H8	1.72	0.54
34:BA:687:A:H2	34:BA:700:G:H21	1.56	0.54
34:BA:728:A:H8	48:BS:54:ARG:NH2	2.06	0.54
34:BA:755:G:OP2	48:BS:65:ARG:CD	2.56	0.54
34:BA:789:U:H2'	34:BA:790:A:H3'	1.90	0.54
34:BA:811:C:H3'	34:BA:811:C:C6	2.43	0.54
55:BC:21:A:H5'	55:BC:21:A:H8	1.73	0.54
56:BE:5:G:H4'	56:BE:6:G:OP1	2.07	0.54
35:BF:193:ASP:O	35:BF:194:PRO:C	2.46	0.54
35:BF:58:ILE:CG2	35:BF:221:LEU:HD12	2.38	0.54
35:BF:47:THR:CG2	35:BF:51:LEU:HD21	2.37	0.54
35:BF:61:LEU:HD23	35:BF:62:ALA:H	1.72	0.54
36:BG:132:ARG:HB3	36:BG:136:GLN:HE22	1.73	0.54
36:BG:18:TRP:CZ2	47:BR:57:ARG:HB2	2.43	0.54
36:BG:205:GLY:O	36:BG:206:GLU:CB	2.54	0.54
36:BG:67:THR:CG2	36:BG:104:GLN:CG	2.85	0.54
37:BH:105:VAL:HG21	37:BH:121:VAL:HG21	1.88	0.54
37:BH:24:GLU:C	37:BH:24:GLU:CD	2.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:6:GLY:O	37:BH:8:VAL:HG22	2.07	0.54
38:BI:109:ILE:HG23	38:BI:110:LEU:H	1.73	0.54
38:BI:50:GLU:HB2	38:BI:53:LEU:CD2	2.38	0.54
40:BK:63:LYS:CE	40:BK:63:LYS:HA	2.33	0.54
38:BI:78:HIS:HB3	41:BL:104:ARG:HB3	1.90	0.54
41:BL:112:LEU:HD11	41:BL:114:THR:HG22	1.89	0.54
41:BL:69:ARG:HH11	41:BL:69:ARG:HG3	1.72	0.54
42:BM:11:LYS:HB2	42:BM:108:VAL:HG12	1.88	0.54
42:BM:70:LYS:HD2	42:BM:70:LYS:H	1.72	0.54
43:BN:39:PRO:O	43:BN:40:LEU:CB	2.56	0.54
44:BO:99:GLN:O	44:BO:105:VAL:HG21	2.07	0.54
45:BP:24:VAL:HG13	45:BP:26:ALA:N	2.23	0.54
45:BP:26:ALA:O	45:BP:27:LEU:HB3	2.06	0.54
47:BR:23:ARG:NH1	47:BR:29:ARG:N	2.55	0.54
47:BR:41:ARG:HA	47:BR:44:LEU:HD23	1.90	0.54
43:BN:46:ARG:NH1	47:BR:59:ALA:HB1	2.22	0.54
48:BS:36:ILE:O	48:BS:40:SER:OG	2.20	0.54
48:BS:64:ARG:HG2	48:BS:65:ARG:N	2.22	0.54
49:BT:26:ARG:O	49:BT:27:LYS:C	2.46	0.54
49:BT:61:SER:OG	49:BT:62:VAL:N	2.38	0.54
50:BU:29:HIS:HE1	50:BU:31:LEU:HB3	1.72	0.54
50:BU:81:ARG:HG3	50:BU:84:LEU:CG	2.38	0.54
52:BW:30:LEU:HD12	52:BW:59:PRO:CB	2.37	0.54
52:BW:9:VAL:CG1	52:BW:41:VAL:CA	2.78	0.54
53:BX:23:ARG:O	53:BX:24:LEU:C	2.46	0.54
53:BX:43:LEU:HD12	53:BX:55:ILE:CD1	2.24	0.54
57:BZ:101:ALA:HB2	57:BZ:127:ILE:CG2	2.38	0.54
57:BZ:166:SER:HB3	57:BZ:170:GLY:HA3	1.88	0.54
57:BZ:230:LYS:C	57:BZ:265:THR:C	2.64	0.54
57:BZ:390:ARG:CB	57:BZ:391:GLU:CA	2.86	0.54
57:BZ:5:LEU:C	57:BZ:68:TYR:O	2.44	0.54
34:BA:1021:G:H2'	34:BA:1022:G:H1'	1.89	0.54
1:AA:1031:G:C5	1:AA:1032:A:N7	2.75	0.54
1:AA:1061:U:H5''	32:AJ:52:ILE:HD11	1.87	0.54
1:AA:1037:G:N2	1:AA:1119:C:C2	2.75	0.54
1:AA:1237:A:HO2'	1:AA:1238:G:C4'	2.14	0.54
1:AA:1556:C:C2	1:AA:1557:C:C5	2.96	0.54
1:AA:1664:A:C8	1:AA:1664:A:C3'	2.86	0.54
1:AA:1688:U:H3	1:AA:1700:A:H5''	1.73	0.54
1:AA:1827:C:H1'	1:AA:1970:A:C2	2.40	0.54
1:AA:1861:G:O2'	1:AA:1862:G:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1655:A:N6	1:AA:2005:A:C1'	2.70	0.54
1:AA:2049:G:C2'	1:AA:2050:C:O5'	2.55	0.54
1:AA:2055:C:O2	1:AA:2055:C:H2'	2.08	0.54
1:AA:205:G:HO2'	1:AA:206:U:P	2.27	0.54
1:AA:2160:G:O2'	1:AA:2161:C:O4'	2.26	0.54
1:AA:2166:G:H2'	1:AA:2167:U:C6	2.43	0.54
1:AA:2166:G:H2'	1:AA:2167:U:H6	1.72	0.54
1:AA:2285:C:C2	1:AA:2384:G:N2	2.75	0.54
1:AA:2384:G:C8	1:AA:2384:G:OP2	2.54	0.54
1:AA:2394:C:N4	1:AA:2422:A:C6	2.76	0.54
1:AA:2244:U:C1'	1:AA:2434:A:C6	2.89	0.54
1:AA:2468:G:H8	1:AA:2476:A:N1	2.06	0.54
1:AA:2510:C:N4	1:AA:2511:U:C4	2.76	0.54
1:AA:2529:G:H5''	1:AA:2530:A:C5'	2.37	0.54
1:AA:2665:A:H2'	1:AA:2666:C:C2	2.41	0.54
1:AA:2670:A:N3	1:AA:2670:A:H2'	2.22	0.54
1:AA:2674:G:C6	1:AA:2675:A:C6	2.96	0.54
1:AA:2699:C:C2'	1:AA:2700:C:H5'	2.37	0.54
1:AA:2765:A:O2'	1:AA:2766:G:OP1	2.19	0.54
1:AA:285:C:C2	1:AA:286:C:C5	2.95	0.54
1:AA:1752:C:H5''	1:AA:2862:G:OP1	2.08	0.54
1:AA:308:G:C2	1:AA:309:G:C1'	2.81	0.54
1:AA:364:C:C4	1:AA:365:C:N4	2.76	0.54
1:AA:35:G:C6	1:AA:446:G:N2	2.75	0.54
1:AA:531:C:O2	1:AA:531:C:H2'	2.07	0.54
1:AA:623:G:P	11:AM:105:LEU:HD11	2.48	0.54
1:AA:67:U:O5'	1:AA:67:U:C6	2.61	0.54
1:AA:747:U:O2	1:AA:2613:U:O4	2.25	0.54
1:AA:749:C:C6	1:AA:749:C:C3'	2.90	0.54
1:AA:768:G:O2'	1:AA:769:G:H5'	2.07	0.54
1:AA:832:G:H8	1:AA:944:G:H21	1.56	0.54
1:AA:873:G:C2	1:AA:905:U:O2	2.61	0.54
1:AA:988:A:O3'	24:AZ:10:LYS:CE	2.56	0.54
1:AA:988:A:OP1	24:AZ:10:LYS:CD	2.56	0.54
3:AC:103:ILE:HA	3:AC:107:TRP:O	2.07	0.54
3:AC:93:TYR:HD1	3:AC:107:TRP:HZ2	1.55	0.54
4:AD:242:ARG:O	4:AD:244:ARG:HG2	2.08	0.54
5:AE:119:ARG:CZ	5:AE:155:LYS:CB	2.81	0.54
5:AE:142:GLY:O	5:AE:143:ASN:CB	2.56	0.54
5:AE:151:TYR:CD2	5:AE:152:LYS:N	2.75	0.54
5:AE:176:ILE:HD13	5:AE:176:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:27:LEU:CD1	5:AE:76:ARG:HH12	2.21	0.54
5:AE:91:VAL:HG13	5:AE:92:THR:H	1.73	0.54
6:AF:154:VAL:HG21	6:AF:193:VAL:HG21	1.88	0.54
7:AG:12:TYR:C	7:AG:12:TYR:CD1	2.80	0.54
7:AG:135:LEU:CD2	7:AG:137:GLU:H	2.21	0.54
7:AG:20:ILE:HG22	7:AG:21:ARG:N	2.22	0.54
7:AG:22:ARG:HG3	7:AG:23:PHE:N	2.23	0.54
7:AG:56:ALA:HB1	7:AG:68:PRO:HG2	1.90	0.54
7:AG:84:LYS:NZ	56:BE:54:U:H5	1.93	0.54
8:AH:85:LYS:HZ2	8:AH:85:LYS:HB2	1.73	0.54
31:AI:153:LEU:C	31:AI:155:GLY:N	2.57	0.54
9:AK:51:PHE:CD1	9:AK:119:ARG:HB2	2.43	0.54
9:AK:16:ILE:CB	9:AK:54:VAL:HG23	2.29	0.54
9:AK:93:THR:C	9:AK:94:HIS:CD2	2.81	0.54
10:AL:84:ALA:HB3	10:AL:114:ILE:HD11	1.89	0.54
10:AL:19:ILE:O	10:AL:19:ILE:CD1	2.53	0.54
10:AL:1:MET:HG3	10:AL:2:ILE:H	1.72	0.54
11:AM:111:ARG:HH21	11:AM:129:ALA:HB2	1.73	0.54
12:AN:90:VAL:C	12:AN:91:GLU:CD	2.66	0.54
13:AO:54:LEU:HA	13:AO:57:ARG:CG	2.34	0.54
15:AQ:57:PHE:HA	15:AQ:61:PHE:HD2	1.72	0.54
16:AR:8:VAL:HA	16:AR:11:ARG:NE	2.23	0.54
18:AT:38:TYR:N	18:AT:38:TYR:CD1	2.75	0.54
19:AU:39:ILE:HD12	19:AU:54:VAL:HG12	1.89	0.54
20:AV:12:THR:HG21	20:AV:71:LYS:HA	1.89	0.54
20:AV:93:GLY:C	20:AV:95:LYS:H	2.11	0.54
21:AW:141:VAL:HG12	21:AW:142:SER:N	2.22	0.54
12:AN:85:LYS:NZ	22:AX:10:THR:OG1	2.37	0.54
34:BA:1041:A:C2	34:BA:1042:G:C8	2.96	0.54
34:BA:1057:G:OP1	36:BG:155:GLY:CA	2.56	0.54
34:BA:1099:G:C5	34:BA:1100:C:C5	2.96	0.54
34:BA:1107:C:H2'	34:BA:1108:G:C5'	2.38	0.54
34:BA:1126:U:H2'	34:BA:1127:G:O4'	2.08	0.54
34:BA:1172:C:H2'	34:BA:1173:G:O4'	2.08	0.54
34:BA:1215:G:C2	34:BA:1216:G:N7	2.76	0.54
34:BA:1223:C:O5'	34:BA:1224:G:H5''	2.08	0.54
34:BA:1239:A:H1'	34:BA:1241:G:C5	2.42	0.54
34:BA:1302:U:H2'	34:BA:1303:C:H5'	1.87	0.54
34:BA:1311:G:C2	34:BA:1326:C:H2'	2.42	0.54
34:BA:1332:A:N3	34:BA:1332:A:H2'	2.21	0.54
34:BA:152:A:H3'	34:BA:152:A:H8	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:153:C:C2	34:BA:154:C:C5	2.96	0.54
34:BA:235:C:OP1	50:BU:70:ARG:HG3	2.07	0.54
34:BA:50:A:O2'	34:BA:52:G:C5	2.61	0.54
34:BA:522:C:H1'	34:BA:536:C:C5'	2.37	0.54
34:BA:557:G:C3'	34:BA:558:G:C8	2.88	0.54
34:BA:577:G:H8	34:BA:577:G:OP1	1.91	0.54
34:BA:600:C:HO2'	34:BA:601:C:H5'	1.72	0.54
34:BA:728:A:N1	34:BA:729:A:C4	2.76	0.54
34:BA:832:C:C2	34:BA:833:U:C5	2.95	0.54
35:BF:173:ALA:O	35:BF:174:VAL:C	2.46	0.54
35:BF:212:GLN:O	35:BF:213:LEU:C	2.43	0.54
36:BG:112:SER:OG	36:BG:115:LEU:HD12	2.08	0.54
36:BG:3:ASN:CG	36:BG:4:LYS:N	2.59	0.54
37:BH:107:ARG:CA	37:BH:107:ARG:HH11	2.07	0.54
34:BA:620:C:C1'	37:BH:135:LEU:HD13	2.38	0.54
37:BH:50:ARG:CG	37:BH:51:PRO:HD2	2.23	0.54
38:BI:45:PHE:CD1	38:BI:45:PHE:O	2.61	0.54
36:BG:131:ARG:HH12	38:BI:51:VAL:CG2	2.19	0.54
36:BG:135:LYS:NZ	38:BI:52:PRO:HG2	2.22	0.54
38:BI:79:GLU:O	38:BI:80:ILE:HG23	2.07	0.54
39:BJ:14:LEU:CD1	39:BJ:15:ASP:O	2.55	0.54
41:BL:4:ASP:O	41:BL:5:PRO:C	2.45	0.54
44:BO:115:PRO:O	44:BO:116:HIS:ND1	2.40	0.54
45:BP:53:ARG:NH2	45:BP:92:ASP:OD2	2.41	0.54
47:BR:42:ILE:C	47:BR:44:LEU:N	2.56	0.54
48:BS:32:LEU:HD12	48:BS:59:MET:HG2	1.89	0.54
34:BA:659:U:OP1	48:BS:9:GLN:CD	2.46	0.54
50:BU:40:LYS:HB3	50:BU:42:TYR:HE1	1.73	0.54
50:BU:4:LYS:CD	50:BU:5:VAL:N	2.63	0.54
50:BU:66:SER:HB3	50:BU:69:LYS:NZ	2.23	0.54
39:BJ:97:PHE:HE2	51:BV:62:GLU:OE2	1.91	0.54
53:BX:22:ARG:O	53:BX:26:ASN:OD1	2.26	0.54
57:BZ:139:TRP:CH2	57:BZ:143:GLN:HG3	2.42	0.54
57:BZ:150:ASN:ND2	57:BZ:151:LEU:CD2	2.70	0.54
57:BZ:211:GLN:O	57:BZ:212:LEU:HB2	2.08	0.54
57:BZ:407:VAL:CA	57:BZ:408:GLU:CB	2.86	0.54
57:BZ:374:ARG:O	57:BZ:582:PRO:CB	2.53	0.54
57:BZ:15:ASP:HA	60:BZ:701:GCP:O1G	2.08	0.54
57:BZ:496:ALA:H	57:BZ:516:ALA:C	2.05	0.54
1:AA:1579:A:H2'	1:AA:1580:A:H4'	1.90	0.54
1:AA:487:C:H3'	1:AA:487:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:273:ARG:CZ	4:AD:273:ARG:O	2.55	0.54
1:AA:112:U:H3'	1:AA:113:G:C4'	2.38	0.54
1:AA:1213:A:C6	1:AA:1237:A:H1'	2.42	0.54
1:AA:1404:C:O2	1:AA:1405:U:C6	2.61	0.54
1:AA:1409:C:H2'	1:AA:1410:G:O4'	2.07	0.54
1:AA:1451:C:H2'	1:AA:1457:A:C6	2.43	0.54
1:AA:1565:C:C4	1:AA:1567:A:H1'	2.42	0.54
1:AA:1670:C:O5'	1:AA:1671:U:C5	2.61	0.54
1:AA:1703:G:H2'	1:AA:1704:G:C5'	2.38	0.54
1:AA:1735:C:H42	1:AA:1741:C:N4	2.05	0.54
1:AA:1771:C:O2'	1:AA:1772:G:H5'	2.07	0.54
1:AA:1790:C:P	4:AD:220:HIS:HB3	2.48	0.54
1:AA:1802:A:OP1	1:AA:1814:G:N2	2.26	0.54
1:AA:188:G:H2'	1:AA:189:G:H8	1.73	0.54
1:AA:1678:G:H22	1:AA:1989:G:N2	2.05	0.54
1:AA:2004:G:C5	1:AA:2005:A:C5	2.96	0.54
1:AA:201:C:C2'	1:AA:202:U:H5'	2.37	0.54
1:AA:2043:C:OP1	1:AA:2043:C:C6	2.54	0.54
1:AA:2196:C:O2	1:AA:2196:C:H2'	2.08	0.54
1:AA:2293:C:H2'	1:AA:2294:C:H6	1.73	0.54
1:AA:2323:G:C6	1:AA:2324:C:N4	2.76	0.54
1:AA:218:A:C2	1:AA:235:U:H4'	2.43	0.54
1:AA:2393:A:O3'	11:AM:57:THR:HA	2.08	0.54
1:AA:2425:A:H2'	1:AA:2425:A:N3	2.23	0.54
1:AA:2453:A:HO2'	1:AA:2454:G:H5'	1.71	0.54
1:AA:2498:C:O2	1:AA:2498:C:C2'	2.56	0.54
1:AA:2538:C:H2'	1:AA:2539:C:C5	2.43	0.54
1:AA:2564:A:C6	1:AA:2647:U:C4'	2.91	0.54
1:AA:2606:C:O2	1:AA:2607:G:C8	2.61	0.54
1:AA:265:A:C2	1:AA:281:G:O5'	2.60	0.54
1:AA:2731:G:H4'	5:AE:168:MET:CE	2.38	0.54
1:AA:2734:A:H2'	1:AA:2735:G:O4'	2.07	0.54
1:AA:1051:G:N9	1:AA:2752:C:OP2	2.40	0.54
1:AA:2764:A:N7	1:AA:2766:G:C5	2.75	0.54
1:AA:307:G:H2'	1:AA:309:G:C8	2.43	0.54
1:AA:449:A:C2'	1:AA:450:G:O4'	2.53	0.54
1:AA:522:G:H2'	1:AA:523:C:C6	2.43	0.54
1:AA:55:G:H2'	1:AA:56:A:H8	1.72	0.54
1:AA:598:G:H1'	11:AM:14:LYS:HG2	1.90	0.54
1:AA:602:G:H2'	1:AA:655:A:C6	2.42	0.54
1:AA:61:G:H2'	1:AA:62:C:H6	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:621:A:C8	1:AA:622:G:H5'	2.42	0.54
1:AA:624:C:H6	1:AA:624:C:H3'	1.69	0.54
1:AA:648:G:C2'	1:AA:649:G:H8	2.21	0.54
1:AA:696:G:N3	1:AA:697:C:C6	2.76	0.54
1:AA:569:U:C5'	1:AA:946:G:H1'	2.33	0.54
1:AA:568:U:O4	1:AA:973:A:OP2	2.26	0.54
1:AA:975:G:C6	1:AA:976:C:H5	2.24	0.54
1:AA:987:G:C6	1:AA:988:A:C5	2.96	0.54
2:AB:79:C:N4	2:AB:80:U:C4	2.76	0.54
2:AB:80:U:O2	2:AB:81:G:N7	2.41	0.54
3:AC:100:ILE:HD13	3:AC:123:VAL:N	2.23	0.54
3:AC:39:GLU:HB3	3:AC:178:ALA:CB	2.38	0.54
3:AC:59:ARG:HD2	3:AC:162:GLU:CD	2.28	0.54
4:AD:79:VAL:HG11	4:AD:113:VAL:HA	1.89	0.54
4:AD:183:ARG:HG2	4:AD:268:ARG:CD	2.37	0.54
4:AD:230:ASP:O	4:AD:232:PRO:N	2.41	0.54
4:AD:37:LEU:CD1	4:AD:62:TYR:O	2.56	0.54
4:AD:79:VAL:CG1	4:AD:113:VAL:HA	2.37	0.54
5:AE:115:GLY:O	5:AE:117:MET:N	2.41	0.54
5:AE:133:LYS:HB3	5:AE:137:HIS:CD2	2.42	0.54
5:AE:176:ILE:CD1	5:AE:179:GLU:O	2.53	0.54
5:AE:176:ILE:CG2	5:AE:181:LEU:O	2.56	0.54
6:AF:126:VAL:HG23	6:AF:197:ASP:OD1	2.08	0.54
6:AF:74:ARG:CZ	6:AF:75:HIS:N	2.69	0.54
6:AF:74:ARG:CZ	6:AF:75:HIS:HA	2.38	0.54
6:AF:78:ILE:CD1	6:AF:79:GLY:H	2.20	0.54
8:AH:117:PRO:HB3	8:AH:123:PHE:CE2	2.43	0.54
8:AH:161:GLY:C	8:AH:163:TYR:CE1	2.81	0.54
8:AH:76:VAL:HA	8:AH:79:VAL:CG2	2.36	0.54
32:AJ:71:THR:CB	32:AJ:72:PRO:CD	2.86	0.54
9:AK:69:GLN:OE1	9:AK:87:LEU:HD13	2.08	0.54
10:AL:106:LEU:HA	10:AL:111:PHE:CE1	2.42	0.54
10:AL:31:LYS:HB3	10:AL:32:TYR:CE2	2.43	0.54
10:AL:68:GLU:CG	10:AL:68:GLU:O	2.52	0.54
10:AL:70:LYS:HB3	10:AL:107:ARG:HH12	1.73	0.54
11:AM:16:ARG:HG3	11:AM:19:VAL:CG2	2.38	0.54
11:AM:32:THR:OG1	11:AM:35:HIS:CE1	2.61	0.54
12:AN:27:VAL:CG1	12:AN:104:PHE:CE2	2.91	0.54
14:AP:9:ARG:N	14:AP:9:ARG:NH1	2.53	0.54
15:AQ:31:SER:C	15:AQ:32:TYR:CG	2.81	0.54
17:AS:28:GLU:OE1	17:AS:94:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:3:ALA:HA	17:AS:44:LYS:HZ3	1.72	0.54
17:AS:40:LEU:HA	17:AS:54:GLY:CA	2.27	0.54
17:AS:23:GLU:HA	17:AS:93:GLU:HB3	1.90	0.54
18:AT:24:ILE:O	18:AT:25:ARG:O	2.26	0.54
19:AU:7:VAL:HB	23:AY:28:MET:CG	2.38	0.54
19:AU:82:GLN:HG2	19:AU:83:VAL:N	2.23	0.54
22:AX:28:GLY:O	22:AX:29:GLN:C	2.46	0.54
34:BA:1056:U:H2'	34:BA:1056:U:O2	2.07	0.54
34:BA:1104:G:C4	34:BA:1105:A:C8	2.96	0.54
34:BA:1117:G:C6	34:BA:1184:G:N7	2.73	0.54
34:BA:1251:A:C2	34:BA:1354:C:H1'	2.43	0.54
34:BA:1238:A:N7	34:BA:1301:U:O4	2.41	0.54
34:BA:132:C:O2'	34:BA:133:U:O4'	2.26	0.54
34:BA:1411:C:N3	34:BA:1412:C:C5	2.75	0.54
34:BA:263:A:C2'	34:BA:264:U:C5'	2.75	0.54
34:BA:377:G:C2	34:BA:378:G:N7	2.76	0.54
34:BA:429:U:O2'	34:BA:430:A:H5''	2.07	0.54
34:BA:521:G:C2	34:BA:522:C:C2	2.96	0.54
34:BA:541:G:H2'	34:BA:542:G:H8	1.72	0.54
34:BA:594:G:H2'	34:BA:595:G:C1'	2.38	0.54
34:BA:657:G:C6	34:BA:658:G:N7	2.76	0.54
34:BA:673:G:H2'	34:BA:674:G:N7	2.23	0.54
34:BA:735:C:O5'	34:BA:735:C:H6	1.90	0.54
34:BA:821:G:O2'	34:BA:822:C:C5'	2.56	0.54
34:BA:900:A:N7	34:BA:901:A:N7	2.56	0.54
34:BA:950:U:C2'	34:BA:951:G:H5'	2.38	0.54
35:BF:8:LYS:O	35:BF:9:GLU:HB2	2.06	0.54
36:BG:164:ARG:CG	36:BG:165:THR:N	2.71	0.54
37:BH:6:GLY:O	37:BH:8:VAL:CG2	2.56	0.54
37:BH:78:LEU:CD2	37:BH:96:LEU:HD22	2.37	0.54
38:BI:118:ILE:C	38:BI:119:LEU:CD2	2.74	0.54
38:BI:152:ARG:HH21	41:BL:44:PHE:N	2.05	0.54
38:BI:34:VAL:HG21	38:BI:62:ALA:HB1	1.89	0.54
39:BJ:89:MET:HE2	51:BV:75:ILE:HG21	1.90	0.54
41:BL:28:ALA:O	41:BL:29:SER:OG	2.20	0.54
42:BM:111:ARG:HG2	42:BM:112:LYS:N	2.21	0.54
42:BM:49:PRO:HD3	42:BM:78:LYS:CG	2.33	0.54
42:BM:70:LYS:N	42:BM:70:LYS:HD2	2.22	0.54
42:BM:114:TYR:CE1	43:BN:60:ARG:NH1	2.74	0.54
44:BO:128:ALA:O	44:BO:129:SER:C	2.47	0.54
46:BQ:25:ILE:HG23	46:BQ:29:ARG:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:82:MET:HG2	46:BQ:82:MET:O	2.08	0.54
48:BS:31:LEU:N	48:BS:31:LEU:CD1	2.71	0.54
48:BS:42:HIS:O	48:BS:43:LEU:C	2.45	0.54
34:BA:667:G:H5''	48:BS:51:HIS:CE1	2.43	0.54
49:BT:52:ASP:OD2	49:BT:52:ASP:C	2.45	0.54
49:BT:56:ALA:C	49:BT:60:LEU:HD12	2.29	0.54
50:BU:51:TYR:CD2	50:BU:57:VAL:HG11	2.43	0.54
50:BU:3:LYS:HD3	50:BU:60:ILE:HD11	1.90	0.54
50:BU:69:LYS:CB	50:BU:69:LYS:HZ2	2.20	0.54
34:BA:1318:A:N9	52:BW:37:ARG:CB	2.68	0.54
52:BW:51:VAL:HG23	52:BW:60:VAL:CG2	2.37	0.54
57:BZ:209:ILE:O	57:BZ:209:ILE:HG22	2.07	0.54
57:BZ:446:ARG:NH1	57:BZ:480:VAL:N	2.56	0.54
57:BZ:73:VAL:CG2	57:BZ:88:VAL:CG2	2.83	0.54
57:BZ:541:LYS:CB	57:BZ:542:LYS:HB3	2.38	0.54
55:BC:36:A:C3'	55:BC:37:A:H5''	2.37	0.54
32:AJ:64:SER:CA	32:AJ:65:PHE:HB3	2.38	0.54
1:AA:1563:G:O2'	1:AA:1564:C:H5'	2.07	0.54
1:AA:1009:A:N3	1:AA:1153:C:O2'	2.33	0.54
1:AA:1024:G:C6	1:AA:1025:G:H8	2.26	0.54
1:AA:1128:A:O2'	1:AA:1129:A:H5'	2.07	0.54
1:AA:1142:U:H3'	1:AA:1142(A):A:C8	2.42	0.54
1:AA:1168:G:O6	1:AA:1169:G:C6	2.61	0.54
1:AA:1183:G:OP2	24:AZ:30:ARG:NH1	2.41	0.54
1:AA:1221:C:H2'	1:AA:1222:C:O5'	2.07	0.54
1:AA:1401:G:C6	1:AA:1402:C:C4	2.95	0.54
1:AA:140:A:H61	1:AA:1596:A:C4'	2.20	0.54
1:AA:143:C:O2	1:AA:144:C:C5	2.61	0.54
1:AA:1559:G:N3	1:AA:1559:G:H2'	2.23	0.54
1:AA:1642:G:C2	1:AA:1643:G:C8	2.95	0.54
1:AA:1820:U:H2'	4:AD:202:LYS:NZ	2.22	0.54
1:AA:1939:U:H2'	1:AA:1940:U:OP1	2.07	0.54
1:AA:2033:A:HO2'	1:AA:2034:U:P	2.31	0.54
1:AA:2134:A:C2	1:AA:2135:A:N1	2.76	0.54
1:AA:2093:G:H1'	1:AA:2198:A:N1	2.23	0.54
1:AA:2335:A:HO2'	1:AA:2336:A:H8	1.56	0.54
1:AA:2491:U:C5	1:AA:2492:U:H5'	2.41	0.54
1:AA:2686:G:O2'	1:AA:2687:U:C5'	2.56	0.54
1:AA:2749:A:OP2	1:AA:2751:G:OP2	2.26	0.54
1:AA:2793:G:N2	1:AA:2794:C:C2	2.76	0.54
1:AA:7:G:C6	1:AA:2896:C:N3	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:451:C:H5	1:AA:453:C:C5'	2.19	0.54
1:AA:460:A:C8	1:AA:461:C:C5	2.96	0.54
1:AA:823:G:C3'	1:AA:824:A:H8	2.20	0.54
1:AA:941:A:C2	1:AA:942:G:N3	2.76	0.54
2:AB:37:C:O2	14:AP:95:HIS:CD2	2.61	0.54
3:AC:225:ASN:OD1	3:AC:227:HIS:HB2	2.08	0.54
3:AC:47:LEU:HA	3:AC:210:ARG:N	2.10	0.54
3:AC:52:ARG:CG	3:AC:53:ARG:HG3	2.38	0.54
3:AC:83:ILE:HD11	3:AC:95:GLY:HA2	1.88	0.54
4:AD:50:THR:O	4:AD:51:VAL:HG22	2.07	0.54
1:AA:2571:C:O2'	5:AE:146:THR:HG23	2.08	0.54
5:AE:102:VAL:HA	5:AE:202:LYS:HZ1	1.73	0.54
5:AE:59:VAL:C	5:AE:62:PRO:HD2	2.28	0.54
5:AE:92:THR:HG23	5:AE:96:PHE:N	2.22	0.54
6:AF:36:VAL:CG1	6:AF:183:VAL:HB	2.37	0.54
7:AG:18:GLU:OE1	7:AG:19:LEU:N	2.40	0.54
7:AG:47:LYS:NZ	7:AG:73:ALA:HB3	2.23	0.54
8:AH:74:ASN:ND2	8:AH:75:ALA:H	2.05	0.54
9:AK:3:THR:CG2	9:AK:4:TYR:H	2.07	0.54
9:AK:85:ILE:H	9:AK:85:ILE:HD12	1.73	0.54
10:AL:105:GLU:O	10:AL:108:GLU:N	2.41	0.54
10:AL:86:ILE:HG12	10:AL:90:GLN:O	2.07	0.54
12:AN:35:VAL:CG2	12:AN:101:ARG:O	2.53	0.54
13:AO:73:VAL:O	13:AO:76:VAL:HB	2.07	0.54
16:AR:27:LEU:C	16:AR:29:SER:N	2.62	0.54
17:AS:59:ALA:O	17:AS:60:GLU:OE2	2.26	0.54
1:AA:564:C:H5''	17:AS:80:GLN:HA	1.90	0.54
18:AT:76:VAL:CG2	18:AT:102:HIS:O	2.56	0.54
1:AA:748:G:OP1	18:AT:88:ARG:HD3	2.08	0.54
18:AT:89:ALA:O	18:AT:90:ARG:C	2.46	0.54
19:AU:31:HIS:CE1	19:AU:33:LYS:HB3	2.43	0.54
1:AA:310:A:OP1	20:AV:16:ALA:HB1	2.08	0.54
21:AW:139:VAL:HG12	21:AW:140:ASP:N	2.23	0.54
22:AX:78:TYR:CD1	22:AX:78:TYR:N	2.75	0.54
23:AY:63:ARG:HB3	23:AY:63:ARG:NH2	2.22	0.54
34:BA:1037:C:C4	34:BA:1038:C:N4	2.76	0.54
34:BA:1053:G:O6	34:BA:1199:U:H2'	2.08	0.54
34:BA:1145:C:O2'	34:BA:1146:A:C8	2.61	0.54
34:BA:1240:U:O2'	34:BA:1241:G:OP1	2.22	0.54
34:BA:1345:U:N3	34:BA:1377:A:C6	2.75	0.54
34:BA:1353:G:C4	34:BA:1370:G:N2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1373:G:H4'	40:BK:34:GLY:O	2.08	0.54
34:BA:1346:A:N6	34:BA:1375:A:OP2	2.40	0.54
34:BA:1468:A:H2'	34:BA:1469:G:H5'	1.89	0.54
34:BA:1512:U:C2	34:BA:1513:A:N7	2.76	0.54
34:BA:246:A:HO2'	34:BA:247:G:C1'	2.17	0.54
34:BA:450:G:H5''	34:BA:451:A:H3'	1.90	0.54
34:BA:49:U:N1	34:BA:364:A:N6	2.54	0.54
34:BA:519:C:C4	34:BA:520:A:N3	2.76	0.54
34:BA:553:A:C2	34:BA:554:C:C2	2.96	0.54
34:BA:597:G:C5	34:BA:644:G:C2	2.96	0.54
34:BA:635:G:C6	34:BA:636:U:C4	2.96	0.54
34:BA:647:C:O2'	34:BA:648:A:H5'	2.08	0.54
34:BA:918:A:HO2'	34:BA:919:A:P	2.29	0.54
56:BE:2:C:O2	56:BE:71:G:C1'	2.41	0.54
35:BF:82:ARG:HA	35:BF:92:TYR:OH	2.08	0.54
36:BG:151:VAL:HG13	36:BG:200:ALA:HB2	1.90	0.54
36:BG:182:ILE:HG22	36:BG:183:ASP:N	2.22	0.54
36:BG:35:GLU:O	36:BG:39:ILE:HG13	2.07	0.54
36:BG:49:SER:C	36:BG:51:GLY:H	2.11	0.54
37:BH:200:GLU:O	37:BH:201:GLN:C	2.45	0.54
38:BI:43:LEU:N	38:BI:65:ASN:ND2	2.48	0.54
38:BI:5:ASP:O	38:BI:36:ASP:HA	2.07	0.54
38:BI:76:ILE:HG23	38:BI:77:PRO:HD2	1.89	0.54
38:BI:9:LYS:HB2	38:BI:33:VAL:CB	2.32	0.54
39:BJ:80:ARG:CB	39:BJ:88:VAL:HG21	2.38	0.54
41:BL:111:ILE:HG23	41:BL:119:LEU:O	2.07	0.54
42:BM:15:ALA:HB2	42:BM:73:GLN:O	2.07	0.54
42:BM:15:ALA:HB3	42:BM:76:ALA:HB3	1.88	0.54
42:BM:9:ARG:CD	42:BM:14:VAL:HG13	2.38	0.54
43:BN:23:ILE:O	43:BN:27:ALA:HB3	2.08	0.54
45:BP:7:ILE:HG22	45:BP:8:ASN:N	2.23	0.54
45:BP:34:ARG:HA	45:BP:84:LEU:HB2	1.89	0.54
46:BQ:15:VAL:O	46:BQ:18:ALA:HB3	2.06	0.54
46:BQ:16:ASP:HB3	46:BQ:34:LEU:HD12	0.54	0.54
46:BQ:84:ILE:C	46:BQ:86:CYS:H	2.12	0.54
46:BQ:96:LEU:CB	46:BQ:97:PRO:CD	2.86	0.54
49:BT:73:LEU:C	49:BT:73:LEU:CD1	2.76	0.54
34:BA:192:U:H4'	53:BX:103:GLY:N	2.23	0.54
53:BX:83:ARG:HA	53:BX:86:ARG:CD	2.38	0.54
57:BZ:13:HIS:CD2	57:BZ:106:MET:C	2.81	0.54
57:BZ:316:SER:CB	57:BZ:317:PRO:CD	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:488:LEU:CD1	57:BZ:525:GLY:HA3	2.22	0.54
57:BZ:576:GLU:CA	57:BZ:588:ARG:O	2.55	0.54
57:BZ:61:THR:HG22	57:BZ:65:LYS:CB	2.25	0.54
57:BZ:69:ARG:NH1	57:BZ:253:LYS:HZ3	2.01	0.54
57:BZ:6:ARG:NH1	57:BZ:196:ALA:CB	2.71	0.54
56:BD:51:U:N3	56:BD:64:A:C2	2.76	0.54
57:BZ:495:LYS:H	57:BZ:538:LEU:HD11	1.73	0.54
1:AA:884:C:C1'	1:AA:885:C:C5'	2.86	0.54
1:AA:1353:A:H2'	1:AA:1354:A:O4'	2.07	0.53
1:AA:1432:C:O2'	1:AA:1433:U:H5'	2.08	0.53
1:AA:143:C:H2'	1:AA:144:C:H6	1.71	0.53
1:AA:1475:G:C2'	1:AA:1475:G:N3	2.71	0.53
1:AA:1566:A:C2	4:AD:215:LEU:CD1	2.77	0.53
1:AA:1604:C:O2'	1:AA:1605:C:C5'	2.55	0.53
1:AA:1607:C:C2'	1:AA:1607:C:O2	2.56	0.53
1:AA:1656:C:H5'	5:AE:136:ARG:NH1	2.23	0.53
1:AA:1672:C:C2'	1:AA:1673:U:H5''	2.39	0.53
1:AA:1681:G:C6	1:AA:1762:A:N7	2.76	0.53
1:AA:1691:C:N3	1:AA:1697:G:N2	2.56	0.53
1:AA:164:U:H2'	1:AA:172:C:O4'	2.08	0.53
1:AA:1759:A:OP2	1:AA:1759:A:H3'	2.08	0.53
1:AA:1772:G:H21	1:AA:1774:C:C5'	2.21	0.53
1:AA:1773:A:C6	1:AA:1829:A:C1'	2.88	0.53
1:AA:1818:U:O4	4:AD:67:PHE:CE1	2.61	0.53
1:AA:1906:G:H2'	1:AA:1907:G:H8	1.72	0.53
1:AA:1784:A:C8	1:AA:1981:A:C5	2.96	0.53
1:AA:1997:G:C2	1:AA:1998:G:C4	2.96	0.53
1:AA:2059:A:C2	1:AA:2503:A:N6	2.65	0.53
1:AA:2134:A:C6	1:AA:2135:A:H2	2.26	0.53
1:AA:2263:C:H4'	1:AA:2329:G:H4'	1.90	0.53
1:AA:237:C:C2	1:AA:238:C:C5	2.96	0.53
1:AA:957:A:C2	1:AA:2459:A:C5'	2.91	0.53
1:AA:2523:G:C1'	1:AA:2765:A:N7	2.71	0.53
1:AA:2661:G:OP1	57:BZ:14:VAL:HG11	2.07	0.53
1:AA:2766:G:C2	1:AA:2767:C:C5	2.96	0.53
1:AA:498:G:C2'	1:AA:499:U:H5'	2.38	0.53
1:AA:527:C:H2'	9:AK:114:ARG:NH1	2.23	0.53
1:AA:543:C:C2	1:AA:544:C:C5	2.95	0.53
1:AA:71:A:H2	1:AA:73:A:N1	2.06	0.53
1:AA:849:A:C4	1:AA:850:C:C6	2.95	0.53
1:AA:858:U:H3'	1:AA:859:G:N3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:945:A:C4'	1:AA:945:A:OP1	2.54	0.53
1:AA:956:G:C8	1:AA:956:G:H3'	2.44	0.53
2:AB:89:G:C8	2:AB:89(A):A:N7	2.76	0.53
3:AC:43:VAL:HG13	3:AC:213:TYR:CA	2.38	0.53
1:AA:1566:A:C5	4:AD:215:LEU:HD22	2.42	0.53
4:AD:227:ASN:C	4:AD:229:VAL:H	2.10	0.53
4:AD:253:GLN:O	4:AD:254:THR:HG23	2.07	0.53
4:AD:54:ARG:C	4:AD:219:PRO:CD	2.74	0.53
1:AA:2051:A:H1'	5:AE:141:ILE:HD11	1.88	0.53
5:AE:151:TYR:OH	5:AE:152:LYS:HG3	2.08	0.53
5:AE:51:PHE:HD1	5:AE:76:ARG:HG2	1.73	0.53
1:AA:247:G:H1	5:AE:8:LYS:HD2	120.54	0.53
7:AG:99:MET:O	7:AG:102:PHE:CB	2.57	0.53
31:AI:38:HIS:O	31:AI:42:GLN:CB	2.56	0.53
32:AJ:17:ALA:CB	32:AJ:41:PHE:CA	2.86	0.53
12:AN:99:PRO:CG	12:AN:101:ARG:NE	2.69	0.53
14:AP:74:ALA:CB	14:AP:108:GLY:HA3	2.35	0.53
14:AP:57:LYS:NZ	14:AP:65:VAL:CA	2.67	0.53
14:AP:28:VAL:CG1	14:AP:90:GLY:HA2	2.39	0.53
15:AQ:38:ASN:C	15:AQ:39:ARG:HG2	2.28	0.53
16:AR:112:ARG:NH1	17:AS:50:PRO:CG	2.54	0.53
16:AR:88:ILE:HB	17:AS:52:VAL:CA	2.38	0.53
17:AS:3:ALA:CB	17:AS:44:LYS:NZ	2.70	0.53
16:AR:47:TYR:OH	17:AS:77:ALA:CA	2.57	0.53
18:AT:25:ARG:O	18:AT:26:GLY:C	2.45	0.53
18:AT:42:ARG:HG3	18:AT:43:GLY:H	1.70	0.53
18:AT:74:ALA:HB2	18:AT:106:ILE:H	1.74	0.53
23:AY:30:LEU:HD11	23:AY:48:LEU:CD2	2.39	0.53
23:AY:54:ARG:HH21	23:AY:54:ARG:CG	2.19	0.53
34:BA:1134:G:C6	34:BA:1135:U:C1'	2.90	0.53
34:BA:1133:G:C6	34:BA:1134:G:N7	2.77	0.53
34:BA:1057:G:C5	34:BA:1204:A:C2	2.96	0.53
34:BA:960:U:N3	34:BA:1225:A:C5	2.75	0.53
34:BA:1342:C:H2'	34:BA:1343:G:H8	1.73	0.53
34:BA:1350:A:P	42:BM:118:LYS:HG3	2.48	0.53
34:BA:145:G:N1	34:BA:178:C:C4	2.76	0.53
34:BA:1490:C:OP2	58:BA:1601:NMY:N19	2.41	0.53
34:BA:265:G:C4	34:BA:267:C:C6	2.96	0.53
34:BA:321:A:H2'	34:BA:322:C:C6	2.43	0.53
34:BA:559:A:C8	34:BA:561:U:C5	2.96	0.53
34:BA:607:A:C4	34:BA:608:A:C8	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:622:A:H2'	34:BA:623:C:C5'	2.37	0.53
34:BA:628:G:H2'	34:BA:629:G:O4'	2.08	0.53
34:BA:855:G:O5'	34:BA:871:U:O4	2.25	0.53
34:BA:876:G:H1'	41:BL:11:THR:HG21	1.90	0.53
34:BA:991:U:O2'	34:BA:993:G:H8	1.91	0.53
35:BF:124:SER:HB3	35:BF:126:GLU:CD	2.28	0.53
35:BF:102:LEU:CB	35:BF:176:GLU:OE1	2.52	0.53
35:BF:80:ILE:HD13	35:BF:211:ILE:HG21	1.90	0.53
35:BF:69:LEU:HD22	35:BF:92:TYR:N	2.22	0.53
35:BF:84:GLU:OE1	35:BF:233:SER:OG	2.23	0.53
36:BG:140:ARG:CZ	36:BG:140:ARG:HB3	2.38	0.53
36:BG:142:MET:HB3	36:BG:149:ALA:HB2	1.90	0.53
36:BG:40:ARG:HG3	36:BG:40:ARG:NH1	2.21	0.53
36:BG:66:VAL:O	36:BG:66:VAL:HG12	2.08	0.53
34:BA:509:A:OP1	37:BH:52:SER:HB3	2.08	0.53
37:BH:79:PHE:O	37:BH:80:GLU:C	2.45	0.53
38:BI:141:GLN:OE1	38:BI:141:GLN:CA	2.55	0.53
38:BI:44:GLY:HA3	38:BI:61:TYR:HB2	1.90	0.53
39:BJ:19:LEU:HG	39:BJ:23:LYS:HD3	1.89	0.53
39:BJ:20:ALA:O	39:BJ:24:GLU:HG3	2.08	0.53
39:BJ:46:ARG:NH2	51:BV:37:VAL:CG2	2.68	0.53
39:BJ:79:LEU:O	39:BJ:85:VAL:HG21	2.07	0.53
40:BK:107:ALA:CB	40:BK:123:GLU:OE1	2.56	0.53
40:BK:75:VAL:HA	40:BK:89:MET:HE3	1.90	0.53
41:BL:10:LEU:CA	41:BL:13:ILE:HD12	2.37	0.53
41:BL:126:LYS:HZ1	41:BL:127:LEU:HB2	1.73	0.53
41:BL:18:ARG:H	41:BL:18:ARG:CD	2.21	0.53
42:BM:67:GLY:C	42:BM:73:GLN:HE21	2.11	0.53
43:BN:89:ASP:C	43:BN:90:LEU:HG	2.28	0.53
44:BO:91:ARG:HD2	44:BO:95:ILE:HD11	1.90	0.53
34:BA:36:C:O3'	45:BP:123:LYS:HA	2.09	0.53
46:BQ:105:THR:O	46:BQ:106:ASN:HB2	2.08	0.53
34:BA:1228:C:OP1	46:BQ:108:ARG:NH2	2.41	0.53
46:BQ:65:LYS:CA	46:BQ:66:LEU:CB	2.86	0.53
47:BR:27:CYS:N	47:BR:43:CYS:HB3	2.23	0.53
47:BR:42:ILE:HG13	47:BR:43:CYS:H	1.72	0.53
48:BS:26:GLU:CA	48:BS:26:GLU:OE2	2.56	0.53
48:BS:35:ARG:HB3	48:BS:35:ARG:CZ	2.37	0.53
49:BT:75:ARG:CG	49:BT:80:PHE:CB	2.81	0.53
57:BZ:29:SER:OG	57:BZ:58:ALA:CB	2.55	0.53
55:BC:34:G:C3'	55:BC:35:A:C5'	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BC:38:A:N1	55:BC:39:U:C5	2.76	0.53
14:AP:59:LYS:HE2	14:AP:59:LYS:H	1.73	0.53
37:BH:159:ARG:HH11	37:BH:159:ARG:HG2	1.73	0.53
1:AA:1007:C:H2'	1:AA:1008:C:H5	1.70	0.53
1:AA:1031:G:N1	1:AA:1032:A:C6	2.75	0.53
1:AA:1058:G:C2	1:AA:1059:G:N7	2.76	0.53
1:AA:1076:C:H2'	1:AA:1077:A:O4'	2.08	0.53
1:AA:1291:C:H2'	1:AA:1292:U:O4'	2.09	0.53
1:AA:1314:C:N3	1:AA:1315:C:C5	2.76	0.53
1:AA:1427:A:O2'	1:AA:1428:C:OP2	2.27	0.53
1:AA:1534:G:N2	1:AA:1538:G:C8	2.77	0.53
1:AA:1608:A:C4'	1:AA:1609:A:OP1	2.56	0.53
1:AA:1693:U:O2	1:AA:1693:U:C2'	2.56	0.53
1:AA:1779:U:C6	1:AA:1779:U:C3'	2.91	0.53
1:AA:1789:A:C8	1:AA:1790:C:C5	2.97	0.53
1:AA:1803:A:C8	1:AA:1803:A:OP2	2.60	0.53
1:AA:1839:G:C8	1:AA:1927:A:H5'	2.43	0.53
1:AA:184:C:H2'	1:AA:185:U:C5	2.41	0.53
1:AA:1856:G:C2'	1:AA:1857:G:H5'	2.33	0.53
1:AA:1909:C:H2'	1:AA:1910:G:C8	2.42	0.53
1:AA:1952:A:C5	1:AA:1953:A:N1	2.76	0.53
1:AA:1965:C:C5'	1:AA:1966:A:H3'	2.39	0.53
1:AA:1660:C:C4	1:AA:2001:A:N6	2.76	0.53
1:AA:2118:U:OP1	1:AA:2147:G:N1	2.40	0.53
1:AA:2273:A:C8	1:AA:2274:A:O4'	2.62	0.53
1:AA:2311:A:C2	7:AG:45:GLU:CD	2.82	0.53
1:AA:2350:C:HO2'	1:AA:2351:G:P	2.31	0.53
1:AA:2690:C:C2'	1:AA:2691:C:OP2	2.56	0.53
1:AA:269:U:N3	1:AA:424:G:C6	2.76	0.53
1:AA:2704:C:H2'	1:AA:2705:A:N9	2.23	0.53
1:AA:2720:U:C3'	1:AA:2721:A:H8	2.21	0.53
1:AA:278:A:H2'	1:AA:279:C:C2	2.44	0.53
1:AA:280:C:H41	1:AA:283:A:N6	2.01	0.53
1:AA:2849:U:C2'	1:AA:2850:A:OP2	2.57	0.53
1:AA:318:C:O2'	1:AA:319:C:H5'	2.08	0.53
1:AA:37:C:HO2'	6:AF:50:SER:CB	2.20	0.53
1:AA:412:A:H2'	1:AA:413:C:C5'	2.38	0.53
1:AA:269:U:N3	1:AA:424:G:N1	2.56	0.53
1:AA:265:A:C6	1:AA:428:A:N7	2.76	0.53
1:AA:514:A:H2'	1:AA:515:A:H5'	1.91	0.53
2:AB:59:A:C5	2:AB:60:C:C6	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:85:G:N3	2:AB:86:G:C8	2.76	0.53
3:AC:126:LYS:O	3:AC:130:ILE:HD13	2.07	0.53
4:AD:199:ALA:O	4:AD:202:LYS:N	2.40	0.53
4:AD:234:GLY:CA	4:AD:241:PRO:HG3	2.38	0.53
4:AD:5:LYS:HD3	4:AD:31:LYS:NZ	2.23	0.53
4:AD:45:ASN:O	4:AD:46:GLN:HG3	2.08	0.53
5:AE:185:LYS:O	5:AE:185:LYS:HD3	2.09	0.53
5:AE:47:VAL:CA	5:AE:48:GLN:NE2	2.71	0.53
5:AE:51:PHE:HE1	5:AE:76:ARG:N	2.06	0.53
6:AF:156:LEU:O	6:AF:176:LEU:O	2.26	0.53
7:AG:26:GLN:O	7:AG:27:ASN:HB2	2.09	0.53
7:AG:26:GLN:HE22	7:AG:31:VAL:HG22	1.74	0.53
8:AH:122:THR:O	8:AH:133:VAL:CG2	2.56	0.53
8:AH:148:ILE:HG23	8:AH:162:ILE:HD13	1.89	0.53
8:AH:149:ARG:CA	8:AH:162:ILE:HD13	2.37	0.53
8:AH:73:ALA:O	8:AH:76:VAL:CG2	2.47	0.53
8:AH:85:LYS:NZ	8:AH:142:GLY:CA	2.72	0.53
8:AH:94:TYR:HE2	8:AH:96:ALA:CB	2.19	0.53
32:AJ:34:ILE:HD13	32:AJ:35:MET:O	2.07	0.53
32:AJ:47:ASN:C	32:AJ:48:MET:HG3	2.27	0.53
1:AA:2675:A:C4'	10:AL:29:ASN:OD1	2.47	0.53
10:AL:77:ILE:HG12	15:AQ:75:ILE:HD11	1.91	0.53
10:AL:6:THR:CA	10:AL:7:TYR:HD1	2.21	0.53
11:AM:48:PRO:O	11:AM:51:PHE:HB2	2.08	0.53
12:AN:6:ARG:CG	12:AN:70:PRO:HB3	2.38	0.53
12:AN:42:ILE:O	12:AN:94:VAL:CG2	2.57	0.53
14:AP:28:VAL:HB	14:AP:101:LEU:HG	1.90	0.53
15:AQ:48:ILE:HG12	15:AQ:49:VAL:N	2.22	0.53
15:AQ:28:VAL:HG13	15:AQ:92:GLY:N	2.24	0.53
16:AR:113:ALA:HA	16:AR:116:ALA:HB2	1.90	0.53
17:AS:14:VAL:CG1	17:AS:19:LYS:HE2	2.38	0.53
17:AS:33:VAL:O	17:AS:63:GLY:HA2	2.08	0.53
16:AR:50:ARG:NE	17:AS:75:PHE:HE2	2.02	0.53
19:AU:30:VAL:HG23	19:AU:77:LYS:HD3	1.89	0.53
20:AV:14:LEU:HB2	20:AV:20:TYR:H	1.72	0.53
20:AV:37:VAL:HG13	20:AV:39:VAL:HG23	1.89	0.53
21:AW:153:SER:N	21:AW:168:GLU:HB2	2.24	0.53
21:AW:20:ARG:HG3	21:AW:20:ARG:HH11	1.74	0.53
22:AX:37:LEU:HD21	22:AX:60:PHE:C	2.28	0.53
22:AX:72:ARG:HD3	22:AX:75:LEU:HD22	1.89	0.53
34:BA:1003:G:OP2	34:BA:1004:A:N3	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1036:G:N7	34:BA:1037:C:C5	2.76	0.53
34:BA:1039:C:C4	34:BA:1040:U:C5	2.96	0.53
34:BA:1106:G:C2	34:BA:1107:C:C2	2.96	0.53
34:BA:114:U:H2'	34:BA:115:G:H8	1.68	0.53
34:BA:1256:A:N6	34:BA:1278:U:O2'	2.42	0.53
34:BA:1284:C:N3	34:BA:1285:A:N6	2.56	0.53
34:BA:1365:G:C6	34:BA:1366:C:C4	2.95	0.53
34:BA:1392:G:H2'	34:BA:1393:U:H6	1.73	0.53
34:BA:1464:G:C2	34:BA:1465:C:N3	2.76	0.53
34:BA:20:U:O4'	34:BA:572:A:N1	2.40	0.53
34:BA:294:U:O2	34:BA:295:C:C5	2.61	0.53
34:BA:328:C:H3'	34:BA:328:C:O2	2.08	0.53
34:BA:429:U:H1'	34:BA:430:A:H5''	1.90	0.53
34:BA:51:A:C2'	34:BA:52:G:OP2	2.56	0.53
34:BA:591:U:H2'	34:BA:592:G:H8	1.71	0.53
34:BA:754:C:O2	34:BA:755:G:H5'	2.08	0.53
34:BA:891:U:C5	34:BA:906:G:C2	2.95	0.53
56:BE:5:G:O6	56:BE:67:C:O2	2.24	0.53
35:BF:208:ILE:HD12	35:BF:239:VAL:HG11	1.91	0.53
35:BF:75:LYS:CA	35:BF:75:LYS:NZ	2.69	0.53
35:BF:80:ILE:HD13	35:BF:212:GLN:HE21	1.73	0.53
35:BF:79:ASP:O	35:BF:83:MET:HG2	2.08	0.53
35:BF:82:ARG:HB2	35:BF:94:ASN:HD22	1.68	0.53
36:BG:126:ARG:O	36:BG:127:ARG:CB	2.56	0.53
36:BG:43:LEU:HD11	36:BG:55:VAL:HG11	1.89	0.53
39:BJ:64:GLN:C	39:BJ:65:VAL:HG12	2.27	0.53
39:BJ:79:LEU:C	39:BJ:81:ILE:N	2.60	0.53
40:BK:108:ALA:HA	40:BK:111:ARG:HG3	1.90	0.53
40:BK:12:LEU:HD22	40:BK:24:THR:CG2	2.38	0.53
40:BK:49:ILE:HD12	40:BK:49:ILE:H	1.72	0.53
40:BK:78:ARG:HE	40:BK:80:VAL:CG2	2.21	0.53
40:BK:86:GLN:HB2	40:BK:148:ASN:CG	2.28	0.53
41:BL:69:ARG:NH2	41:BL:75:ARG:O	2.41	0.53
41:BL:70:GLN:HE21	41:BL:70:GLN:HA	1.72	0.53
41:BL:7:ALA:O	41:BL:8:ASP:C	2.46	0.53
43:BN:60:ARG:NH1	43:BN:60:ARG:HB2	2.23	0.53
46:BQ:92:HIS:HA	46:BQ:110:ARG:NH2	2.23	0.53
48:BS:79:ARG:HA	48:BS:82:ILE:CG1	2.38	0.53
49:BT:12:LYS:O	49:BT:13:HIS:HB2	2.08	0.53
50:BU:10:VAL:HB	50:BU:54:GLY:C	2.29	0.53
50:BU:88:TYR:HA	50:BU:91:ARG:NH2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:3:ARG:HH21	52:BW:3:ARG:HG2	1.73	0.53
53:BX:21:LYS:HA	53:BX:24:LEU:CD1	2.36	0.53
57:BZ:240:ILE:N	57:BZ:286:ASP:CB	2.60	0.53
57:BZ:81:PHE:CA	57:BZ:365:HIS:HD2	2.07	0.53
57:BZ:4:LYS:C	57:BZ:68:TYR:CD1	2.78	0.53
57:BZ:8:ILE:HD11	57:BZ:96:LEU:HD11	1.88	0.53
57:BZ:502:PHE:CZ	57:BZ:555:VAL:CB	2.75	0.53
55:BC:38:A:H3'	55:BC:39:U:C5'	2.29	0.53
55:BC:41:C:H2'	55:BC:41:C:O2	2.08	0.53
57:BZ:320:GLY:N	57:BZ:321:LYS:HA	2.23	0.53
34:BA:998(A):C:O2	34:BA:998(A):C:H2'	2.08	0.53
46:BQ:46:LYS:O	46:BQ:47:ASP:HB2	2.09	0.53
1:AA:112:U:OP2	1:AA:112:U:C6	2.60	0.53
1:AA:1223:C:N1	1:AA:1227:A:N1	2.57	0.53
1:AA:1406:U:C2'	1:AA:1407:C:O5'	2.56	0.53
1:AA:1422:G:C2	1:AA:1423:G:C8	2.96	0.53
1:AA:1543:A:N7	1:AA:1544:C:H1'	2.23	0.53
1:AA:1566:A:C2'	1:AA:1567:A:H5'	2.35	0.53
1:AA:1689:A:C5	1:AA:1700:A:C5	2.96	0.53
1:AA:1764:G:C6	1:AA:1989:G:C2	2.96	0.53
1:AA:1813:G:H5''	1:AA:1814:G:OP2	2.09	0.53
1:AA:1819:A:O2'	1:AA:1820:U:C5'	2.55	0.53
1:AA:2045:C:O2'	1:AA:2046:G:H5'	2.08	0.53
1:AA:2095:C:H2'	1:AA:2096:U:O4'	2.08	0.53
1:AA:2166:G:C2	1:AA:2172:U:O4	2.61	0.53
1:AA:2114:A:N6	1:AA:2170:A:H61	2.06	0.53
1:AA:2206:C:C2	1:AA:2207:C:C6	2.97	0.53
1:AA:2092:U:H5	1:AA:2227:A:C6	2.26	0.53
1:AA:228:A:H2'	1:AA:229:A:C5'	2.32	0.53
1:AA:2459:A:C6	1:AA:2493:U:O4	2.61	0.53
1:AA:2496:C:C6	1:AA:2497:A:H2	2.26	0.53
1:AA:2508:G:H5'	56:BD:75:C:H42	1.74	0.53
1:AA:2596:U:H2'	4:AD:242:ARG:NH2	2.16	0.53
1:AA:270(L):U:OP2	1:AA:270(L):U:C6	2.61	0.53
1:AA:2720:U:O2	1:AA:2720:U:C2'	2.53	0.53
1:AA:2834:G:H3'	1:AA:2834:G:C8	2.42	0.53
1:AA:6:A:N3	1:AA:2898:U:H1'	2.23	0.53
1:AA:291:C:N4	1:AA:292:C:N4	2.56	0.53
1:AA:510:C:P	1:AA:512:G:N1	2.74	0.53
1:AA:531:C:O4'	1:AA:532:A:N3	2.41	0.53
1:AA:616:A:C4'	1:AA:617:G:OP1	2.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:834:C:O5'	1:AA:834:C:H6	1.91	0.53
2:AB:72:G:H5''	2:AB:73:A:OP1	2.09	0.53
3:AC:29:VAL:CG1	3:AC:30:LYS:N	2.71	0.53
4:AD:134:ARG:CA	4:AD:168:ARG:HH22	2.21	0.53
4:AD:133:LEU:HD12	4:AD:187:GLY:CA	2.39	0.53
4:AD:225:ALA:O	4:AD:226:MET:C	2.45	0.53
4:AD:244:ARG:HB3	4:AD:252:TRP:CD1	2.44	0.53
4:AD:95:LEU:CD1	4:AD:95:LEU:C	2.77	0.53
5:AE:26:ILE:HG13	5:AE:181:LEU:HD23	1.91	0.53
1:AA:2787:C:O2'	5:AE:61:ARG:NH2	2.42	0.53
6:AF:46:ARG:NH2	6:AF:46:ARG:HG2	2.23	0.53
6:AF:74:ARG:HH12	6:AF:76:GLY:H	1.55	0.53
8:AH:98:LEU:HD21	8:AH:123:PHE:HD2	1.73	0.53
32:AJ:81:ALA:O	32:AJ:107:ILE:HD11	2.09	0.53
32:AJ:74:ALA:HB1	32:AJ:126:MET:CE	2.34	0.53
32:AJ:72:PRO:CA	32:AJ:77:LEU:HD23	2.26	0.53
9:AK:99:LEU:HD12	9:AK:103:VAL:HG11	1.91	0.53
11:AM:112:LEU:C	11:AM:129:ALA:HB3	2.28	0.53
11:AM:111:ARG:HD2	11:AM:129:ALA:HB2	1.89	0.53
11:AM:36:LYS:HZ2	11:AM:42:SER:CB	2.20	0.53
11:AM:92:GLU:O	11:AM:93:GLY:C	2.47	0.53
12:AN:106:VAL:O	12:AN:107:ALA:CB	2.56	0.53
1:AA:2466:C:HO2'	12:AN:123:HIS:HE2	1.54	0.53
13:AO:53:HIS:HA	13:AO:56:LYS:CD	2.38	0.53
13:AO:69:ASP:C	13:AO:70:LEU:HD23	2.29	0.53
14:AP:62:LYS:O	14:AP:65:VAL:HG13	2.07	0.53
15:AQ:105:LEU:HG	15:AQ:106:SER:N	2.23	0.53
15:AQ:33:LYS:HG3	15:AQ:45:PHE:CE2	2.43	0.53
1:AA:531:C:O2	16:AR:28:ARG:CZ	2.57	0.53
9:AK:4:TYR:HB3	16:AR:64:ARG:HH22	1.73	0.53
17:AS:88:ARG:HG2	17:AS:89:GLN:N	2.22	0.53
18:AT:5:ALA:O	18:AT:105:VAL:HG13	2.08	0.53
18:AT:6:ILE:HG12	18:AT:104:THR:CA	2.29	0.53
18:AT:8:ARG:O	18:AT:10:VAL:HG22	2.08	0.53
19:AU:32:PRO:O	19:AU:33:LYS:CB	2.57	0.53
21:AW:163:LEU:H	21:AW:163:LEU:HD12	1.73	0.53
21:AW:25:PRO:CG	21:AW:84:GLU:O	2.56	0.53
21:AW:98:MET:HG3	21:AW:133:ILE:CG2	2.24	0.53
22:AX:44:ARG:O	22:AX:77:ARG:CB	2.53	0.53
23:AY:27:LEU:HD12	23:AY:27:LEU:N	2.24	0.53
23:AY:20:VAL:HG23	23:AY:55:LEU:CD2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1055:A:N7	34:BA:1206:G:C2	2.76	0.53
34:BA:1059:C:O2'	43:BN:53:PRO:CD	2.56	0.53
34:BA:1155:G:H22	34:BA:1179:A:N6	2.04	0.53
34:BA:1158:C:H1'	35:BF:133:LYS:HE3	1.89	0.53
34:BA:1064:G:N2	34:BA:1192:C:N3	2.56	0.53
34:BA:120:A:C8	34:BA:122:G:C6	2.97	0.53
34:BA:1338:G:O2'	56:BE:42:C:H4'	2.07	0.53
10:AL:49:ARG:CZ	34:BA:1423:G:OP1	2.56	0.53
34:BA:1431:C:N3	34:BA:1469:G:N1	2.55	0.53
34:BA:1440:C:O2	34:BA:1462:G:C2	2.61	0.53
34:BA:300:A:C2'	34:BA:301:G:H5'	2.38	0.53
34:BA:735:C:C4'	51:BV:75:ILE:HD11	2.38	0.53
34:BA:818:G:C2'	34:BA:819:A:OP1	2.56	0.53
34:BA:822:C:C2	34:BA:823:G:C8	2.96	0.53
35:BF:105:PHE:C	35:BF:107:THR:N	2.62	0.53
35:BF:72:GLY:O	35:BF:73:THR:C	2.47	0.53
37:BH:135:LEU:C	37:BH:137:SER:N	2.55	0.53
37:BH:146:ILE:CD1	37:BH:146:ILE:O	2.56	0.53
38:BI:106:PRO:HG3	38:BI:122:GLU:OE2	2.07	0.53
38:BI:60:TYR:HD1	38:BI:64:ARG:HD2	1.73	0.53
40:BK:73:MET:HE2	40:BK:146:GLU:HB2	1.88	0.53
40:BK:21:VAL:HG23	40:BK:22:LEU:CD2	2.38	0.53
43:BN:82:ILE:O	43:BN:86:MET:CB	2.56	0.53
44:BO:63:LEU:O	44:BO:66:LEU:CB	2.57	0.53
44:BO:71:LYS:O	44:BO:74:ALA:N	2.41	0.53
49:BT:76:GLN:O	49:BT:77:ALA:C	2.46	0.53
51:BV:29:PHE:CE1	51:BV:36:ASN:OD1	2.62	0.53
52:BW:9:VAL:CA	52:BW:41:VAL:HG23	2.37	0.53
52:BW:3:ARG:NH2	52:BW:45:VAL:HG22	1.89	0.53
53:BX:87:LYS:O	53:BX:91:LEU:HG	2.08	0.53
57:BZ:220:VAL:HG11	57:BZ:279:LEU:HB3	1.84	0.53
57:BZ:363:GLU:OE2	57:BZ:453:SER:OG	2.25	0.53
57:BZ:545:ASN:CB	57:BZ:546:MET:HE2	2.39	0.53
57:BZ:565:LEU:H	57:BZ:566:GLU:CG	2.08	0.53
56:BD:62:C:H2'	56:BD:62:C:O2	2.08	0.53
1:AA:1508:A:C5'	1:AA:1510:A:C5	2.90	0.53
9:AK:133:GLN:CD	9:AK:133:GLN:N	2.60	0.53
45:BP:18:VAL:O	45:BP:19:ARG:CB	2.55	0.53
1:AA:1021:A:H2	1:AA:1122:G:H4'	1.73	0.53
1:AA:1248:G:H4'	1:AA:1249:U:OP1	2.07	0.53
1:AA:809:G:O2'	1:AA:1254:A:N3	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1591:G:H2'	1:AA:1592:C:H6	1.73	0.53
1:AA:161:U:N3	1:AA:164:U:N3	2.54	0.53
1:AA:1753:G:C8	1:AA:1753:G:H3'	2.43	0.53
1:AA:1764:G:H2'	1:AA:1765:C:O5'	2.08	0.53
1:AA:1818:U:OP1	4:AD:158:ALA:HA	2.08	0.53
1:AA:1909:C:H2'	1:AA:1910:G:H8	1.74	0.53
1:AA:1972:A:H2'	1:AA:1973:G:C8	2.44	0.53
1:AA:2097:C:C2'	1:AA:2098:U:C5'	2.86	0.53
1:AA:2230:G:N2	1:AA:2231:C:C2	2.77	0.53
1:AA:2269:A:O2'	1:AA:2270:G:H5'	2.08	0.53
1:AA:2278:A:C6	1:AA:2279:G:N7	2.77	0.53
1:AA:2306:C:C5	1:AA:2311:A:N1	2.76	0.53
1:AA:2618:G:N3	1:AA:2619:C:C6	2.77	0.53
1:AA:2637:U:H3	1:AA:2782:G:N2	2.07	0.53
1:AA:2677:G:C2'	1:AA:2678:C:H5'	2.38	0.53
1:AA:2734:A:N7	1:AA:2735:G:C4	2.76	0.53
1:AA:2771:C:C2	1:AA:2772:C:C5	2.97	0.53
1:AA:2781:A:H2'	1:AA:2782:G:H4'	1.89	0.53
1:AA:2868:A:C4	1:AA:2869:G:C8	2.97	0.53
1:AA:322:A:O4'	1:AA:341:G:H5'	2.08	0.53
1:AA:454:A:H3'	1:AA:454:A:H8	1.74	0.53
1:AA:460:A:H3'	1:AA:461:C:H6	1.69	0.53
1:AA:482:A:C2'	1:AA:482:A:N3	2.64	0.53
1:AA:48:G:H4'	1:AA:52:A:O4'	2.09	0.53
1:AA:504:U:H5'	1:AA:506:G:OP1	2.09	0.53
1:AA:601:C:C4'	6:AF:104:LYS:HZ1	2.21	0.53
1:AA:873:G:C6	1:AA:874:G:N7	2.77	0.53
1:AA:903:C:C6	1:AA:903:C:P	3.01	0.53
2:AB:15:A:H5'	2:AB:16:G:O5'	2.08	0.53
2:AB:56:G:H4'	2:AB:57:A:H5''	1.89	0.53
2:AB:65:C:C2	2:AB:108:C:N4	2.77	0.53
3:AC:89:ALA:HB2	3:AC:154:ARG:HH11	1.72	0.53
3:AC:48:GLY:N	3:AC:208:PHE:O	2.36	0.53
3:AC:67:GLY:CA	3:AC:184:LYS:HZ2	2.19	0.53
4:AD:65:ILE:HD12	4:AD:104:TYR:CB	2.38	0.53
4:AD:57:GLY:O	4:AD:217:ARG:HB2	2.08	0.53
5:AE:27:LEU:O	5:AE:27:LEU:HG	2.08	0.53
5:AE:2:LYS:HZ2	5:AE:83:ASP:HB2	1.66	0.53
1:AA:600:G:H1'	6:AF:105:VAL:HG21	1.91	0.53
6:AF:158:THR:HG22	6:AF:160:ASN:H	1.74	0.53
1:AA:586:A:OP1	6:AF:89:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:120:LEU:HA	7:AG:181:ARG:HG2	1.89	0.53
7:AG:59:GLU:HB3	7:AG:152:LEU:HD13	1.89	0.53
7:AG:50:ALA:CA	7:AG:70:VAL:HG13	2.38	0.53
7:AG:77:ILE:HB	7:AG:83:ARG:HH11	1.73	0.53
7:AG:85:GLY:O	7:AG:86:MET:HB2	2.09	0.53
8:AH:103:LEU:O	8:AH:104:GLU:O	2.26	0.53
8:AH:35:VAL:HG12	8:AH:71:LEU:CD2	2.38	0.53
9:AK:13:TRP:HB2	9:AK:136:GLU:CD	2.28	0.53
10:AL:10:VAL:CG1	10:AL:11:ALA:H	1.88	0.53
10:AL:121:VAL:O	10:AL:122:LEU:CB	2.56	0.53
10:AL:89:ASN:ND2	10:AL:91:LEU:CB	2.66	0.53
11:AM:105:LEU:O	11:AM:106:LEU:CG	2.53	0.53
11:AM:8:PRO:O	11:AM:9:ASN:O	2.27	0.53
12:AN:77:LYS:O	12:AN:78:PRO:O	2.26	0.53
13:AO:65:LEU:O	13:AO:68:ARG:HB3	2.08	0.53
15:AQ:17:THR:HG21	15:AQ:20:PRO:HA	1.90	0.53
17:AS:40:LEU:HB3	17:AS:51:VAL:HG13	1.91	0.53
16:AR:89:GLU:N	17:AS:52:VAL:HA	2.23	0.53
18:AT:33:ARG:CA	18:AT:33:ARG:NE	2.68	0.53
18:AT:36:LEU:CD2	18:AT:51:LEU:HD11	2.39	0.53
18:AT:90:ARG:HH21	18:AT:90:ARG:CA	2.20	0.53
19:AU:49:VAL:HG12	19:AU:88:LYS:HB2	1.90	0.53
21:AW:157:LEU:HD22	21:AW:161:VAL:HG22	1.90	0.53
21:AW:39:VAL:CG1	21:AW:41:LEU:HD23	2.38	0.53
22:AX:59:LEU:HD21	22:AX:79:VAL:HG21	1.90	0.53
23:AY:21:ARG:O	23:AY:24:LYS:HB2	2.08	0.53
23:AY:59:LEU:HD11	23:AY:63:ARG:HE	1.74	0.53
24:AZ:19:GLN:HE22	24:AZ:50:VAL:HA	1.73	0.53
34:BA:1085:U:H5''	34:BA:1086:U:C5	2.43	0.53
34:BA:1068:G:O6	34:BA:1108:G:C2	2.61	0.53
34:BA:1193:G:C8	34:BA:1193:G:H3'	2.42	0.53
34:BA:1202:G:H21	34:BA:1203:C:H1'	1.70	0.53
34:BA:1506:U:H4'	34:BA:1507:A:OP2	2.08	0.53
34:BA:581:G:C2'	34:BA:582:U:OP2	2.57	0.53
34:BA:738:C:N4	34:BA:739:C:N4	2.56	0.53
34:BA:748:C:O2'	34:BA:749:C:C6	2.54	0.53
34:BA:763:G:H2'	34:BA:764:C:O5'	2.07	0.53
34:BA:765:G:H8	34:BA:765:G:O5'	1.92	0.53
34:BA:769:G:C5'	34:BA:1513:A:H4'	2.37	0.53
34:BA:979:C:H2'	34:BA:980:C:C5'	2.38	0.53
35:BF:99:GLY:HA3	35:BF:101:MET:SD	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:70:PHE:CA	35:BF:163:PHE:O	2.57	0.53
34:BA:1112:C:C2	36:BG:179:ARG:NH2	2.71	0.53
36:BG:24:ALA:CB	36:BG:32:LEU:HD12	2.38	0.53
36:BG:37:GLN:O	36:BG:38:ARG:C	2.47	0.53
34:BA:1191:A:P	36:BG:4:LYS:NZ	2.81	0.53
37:BH:30:LYS:HG2	37:BH:35:ARG:CG	2.38	0.53
38:BI:80:ILE:HG22	41:BL:104:ARG:NH2	2.24	0.53
39:BJ:12:PRO:HG2	39:BJ:13:ASN:H	1.74	0.53
41:BL:109:ILE:O	41:BL:109:ILE:CG1	2.56	0.53
42:BM:70:LYS:CD	42:BM:70:LYS:H	2.20	0.53
46:BQ:16:ASP:OD1	46:BQ:34:LEU:HD13	2.07	0.53
46:BQ:70:LEU:CD1	46:BQ:74:VAL:HG21	2.39	0.53
49:BT:59:TRP:O	49:BT:60:LEU:C	2.47	0.53
50:BU:6:LEU:CD1	50:BU:6:LEU:C	2.76	0.53
51:BV:37:VAL:CG1	51:BV:41:LYS:NZ	2.70	0.53
39:BJ:47:ARG:O	51:BV:78:LEU:HD22	2.09	0.53
51:BV:87:ARG:O	51:BV:88:LYS:OXT	2.26	0.53
53:BX:72:LEU:HD13	53:BX:77:ALA:CA	2.38	0.53
57:BZ:171:ILE:CA	57:BZ:179:MET:HG3	2.37	0.53
57:BZ:288:VAL:HG12	57:BZ:289:CYS:N	2.23	0.53
57:BZ:50:LYS:NZ	57:BZ:368:VAL:HG22	2.22	0.53
57:BZ:309:MET:C	57:BZ:383:SER:OG	2.46	0.53
57:BZ:392:ILE:O	57:BZ:394:GLY:HA3	2.09	0.53
57:BZ:398:GLU:CD	57:BZ:444:PRO:HB3	2.27	0.53
57:BZ:407:VAL:C	57:BZ:436:ARG:HA	2.29	0.53
57:BZ:59:LYS:HB2	57:BZ:66:TRP:HH2	1.72	0.53
45:BP:80:HIS:O	57:BZ:328:SER:N	2.41	0.53
56:BD:7:A:O2'	56:BD:49:C:H6	1.92	0.53
55:BC:41:C:H2'	55:BC:42:C:H5'	1.91	0.53
1:AA:1038:C:C5'	1:AA:1039:G:OP1	2.56	0.53
55:BC:2:C:C2'	55:BC:3:C:H5'	2.38	0.53
1:AA:1562:A:O2'	1:AA:1563:G:H5'	2.07	0.53
1:AA:1036:G:N1	1:AA:1120:G:C5	2.74	0.53
1:AA:1122:G:C2	1:AA:1123:C:C6	2.96	0.53
1:AA:1142(A):A:N3	1:AA:1143:A:H5''	2.24	0.53
1:AA:1249:U:O4	11:AM:21:ARG:NH2	2.42	0.53
1:AA:1334:G:C4	1:AA:1335:U:C5	2.95	0.53
1:AA:140:A:N3	1:AA:1408:C:H1'	2.22	0.53
1:AA:1433:U:O2	1:AA:1561:G:N2	2.42	0.53
1:AA:1450:C:H2'	1:AA:1451:C:OP2	2.07	0.53
1:AA:1492:G:N3	1:AA:1493:C:C4	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1521:G:H3'	1:AA:1522:G:H5'	1.90	0.53
1:AA:1637:A:C6	1:AA:1638:C:N4	2.76	0.53
1:AA:1660:C:O2'	1:AA:1661:G:H5'	2.09	0.53
1:AA:1787:A:H8	1:AA:1787:A:O5'	1.91	0.53
1:AA:1818:U:O2	1:AA:1818:U:C2'	2.55	0.53
1:AA:1842:G:N3	1:AA:1843:C:C6	2.77	0.53
1:AA:1944:U:O2	1:AA:1955:U:H6	1.91	0.53
1:AA:1951:U:C2	1:AA:1953:A:H5'	2.43	0.53
1:AA:1950:G:C5	1:AA:1951:U:H5	2.27	0.53
1:AA:2127:G:C6	1:AA:2162:G:C6	2.96	0.53
1:AA:2320:A:N6	14:AP:4:LEU:CD1	2.69	0.53
1:AA:2246:G:H1'	1:AA:2426:A:H2	1.73	0.53
1:AA:2455:G:C4	1:AA:2456:C:C5	2.95	0.53
1:AA:253:C:O2'	1:AA:254:G:H5'	2.09	0.53
1:AA:2677:G:HO2'	1:AA:2678:C:H5'	1.73	0.53
1:AA:270(F):U:H2'	1:AA:270(G):C:O4'	2.08	0.53
1:AA:2792:G:C2	1:AA:2804:C:N3	2.75	0.53
1:AA:2848:G:N9	15:AQ:99:LEU:HD21	2.23	0.53
1:AA:6:A:C6	1:AA:2898:U:C6	2.67	0.53
1:AA:328:U:H6	1:AA:328:U:O5'	1.90	0.53
1:AA:394:A:C6	1:AA:395:U:C4	2.96	0.53
1:AA:181:A:C2	1:AA:434:U:O2'	2.62	0.53
1:AA:438:G:O2'	1:AA:439:G:H5'	2.08	0.53
1:AA:462:C:C4	1:AA:468:G:C2	2.96	0.53
1:AA:581:C:OP1	16:AR:32:PHE:HB2	2.09	0.53
1:AA:5:A:C4	1:AA:6:A:C8	2.97	0.53
1:AA:665:C:OP2	1:AA:665:C:C6	2.58	0.53
1:AA:712:G:C4	1:AA:713:G:C8	2.97	0.53
1:AA:714:U:C2'	1:AA:715:G:C8	2.88	0.53
1:AA:720:C:C2	1:AA:721:C:C5	2.96	0.53
1:AA:721:C:H2'	1:AA:722:A:H8	1.74	0.53
1:AA:736:C:C4	1:AA:737:C:C5	2.97	0.53
1:AA:959:A:C4	1:AA:960:A:N7	2.76	0.53
1:AA:968:G:H2'	1:AA:969:U:C6	2.43	0.53
1:AA:972:G:OP2	1:AA:972:G:O4'	2.27	0.53
1:AA:97:C:O5'	1:AA:97:C:H6	1.90	0.53
2:AB:5:C:H2'	2:AB:6:C:C6	2.43	0.53
4:AD:154:LYS:O	4:AD:154:LYS:CG	2.56	0.53
5:AE:13:ARG:NE	5:AE:20:ALA:C	2.62	0.53
5:AE:149:ARG:NE	5:AE:150:VAL:O	2.40	0.53
5:AE:5:LEU:HD13	5:AE:196:VAL:C	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:85:ASN:N	5:AE:85:ASN:HD22	2.03	0.53
5:AE:92:THR:N	5:AE:95:ILE:HD13	2.20	0.53
6:AF:137:LYS:HA	6:AF:137:LYS:HZ3	1.74	0.53
6:AF:141:ALA:O	6:AF:142:TRP:C	2.47	0.53
6:AF:133:ASN:HB3	6:AF:165:ARG:NH2	2.24	0.53
6:AF:123:LEU:CD1	6:AF:193:VAL:HG22	2.27	0.53
6:AF:196:LEU:HD22	6:AF:199:TRP:CD1	2.44	0.53
7:AG:19:LEU:HA	7:AG:22:ARG:CG	2.38	0.53
7:AG:86:MET:N	7:AG:87:PRO:CD	2.72	0.53
9:AK:23:LEU:HD12	9:AK:63:THR:N	2.21	0.53
5:AE:152:LYS:HE2	9:AK:77:GLY:O	2.08	0.53
10:AL:12:ASP:O	10:AL:94:ARG:HD2	2.09	0.53
10:AL:47:ILE:O	10:AL:48:PRO:C	2.45	0.53
10:AL:59:LYS:HE2	10:AL:59:LYS:CA	2.37	0.53
10:AL:97:ARG:HE	10:AL:98:VAL:C	2.12	0.53
12:AN:122:GLY:HA2	12:AN:125:LEU:CD1	2.39	0.53
12:AN:85:LYS:HG3	12:AN:86:GLY:N	2.23	0.53
13:AO:25:ALA:CB	13:AO:48:VAL:HG22	2.37	0.53
13:AO:26:LYS:HE2	13:AO:70:LEU:CB	2.39	0.53
17:AS:36:PRO:HB3	17:AS:61:VAL:CG2	2.38	0.53
19:AU:20:GLY:O	19:AU:25:LYS:O	2.27	0.53
20:AV:13:VAL:HA	20:AV:73:ARG:NH1	2.23	0.53
21:AW:120:ILE:HB	21:AW:123:ASP:OD1	2.09	0.53
22:AX:32:ARG:HB2	22:AX:32:ARG:CZ	2.38	0.53
1:AA:2387:U:C2	22:AX:41:ARG:NH2	2.77	0.53
23:AY:38:GLN:H	23:AY:41:GLN:HE21	1.51	0.53
23:AY:41:GLN:O	23:AY:44:LYS:N	2.39	0.53
24:AZ:44:ARG:O	24:AZ:45:GLY:C	2.45	0.53
34:BA:1161:C:O2'	34:BA:1162:C:H5'	2.09	0.53
34:BA:1422:G:C2	34:BA:1423:G:C5	2.97	0.53
34:BA:1479:C:H2'	34:BA:1480:G:H8	1.73	0.53
34:BA:1495:U:O2	34:BA:1495:U:H2'	2.07	0.53
34:BA:1517:G:N3	34:BA:1517:G:H2'	2.23	0.53
34:BA:1405:G:O4'	34:BA:1519:A:C4'	2.56	0.53
34:BA:67:C:C4'	34:BA:172:A:H1'	2.39	0.53
34:BA:269:C:H2'	34:BA:270:A:C8	2.43	0.53
34:BA:292:G:C2	34:BA:309:G:C2	2.96	0.53
34:BA:352:C:H6	34:BA:352:C:OP1	1.92	0.53
34:BA:366:C:O2'	34:BA:367:U:O5'	2.26	0.53
34:BA:465:A:C8	34:BA:467:G:C6	2.96	0.53
34:BA:519:C:H5'	45:BP:51:ALA:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:585:G:O2'	34:BA:879:C:H5''	2.08	0.53
34:BA:593:G:C6	34:BA:594:G:C5	2.97	0.53
34:BA:745:C:H2'	34:BA:746:A:C8	2.44	0.53
34:BA:587:G:C2	34:BA:755:G:C6	2.96	0.53
34:BA:789:U:C6	34:BA:789:U:C3'	2.90	0.53
34:BA:791:G:C8	34:BA:792:A:N7	2.76	0.53
34:BA:821:G:H2'	34:BA:822:C:C6	2.42	0.53
34:BA:978:A:C8	34:BA:978:A:H3'	2.44	0.53
35:BF:53:ARG:NH1	35:BF:200:ILE:HD12	2.21	0.53
36:BG:24:ALA:CB	36:BG:28:GLN:HE22	2.20	0.53
38:BI:23:GLY:HA3	38:BI:25:ARG:HH12	1.71	0.53
38:BI:35:GLY:HA3	38:BI:41:VAL:HG12	1.89	0.53
38:BI:76:ILE:HD12	38:BI:142:LEU:HD12	1.89	0.53
38:BI:78:HIS:CG	41:BL:104:ARG:HD3	2.43	0.53
39:BJ:29:ALA:O	39:BJ:30:LEU:C	2.47	0.53
39:BJ:45:LEU:HD23	39:BJ:59:TYR:CA	2.39	0.53
40:BK:111:ARG:HD2	40:BK:123:GLU:CB	2.36	0.53
40:BK:56:GLN:H	40:BK:56:GLN:CD	2.12	0.53
40:BK:76:ARG:HD3	40:BK:156:TRP:CD1	2.43	0.53
40:BK:88:PRO:HG2	40:BK:152:ALA:CB	2.37	0.53
34:BA:876:G:O2'	41:BL:11:THR:CG2	2.56	0.53
35:BF:181:PHE:HE1	41:BL:72:PRO:HD2	1.73	0.53
42:BM:31:GLN:N	42:BM:31:GLN:OE1	2.41	0.53
43:BN:10:GLY:CA	43:BN:16:LEU:HD21	2.38	0.53
44:BO:50:TYR:CZ	44:BO:54:ARG:HB3	2.44	0.53
44:BO:99:GLN:HA	44:BO:105:VAL:CG1	2.37	0.53
45:BP:21:LYS:O	45:BP:22:SER:O	2.27	0.53
46:BQ:19:LEU:CD2	46:BQ:30:ALA:HA	2.38	0.53
48:BS:36:ILE:HD11	48:BS:60:VAL:CB	2.37	0.53
48:BS:60:VAL:HA	48:BS:63:ARG:CD	2.34	0.53
50:BU:10:VAL:CG2	50:BU:55:ASP:O	2.49	0.53
51:BV:36:ASN:C	51:BV:40:LEU:HG	2.26	0.53
52:BW:47:HIS:H	52:BW:62:ILE:HG22	1.73	0.53
52:BW:64:GLU:HG2	52:BW:65:ASN:N	2.23	0.53
52:BW:62:ILE:CG1	52:BW:67:VAL:HG22	2.38	0.53
53:BX:40:ALA:CB	53:BX:55:ILE:HG21	2.38	0.53
34:BA:1286:A:OP1	54:BY:25:LYS:HG3	2.08	0.53
57:BZ:209:ILE:HA	57:BZ:223:ILE:O	2.08	0.53
57:BZ:249:ALA:N	57:BZ:276:ILE:N	2.55	0.53
57:BZ:287:THR:HG21	57:BZ:297:LEU:O	2.09	0.53
57:BZ:395:ARG:CA	57:BZ:474:ASP:CB	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:509:LYS:HG2	57:BZ:561:ILE:CG2	2.39	0.53
57:BZ:79:ALA:CA	57:BZ:80:ASP:HB2	2.38	0.53
57:BZ:9:ALA:O	57:BZ:96:LEU:N	2.41	0.53
46:BQ:4:ILE:HD12	46:BQ:57:ARG:CB	2.34	0.53
55:BC:34:G:OP1	55:BC:35:A:N6	2.41	0.53
34:BA:131:C:C4	34:BA:232:G:C2	2.97	0.53
14:AP:56:LEU:HB3	14:AP:59:LYS:HZ2	1.73	0.53
1:AA:1101:U:H2'	1:AA:1102:C:H6	1.73	0.53
1:AA:1174:A:H2	1:AA:1176:G:O5'	1.91	0.53
1:AA:1250:G:C4'	16:AR:6:THR:HG21	2.39	0.53
1:AA:1309:G:C6	1:AA:1310:G:N7	2.76	0.53
1:AA:1326:U:H2'	1:AA:1326:U:O2	2.09	0.53
1:AA:1365:A:C8	1:AA:1366:A:N7	2.77	0.53
1:AA:1538:G:N1	1:AA:1539:G:C2	2.77	0.53
1:AA:1541:U:C2'	1:AA:1541:U:O2	2.51	0.53
1:AA:1683:C:O2	1:AA:1684:C:C5	2.60	0.53
1:AA:1731:G:H3'	1:AA:1731:G:N3	2.24	0.53
1:AA:1746:G:C6	1:AA:1747:G:C5	2.96	0.53
1:AA:1801:G:OP1	1:AA:1801:G:C8	2.61	0.53
1:AA:1813:G:O2'	4:AD:46:GLN:CD	2.47	0.53
1:AA:1869:G:N3	1:AA:1878:G:C6	2.77	0.53
1:AA:1900:A:H2	1:AA:1970:A:C6	2.24	0.53
1:AA:2132:U:O2	1:AA:2134:A:C5	2.62	0.53
1:AA:2136:C:C2	1:AA:2137:C:C6	2.97	0.53
1:AA:2210:G:O6	4:AD:150:LYS:CA	2.55	0.53
1:AA:2239:G:H4'	4:AD:249:PRO:HG3	1.91	0.53
1:AA:2355:C:C5	1:AA:2356:C:C4	2.97	0.53
1:AA:2384:G:H5''	1:AA:2386:C:OP1	2.09	0.53
1:AA:2246:G:N9	1:AA:2426:A:C2	2.77	0.53
1:AA:2245:U:O2	1:AA:2435:A:H3'	2.09	0.53
1:AA:2460:U:H2'	1:AA:2492:U:O4	2.09	0.53
1:AA:2556:C:C5'	57:BZ:550:GLY:CA	2.87	0.53
1:AA:2625:G:C2'	1:AA:2626:C:O5'	2.57	0.53
1:AA:2709:G:H2'	1:AA:2710:C:C5'	2.23	0.53
1:AA:2728:U:H2'	1:AA:2729:G:C8	2.44	0.53
1:AA:2803:C:H2'	1:AA:2803:C:O2	2.09	0.53
1:AA:2813:A:H2'	1:AA:2814:C:C6	2.43	0.53
1:AA:2841:C:C2	1:AA:2842:G:C8	2.97	0.53
1:AA:387:U:O2'	1:AA:388:G:C8	2.62	0.53
1:AA:223:A:C4	1:AA:422:A:C8	2.97	0.53
1:AA:511:U:H5	1:AA:512:G:C2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:539:G:H2'	1:AA:540:G:C8	2.44	0.53
1:AA:734:A:C2'	1:AA:735:A:O5'	2.55	0.53
1:AA:796:C:O5'	1:AA:796:C:H6	1.92	0.53
1:AA:844:C:C6	1:AA:844:C:OP2	2.62	0.53
1:AA:848:G:H2'	1:AA:849:A:N7	2.23	0.53
1:AA:910:A:C5	12:AN:17:LEU:HD11	2.43	0.53
1:AA:957:A:N6	1:AA:959:A:C5	2.77	0.53
1:AA:991:C:O2'	1:AA:992:C:H5'	2.09	0.53
3:AC:156:ILE:CG2	3:AC:160:ARG:HB2	2.39	0.53
3:AC:66:HIS:CE1	3:AC:181:PRO:HB2	2.43	0.53
4:AD:136:ILE:H	4:AD:168:ARG:HH22	1.56	0.53
4:AD:33:LEU:HD12	4:AD:61:LEU:HD21	1.91	0.53
6:AF:3:GLU:OE1	6:AF:21:ALA:HA	2.08	0.53
6:AF:77:ASP:CG	6:AF:80:ALA:HB2	2.29	0.53
6:AF:97:TYR:C	6:AF:98:SER:O	2.44	0.53
7:AG:170:ARG:O	7:AG:171:ALA:C	2.46	0.53
8:AH:137:ASP:HB3	8:AH:140:LYS:CD	2.39	0.53
8:AH:87:LEU:N	8:AH:132:ARG:CB	2.71	0.53
32:AJ:118:THR:HG22	32:AJ:119:ASP:N	2.23	0.53
32:AJ:21:PRO:N	32:AJ:22:PRO:HD3	2.24	0.53
32:AJ:23:VAL:HG13	32:AJ:27:LEU:HD12	1.90	0.53
9:AK:53:VAL:CA	9:AK:121:LYS:O	2.45	0.53
9:AK:53:VAL:HG11	9:AK:123:TYR:HE2	1.73	0.53
9:AK:23:LEU:HD23	9:AK:60:ILE:HG21	1.90	0.53
1:AA:1249:U:C4	11:AM:21:ARG:CZ	2.92	0.53
17:AS:3:ALA:HB1	17:AS:44:LYS:NZ	2.21	0.53
17:AS:21:ARG:N	17:AS:93:GLU:OE2	2.40	0.53
18:AT:64:MET:CB	18:AT:109:GLU:HG3	2.38	0.53
20:AV:26:LYS:HE3	20:AV:36:ALA:HB3	1.91	0.53
22:AX:19:LYS:CG	22:AX:20:ARG:N	2.71	0.53
1:AA:857:C:O2'	22:AX:23:VAL:HB	2.09	0.53
22:AX:21:LEU:HD11	22:AX:40:GLN:CA	2.39	0.53
2:AB:11:C:H3'	22:AX:74:ARG:NH1	2.24	0.53
24:AZ:5:LYS:HZ2	24:AZ:59:VAL:CG2	2.21	0.53
34:BA:69:G:C2	34:BA:101:A:C2	2.96	0.53
34:BA:1178:G:H21	34:BA:1180:A:H3'	1.74	0.53
34:BA:1117:G:C2	34:BA:1184:G:H1'	2.41	0.53
34:BA:1212:U:O2'	34:BA:1213:A:H8	1.92	0.53
34:BA:1342:C:O2'	42:BM:124:GLN:CB	2.52	0.53
34:BA:1446:A:O2'	34:BA:1447:G:OP1	2.26	0.53
34:BA:795:C:O2'	34:BA:1506:U:C1'	2.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:190:G:H4'	34:BA:191(A):G:OP2	2.08	0.53
34:BA:130:A:C6	34:BA:264:U:H1'	2.43	0.53
34:BA:290:C:C2'	34:BA:291:C:H5'	2.38	0.53
34:BA:498:A:O2'	34:BA:500:G:O4'	2.26	0.53
34:BA:563:A:C5	34:BA:567:G:H1'	2.42	0.53
34:BA:815:A:H1'	34:BA:817:C:H42	1.67	0.53
34:BA:857:C:C2	34:BA:858:G:C1'	2.92	0.53
34:BA:875:C:C2'	34:BA:876:G:O5'	2.56	0.53
37:BH:128:VAL:O	37:BH:130:GLY:N	2.42	0.53
37:BH:188:LEU:C	37:BH:189:PRO:O	2.46	0.53
38:BI:110:LEU:HD22	38:BI:139:LEU:HD21	1.91	0.53
38:BI:34:VAL:O	38:BI:41:VAL:HA	2.09	0.53
39:BJ:46:ARG:HH22	51:BV:37:VAL:HG13	1.74	0.53
34:BA:600:C:H5'	41:BL:129:VAL:CA	2.38	0.53
42:BM:23:ASN:ND2	42:BM:24:GLY:N	2.57	0.53
42:BM:7:THR:O	42:BM:83:ARG:CZ	2.56	0.53
44:BO:11:LYS:HB3	44:BO:13:GLN:CD	2.28	0.53
44:BO:65:ALA:CB	44:BO:98:LEU:HD23	2.32	0.53
45:BP:69:TYR:O	45:BP:100:ILE:CD1	2.57	0.53
46:BQ:40:ASN:O	46:BQ:43:THR:OG1	2.25	0.53
48:BS:12:ILE:HG12	48:BS:31:LEU:HD11	1.91	0.53
48:BS:79:ARG:HB3	48:BS:79:ARG:HH11	1.73	0.53
49:BT:27:LYS:O	49:BT:30:GLY:N	2.36	0.53
50:BU:63:ARG:CG	50:BU:64:PRO:HD2	2.38	0.53
34:BA:277:C:OP1	50:BU:68:ARG:NH1	2.41	0.53
51:BV:20:ALA:HB1	51:BV:55:ARG:NH2	2.24	0.53
52:BW:14:HIS:HB3	52:BW:15:LEU:HD23	1.91	0.53
52:BW:6:LYS:CB	52:BW:41:VAL:HG12	2.35	0.53
54:BY:21:TYR:O	54:BY:22:ARG:HB2	2.07	0.53
57:BZ:119:TYR:CB	57:BZ:120:GLY:CA	2.86	0.53
57:BZ:155:ASP:C	57:BZ:157:GLN:HB3	2.29	0.53
57:BZ:156:GLU:HA	57:BZ:157:GLN:C	2.27	0.53
57:BZ:205:PHE:N	57:BZ:229:GLY:HA3	2.24	0.53
57:BZ:483:ARG:HG3	57:BZ:573:ASP:HB2	1.87	0.53
57:BZ:29:SER:HG	57:BZ:58:ALA:HB1	1.74	0.53
57:BZ:59:LYS:HZ2	57:BZ:59:LYS:HB2	1.70	0.53
55:BC:26:A:C5	55:BC:27:G:N7	2.77	0.53
32:AJ:64:SER:HB3	32:AJ:65:PHE:HB3	1.88	0.53
1:AA:1077:A:H3'	1:AA:1078:U:H5'	1.90	0.53
1:AA:1180:C:C2'	1:AA:1181:C:C6	2.89	0.53
1:AA:1599:C:OP2	19:AU:36:LYS:NZ	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1627:G:N3	1:AA:1627:G:H2'	2.24	0.53
1:AA:1671:U:O2'	5:AE:129:HIS:HE1	1.92	0.53
1:AA:1742:C:C3'	1:AA:1743:G:C5'	2.86	0.53
1:AA:1787:A:O2'	1:AA:1788:C:H5'	2.08	0.53
1:AA:1993:U:N3	1:AA:1994:C:N4	2.56	0.53
1:AA:1997:G:C6	1:AA:1998:G:C6	2.97	0.53
1:AA:2025:C:H2'	1:AA:2026:C:C5	2.37	0.53
1:AA:2124:G:H5''	3:AC:71:GLN:CD	2.29	0.53
1:AA:2305:A:C6	7:AG:42:GLY:HA2	2.43	0.53
1:AA:2375:G:H21	1:AA:2378:A:H61	1.45	0.53
1:AA:2375:G:H1'	1:AA:2377:A:N7	2.22	0.53
1:AA:412:A:C8	1:AA:2412:A:N3	2.76	0.53
1:AA:2546:U:O4'	1:AA:2565:A:H2	1.92	0.53
1:AA:2574:G:H2'	1:AA:2575:C:C6	2.43	0.53
1:AA:2586:C:H3'	1:AA:2586:C:H6	1.74	0.53
1:AA:2675:A:OP1	10:AL:32:TYR:HE2	1.92	0.53
1:AA:2732:G:OP2	1:AA:2732:G:H8	1.91	0.53
1:AA:2737:G:N1	1:AA:2768:C:N4	2.56	0.53
1:AA:2767:C:N3	1:AA:2768:C:N4	2.57	0.53
1:AA:2794:C:H2'	1:AA:2794:C:O2	2.08	0.53
1:AA:2854:G:C6	1:AA:2855:C:C4	2.97	0.53
1:AA:303:U:C2	1:AA:315:G:N2	2.76	0.53
1:AA:506:G:C2'	1:AA:507:A:OP2	2.57	0.53
1:AA:608:A:H2'	1:AA:609:A:H5'	1.90	0.53
1:AA:61:G:C5	1:AA:62:C:C4	2.96	0.53
1:AA:660:G:H5''	6:AF:99:TYR:CE1	2.43	0.53
1:AA:673:C:C4	1:AA:808:G:N2	2.77	0.53
1:AA:699:A:H1'	1:AA:1634:A:N7	2.24	0.53
1:AA:802:A:H3'	1:AA:803:U:C5	2.42	0.53
1:AA:811:U:O2'	1:AA:812:C:OP1	2.24	0.53
1:AA:946:G:C6	1:AA:972:G:N2	2.76	0.53
1:AA:946:G:H2'	1:AA:947:G:C8	2.44	0.53
1:AA:969:U:H6	1:AA:969:U:O5'	1.92	0.53
1:AA:989:G:HO2'	1:AA:990:A:P	2.31	0.53
2:AB:97:G:H2'	2:AB:98:G:C5'	2.33	0.53
3:AC:210:ARG:HG2	3:AC:210:ARG:HH11	1.73	0.53
4:AD:239:ARG:N	4:AD:239:ARG:CD	2.70	0.53
1:AA:2731:G:C4'	5:AE:168:MET:SD	2.94	0.53
1:AA:247:G:H1	5:AE:8:LYS:CD	120.05	0.53
6:AF:118:ALA:CA	6:AF:122:LYS:HB2	2.38	0.53
6:AF:39:TRP:HZ3	6:AF:43:LYS:HD2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:147:ASP:O	7:AG:148:MET:CB	2.56	0.53
8:AH:111:HIS:O	8:AH:112:PRO:C	2.43	0.53
8:AH:126:PRO:HG3	8:AH:132:ARG:NH1	2.22	0.53
8:AH:149:ARG:O	8:AH:153:LYS:CB	2.57	0.53
8:AH:153:LYS:HA	8:AH:162:ILE:H	1.74	0.53
11:AM:123:LEU:HB3	11:AM:130:PHE:CE1	2.44	0.53
1:AA:1189:A:H5''	11:AM:29:LYS:NZ	2.24	0.53
11:AM:33:ARG:HG3	11:AM:35:HIS:CD2	2.43	0.53
1:AA:1287:A:H5'	13:AO:104:ARG:CG	2.38	0.53
13:AO:32:GLY:O	13:AO:116:LEU:CD2	2.57	0.53
14:AP:88:ASP:CG	14:AP:89:ARG:N	2.62	0.53
15:AQ:101:PHE:C	15:AQ:103:ARG:H	2.12	0.53
15:AQ:104:ASN:HA	15:AQ:108:ARG:HH12	1.74	0.53
15:AQ:23:ARG:CZ	15:AQ:88:ILE:O	2.57	0.53
16:AR:105:VAL:O	16:AR:108:GLU:CD	2.47	0.53
16:AR:59:ARG:O	16:AR:60:LEU:C	2.47	0.53
17:AS:4:ILE:O	17:AS:40:LEU:O	2.26	0.53
17:AS:7:THR:O	17:AS:11:GLN:NE2	2.41	0.53
18:AT:12:ILE:N	18:AT:12:ILE:HD13	2.24	0.53
20:AV:13:VAL:HG23	20:AV:14:LEU:N	2.24	0.53
20:AV:47:LYS:HB2	20:AV:49:VAL:CG1	2.38	0.53
22:AX:52:GLY:HA3	22:AX:60:PHE:CE1	2.44	0.53
2:AB:12:C:C4	22:AX:74:ARG:O	2.62	0.53
23:AY:27:LEU:HD11	23:AY:48:LEU:HG	1.90	0.53
23:AY:16:LEU:CD2	23:AY:58:VAL:HG22	2.39	0.53
34:BA:1003:G:N2	34:BA:1038:C:H1'	2.24	0.53
34:BA:1073:U:O2'	34:BA:1074:G:C5'	2.57	0.53
34:BA:1072:G:C6	34:BA:1104:G:C6	2.96	0.53
34:BA:1230:C:H5''	42:BM:127:LYS:HE3	1.91	0.53
34:BA:1240:U:C1'	40:BK:42:ILE:HD11	2.39	0.53
34:BA:1251:A:C2'	34:BA:1252:A:C8	2.88	0.53
34:BA:1273:G:H2'	34:BA:1274:G:O4'	2.09	0.53
34:BA:1326:C:O2'	34:BA:1327:C:H5'	2.08	0.53
34:BA:1376:U:C2	34:BA:1377:A:N7	2.77	0.53
34:BA:1418:A:C2'	34:BA:1419:G:H5'	2.38	0.53
34:BA:1504:G:OP1	34:BA:1504:G:O3'	2.26	0.53
34:BA:196:A:H1'	34:BA:222:U:C1'	2.38	0.53
34:BA:35:G:C6	34:BA:36:C:C4	2.97	0.53
34:BA:382:A:C2'	34:BA:383:A:O5'	2.57	0.53
34:BA:38:G:N2	34:BA:397:A:C8	2.75	0.53
34:BA:426:G:O3'	37:BH:41:GLY:O	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:474:G:O2'	34:BA:475:G:H5'	2.09	0.53
34:BA:563:A:H1'	34:BA:566:G:C2'	2.39	0.53
34:BA:596:C:O2	34:BA:596:C:H2'	2.07	0.53
34:BA:679:C:H2'	34:BA:680:C:C6	2.40	0.53
34:BA:689:C:H2'	34:BA:690:G:H1'	1.91	0.53
34:BA:81:G:C6	34:BA:82:U:O4	2.62	0.53
34:BA:756:C:H4'	34:BA:823:G:O2'	2.08	0.53
34:BA:955:U:N3	34:BA:956:U:C5	2.77	0.53
35:BF:72:GLY:HA2	35:BF:165:VAL:HG22	1.91	0.53
37:BH:106:TYR:CD2	37:BH:114:ARG:N	2.77	0.53
37:BH:10:ARG:NH1	37:BH:11:LEU:HD23	2.23	0.53
37:BH:124:GLY:O	37:BH:125:HIS:C	2.47	0.53
37:BH:128:VAL:HG21	37:BH:133:VAL:CG2	2.38	0.53
37:BH:150:GLU:C	37:BH:152:SER:H	2.12	0.53
37:BH:38:TYR:CE1	37:BH:45:GLN:NE2	2.70	0.53
38:BI:105:VAL:HG21	38:BI:132:ALA:HB2	1.89	0.53
38:BI:125:SER:C	38:BI:127:ASN:N	2.61	0.53
38:BI:48:ALA:HB3	38:BI:53:LEU:CB	2.26	0.53
38:BI:69:VAL:O	38:BI:70:PRO:C	2.47	0.53
40:BK:15:ASP:HB2	40:BK:23:VAL:HB	1.90	0.53
40:BK:45:ASP:O	40:BK:49:ILE:HD12	2.07	0.53
41:BL:82:HIS:C	41:BL:137:VAL:HG13	2.28	0.53
41:BL:19:VAL:O	41:BL:20:TYR:HB2	2.09	0.53
42:BM:106:ALA:C	42:BM:107:ARG:HG3	2.29	0.53
42:BM:37:PHE:HD1	42:BM:43:ALA:HA	1.72	0.53
34:BA:539:A:OP1	45:BP:114:LYS:CE	2.56	0.53
34:BA:33:A:N3	45:BP:32:PHE:HZ	2.07	0.53
45:BP:85:ILE:HG13	45:BP:87:GLY:N	2.14	0.53
46:BQ:97:PRO:CB	46:BQ:101:GLN:HE21	2.21	0.53
49:BT:6:LEU:CA	49:BT:18:ARG:O	2.56	0.53
50:BU:38:ARG:HG3	50:BU:39:SER:H	1.72	0.53
51:BV:58:LEU:O	51:BV:59:SER:O	2.27	0.53
34:BA:1220:G:O2'	52:BW:52:TYR:C	2.47	0.53
52:BW:9:VAL:CG1	52:BW:44:MET:CG	2.81	0.53
53:BX:72:LEU:CD2	53:BX:76:ALA:CB	2.86	0.53
57:BZ:161:ALA:O	57:BZ:162:ILE:HB	2.09	0.53
57:BZ:162:ILE:HG22	57:BZ:162:ILE:O	2.08	0.53
1:AA:1095:A:H5'	57:BZ:416:MET:HE3	1.91	0.53
57:BZ:551:ALA:CA	57:BZ:552:ASP:CB	2.86	0.53
32:AJ:64:SER:C	32:AJ:65:PHE:HD1	2.12	0.53
34:BA:1009:G:H2'	34:BA:1010:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1416:G:O2'	1:AA:1417:C:C6	2.57	0.53
1:AA:1050:A:C6	1:AA:2751:G:H3'	2.43	0.53
1:AA:1080:C:C4'	32:AJ:125:ARG:O	2.57	0.53
1:AA:1437:C:O3'	1:AA:1517:G:H5'	2.08	0.53
1:AA:1542:G:O2'	1:AA:1543:A:C4	2.62	0.53
1:AA:154:G:N2	1:AA:155:C:C2	2.76	0.53
1:AA:1605:C:H3'	1:AA:1606:G:C8	2.44	0.53
1:AA:1692:U:C1'	1:AA:1696:G:H22	2.22	0.53
1:AA:1820:U:H2'	4:AD:202:LYS:CG	2.29	0.53
1:AA:182:A:O2'	1:AA:183:C:H5'	2.09	0.53
1:AA:2095:C:O2'	1:AA:2096:U:H5'	2.08	0.53
1:AA:2177:C:C5'	3:AC:223:ARG:CZ	2.85	0.53
1:AA:2232:U:H2'	1:AA:2233:U:C5'	2.39	0.53
1:AA:2246:G:N2	1:AA:2247:A:C6	2.77	0.53
1:AA:2253:G:C4	1:AA:2254:C:C5	2.97	0.53
1:AA:2435:A:C2'	1:AA:2436:G:O5'	2.57	0.53
1:AA:2497:A:O2'	1:AA:2498:C:P	2.67	0.53
1:AA:2505:G:O6	1:AA:2576:G:N9	2.42	0.53
1:AA:2793:G:C2	1:AA:2803:C:N3	2.77	0.53
1:AA:2793:G:C6	1:AA:2794:C:N4	2.76	0.53
1:AA:2817:G:C2	1:AA:2830:G:N3	2.77	0.53
1:AA:2838:G:O2'	1:AA:2839:G:H5'	2.08	0.53
1:AA:295:G:N2	1:AA:344:G:H1'	2.23	0.53
1:AA:450:G:P	6:AF:52:LYS:HD3	2.49	0.53
1:AA:509:C:H2'	1:AA:510:C:OP2	2.08	0.53
1:AA:731:C:H2'	1:AA:732:C:O5'	2.09	0.53
1:AA:786:C:C2'	1:AA:787:U:C5'	2.87	0.53
1:AA:817:C:O2	1:AA:839:U:C5'	2.57	0.53
1:AA:910:A:O2'	1:AA:911:A:H5'	2.09	0.53
2:AB:113:C:H2'	2:AB:114:G:H8	1.74	0.53
2:AB:50:G:OP1	14:AP:63:THR:OG1	2.24	0.53
3:AC:26:ALA:O	3:AC:29:VAL:HG12	2.08	0.53
3:AC:78:ALA:C	3:AC:79:LYS:HG3	2.29	0.53
4:AD:117:VAL:HG22	4:AD:129:ASN:OD1	2.08	0.53
4:AD:172:TYR:HD2	4:AD:185:VAL:C	2.13	0.53
1:AA:1820:U:H2'	4:AD:202:LYS:HZ3	1.74	0.53
4:AD:234:GLY:CA	4:AD:241:PRO:CG	2.87	0.53
4:AD:5:LYS:HB2	4:AD:82:ILE:CD1	2.39	0.53
4:AD:72:LYS:CD	4:AD:75:ILE:HD12	2.38	0.53
4:AD:9:TYR:OH	4:AD:91:ARG:CZ	2.56	0.53
6:AF:11:VAL:HG22	6:AF:126:VAL:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:15:SER:OG	6:AF:16:GLY:N	2.41	0.53
6:AF:53:THR:C	6:AF:55:GLY:H	2.12	0.53
6:AF:80:ALA:HB3	6:AF:83:PHE:CE2	2.44	0.53
8:AH:35:VAL:CG1	8:AH:75:ALA:HB2	2.39	0.53
8:AH:85:LYS:HZ3	8:AH:142:GLY:CA	2.21	0.53
32:AJ:23:VAL:CG1	32:AJ:37:PHE:CG	2.92	0.53
32:AJ:52:ILE:HD11	32:AJ:76:TYR:HD1	1.74	0.53
9:AK:34:LEU:CA	9:AK:49:GLY:HA2	2.39	0.53
1:AA:1139:G:N7	9:AK:65:LYS:HE2	2.24	0.53
1:AA:1996:C:P	10:AL:31:LYS:HZ3	2.32	0.53
11:AM:81:GLN:HA	11:AM:86:LYS:HG2	1.89	0.53
11:AM:97:PRO:HD3	11:AM:102:ARG:NH2	2.24	0.53
13:AO:54:LEU:CD1	13:AO:54:LEU:N	2.71	0.53
13:AO:67:LEU:HD23	13:AO:76:VAL:HG22	1.91	0.53
15:AQ:58:ASN:N	15:AQ:61:PHE:CE2	2.77	0.53
1:AA:1152:C:O4'	16:AR:77:SER:HA	2.09	0.53
17:AS:45:THR:O	17:AS:46:VAL:CB	2.57	0.53
17:AS:73:SER:OG	17:AS:89:GLN:CB	2.56	0.53
17:AS:28:GLU:CG	17:AS:94:LEU:HB2	2.39	0.53
18:AT:74:ALA:CB	18:AT:105:VAL:HA	2.38	0.53
19:AU:12:VAL:HG13	19:AU:14:SER:CB	2.39	0.53
22:AX:27:GLU:CA	22:AX:69:PHE:CE1	2.92	0.53
23:AY:30:LEU:O	23:AY:33:GLN:HB2	2.09	0.53
24:AZ:50:VAL:HG12	24:AZ:51:ALA:O	2.08	0.53
34:BA:1110:A:C6	34:BA:1111:A:C5	2.96	0.53
34:BA:1185:G:C2'	34:BA:1186:G:H5'	2.39	0.53
34:BA:1197:G:P	34:BA:1197:G:H3'	2.49	0.53
34:BA:1336:C:O2'	34:BA:1337:G:C5	2.56	0.53
34:BA:1361:G:H3'	34:BA:1361:G:C8	2.43	0.53
34:BA:1386:G:O2'	34:BA:1387:G:H5'	2.09	0.53
34:BA:1406:U:H2'	34:BA:1407:C:O5'	2.09	0.53
34:BA:167:G:H2'	34:BA:168:G:C8	2.43	0.53
34:BA:199:G:H2'	34:BA:200:G:H8	1.73	0.53
34:BA:299:G:C2'	34:BA:300:A:C8	2.92	0.53
34:BA:314:C:O3'	34:BA:315:A:O4'	2.27	0.53
34:BA:328:C:H4'	34:BA:329:A:O5'	2.09	0.53
34:BA:399:G:C4	34:BA:400:C:C5	2.96	0.53
34:BA:574:A:O3'	34:BA:575:G:H4'	2.06	0.53
34:BA:601:C:C2	34:BA:638:G:C2	2.96	0.53
34:BA:689:C:C5	34:BA:690:G:N7	2.76	0.53
34:BA:758:G:H4'	34:BA:880:C:H4'	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:828:A:C8	34:BA:829:G:C8	2.97	0.53
34:BA:832:C:C2	34:BA:855:G:N1	2.77	0.53
34:BA:868:C:H3'	34:BA:869:G:H8	1.73	0.53
34:BA:86:U:OP2	34:BA:87:A:N1	2.42	0.53
34:BA:899:C:H2'	34:BA:900:A:O4'	2.09	0.53
56:BE:21:A:N1	56:BE:46:G:N3	2.38	0.53
35:BF:104:ASN:OD1	35:BF:108:ILE:CG1	2.53	0.53
35:BF:196:LEU:CD1	35:BF:196:LEU:C	2.77	0.53
35:BF:187:LEU:HB2	35:BF:201:ILE:CG2	2.38	0.53
35:BF:46:LYS:HA	35:BF:46:LYS:CE	2.34	0.53
35:BF:58:ILE:HG22	35:BF:221:LEU:CD1	2.38	0.53
35:BF:75:LYS:CA	35:BF:75:LYS:HZ3	2.16	0.53
36:BG:12:LEU:CD1	36:BG:18:TRP:CH2	2.92	0.53
36:BG:84:ILE:HG13	36:BG:101:LEU:CD1	2.35	0.53
37:BH:128:VAL:HA	37:BH:146:ILE:CG2	2.39	0.53
37:BH:18:LYS:HE2	37:BH:20:TYR:CD2	2.44	0.53
37:BH:31:CYS:O	37:BH:33:MET:CG	2.53	0.53
38:BI:149:GLU:O	38:BI:152:ARG:N	2.42	0.53
39:BJ:75:LEU:CD2	39:BJ:79:LEU:HD21	2.30	0.53
41:BL:7:ALA:O	41:BL:10:LEU:N	2.41	0.53
34:BA:587:G:H4'	41:BL:3:THR:O	2.09	0.53
34:BA:942:G:N2	42:BM:124:GLN:NE2	2.49	0.53
42:BM:55:ALA:HB1	42:BM:58:HIS:HD1	1.72	0.53
43:BN:44:VAL:HG22	43:BN:66:ARG:HD3	1.91	0.53
44:BO:59:TYR:O	44:BO:60:ALA:C	2.47	0.53
44:BO:99:GLN:HA	44:BO:105:VAL:HG13	1.91	0.53
45:BP:5:PRO:O	45:BP:6:THR:CB	2.57	0.53
46:BQ:25:ILE:HD11	46:BQ:66:LEU:CD2	2.36	0.53
47:BR:14:PRO:HB2	47:BR:17:LYS:HA	1.91	0.53
49:BT:32:TYR:HD1	49:BT:32:TYR:N	2.07	0.53
50:BU:7:THR:HG23	50:BU:8:GLY:H	1.74	0.53
51:BV:68:LYS:O	51:BV:72:ARG:HG3	2.08	0.53
51:BV:75:ILE:HG22	51:BV:76:LEU:HD13	1.89	0.53
52:BW:22:LEU:HA	52:BW:25:LYS:NZ	2.23	0.53
53:BX:54:LYS:O	53:BX:57:ARG:CB	2.56	0.53
34:BA:186:C:O2'	53:BX:85:MET:SD	2.56	0.53
57:BZ:165:ALA:HA	57:BZ:171:ILE:CB	2.30	0.53
57:BZ:273:ILE:HD12	57:BZ:274:VAL:H	1.74	0.53
55:BC:37:A:H2'	55:BC:38:A:C5'	2.39	0.53
55:BC:4:C:C2	55:BC:5:G:N7	2.76	0.53
1:AA:1582:C:H3'	1:AA:1583:A:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:799:G:N2	34:BA:800:G:H1'	2.23	0.53
55:BC:8:U:C6	55:BC:13:C:N4	2.77	0.53
56:BD:33:U:C3'	56:BD:34:G:H5''	2.38	0.53
51:BV:83:GLU:O	51:BV:84:LYS:C	2.47	0.53
1:AA:1273:U:H4'	1:AA:1275:A:OP1	2.09	0.53
1:AA:1451:C:C3'	1:AA:1453:A:H4'	2.38	0.53
1:AA:1657:C:N3	1:AA:2004:G:N2	2.56	0.53
1:AA:1790:C:N3	1:AA:1791:A:N6	2.57	0.53
1:AA:1807:G:N3	1:AA:1809:A:H5'	2.24	0.53
1:AA:1819:A:O2'	1:AA:1820:U:H5'	2.09	0.53
1:AA:1921:G:O6	58:AA:3001:NMY:N6	2.42	0.53
1:AA:1945:G:C4	1:AA:1946:U:C5	2.97	0.53
1:AA:1949:G:C5	1:AA:1950:G:C8	2.96	0.53
1:AA:2004:G:C8	1:AA:2005:A:C8	2.97	0.53
1:AA:2051:A:C2	1:AA:2614:A:C6	2.97	0.53
1:AA:197:A:H5''	1:AA:2068:U:C4	2.44	0.53
1:AA:2067:G:C6	1:AA:2069:G:N7	2.77	0.53
1:AA:2078:C:H2'	1:AA:2079:U:C6	2.44	0.53
1:AA:2124:G:O2'	3:AC:216:THR:CG2	2.49	0.53
1:AA:2132:U:O2	1:AA:2133:G:H5''	2.09	0.53
1:AA:2155:G:H2'	1:AA:2156:G:O5'	2.09	0.53
1:AA:2182:G:C2	1:AA:2183:C:C2	2.97	0.53
1:AA:2436:G:O2'	1:AA:2437:U:OP1	2.27	0.53
1:AA:1129:A:N3	1:AA:2516:G:H1'	2.23	0.53
1:AA:2636:U:P	5:AE:79:ARG:HB3	2.48	0.53
1:AA:2652:C:H3'	1:AA:2653:U:C5	2.43	0.53
1:AA:2666:C:C3'	1:AA:2667:C:C5'	2.86	0.53
1:AA:270(W):G:N2	1:AA:273:G:H4'	2.23	0.53
1:AA:278:A:N7	1:AA:359:A:C2	2.77	0.53
1:AA:350:U:C6	1:AA:350:U:OP2	2.61	0.53
1:AA:424:G:C2	1:AA:425:G:C8	2.97	0.53
1:AA:447:A:N1	1:AA:454:A:N7	2.57	0.53
1:AA:483:A:N6	1:AA:497:A:C2	2.76	0.53
1:AA:556:G:C2'	1:AA:557:U:O5'	2.57	0.53
1:AA:691:C:O2'	1:AA:692:C:H5'	2.08	0.53
1:AA:733:G:C6	1:AA:761:A:C4	2.97	0.53
1:AA:808:G:H2'	1:AA:809:G:H8	1.70	0.53
1:AA:869:G:C6	1:AA:909:A:N6	2.77	0.53
1:AA:91:A:H2	1:AA:92:G:H5'	1.73	0.53
1:AA:950:G:C6	1:AA:951:C:N4	2.77	0.53
1:AA:973:A:O2'	1:AA:974:G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:30:C:C1'	2:AB:58:A:H2	2.21	0.53
3:AC:120:MET:HE2	3:AC:145:VAL:CG2	2.38	0.53
1:AA:2122:U:C1'	3:AC:166:ASP:CG	2.78	0.53
3:AC:209:LEU:HG	3:AC:212:VAL:CG2	2.39	0.53
3:AC:45:ALA:C	3:AC:213:TYR:HE1	2.12	0.53
3:AC:75:LEU:CD2	3:AC:77:ILE:HD11	2.32	0.53
3:AC:86:ALA:O	3:AC:89:ALA:HB3	2.09	0.53
4:AD:240:ALA:O	4:AD:241:PRO:O	2.26	0.53
4:AD:5:LYS:O	4:AD:29:PRO:HD3	2.09	0.53
5:AE:158:GLY:O	5:AE:160:TYR:CD1	2.51	0.53
6:AF:37:VAL:O	6:AF:184:TYR:OH	2.27	0.53
8:AH:44:VAL:HG22	8:AH:45:VAL:N	2.23	0.53
9:AK:36:GLY:C	9:AK:47:ALA:HB3	2.29	0.53
9:AK:55:VAL:HB	9:AK:130:HIS:NE2	2.23	0.53
10:AL:22:ILE:HG13	10:AL:40:VAL:HG13	1.91	0.53
11:AM:126:VAL:HB	11:AM:146:VAL:H	1.74	0.53
11:AM:63:PRO:O	11:AM:65:ARG:HG3	2.08	0.53
12:AN:126:PRO:O	12:AN:127:ILE:HG13	2.09	0.53
12:AN:51:ARG:CD	12:AN:52:VAL:N	2.70	0.53
13:AO:44:LEU:HD13	13:AO:48:VAL:HG23	1.91	0.53
2:AB:50:G:C4'	14:AP:61:ASN:OD1	2.51	0.53
15:AQ:3:ARG:HA	15:AQ:6:LEU:HD21	1.89	0.53
15:AQ:67:SER:CB	15:AQ:75:ILE:HG23	2.39	0.53
15:AQ:97:ALA:O	15:AQ:99:LEU:N	2.42	0.53
1:AA:515:A:H5''	16:AR:32:PHE:HZ	1.72	0.53
18:AT:104:THR:O	18:AT:104:THR:HG23	2.09	0.53
19:AU:12:VAL:HB	19:AU:27:THR:C	2.29	0.53
19:AU:34:ALA:HB1	19:AU:38:GLU:HB3	1.90	0.53
19:AU:5:TYR:O	19:AU:7:VAL:N	2.42	0.53
20:AV:35:TYR:CD1	20:AV:64:GLU:O	2.62	0.53
21:AW:29:TYR:CE2	21:AW:72:ARG:NH1	2.76	0.53
21:AW:24:LEU:HD12	21:AW:41:LEU:CD1	2.38	0.53
21:AW:43:GLU:HA	21:AW:46:LYS:CD	2.38	0.53
24:AZ:26:LEU:CG	24:AZ:35:ARG:HH11	2.21	0.53
34:BA:1101:A:O2'	34:BA:1102:A:P	2.67	0.53
34:BA:1234:C:C4	34:BA:1235:U:C4	2.97	0.53
34:BA:1307:U:H2'	34:BA:1308:U:O4'	2.09	0.53
34:BA:1309:G:C8	34:BA:1330:U:N3	2.77	0.53
34:BA:1449:C:H2'	34:BA:1449:C:O2	2.08	0.53
34:BA:1496:C:H6	34:BA:1496:C:H3'	1.74	0.53
34:BA:193:C:H2'	34:BA:194:C:H6	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:216:G:H2'	34:BA:217:C:C6	2.44	0.53
34:BA:229:U:C2	34:BA:230:G:C8	2.96	0.53
34:BA:241:C:C2'	34:BA:242:C:O5'	2.57	0.53
34:BA:362:G:O5'	45:BP:34:ARG:NH2	2.41	0.53
34:BA:433:C:C4	34:BA:434:U:O4	2.62	0.53
34:BA:67:C:H2'	34:BA:68:G:C8	2.44	0.53
34:BA:716:A:C2'	34:BA:717:C:H5'	2.39	0.53
34:BA:754:C:H1'	48:BS:69:TYR:CG	2.44	0.53
34:BA:864:A:C6	34:BA:865:A:N1	2.76	0.53
34:BA:947:G:C2	34:BA:948:C:C6	2.97	0.53
56:BD:54:U:O2'	56:BD:55:U:H5'	2.08	0.53
34:BA:1339:A:HO2'	56:BE:40:C:HO2'	1.57	0.53
35:BF:132:LYS:HZ3	35:BF:132:LYS:N	2.07	0.53
35:BF:15:VAL:CG2	35:BF:209:ARG:NE	2.66	0.53
36:BG:110:ASN:HD21	36:BG:140:ARG:CD	2.22	0.53
37:BH:78:LEU:HD13	37:BH:96:LEU:CB	2.38	0.53
38:BI:9:LYS:HD2	38:BI:111:GLU:OE1	2.09	0.53
38:BI:76:ILE:CG2	38:BI:78:HIS:CD2	2.91	0.53
39:BJ:80:ARG:O	39:BJ:81:ILE:C	2.46	0.53
40:BK:10:ARG:HH11	40:BK:10:ARG:HB2	1.74	0.53
40:BK:115:ARG:CB	40:BK:118:VAL:CG2	2.77	0.53
41:BL:26:VAL:HG13	41:BL:27:PRO:HD2	1.91	0.53
41:BL:48:TYR:CD1	41:BL:49:GLU:N	2.77	0.53
42:BM:50:LEU:C	42:BM:50:LEU:HD23	2.29	0.53
42:BM:50:LEU:CD2	42:BM:51:ARG:NH1	2.72	0.53
43:BN:31:GLY:HA2	43:BN:81:THR:OG1	2.08	0.53
45:BP:12:ARG:CB	45:BP:12:ARG:CZ	2.87	0.53
46:BQ:5:ALA:CB	46:BQ:67:GLU:CD	2.73	0.53
47:BR:45:ARG:CB	47:BR:45:ARG:NH1	2.54	0.53
48:BS:70:LEU:HD21	48:BS:81:LEU:HD13	1.90	0.53
49:BT:27:LYS:HZ1	49:BT:27:LYS:H	1.55	0.53
49:BT:30:GLY:C	49:BT:31:LYS:O	2.45	0.53
53:BX:57:ARG:C	53:BX:59:ALA:N	2.56	0.53
54:BY:8:THR:HG22	54:BY:21:TYR:CE2	2.44	0.53
57:BZ:233:PRO:CB	57:BZ:234:ASN:CA	2.86	0.53
57:BZ:488:LEU:CD1	57:BZ:525:GLY:CA	2.76	0.53
57:BZ:68:TYR:CD1	57:BZ:68:TYR:N	2.76	0.53
57:BZ:129:LYS:NZ	60:BZ:701:GCP:N9	2.56	0.53
57:BZ:85:VAL:O	57:BZ:88:VAL:HG23	2.09	0.53
1:AA:1915:U:H2'	1:AA:1915:U:O2	2.07	0.53
1:AA:1485:G:H2'	1:AA:1486:A:H8	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BC:28:G:H8	55:BC:28:G:O5'	1.92	0.53
1:AA:1483:G:C1'	1:AA:1507:A:C2	2.91	0.53
57:BZ:258:LEU:HD13	57:BZ:260:LEU:CD1	2.39	0.53
1:AA:1064:C:O2	1:AA:1064:C:H2'	2.08	0.53
1:AA:1077:A:H5''	1:AA:1078:U:C2	2.44	0.53
1:AA:1027:A:C6	1:AA:1126:A:C4	2.96	0.53
1:AA:1255:U:C5'	1:AA:1256:G:C5'	2.69	0.53
1:AA:1288:U:C2	1:AA:1327:C:C2	2.97	0.53
1:AA:1360:A:C8	1:AA:1361:G:C8	2.97	0.53
1:AA:1441:G:N2	1:AA:1442:G:H1'	2.24	0.53
1:AA:1497:U:O4	1:AA:1577:C:H4'	2.08	0.53
1:AA:1524:G:C5	1:AA:1525:G:N7	2.77	0.53
1:AA:1539:G:O6	1:AA:1540:G:C6	2.62	0.53
1:AA:1559:G:C6	1:AA:1560:G:C4'	2.91	0.53
1:AA:1665:A:H1'	10:AL:1:MET:HG2	1.90	0.53
1:AA:1676:A:N7	1:AA:1677:A:N7	2.56	0.53
1:AA:1710:C:O2'	1:AA:2858:C:N4	2.41	0.53
1:AA:1728:G:H1	1:AA:1733:G:H22	1.56	0.53
1:AA:1764:G:C2'	1:AA:1765:C:O5'	2.57	0.53
1:AA:1794:U:H2'	1:AA:1795:C:H6	1.73	0.53
1:AA:1818:U:C4	4:AD:156:ALA:CB	2.92	0.53
1:AA:1819:A:H2'	1:AA:1820:U:OP2	2.09	0.53
1:AA:1931:U:O2'	1:AA:1932:A:C5'	2.57	0.53
1:AA:1967:C:O2	1:AA:1967:C:C2'	2.53	0.53
1:AA:1970:A:O2'	1:AA:1971:A:OP2	2.27	0.53
1:AA:1980:G:C2'	1:AA:1981:A:H5''	2.39	0.53
1:AA:2244:U:H2'	1:AA:2245:U:O5'	2.09	0.53
1:AA:2472:G:H2'	1:AA:2475:C:H42	1.73	0.53
1:AA:2470:G:O6	1:AA:2481:G:C2	2.62	0.53
1:AA:2626:C:O2'	1:AA:2627:G:O4'	2.25	0.53
1:AA:265:A:H2'	1:AA:266:G:C4'	2.39	0.53
1:AA:2749:A:C8	1:AA:2749:A:OP2	2.62	0.53
1:AA:2857:G:C8	1:AA:2857:G:H3'	2.43	0.53
1:AA:2834:G:C4	1:AA:2879:C:C4	2.96	0.53
1:AA:322:A:O2'	1:AA:340:A:C5	2.62	0.53
1:AA:52:A:C4	1:AA:53:A:C8	2.97	0.53
1:AA:624:C:OP2	11:AM:105:LEU:HD23	2.08	0.53
1:AA:637:A:C2	1:AA:651:G:C4'	2.92	0.53
1:AA:972:G:C8	1:AA:972:G:OP2	2.62	0.53
2:AB:48:A:C2	2:AB:49:C:C2	2.96	0.53
2:AB:85:G:C4	2:AB:92:G:N2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:90:GLY:CA	3:AC:157:LYS:HB2	2.38	0.53
4:AD:126:GLN:O	4:AD:127:VAL:C	2.45	0.53
4:AD:157:ARG:CB	4:AD:160:GLY:O	2.56	0.53
4:AD:50:THR:C	4:AD:51:VAL:CG2	2.76	0.53
4:AD:52:ARG:CD	4:AD:52:ARG:N	2.72	0.53
6:AF:29:ASN:ND2	6:AF:29:ASN:C	2.62	0.53
7:AG:102:PHE:HD2	7:AG:106:LEU:HD12	1.71	0.53
7:AG:177:GLY:O	7:AG:178:PHE:CB	2.56	0.53
7:AG:54:GLU:O	7:AG:57:ALA:CB	2.45	0.53
7:AG:8:LYS:HD3	7:AG:8:LYS:O	2.09	0.53
1:AA:6:A:C4'	9:AK:132:ALA:O	2.55	0.53
10:AL:6:THR:HG23	10:AL:21:CYS:HB3	1.90	0.53
1:AA:2415:G:C5'	11:AM:61:ARG:HD2	2.37	0.53
11:AM:65:ARG:NH1	11:AM:68:GLN:CD	2.62	0.53
12:AN:47:ILE:O	12:AN:48:GLU:C	2.47	0.53
12:AN:34:LEU:CD1	12:AN:67:ARG:NH2	2.72	0.53
13:AO:25:ALA:O	13:AO:29:LEU:CG	2.36	0.53
13:AO:53:HIS:ND1	13:AO:56:LYS:HE2	2.24	0.53
13:AO:75:LEU:HD23	13:AO:78:LYS:HG2	1.91	0.53
13:AO:55:ALA:HA	13:AO:80:PHE:HD1	1.74	0.53
14:AP:31:SER:HB3	14:AP:34:HIS:CB	2.39	0.53
16:AR:10:ARG:O	16:AR:11:ARG:C	2.46	0.53
17:AS:7:THR:C	17:AS:9:GLY:H	2.12	0.53
17:AS:67:GLY:C	17:AS:93:GLU:O	2.47	0.53
19:AU:93:GLU:O	19:AU:94:GLY:C	2.46	0.53
20:AV:50:ARG:CA	20:AV:54:LYS:HA	2.31	0.53
21:AW:5:LEU:HB2	21:AW:23:LYS:NZ	2.24	0.53
23:AY:23:LYS:O	23:AY:26:GLU:CB	2.52	0.53
24:AZ:37:LEU:HG	24:AZ:38:GLU:C	2.30	0.53
24:AZ:3:ARG:HH12	24:AZ:59:VAL:CG2	2.21	0.53
24:AZ:50:VAL:HG12	24:AZ:51:ALA:N	2.23	0.53
34:BA:1105:A:H2'	34:BA:1106:G:C8	2.39	0.53
34:BA:112:G:N2	34:BA:113:G:N9	2.57	0.53
34:BA:1145:C:C1'	34:BA:1146:A:C8	2.89	0.53
34:BA:1192:C:N4	34:BA:1193:G:N7	2.57	0.53
34:BA:1222:G:C2	34:BA:1223:C:N3	2.76	0.53
34:BA:1263:C:O2'	34:BA:1264:C:H5'	2.09	0.53
34:BA:1284:C:H2'	34:BA:1285:A:C8	2.44	0.53
34:BA:1311:G:C2	34:BA:1327:C:C1'	2.92	0.53
34:BA:166:G:C2	34:BA:167:G:C8	2.97	0.53
34:BA:263:A:H5'	53:BX:75:ASN:HD21	1.75	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:363:A:N1	34:BA:364:A:N3	2.57	0.53
34:BA:375:U:H2'	34:BA:376:G:C5'	2.39	0.53
34:BA:37:U:O2	34:BA:548:G:N1	2.42	0.53
34:BA:598:U:C2	34:BA:599:C:C6	2.97	0.53
34:BA:646:U:H2'	34:BA:647:C:H6	1.73	0.53
34:BA:671:G:C2	34:BA:672:U:H1'	2.44	0.53
34:BA:790:A:C2'	34:BA:791:G:O5'	2.57	0.53
34:BA:854:G:H5''	34:BA:871:U:N3	2.20	0.53
34:BA:965:A:C8	34:BA:969:A:N3	2.76	0.53
34:BA:980:C:H3'	34:BA:981:U:C5	2.44	0.53
55:BC:20:U:H2'	55:BC:21:A:C4'	2.36	0.53
56:BE:18:G:N2	56:BE:58:A:O4'	2.42	0.53
56:BE:16:U:O2	56:BE:60:U:C2	2.62	0.53
35:BF:107:THR:C	35:BF:109:SER:N	2.56	0.53
35:BF:144:ARG:HD3	35:BF:148:TYR:OH	2.09	0.53
35:BF:16:HIS:O	35:BF:204:ASN:CB	2.55	0.53
35:BF:32:ILE:HD12	35:BF:190:THR:HG22	1.90	0.53
34:BA:407:G:H1'	37:BH:119:GLN:OE1	2.08	0.53
37:BH:180:GLY:O	37:BH:181:MET:C	2.47	0.53
37:BH:187:ARG:HD2	37:BH:188:LEU:H	1.73	0.53
37:BH:60:GLU:HA	37:BH:63:LYS:CD	2.37	0.53
38:BI:115:VAL:CG2	38:BI:118:ILE:HD12	2.36	0.53
39:BJ:76:ALA:C	39:BJ:79:LEU:HG	2.28	0.53
40:BK:146:GLU:O	40:BK:149:ARG:N	2.42	0.53
40:BK:97:GLN:O	40:BK:98:SER:C	2.44	0.53
41:BL:49:GLU:OE1	41:BL:60:ARG:HB3	2.09	0.53
43:BN:23:ILE:CD1	43:BN:85:LEU:HB3	2.39	0.53
44:BO:66:LEU:O	44:BO:70:LYS:HD2	2.08	0.53
45:BP:82:VAL:O	45:BP:83:VAL:HB	2.09	0.53
46:BQ:78:ILE:HG22	46:BQ:78:ILE:O	2.09	0.53
46:BQ:8:GLU:HG3	46:BQ:22:ILE:N	2.23	0.53
46:BQ:97:PRO:CG	46:BQ:101:GLN:CG	2.86	0.53
48:BS:36:ILE:HG13	48:BS:59:MET:SD	2.49	0.53
48:BS:69:TYR:O	48:BS:70:LEU:C	2.48	0.53
53:BX:78:ALA:O	53:BX:79:ARG:C	2.45	0.53
57:BZ:119:TYR:HB3	57:BZ:121:LEU:N	2.23	0.53
57:BZ:124:ILE:O	57:BZ:126:VAL:HG23	2.09	0.53
57:BZ:127:ILE:N	57:BZ:163:VAL:O	2.34	0.53
57:BZ:231:VAL:HG13	57:BZ:231:VAL:O	2.09	0.53
1:AA:1095:A:H5'	57:BZ:416:MET:CE	2.39	0.53
57:BZ:509:LYS:HG2	57:BZ:561:ILE:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:69:ARG:CG	57:BZ:71:ASN:CB	2.86	0.53
57:BZ:7:ASN:CG	57:BZ:71:ASN:HB3	2.25	0.53
56:BD:52:G:C2	56:BD:63:G:N3	2.76	0.53
56:BD:70:G:O5'	56:BD:70:G:H8	1.92	0.53
1:AA:1914:C:H2'	1:AA:1914:C:O2	2.09	0.53
1:AA:1489:U:O2'	1:AA:1490:A:OP2	2.24	0.53
45:BP:126:LYS:CA	45:BP:126:LYS:HE3	2.39	0.53
55:BC:4:C:H2'	55:BC:4:C:O2	2.08	0.53
1:AA:2191:G:N2	1:AA:2192:G:H1'	2.24	0.53
57:BZ:448:LEU:O	57:BZ:451:PHE:HB2	2.09	0.53
1:AA:1013:C:P	1:AA:1142:U:O2	2.67	0.52
1:AA:1212:G:C5	1:AA:1236:G:N1	2.77	0.52
1:AA:1322:A:N7	1:AA:1323:U:C5	2.77	0.52
1:AA:143:C:C2	1:AA:144:C:H5	2.27	0.52
1:AA:1472:A:N7	1:AA:1474:C:N4	2.57	0.52
1:AA:1477:A:H2'	1:AA:1478:G:H1'	1.90	0.52
1:AA:149:A:C5	1:AA:150:C:C4	2.97	0.52
1:AA:1531:C:C2	1:AA:1532:C:C5	2.97	0.52
1:AA:1754:C:H2'	1:AA:1755:A:C1'	2.38	0.52
1:AA:1829:A:C2	1:AA:1830:C:C1'	2.91	0.52
1:AA:1944:U:C1'	1:AA:1955:U:C1'	2.86	0.52
1:AA:1961:C:C5'	34:BA:1484:C:O2'	2.57	0.52
1:AA:1326:U:H6	1:AA:2010:G:H21	1.51	0.52
1:AA:805:G:O6	1:AA:2068:U:OP1	2.26	0.52
1:AA:2165:G:C8	1:AA:2166:G:C8	2.96	0.52
1:AA:2215:G:H2'	1:AA:2216:G:C8	2.44	0.52
1:AA:2216:G:N3	4:AD:150:LYS:NZ	2.57	0.52
1:AA:223:A:C6	1:AA:408:G:O4'	2.62	0.52
1:AA:223:A:N6	1:AA:408:G:O4'	2.42	0.52
1:AA:2312:U:C2	1:AA:2313:C:C5	2.97	0.52
1:AA:2327:A:N7	1:AA:2388:A:N6	2.57	0.52
1:AA:2369:A:N6	1:AA:2382:G:N2	2.57	0.52
1:AA:244:A:C6	1:AA:245:G:H1'	2.44	0.52
1:AA:2466:C:C4	1:AA:2485:G:C6	2.97	0.52
1:AA:2521:C:H2'	1:AA:2522:U:O5'	2.09	0.52
1:AA:2658:C:H41	1:AA:2664:G:N2	2.05	0.52
1:AA:2740:A:C6	1:AA:2764:A:C4	2.97	0.52
1:AA:2856:C:H2'	1:AA:2857:G:O5'	2.08	0.52
1:AA:2811:G:N2	1:AA:2891:G:H1'	2.24	0.52
1:AA:320:A:H3'	6:AF:136:THR:OG1	2.09	0.52
1:AA:420:C:H2'	1:AA:421:U:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:534:U:OP1	16:AR:24:TYR:CE2	2.62	0.52
1:AA:565:C:C1'	1:AA:1252:G:O6	2.56	0.52
1:AA:599:G:H5'	6:AF:31:HIS:NE2	2.24	0.52
1:AA:61:G:H5'	23:AY:45:ILE:CG1	2.39	0.52
1:AA:733:G:N2	1:AA:734:A:N7	2.57	0.52
1:AA:976:C:HO2'	1:AA:977:G:H5'	1.72	0.52
2:AB:117:G:N3	2:AB:118:G:C8	2.77	0.52
2:AB:32:C:C3'	2:AB:33:G:H8	2.21	0.52
2:AB:99:A:C6	2:AB:100:G:C6	2.97	0.52
1:AA:2173:A:N3	3:AC:218:MET:HE3	2.24	0.52
5:AE:146:THR:CB	5:AE:147:PRO:CD	2.78	0.52
6:AF:189:THR:O	6:AF:190:GLU:C	2.46	0.52
6:AF:153:SER:OG	6:AF:190:GLU:CG	2.56	0.52
1:AA:2304:G:OP1	7:AG:132:ASN:ND2	2.42	0.52
7:AG:107:LEU:HD23	7:AG:177:GLY:HA3	1.91	0.52
7:AG:53:LEU:CD2	7:AG:71:THR:H	2.08	0.52
7:AG:96:ARG:O	7:AG:100:TRP:HE3	1.89	0.52
8:AH:101:ARG:O	8:AH:116:GLU:HA	2.09	0.52
8:AH:94:TYR:HH	8:AH:128:PRO:HG2	1.71	0.52
9:AK:73:THR:OG1	9:AK:83:LYS:HD3	2.09	0.52
10:AL:103:ALA:O	10:AL:105:GLU:N	2.42	0.52
10:AL:10:VAL:CG2	10:AL:12:ASP:OD1	2.55	0.52
10:AL:47:ILE:HG12	10:AL:48:PRO:O	2.09	0.52
11:AM:99:LEU:HD23	11:AM:100:LEU:H	1.74	0.52
11:AM:127:ALA:O	11:AM:147:LEU:HD13	2.09	0.52
11:AM:122:PRO:CB	11:AM:138:LEU:CA	2.87	0.52
11:AM:126:VAL:CB	11:AM:146:VAL:H	2.22	0.52
12:AN:6:ARG:CZ	12:AN:8:LYS:HG3	2.39	0.52
13:AO:61:HIS:CE1	13:AO:64:ARG:CZ	2.92	0.52
14:AP:30:ARG:HD2	14:AP:91:PRO:HB2	1.91	0.52
15:AQ:64:ARG:NH1	15:AQ:78:LEU:H	2.07	0.52
16:AR:74:LEU:O	16:AR:75:ASN:O	2.27	0.52
17:AS:67:GLY:O	17:AS:68:LYS:CB	2.47	0.52
17:AS:6:LYS:N	17:AS:12:TYR:HB3	2.24	0.52
17:AS:79:VAL:CB	17:AS:81:TYR:HD1	2.23	0.52
18:AT:24:ILE:HG22	18:AT:32:ALA:CB	2.39	0.52
21:AW:168:GLU:OE1	21:AW:169:GLU:N	2.41	0.52
22:AX:22:GLY:O	22:AX:38:VAL:CG1	2.56	0.52
23:AY:54:ARG:O	23:AY:57:THR:N	2.42	0.52
24:AZ:35:ARG:HH22	24:AZ:47:VAL:HG11	1.74	0.52
34:BA:1189:C:OP1	36:BG:5:ILE:HG21	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1203:C:C2	34:BA:1204:A:C8	2.97	0.52
34:BA:1311:G:C2	34:BA:1327:C:O4'	2.62	0.52
34:BA:1376:U:H3	34:BA:1377:A:N6	2.08	0.52
34:BA:1411:C:O5'	34:BA:1411:C:H6	1.92	0.52
34:BA:1422:G:N1	34:BA:1423:G:C5	2.78	0.52
34:BA:1504:G:H3'	34:BA:1504:G:P	2.49	0.52
34:BA:151:A:C5	34:BA:152:A:C2	2.97	0.52
34:BA:68:G:H5'	34:BA:171:A:O2'	2.08	0.52
34:BA:192:U:H5'	53:BX:102:GLY:HA2	1.91	0.52
34:BA:246:A:O2'	34:BA:247:G:O5'	2.27	0.52
34:BA:258:G:C6	34:BA:259:G:C6	2.97	0.52
34:BA:290:C:C6	34:BA:290:C:O5'	2.55	0.52
34:BA:57:G:N2	34:BA:388:G:N7	2.58	0.52
34:BA:587:G:N3	34:BA:755:G:N1	2.58	0.52
34:BA:828:A:C2'	34:BA:829:G:O5'	2.57	0.52
34:BA:939:G:H4'	34:BA:1375:A:O2'	2.08	0.52
34:BA:945:G:N1	34:BA:946:A:N7	2.57	0.52
34:BA:993:G:C6	34:BA:1046:A:C6	2.97	0.52
56:BE:53:G:H2'	56:BE:54:U:H6	1.73	0.52
35:BF:107:THR:HA	35:BF:110:GLN:OE1	2.09	0.52
35:BF:142:LEU:O	35:BF:143:GLU:C	2.47	0.52
35:BF:186:ALA:O	35:BF:201:ILE:HD13	2.09	0.52
34:BA:1056:U:H5'	36:BG:163:ALA:HB3	1.90	0.52
37:BH:70:ILE:CD1	37:BH:100:ARG:HH21	2.18	0.52
37:BH:126:ILE:HG21	37:BH:133:VAL:O	2.08	0.52
37:BH:127:THR:OG1	37:BH:149:ALA:HA	2.09	0.52
37:BH:128:VAL:N	37:BH:146:ILE:HG22	2.25	0.52
38:BI:107:ARG:NH1	38:BI:107:ARG:CB	2.72	0.52
38:BI:147:ASP:O	38:BI:150:ARG:HB3	2.09	0.52
38:BI:20:GLN:CD	38:BI:21:ALA:N	2.62	0.52
38:BI:71:LEU:HD21	38:BI:74:GLY:N	2.24	0.52
42:BM:7:THR:CG2	42:BM:9:ARG:HH11	2.22	0.52
34:BA:692:U:P	44:BO:124:LYS:HZ1	2.32	0.52
40:BK:150:ALA:HB2	44:BO:59:TYR:CD2	2.45	0.52
44:BO:63:LEU:HG	44:BO:66:LEU:HD12	1.91	0.52
45:BP:36:VAL:HG23	45:BP:81:SER:O	2.08	0.52
48:BS:36:ILE:CD1	48:BS:60:VAL:HG22	2.36	0.52
50:BU:65:ILE:O	50:BU:69:LYS:O	2.27	0.52
50:BU:8:GLY:C	50:BU:56:VAL:HG13	2.29	0.52
52:BW:79:THR:O	52:BW:79:THR:HG22	2.08	0.52
53:BX:13:LEU:CB	53:BX:17:ARG:HH21	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:3:LYS:HD2	54:BY:14:TRP:HB2	1.90	0.52
57:BZ:233:PRO:HG2	57:BZ:248:ASN:CB	2.38	0.52
57:BZ:558:VAL:HG12	57:BZ:559:PRO:HD2	1.91	0.52
57:BZ:564:THR:HB	57:BZ:567:GLN:CB	2.39	0.52
57:BZ:374:ARG:NH2	57:BZ:581:THR:H	2.07	0.52
31:AI:52:PHE:N	31:AI:86:PRO:CB	2.73	0.52
56:BD:47:U:H3'	56:BD:48:C:C5'	2.39	0.52
14:AP:33:LYS:CG	14:AP:54:LEU:HD21	2.39	0.52
1:AA:274:G:N3	1:AA:274:G:C3'	2.70	0.52
34:BA:1384:C:H2'	34:BA:1385:G:O4'	2.09	0.52
1:AA:1011:G:C5'	1:AA:1012:U:OP2	2.57	0.52
1:AA:1034:G:C5	1:AA:1122:G:O6	2.61	0.52
1:AA:1037:G:N2	1:AA:1119:C:C1'	2.71	0.52
1:AA:1273:U:H5''	1:AA:1646:C:H41	1.72	0.52
1:AA:1378:A:O2'	1:AA:1379:A:P	2.67	0.52
1:AA:1499:C:H3'	1:AA:1500:G:C8	2.43	0.52
1:AA:1388:G:H4'	1:AA:1524:G:O2'	2.10	0.52
1:AA:1633:G:N7	1:AA:1635:G:N1	2.55	0.52
1:AA:1677:A:C2	1:AA:1678:G:C4	2.97	0.52
1:AA:1746:G:H2'	1:AA:1747:G:O4'	2.09	0.52
1:AA:1784:A:C4'	1:AA:1785:A:C8	2.92	0.52
1:AA:1813:G:H2'	1:AA:1813:G:N3	2.24	0.52
1:AA:1814:G:C2'	1:AA:1815:A:C8	2.90	0.52
1:AA:1902:C:N1	1:AA:1903:G:C8	2.77	0.52
1:AA:1952:A:C4	1:AA:1953:A:C2	2.96	0.52
1:AA:1991:U:H2'	1:AA:1992:G:OP2	2.09	0.52
1:AA:2018:G:C2'	1:AA:2019:A:O4'	2.57	0.52
1:AA:2107:C:H5	1:AA:2181:G:O6	1.86	0.52
1:AA:2227:A:H4'	4:AD:262:ARG:CG	2.34	0.52
1:AA:2246:G:H1'	1:AA:2426:A:C2	2.45	0.52
1:AA:2259:G:H5'	1:AA:2427:C:C3'	2.38	0.52
1:AA:2265:U:O2	1:AA:2266:A:N7	2.41	0.52
1:AA:2456:C:HO2'	1:AA:2457:U:H5'	1.72	0.52
1:AA:2519:U:H2'	1:AA:2519:U:O2	2.08	0.52
1:AA:2525:G:O2'	1:AA:2741:A:C2	2.62	0.52
1:AA:2615:U:C2	1:AA:2616:C:C5	2.97	0.52
1:AA:2648:C:H2'	1:AA:2648:C:O2	2.09	0.52
1:AA:270(H):C:H2'	1:AA:270(I):G:C8	2.40	0.52
1:AA:270(J):G:C2	1:AA:270(K):C:C2	2.97	0.52
1:AA:2815:C:O2'	1:AA:2816:C:C5'	2.52	0.52
1:AA:2844:G:H3'	1:AA:2845:G:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2848:G:C2	1:AA:2867:G:N3	2.76	0.52
1:AA:523:C:C2'	1:AA:524:U:H5'	2.38	0.52
1:AA:526:A:OP1	1:AA:527:C:OP2	2.27	0.52
1:AA:624:C:H6	1:AA:624:C:C3'	2.22	0.52
1:AA:672:C:H2'	1:AA:673:C:C5	2.44	0.52
1:AA:705:A:N7	1:AA:727:A:C8	2.77	0.52
1:AA:744:G:O6	1:AA:745:G:O6	2.27	0.52
1:AA:788:A:H4'	1:AA:789:A:O5'	2.09	0.52
1:AA:858:U:C6	1:AA:859:G:N2	2.77	0.52
1:AA:931:G:H21	24:AZ:24:LYS:C	2.13	0.52
1:AA:975:G:N7	1:AA:1186:G:N2	2.45	0.52
1:AA:999:U:O2	1:AA:1157:G:C2	2.62	0.52
2:AB:62:C:O2	2:AB:63:G:C8	2.62	0.52
3:AC:177:LYS:CB	3:AC:180:PHE:HB2	2.36	0.52
4:AD:176:ARG:HA	4:AD:181:GLU:O	2.09	0.52
1:AA:1567:A:N1	4:AD:85:ASP:N	2.57	0.52
5:AE:195:LEU:CD1	5:AE:196:VAL:N	2.52	0.52
5:AE:38:THR:HA	5:AE:42:ASP:HA	1.91	0.52
5:AE:5:LEU:HD23	5:AE:7:VAL:N	2.24	0.52
5:AE:85:ASN:N	5:AE:85:ASN:ND2	2.56	0.52
7:AG:105:LYS:HA	7:AG:109:VAL:CG1	2.40	0.52
7:AG:130:ASN:O	7:AG:161:THR:HG23	2.08	0.52
7:AG:34:LEU:O	7:AG:34:LEU:HD12	2.09	0.52
7:AG:75:LYS:CB	7:AG:84:LYS:HB2	2.39	0.52
8:AH:102:ALA:HB1	8:AH:115:VAL:N	2.25	0.52
8:AH:35:VAL:HB	8:AH:72:ILE:HG12	1.90	0.52
32:AJ:122:ALA:CA	32:AJ:126:MET:CB	2.87	0.52
9:AK:74:ARG:HG2	9:AK:76:SER:HB2	1.90	0.52
11:AM:101:VAL:CG2	11:AM:112:LEU:HD22	2.36	0.52
11:AM:114:ILE:HB	11:AM:130:PHE:HA	1.91	0.52
12:AN:48:GLU:HA	12:AN:51:ARG:CG	2.39	0.52
12:AN:74:TYR:HD2	12:AN:74:TYR:H	1.54	0.52
14:AP:26:LEU:HD21	14:AP:37:ALA:C	2.30	0.52
14:AP:78:LEU:HD13	14:AP:79:ALA:CB	2.39	0.52
19:AU:21:PHE:HA	19:AU:26:TYR:CD2	2.43	0.52
19:AU:12:VAL:CG2	19:AU:28:PHE:HA	2.36	0.52
21:AW:99:TYR:CD1	21:AW:126:VAL:HG23	2.44	0.52
21:AW:152:ALA:HB3	21:AW:168:GLU:N	2.23	0.52
21:AW:123:ASP:H	21:AW:171:ILE:HD13	1.74	0.52
24:AZ:40:THR:HG22	24:AZ:42:ALA:HB3	1.91	0.52
34:BA:1107:C:O2	34:BA:1107:C:H2'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1108:G:C5	34:BA:1109:C:N4	2.77	0.52
34:BA:1239:A:H5'	34:BA:1240:U:OP1	2.09	0.52
34:BA:1283:G:H2'	34:BA:1284:C:H5'	1.90	0.52
34:BA:1323:G:C4	34:BA:1324:A:N7	2.78	0.52
34:BA:1451:A:N3	34:BA:1451:A:H2'	2.23	0.52
34:BA:1497:G:O2'	34:BA:1498:U:H5'	2.09	0.52
58:BA:1601:NMY:H171	58:BA:1601:NMY:N2	2.24	0.52
34:BA:160:A:C2	34:BA:343:U:H1'	2.45	0.52
34:BA:283:C:O2	34:BA:284:G:O4'	2.28	0.52
34:BA:286:G:H2'	34:BA:287:U:H6	1.73	0.52
34:BA:295:C:H2'	34:BA:296:U:O5'	2.09	0.52
34:BA:498:A:H1'	34:BA:500:G:O4'	2.09	0.52
34:BA:568:G:C4	34:BA:569:C:C5	2.97	0.52
34:BA:56:U:H2'	34:BA:57:G:C8	2.44	0.52
34:BA:583:A:H2'	34:BA:584:G:C8	2.44	0.52
34:BA:637:G:O2'	34:BA:638:G:H5'	2.09	0.52
34:BA:669:U:O4'	48:BS:46:HIS:HE1	1.92	0.52
34:BA:736:C:OP1	51:BV:72:ARG:NH2	2.42	0.52
34:BA:775:G:N3	34:BA:776:G:C8	2.77	0.52
34:BA:766:A:C8	34:BA:814:A:C6	2.97	0.52
34:BA:889:A:OP1	34:BA:891:U:H1'	2.09	0.52
34:BA:913:A:O2'	34:BA:914:A:P	2.66	0.52
34:BA:922:G:H2'	34:BA:923:A:O4'	2.09	0.52
56:BE:7:A:C4	56:BE:49:C:P	3.03	0.52
35:BF:238:LEU:O	35:BF:238:LEU:HD23	2.09	0.52
35:BF:82:ARG:CB	35:BF:94:ASN:ND2	2.70	0.52
36:BG:116:VAL:C	36:BG:119:ARG:HB3	2.30	0.52
36:BG:87:LEU:HD12	36:BG:101:LEU:HD11	1.91	0.52
37:BH:11:LEU:HA	37:BH:14:ARG:CB	2.32	0.52
37:BH:166:LYS:HD3	37:BH:178:VAL:CG1	2.39	0.52
38:BI:78:HIS:HE2	38:BI:142:LEU:HB3	1.75	0.52
39:BJ:76:ALA:HB1	39:BJ:80:ARG:CZ	2.39	0.52
39:BJ:11:ASN:CB	39:BJ:84:ASN:HB3	2.39	0.52
34:BA:737:A:H5'	39:BJ:90:VAL:HG13	1.90	0.52
40:BK:103:TRP:CH2	40:BK:138:LYS:CA	2.73	0.52
40:BK:68:ASN:O	40:BK:135:VAL:HG13	2.09	0.52
41:BL:101:PRO:HG2	41:BL:102:ARG:H	1.74	0.52
41:BL:62:TYR:O	41:BL:63:LEU:O	2.26	0.52
42:BM:16:ARG:O	42:BM:63:ILE:HG23	2.10	0.52
42:BM:7:THR:O	42:BM:83:ARG:NH1	2.42	0.52
43:BN:41:PRO:O	43:BN:42:THR:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:57:THR:OG1	44:BO:59:TYR:CB	2.57	0.52
34:BA:562:C:H2'	45:BP:15:ARG:HB3	1.91	0.52
45:BP:41:ARG:CG	45:BP:42:THR:H	2.21	0.52
45:BP:46:LYS:CE	45:BP:47:LYS:HZ1	2.23	0.52
49:BT:52:ASP:OD1	49:BT:55:ARG:CG	2.57	0.52
49:BT:82:GLN:CG	49:BT:82:GLN:O	2.57	0.52
50:BU:7:THR:HG23	50:BU:8:GLY:N	2.24	0.52
51:BV:39:VAL:O	51:BV:43:PHE:CE1	2.62	0.52
52:BW:11:VAL:CG1	52:BW:15:LEU:HD12	2.39	0.52
57:BZ:309:MET:HE3	57:BZ:366:LEU:CD1	2.38	0.52
57:BZ:67:ASP:H	57:BZ:68:TYR:HB3	1.75	0.52
1:AA:1055:G:H4'	31:AI:32:LEU:O	2.08	0.52
1:AA:1113:U:O5'	1:AA:1113:U:C6	2.55	0.52
1:AA:1037:G:H22	1:AA:1119:C:H1'	1.74	0.52
1:AA:1143:A:O2'	1:AA:1144:G:H5'	2.09	0.52
1:AA:1194:A:C6	1:AA:1195:G:N7	2.78	0.52
1:AA:1236:G:O2'	1:AA:1237:A:O4'	2.20	0.52
1:AA:1290:C:C2	1:AA:1291:C:C5	2.98	0.52
1:AA:1343:G:H2'	1:AA:1384:A:H2	1.73	0.52
1:AA:1344:G:C5	1:AA:1385:G:C8	2.97	0.52
1:AA:1475:G:N7	1:AA:1517:G:C2	2.77	0.52
1:AA:1534:G:H3'	1:AA:1534:G:C8	2.45	0.52
1:AA:1672:C:H3'	1:AA:1673:U:C5'	2.36	0.52
1:AA:1742:C:C2'	1:AA:1743:G:H4'	2.38	0.52
1:AA:175:G:N2	1:AA:176:G:C4	2.77	0.52
1:AA:1789:A:OP1	4:AD:222:ARG:CG	2.50	0.52
1:AA:1858:G:H22	1:AA:1884:A:C1'	2.22	0.52
1:AA:1889:A:N1	1:AA:1890:A:C6	2.77	0.52
1:AA:1928:A:H8	1:AA:1929:G:N3	2.07	0.52
1:AA:1956:U:O5'	1:AA:1956:U:C6	2.63	0.52
1:AA:2096:U:H2'	1:AA:2097:C:C6	2.44	0.52
1:AA:2126:A:H4'	1:AA:2127:G:O5'	2.08	0.52
1:AA:2168:G:N1	1:AA:2171:A:OP2	2.38	0.52
1:AA:2309:A:C2'	1:AA:2309:A:N3	2.72	0.52
1:AA:2393:A:H2'	1:AA:2394:C:O4'	2.09	0.52
1:AA:2449:U:OP1	1:AA:2449:U:O4'	2.26	0.52
1:AA:2459:A:N3	1:AA:2460:U:C2'	2.73	0.52
1:AA:247:G:O2'	1:AA:386:G:N2	2.42	0.52
1:AA:2481:G:HO2'	1:AA:2482:G:H8	1.56	0.52
1:AA:2512:C:H3'	1:AA:2512:C:C6	2.45	0.52
1:AA:2585:U:O4	59:AA:3002:8AN:C8	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2603:G:OP2	22:AX:1:MET:SD	2.67	0.52
1:AA:2667:C:C3'	1:AA:2668:G:H5'	2.39	0.52
1:AA:2848:G:O4'	15:AQ:99:LEU:HD11	2.10	0.52
1:AA:2892:A:H2'	1:AA:2893:G:H1'	1.91	0.52
1:AA:563:G:H2'	1:AA:563:G:N3	2.23	0.52
1:AA:605:C:H4'	6:AF:102:PRO:HG3	1.91	0.52
1:AA:612:G:N2	1:AA:617:G:C6	2.68	0.52
1:AA:714:U:O2	1:AA:717:G:N7	2.42	0.52
1:AA:809:G:O4'	1:AA:1254:A:H1'	2.10	0.52
1:AA:820:A:N3	1:AA:820:A:H2'	2.24	0.52
1:AA:862:G:N3	1:AA:863:A:H1'	2.23	0.52
1:AA:896:A:C2	1:AA:897:C:C6	2.98	0.52
1:AA:945:A:C3'	1:AA:946:G:C5'	2.87	0.52
1:AA:954:G:C2'	1:AA:955:C:H5'	2.39	0.52
2:AB:11:C:P	22:AX:74:ARG:HH12	2.32	0.52
3:AC:113:VAL:HG12	3:AC:138:PRO:CG	2.38	0.52
3:AC:115:ALA:CB	3:AC:120:MET:SD	2.85	0.52
3:AC:156:ILE:CA	3:AC:159:GLY:C	2.77	0.52
3:AC:43:VAL:HG23	3:AC:189:ILE:HD11	1.90	0.52
4:AD:124:PRO:O	4:AD:126:GLN:N	2.33	0.52
4:AD:130:ALA:O	4:AD:131:LEU:CD1	2.55	0.52
4:AD:27:THR:CG2	4:AD:29:PRO:HD2	2.36	0.52
4:AD:40:THR:HG22	4:AD:41:GLY:O	2.09	0.52
5:AE:13:ARG:HD2	5:AE:13:ARG:O	2.09	0.52
5:AE:30:PRO:HB2	5:AE:48:GLN:CB	2.30	0.52
5:AE:38:THR:HG1	5:AE:44:TYR:CB	2.23	0.52
6:AF:155:LEU:HD22	6:AF:157:VAL:CG1	2.40	0.52
6:AF:37:VAL:O	6:AF:41:LEU:HD23	2.08	0.52
7:AG:104:GLU:HG3	7:AG:105:LYS:H	1.74	0.52
7:AG:15:VAL:O	7:AG:18:GLU:CB	2.54	0.52
7:AG:35:GLU:O	7:AG:160:VAL:HB	2.09	0.52
7:AG:26:GLN:NE2	7:AG:31:VAL:HG22	2.23	0.52
8:AH:23:ARG:NH2	8:AH:36:PRO:N	2.57	0.52
32:AJ:62:ASP:CB	32:AJ:63:ARG:CA	2.88	0.52
9:AK:58:ASP:HB3	9:AK:124:ALA:HB1	1.90	0.52
9:AK:18:ALA:H	9:AK:21:LYS:HD2	1.74	0.52
9:AK:69:GLN:N	9:AK:70:LYS:HE2	2.24	0.52
10:AL:63:VAL:CG2	10:AL:80:ASP:O	2.57	0.52
10:AL:63:VAL:CG1	10:AL:99:PHE:CZ	2.92	0.52
11:AM:113:LYS:HG2	11:AM:114:ILE:N	2.25	0.52
12:AN:125:LEU:HB3	12:AN:126:PRO:HD3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:134:ARG:NE	12:AN:137:TYR:H	2.06	0.52
12:AN:42:ILE:O	12:AN:94:VAL:CB	2.57	0.52
1:AA:872:A:O2'	12:AN:66:ILE:HG12	2.09	0.52
12:AN:7:MET:O	12:AN:69:PHE:CE1	2.62	0.52
13:AO:96:ARG:CG	13:AO:98:LEU:CD1	2.83	0.52
14:AP:77:ALA:O	14:AP:78:LEU:C	2.47	0.52
14:AP:78:LEU:C	14:AP:78:LEU:CD2	2.76	0.52
15:AQ:30:VAL:CG2	15:AQ:32:TYR:CE2	2.85	0.52
15:AQ:33:LYS:HG3	15:AQ:45:PHE:CZ	2.44	0.52
15:AQ:56:GLY:O	15:AQ:61:PHE:CB	2.57	0.52
10:AL:77:ILE:CG2	15:AQ:75:ILE:HD12	2.33	0.52
15:AQ:7:ILE:C	15:AQ:9:LEU:N	2.61	0.52
1:AA:1754:C:C5	15:AQ:98:LYS:HD3	2.45	0.52
1:AA:565:C:H5''	17:AS:82:ARG:HE	1.75	0.52
17:AS:62:LEU:CD1	17:AS:98:GLU:HA	2.40	0.52
1:AA:1266:G:O4'	18:AT:15:ARG:NH2	2.43	0.52
20:AV:32:PRO:C	20:AV:34:LYS:H	2.13	0.52
21:AW:105:VAL:HB	21:AW:140:ASP:CG	2.30	0.52
21:AW:144:LEU:C	21:AW:174:VAL:HG11	2.30	0.52
21:AW:95:PRO:HD2	21:AW:130:PRO:HA	1.91	0.52
22:AX:42:GLY:O	22:AX:57:PHE:HD2	1.92	0.52
34:BA:1026:G:H2'	34:BA:1027:C:C5'	2.38	0.52
34:BA:1053:G:N7	34:BA:1200:C:OP2	2.42	0.52
34:BA:1131:G:OP2	42:BM:20:ARG:HD3	2.09	0.52
34:BA:1161:C:H2'	34:BA:1162:C:C5	2.45	0.52
34:BA:1285:A:O4'	34:BA:1286:A:N7	2.42	0.52
34:BA:1309:G:C8	34:BA:1330:U:C4	2.97	0.52
34:BA:976:G:C2	34:BA:1362:C:C2	2.96	0.52
34:BA:1475:G:O2'	34:BA:1476:G:H5'	2.10	0.52
34:BA:14:U:C6	34:BA:16:A:OP2	2.62	0.52
34:BA:230:G:C2	34:BA:231:G:C4	2.98	0.52
34:BA:254:G:N1	34:BA:273:A:C6	2.78	0.52
34:BA:503:C:C2	34:BA:504:C:C5	2.98	0.52
34:BA:527:G:N2	34:BA:528:C:C2	2.77	0.52
34:BA:551:U:O2'	45:BP:86:ARG:HD2	2.09	0.52
34:BA:559:A:O2'	34:BA:560:U:OP2	2.23	0.52
34:BA:620:C:C6	34:BA:621:A:C8	2.98	0.52
34:BA:658:G:O2'	34:BA:659:U:H5'	2.08	0.52
34:BA:687:A:C4	34:BA:704:A:N6	2.77	0.52
34:BA:739:C:O2'	34:BA:740:U:H5'	2.09	0.52
34:BA:801:U:C2'	34:BA:801:U:O2	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:861:G:H2'	34:BA:862:C:C6	2.43	0.52
34:BA:944:G:C3'	34:BA:945:G:C5'	2.82	0.52
34:BA:949:A:HO2'	34:BA:1364:U:H3	1.52	0.52
34:BA:953:G:O2'	34:BA:954:G:H5'	2.09	0.52
34:BA:978:A:C8	34:BA:980:C:N4	2.78	0.52
34:BA:1338:G:N3	56:BE:42:C:O4'	2.43	0.52
22:AX:7:LEU:HB2	56:BE:74:C:H42	1.74	0.52
34:BA:1190:G:P	36:BG:5:ILE:HG13	2.50	0.52
37:BH:141:ARG:CG	37:BH:142:PRO:HD2	2.39	0.52
38:BI:57:LYS:O	38:BI:58:ALA:C	2.48	0.52
41:BL:14:ARG:N	41:BL:14:ARG:HH11	2.08	0.52
42:BM:82:ALA:HB1	42:BM:101:PHE:CE1	2.45	0.52
43:BN:7:LYS:NZ	43:BN:71:LEU:HD11	2.24	0.52
44:BO:110:ASP:HB2	51:BV:88:LYS:CD	2.38	0.52
44:BO:126:ARG:C	44:BO:128:ALA:N	2.62	0.52
44:BO:43:SER:HB3	44:BO:64:ALA:HB1	1.91	0.52
45:BP:83:VAL:CG2	45:BP:84:LEU:H	2.09	0.52
48:BS:54:ARG:HD3	48:BS:55:GLY:N	2.24	0.52
50:BU:11:VAL:HB	50:BU:20:THR:HG1	1.73	0.52
34:BA:280:C:H1'	50:BU:38:ARG:CZ	2.38	0.52
34:BA:280:C:N3	50:BU:39:SER:CB	2.73	0.52
53:BX:57:ARG:HH21	53:BX:100:ILE:HD12	1.73	0.52
53:BX:83:ARG:HA	53:BX:86:ARG:HD3	1.90	0.52
57:BZ:274:VAL:O	57:BZ:276:ILE:N	2.31	0.52
57:BZ:282:LEU:O	57:BZ:283:ASN:ND2	2.43	0.52
57:BZ:309:MET:CG	57:BZ:366:LEU:HD13	2.39	0.52
57:BZ:404:THR:H	57:BZ:438:ARG:HG2	1.73	0.52
57:BZ:447:GLY:CA	57:BZ:480:VAL:CG2	2.83	0.52
56:BD:4:C:H2'	56:BD:4:C:O2	2.08	0.52
56:BD:63:G:H8	56:BD:63:G:O5'	1.92	0.52
1:AA:1505:C:O2	1:AA:1505:C:H2'	2.09	0.52
32:AJ:65:PHE:CD1	32:AJ:65:PHE:N	2.76	0.52
23:AY:10:LYS:HB2	23:AY:11:LEU:HD12	1.92	0.52
1:AA:1510:A:N3	1:AA:1511:A:C2	2.77	0.52
1:AA:2143:C:C4	1:AA:2144:U:O4	2.63	0.52
1:AA:2186:G:N1	1:AA:2187:G:O6	2.42	0.52
34:BA:350:G:N3	34:BA:350:G:H2'	2.23	0.52
45:BP:16:GLU:OE1	45:BP:17:LYS:O	2.27	0.52
1:AA:1046:A:C5	31:AI:6:ASN:CA	2.92	0.52
1:AA:1062:G:N7	1:AA:1063:G:C5	2.77	0.52
1:AA:1075:C:H2'	1:AA:1075:C:O2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:116:C:H2'	1:AA:117:G:O5'	2.10	0.52
1:AA:1300:U:O2'	1:AA:1301:A:OP2	2.27	0.52
1:AA:1392:A:C5	1:AA:1393:A:C6	2.97	0.52
1:AA:1462:C:H4'	1:AA:2703:C:OP1	2.10	0.52
1:AA:1624:G:N1	1:AA:1625:C:N4	2.57	0.52
1:AA:1632:A:O5'	1:AA:1632:A:C8	2.63	0.52
1:AA:1709:U:C1'	1:AA:2860:A:H1'	2.39	0.52
1:AA:1861:G:H2'	1:AA:1862:G:C5'	2.39	0.52
1:AA:1920:C:C6	1:AA:1921:G:N7	2.78	0.52
1:AA:1920:C:H5	58:AA:3001:NMY:H4	1.73	0.52
1:AA:1936:A:H1'	1:AA:1940:U:N3	2.24	0.52
1:AA:1996:C:C2	1:AA:1997:G:H4'	2.44	0.52
1:AA:2093:G:H2'	1:AA:2094:G:H5'	1.92	0.52
1:AA:2287:A:N7	1:AA:2289:G:N7	2.57	0.52
1:AA:2348:U:H2'	1:AA:2349:G:O5'	2.09	0.52
1:AA:2421:G:N3	1:AA:2422:A:N7	2.57	0.52
1:AA:2545:G:H2'	1:AA:2546:U:H5'	1.91	0.52
1:AA:2649:U:H6	1:AA:2649:U:O5'	1.92	0.52
1:AA:2740:A:H61	1:AA:2764:A:H1'	1.74	0.52
1:AA:2525:G:O2'	1:AA:2741:A:H2	1.93	0.52
1:AA:2821:A:P	1:AA:2821:A:H3'	2.49	0.52
1:AA:2848:G:N2	1:AA:2849:U:N3	2.55	0.52
1:AA:6:A:C2	1:AA:2897:U:C2'	2.78	0.52
1:AA:464:U:N3	1:AA:465:G:C6	2.78	0.52
1:AA:595:C:H2'	1:AA:596:G:C8	2.41	0.52
1:AA:730:C:H5'	1:AA:761:A:OP1	2.10	0.52
1:AA:763:G:C6	1:AA:765:G:C5	2.98	0.52
1:AA:836:G:C6	1:AA:837:C:C4	2.98	0.52
1:AA:871:U:H5"	12:AN:9:TYR:CE2	2.44	0.52
1:AA:875:G:C2	1:AA:876:C:N3	2.78	0.52
1:AA:894:C:O2	1:AA:894:C:H2'	2.08	0.52
1:AA:847:U:C4	1:AA:933:A:H2	2.27	0.52
1:AA:945:A:H4'	1:AA:945:A:OP1	2.09	0.52
1:AA:957:A:OP2	12:AN:77:LYS:CD	2.46	0.52
2:AB:37:C:N4	2:AB:44:G:H1	2.06	0.52
2:AB:29:A:O2'	2:AB:58:A:N1	2.38	0.52
3:AC:185:LEU:HD23	3:AC:185:LEU:N	2.23	0.52
3:AC:7:TYR:OH	3:AC:14:VAL:HG21	2.08	0.52
5:AE:147:PRO:HD2	5:AE:148:GLY:H	1.72	0.52
1:AA:2052:G:C4	5:AE:150:VAL:HB	2.45	0.52
5:AE:97:LYS:HD2	5:AE:98:PRO:HD2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:157:VAL:O	6:AF:157:VAL:HG23	2.08	0.52
6:AF:176:LEU:C	6:AF:178:PRO:CD	2.77	0.52
7:AG:125:PHE:CE2	7:AG:127:GLY:C	2.83	0.52
7:AG:174:GLU:HG2	7:AG:175:LEU:N	2.22	0.52
8:AH:102:ALA:CA	8:AH:115:VAL:HG12	2.38	0.52
8:AH:28:GLY:HA3	8:AH:79:VAL:CB	2.33	0.52
32:AJ:20:ALA:CB	32:AJ:21:PRO:CD	2.86	0.52
9:AK:114:ARG:O	9:AK:115:ARG:C	2.48	0.52
9:AK:12:ARG:CD	9:AK:12:ARG:O	2.55	0.52
9:AK:66:LYS:O	9:AK:67:LEU:O	2.27	0.52
10:AL:22:ILE:HD12	10:AL:40:VAL:HG21	1.91	0.52
1:AA:2684:U:O2'	10:AL:67:LYS:CG	2.57	0.52
11:AM:72:PRO:CB	11:AM:111:ARG:CB	2.74	0.52
11:AM:99:LEU:HD23	11:AM:100:LEU:N	2.23	0.52
12:AN:27:VAL:CG2	12:AN:28:ALA:N	2.53	0.52
1:AA:1653:G:O6	13:AO:11:ASN:HA	2.08	0.52
13:AO:22:ARG:HG2	13:AO:70:LEU:CD2	2.40	0.52
13:AO:26:LYS:HE2	13:AO:70:LEU:HB3	1.90	0.52
14:AP:62:LYS:O	14:AP:64:GLU:N	2.41	0.52
15:AQ:24:PRO:CG	15:AQ:25:GLY:H	2.09	0.52
10:AL:106:LEU:HD21	15:AQ:38:ASN:ND2	2.25	0.52
16:AR:81:HIS:CB	16:AR:117:GLN:NE2	2.72	0.52
16:AR:31:SER:C	16:AR:35:ALA:HB2	2.29	0.52
17:AS:20:LEU:CB	17:AS:95:LEU:HB3	2.39	0.52
18:AT:36:LEU:CD2	18:AT:47:VAL:HB	2.33	0.52
19:AU:50:LYS:HG3	19:AU:85:PRO:HD2	1.90	0.52
20:AV:2:ARG:CG	20:AV:3:VAL:H	2.22	0.52
21:AW:100:VAL:CG1	21:AW:133:ILE:HB	2.38	0.52
22:AX:11:ARG:HG2	22:AX:11:ARG:NH1	2.25	0.52
22:AX:26:TYR:CE1	22:AX:29:GLN:NE2	2.78	0.52
23:AY:14:VAL:HG13	23:AY:18:LYS:NZ	2.24	0.52
24:AZ:9:VAL:HG21	24:AZ:52:HIS:O	2.09	0.52
34:BA:1138:G:N1	34:BA:1140:C:C5	2.77	0.52
34:BA:1252:A:C5	34:BA:1253:G:C8	2.98	0.52
34:BA:1302:U:O2'	34:BA:1303:C:C5'	2.58	0.52
34:BA:1393:U:H2'	34:BA:1394:A:OP2	2.10	0.52
34:BA:1511:G:O2'	34:BA:1512:U:H5'	2.10	0.52
34:BA:178:C:H2'	34:BA:179:A:H8	1.73	0.52
34:BA:133:U:O4	34:BA:229:U:O4	2.27	0.52
34:BA:261:U:C4	34:BA:264:U:OP2	2.62	0.52
34:BA:279:A:C1'	34:BA:281:G:C4	2.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:335:C:H1'	34:BA:1434:A:H1'	1.91	0.52
34:BA:50:A:H61	34:BA:361:G:H4'	1.70	0.52
34:BA:413:G:N2	34:BA:428:G:O2'	2.41	0.52
34:BA:44:G:H2'	34:BA:45:U:O5'	2.10	0.52
34:BA:296:U:HO2'	34:BA:556:C:HO2'	1.51	0.52
34:BA:626:U:O2'	34:BA:627:G:H5'	2.10	0.52
34:BA:657:G:O2'	34:BA:658:G:H5'	2.09	0.52
34:BA:739:C:H2'	34:BA:739:C:O2	2.10	0.52
34:BA:969:A:H5'	34:BA:970:C:OP2	2.08	0.52
34:BA:992:U:H4'	34:BA:993:G:C5'	2.39	0.52
56:BE:7:A:H1'	56:BE:49:C:OP2	2.09	0.52
34:BA:1158:C:H1'	35:BF:133:LYS:CE	2.40	0.52
35:BF:42:ILE:HG23	35:BF:43:ASP:N	2.24	0.52
36:BG:142:MET:C	36:BG:142:MET:SD	2.88	0.52
36:BG:177:THR:O	36:BG:179:ARG:N	2.42	0.52
36:BG:36:ASP:OD2	36:BG:57:ILE:HD12	2.08	0.52
37:BH:126:ILE:O	37:BH:132:ARG:CB	2.58	0.52
37:BH:170:VAL:HG23	37:BH:176:LEU:CD2	2.37	0.52
38:BI:76:ILE:CD1	38:BI:142:LEU:HB2	2.27	0.52
39:BJ:79:LEU:HB2	39:BJ:88:VAL:CG1	2.39	0.52
40:BK:146:GLU:O	40:BK:147:ALA:C	2.47	0.52
41:BL:103:VAL:HG11	41:BL:109:ILE:N	2.24	0.52
41:BL:24:THR:H	41:BL:60:ARG:HD3	1.73	0.52
42:BM:93:ARG:HH22	42:BM:97:LYS:HE2	1.73	0.52
43:BN:24:VAL:O	43:BN:28:ARG:HG3	2.09	0.52
44:BO:101:SER:OG	44:BO:103:LEU:HG	2.08	0.52
44:BO:43:SER:CB	44:BO:64:ALA:HB1	2.40	0.52
40:BK:153:HIS:CE1	44:BO:58:PRO:CG	2.93	0.52
44:BO:84:VAL:O	44:BO:84:VAL:HG23	2.09	0.52
45:BP:41:ARG:CB	45:BP:41:ARG:NH1	2.70	0.52
49:BT:20:VAL:HG11	49:BT:32:TYR:CD2	2.44	0.52
51:BV:26:LEU:CD2	51:BV:29:PHE:HB2	2.39	0.52
51:BV:31:LEU:HD21	51:BV:62:GLU:OE2	2.10	0.52
57:BZ:163:VAL:HG22	57:BZ:174:LEU:N	2.17	0.52
57:BZ:131:ASP:CG	57:BZ:166:SER:HA	2.29	0.52
57:BZ:233:PRO:HG2	57:BZ:276:ILE:HG12	1.89	0.52
57:BZ:357:ARG:HA	57:BZ:385:PRO:HG3	1.90	0.52
57:BZ:62:ALA:HB3	57:BZ:63:ALA:CA	2.39	0.52
57:BZ:502:PHE:CZ	57:BZ:555:VAL:O	2.62	0.52
57:BZ:258:LEU:CB	57:BZ:259:GLY:HA3	2.38	0.52
34:BA:491:G:N2	34:BA:492:G:H1'	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:43:VAL:CG1	45:BP:44:THR:N	2.72	0.52
1:AA:1005:C:H2'	1:AA:1006:C:C6	2.27	0.52
1:AA:1080:C:H6	1:AA:1080:C:H3'	1.74	0.52
1:AA:1142(A):A:N6	1:AA:1143:A:N7	2.57	0.52
1:AA:331:A:N6	1:AA:1209:G:H2'	2.24	0.52
1:AA:1210:A:H5''	1:AA:1211:U:H3'	1.91	0.52
1:AA:1301:A:O2'	1:AA:1302:A:H8	1.92	0.52
1:AA:1312:U:O5'	19:AU:62:LYS:HD2	2.09	0.52
1:AA:1315:C:O2	1:AA:1392:A:C2	2.62	0.52
1:AA:1405:U:C2	1:AA:1406:U:C4	2.98	0.52
1:AA:14:A:N6	1:AA:15:G:C2	2.71	0.52
1:AA:1632:A:C6	1:AA:1633:G:N1	2.76	0.52
1:AA:1657:C:P	5:AE:136:ARG:NH2	2.82	0.52
1:AA:175:G:C2	1:AA:176:G:C4	2.97	0.52
1:AA:1853:A:N3	1:AA:2233:U:O2'	2.42	0.52
1:AA:1899:G:C8	1:AA:1899:G:H3'	2.44	0.52
1:AA:1925:C:H2'	1:AA:1925:C:O2	2.09	0.52
1:AA:195:A:OP2	1:AA:196:A:O3'	2.27	0.52
1:AA:2197:U:C2'	1:AA:2198:A:H5''	2.39	0.52
1:AA:2205:C:H2'	1:AA:2206:C:H6	1.74	0.52
1:AA:2239:G:H1'	4:AD:249:PRO:HB3	1.92	0.52
1:AA:2297:C:C4	1:AA:2333:A:N6	2.76	0.52
1:AA:2305:A:C3'	1:AA:2306:C:H5''	2.39	0.52
1:AA:2308:G:C2'	1:AA:2308:G:N3	2.73	0.52
1:AA:2312:U:OP2	7:AG:86:MET:HG2	2.09	0.52
1:AA:233:A:H2'	1:AA:234:C:H5'	1.92	0.52
1:AA:2393:A:H4'	11:AM:56:SER:H	1.74	0.52
1:AA:2436:G:O2'	1:AA:2437:U:C5'	2.58	0.52
1:AA:2506:U:H6	59:AA:3002:8AN:HN3A	1.43	0.52
1:AA:2532:G:H1'	1:AA:2664:G:H1'	1.89	0.52
1:AA:1938:A:H2	1:AA:2590:A:O4'	1.93	0.52
1:AA:2666:C:H3'	1:AA:2666:C:H6	1.74	0.52
1:AA:270(X):G:O3'	1:AA:272:G:H4'	2.08	0.52
1:AA:2716:U:O5'	1:AA:2716:U:H6	1.92	0.52
1:AA:2744:G:O2'	1:AA:2745:C:H5'	2.09	0.52
1:AA:1710:C:C1'	1:AA:2858:C:H42	2.21	0.52
1:AA:2870:C:H2'	1:AA:2871:C:O4'	2.09	0.52
1:AA:279:C:N4	1:AA:359:A:C4	2.66	0.52
1:AA:386:G:C2'	1:AA:386:G:N3	2.72	0.52
1:AA:604:G:C2'	1:AA:605:C:O5'	2.57	0.52
1:AA:611:C:O2	1:AA:616:A:C2	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:612:G:N2	1:AA:617:G:H1	2.08	0.52
1:AA:647:G:H5'	1:AA:2352:A:H5'	1.92	0.52
1:AA:675:A:H5''	6:AF:67:GLN:OE1	2.10	0.52
1:AA:702:G:C2'	1:AA:703:U:H5'	2.39	0.52
1:AA:70:G:H4'	1:AA:71:A:H5'	1.89	0.52
1:AA:75:G:O2'	23:AY:50:ARG:NH1	2.40	0.52
1:AA:763:G:N3	1:AA:765:G:C1'	2.73	0.52
1:AA:464:U:C2	1:AA:788:A:C5	2.98	0.52
2:AB:13:A:N6	2:AB:70:C:H5'	2.25	0.52
2:AB:85:G:C2	2:AB:92:G:N3	2.77	0.52
2:AB:87:G:N2	2:AB:90:C:C2	2.78	0.52
3:AC:120:MET:HE2	3:AC:138:PRO:HB2	1.91	0.52
3:AC:39:GLU:HB3	3:AC:178:ALA:HB2	1.90	0.52
4:AD:208:LYS:O	4:AD:211:ARG:HB2	2.09	0.52
4:AD:21:PHE:O	4:AD:205:VAL:CG2	2.56	0.52
4:AD:223:GLY:C	4:AD:225:ALA:H	2.13	0.52
1:AA:2596:U:O3'	4:AD:242:ARG:NE	2.43	0.52
4:AD:254:THR:C	4:AD:255:LYS:HG3	2.29	0.52
4:AD:90:ALA:HA	4:AD:91:ARG:HH11	1.74	0.52
5:AE:174:ASP:OD1	5:AE:175:VAL:N	2.43	0.52
1:AA:2784:C:C1'	5:AE:41:LYS:HZ3	2.22	0.52
5:AE:45:THR:HG1	5:AE:46:ALA:H	1.55	0.52
5:AE:4:ILE:C	5:AE:4:ILE:HD12	2.29	0.52
6:AF:114:VAL:HG23	6:AF:186:ILE:HD13	1.92	0.52
6:AF:130:ALA:O	6:AF:139:PHE:CA	2.56	0.52
7:AG:38:VAL:O	7:AG:157:ILE:HG13	2.09	0.52
7:AG:32:PRO:HB2	7:AG:163:ALA:CA	2.33	0.52
8:AH:11:VAL:HG11	8:AH:17:VAL:CB	2.40	0.52
8:AH:118:PRO:CD	8:AH:121:ILE:HD13	2.29	0.52
8:AH:121:ILE:HD11	8:AH:123:PHE:CZ	2.43	0.52
8:AH:56:SER:HB3	8:AH:61:HIS:ND1	2.25	0.52
8:AH:74:ASN:HB2	8:AH:138:LYS:HZ3	1.72	0.52
31:AI:30:GLN:O	31:AI:32:LEU:N	2.34	0.52
1:AA:1080:C:C1'	32:AJ:129:GLY:HA3	2.35	0.52
9:AK:13:TRP:O	9:AK:14:VAL:CG2	2.56	0.52
10:AL:120:GLU:N	34:BA:347:G:OP2	2.42	0.52
11:AM:114:ILE:HG23	11:AM:122:PRO:O	2.09	0.52
11:AM:90:ARG:N	11:AM:125:VAL:HG22	2.24	0.52
1:AA:2468:G:H4'	12:AN:120:ILE:CD1	2.40	0.52
12:AN:39:PRO:HA	12:AN:127:ILE:HG21	1.91	0.52
12:AN:130:LYS:HZ1	12:AN:132:VAL:CG1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:25:ALA:CA	13:AO:48:VAL:HG22	2.39	0.52
13:AO:34:ILE:O	13:AO:113:LEU:HA	2.10	0.52
13:AO:57:ARG:HE	13:AO:62:ALA:CB	2.17	0.52
13:AO:73:VAL:O	13:AO:76:VAL:N	2.43	0.52
14:AP:65:VAL:HG23	14:AP:66:ALA:N	2.25	0.52
1:AA:532:A:N6	16:AR:45:TYR:HH	2.04	0.52
1:AA:1151:G:C5'	16:AR:81:HIS:NE2	2.63	0.52
17:AS:35:LEU:C	17:AS:61:VAL:HG13	2.30	0.52
19:AU:47:PHE:HE2	19:AU:89:ILE:CA	2.08	0.52
20:AV:19:LYS:C	20:AV:21:LYS:H	2.12	0.52
21:AW:18:LEU:HD11	21:AW:38:TYR:CG	2.45	0.52
21:AW:99:TYR:CD1	21:AW:126:VAL:CG2	2.93	0.52
22:AX:57:PHE:HD1	22:AX:57:PHE:N	2.08	0.52
34:BA:1114:C:O2	34:BA:1114:C:H2'	2.08	0.52
34:BA:1170:A:C8	34:BA:1171:G:C8	2.98	0.52
34:BA:1184:G:C2	34:BA:1185:G:C5	2.97	0.52
34:BA:1216:G:OP1	47:BR:3:ARG:NH2	2.43	0.52
34:BA:1339:A:H8	34:BA:1339:A:O5'	1.92	0.52
34:BA:1413:A:C4	34:BA:1488:G:C2	2.97	0.52
34:BA:1429:C:O2'	34:BA:1430:C:O5'	2.23	0.52
34:BA:1486:G:N2	34:BA:1487:G:N3	2.56	0.52
34:BA:1497:G:H2'	34:BA:1498:U:H5'	1.91	0.52
34:BA:250:A:N3	34:BA:252:U:C2	2.77	0.52
34:BA:355:C:C4	34:BA:356:A:N7	2.78	0.52
34:BA:467:G:N2	34:BA:468:A:C4	2.78	0.52
34:BA:529:G:H1	45:BP:49:ASN:CB	2.15	0.52
34:BA:608:A:C2	34:BA:609:A:O4'	2.62	0.52
34:BA:817:C:O2	34:BA:817:C:H2'	2.09	0.52
34:BA:857:C:C2	34:BA:858:G:H1'	2.45	0.52
34:BA:939:G:H2'	34:BA:940:C:C5	2.44	0.52
34:BA:977:A:N6	34:BA:1224:G:OP1	2.42	0.52
1:AA:1852:C:OP1	55:BC:72:C:C4'	2.58	0.52
56:BE:52:G:H1	56:BE:62:C:H42	1.57	0.52
35:BF:169:LYS:C	35:BF:171:ALA:N	2.62	0.52
35:BF:208:ILE:HG21	35:BF:239:VAL:CG1	2.37	0.52
36:BG:119:ARG:HG2	36:BG:120:VAL:N	2.25	0.52
37:BH:137:SER:O	37:BH:138:TYR:C	2.47	0.52
38:BI:136:MET:HA	38:BI:139:LEU:CD1	2.40	0.52
38:BI:56:GLN:CD	38:BI:56:GLN:H	2.12	0.52
39:BJ:41:GLU:HG2	39:BJ:42:GLU:N	2.24	0.52
41:BL:10:LEU:HD11	41:BL:85:ARG:CD	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:113:LYS:NZ	42:BM:119:ALA:CB	2.72	0.52
34:BA:1342:C:C4'	42:BM:125:TYR:HB2	2.37	0.52
42:BM:32:ASP:OD1	42:BM:35:GLU:HB2	2.10	0.52
42:BM:4:TYR:CE1	42:BM:59:PHE:CE2	2.91	0.52
42:BM:97:LYS:CE	42:BM:102:LEU:HD22	2.40	0.52
34:BA:1202:G:N7	43:BN:53:PRO:CB	2.72	0.52
43:BN:87:THR:HG22	43:BN:87:THR:O	2.09	0.52
46:BQ:52:GLU:HG2	46:BQ:55:ARG:CZ	2.40	0.52
50:BU:4:LYS:O	50:BU:5:VAL:CG2	2.57	0.52
51:BV:61:LYS:HB3	51:BV:62:GLU:OE1	2.09	0.52
52:BW:27:GLU:OE2	52:BW:29:ARG:HA	2.10	0.52
53:BX:15:ARG:O	53:BX:16:HIS:C	2.47	0.52
53:BX:37:SER:O	53:BX:41:ILE:HG13	2.09	0.52
57:BZ:403:VAL:HG21	57:BZ:466:TYR:CD1	2.45	0.52
1:AA:1019:U:O2	1:AA:1144:G:N2	2.42	0.52
1:AA:1023:U:C2	1:AA:1024:G:H4'	2.44	0.52
1:AA:1052:C:H2'	1:AA:1053:C:C6	2.44	0.52
1:AA:1074:G:O2'	1:AA:1075:C:O5'	2.18	0.52
1:AA:1005:C:C5	1:AA:1142(A):A:O3'	2.63	0.52
1:AA:1256:G:C6	1:AA:1257:C:N4	2.77	0.52
1:AA:1265:A:H1'	1:AA:1267:U:O4	2.08	0.52
1:AA:1306:C:H2'	1:AA:1307:A:O4'	2.10	0.52
1:AA:1449(A):G:C6	1:AA:1450:C:N4	2.78	0.52
1:AA:1517:G:N2	1:AA:1518:C:H1'	2.23	0.52
1:AA:742:G:C4'	1:AA:1675:C:O2'	2.57	0.52
1:AA:1726:G:C5	1:AA:1727:U:O4	2.62	0.52
1:AA:1807:G:N2	1:AA:1809:A:H5'	2.22	0.52
1:AA:1363:C:O2'	1:AA:1809:A:N7	2.38	0.52
1:AA:2033:A:O2'	1:AA:2034:U:P	2.68	0.52
1:AA:2051:A:H8	1:AA:2051:A:OP2	1.92	0.52
1:AA:210:C:O2'	1:AA:211:A:H5'	2.10	0.52
1:AA:2183:C:H2'	1:AA:2183:C:O2	2.08	0.52
1:AA:2302:G:C6	1:AA:2315:G:C6	2.98	0.52
1:AA:2343:C:O2	1:AA:2344:U:H6	1.93	0.52
1:AA:2389:G:C5'	1:AA:2390:U:H6	2.21	0.52
1:AA:2554:U:H5	1:AA:2556:C:N3	2.06	0.52
1:AA:2568:C:O2'	1:AA:2569:G:H5'	2.10	0.52
1:AA:2505:G:O6	1:AA:2576:G:C8	2.63	0.52
1:AA:2617:C:C2	1:AA:2618:G:C8	2.98	0.52
1:AA:2630:G:N2	1:AA:2789:C:C2	2.77	0.52
1:AA:2630:G:O2'	1:AA:2892:A:O2'	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2651:C:N4	1:AA:2670:A:N6	2.58	0.52
1:AA:2659:G:H1'	1:AA:2663:G:H1	1.74	0.52
1:AA:2720:U:H3'	1:AA:2721:A:H8	1.73	0.52
1:AA:2753:A:N3	1:AA:2753:A:H2'	2.24	0.52
1:AA:279:C:N4	1:AA:359:A:C1'	2.67	0.52
1:AA:290:G:C3'	1:AA:290:G:C8	2.91	0.52
1:AA:307:G:N2	1:AA:310:A:O4'	2.41	0.52
1:AA:335:C:N3	1:AA:336:C:C5	2.78	0.52
1:AA:428:A:H5'	1:AA:429:A:OP2	2.09	0.52
1:AA:52:A:H8	1:AA:52:A:O5'	1.92	0.52
1:AA:572:A:C8	1:AA:573:G:C4	2.98	0.52
1:AA:70:G:H4'	1:AA:71:A:O5'	2.10	0.52
1:AA:78:A:H2'	1:AA:79:G:C8	2.45	0.52
1:AA:852:G:C6	1:AA:853:G:N7	2.78	0.52
1:AA:874:G:N1	1:AA:875:G:C6	2.77	0.52
1:AA:902:C:C2'	1:AA:903:C:C2	2.86	0.52
1:AA:912:C:O2'	1:AA:913:U:H5'	2.10	0.52
1:AA:945:A:H3'	1:AA:946:G:H5''	1.91	0.52
1:AA:962:G:C3'	1:AA:963:U:H6	2.23	0.52
2:AB:33:G:N2	2:AB:34:U:C2	2.77	0.52
2:AB:30:C:O4'	2:AB:58:A:C2	2.62	0.52
2:AB:81:G:C6	2:AB:82:G:C5	2.97	0.52
3:AC:131:LEU:O	3:AC:134:ARG:HB2	2.08	0.52
3:AC:46:LYS:HD3	3:AC:46:LYS:O	2.10	0.52
4:AD:13:ARG:HD3	4:AD:22:SER:HB2	1.90	0.52
4:AD:199:ALA:O	4:AD:200:ASP:C	2.48	0.52
4:AD:183:ARG:HG2	4:AD:268:ARG:HD2	1.92	0.52
4:AD:96:HIS:CG	4:AD:102:LYS:HG2	2.44	0.52
6:AF:122:LYS:CD	6:AF:192:LEU:HD12	2.40	0.52
7:AG:26:GLN:OE1	7:AG:29:TRP:CE3	2.63	0.52
8:AH:98:LEU:C	8:AH:100:GLY:H	2.12	0.52
8:AH:164:TYR:HD2	8:AH:166:GLY:H	1.56	0.52
1:AA:1061:U:C2'	32:AJ:52:ILE:HD13	2.28	0.52
9:AK:72:TYR:CE1	9:AK:74:ARG:HB3	2.45	0.52
9:AK:89:LYS:HE3	9:AK:89:LYS:N	2.22	0.52
10:AL:68:GLU:HG2	10:AL:76:ALA:CA	2.39	0.52
11:AM:116:GLY:CA	11:AM:121:LYS:HB3	2.40	0.52
12:AN:134:ARG:NE	12:AN:137:TYR:CA	2.64	0.52
12:AN:44:ALA:CB	12:AN:93:TYR:O	2.58	0.52
1:AA:2820:A:H4'	13:AO:4:LEU:HD22	1.92	0.52
14:AP:35:ILE:O	14:AP:36:TYR:CB	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:66:ALA:O	14:AP:67:ARG:C	2.48	0.52
14:AP:9:ARG:H	14:AP:9:ARG:HH11	1.48	0.52
15:AQ:103:ARG:O	15:AQ:107:ASP:OD1	2.28	0.52
15:AQ:113:LYS:O	15:AQ:114:LEU:O	2.27	0.52
15:AQ:68:TYR:C	15:AQ:68:TYR:CD1	2.81	0.52
17:AS:65:GLY:N	17:AS:97:LYS:HZ1	2.08	0.52
18:AT:8:ARG:C	18:AT:102:HIS:HD2	2.12	0.52
18:AT:58:ALA:HA	18:AT:62:HIS:HB3	1.90	0.52
1:AA:1338:G:O2'	19:AU:16:LYS:HD3	2.08	0.52
21:AW:77:ASP:OD1	21:AW:78:LYS:HG2	2.09	0.52
21:AW:30:ASN:CB	21:AW:90:VAL:HG23	2.27	0.52
22:AX:19:LYS:HG2	22:AX:20:ARG:N	2.21	0.52
34:BA:1002:G:N2	34:BA:1039:C:N4	2.58	0.52
34:BA:1064:G:OP1	34:BA:1386:G:C5'	2.58	0.52
34:BA:1164:G:C5	34:BA:1165:C:N4	2.77	0.52
34:BA:1188:A:C8	34:BA:1188:A:OP2	2.62	0.52
34:BA:1240:U:H2'	40:BK:32:ARG:NH2	2.20	0.52
34:BA:127:G:N2	34:BA:128:G:H1'	2.24	0.52
34:BA:1292:U:OP2	34:BA:1292:U:H6	1.92	0.52
34:BA:1310:G:O2'	34:BA:1311:G:H5'	2.09	0.52
34:BA:1361:G:N7	34:BA:1362:C:C5	2.77	0.52
34:BA:1376:U:O4	40:BK:10:ARG:HD2	2.10	0.52
34:BA:1430:C:C2	34:BA:1431:C:C5	2.93	0.52
34:BA:281:G:O2'	34:BA:282:A:H8	1.92	0.52
34:BA:320:C:O2'	34:BA:321:A:H5'	2.10	0.52
34:BA:424:G:O2'	34:BA:425:G:H5'	2.09	0.52
34:BA:533:A:OP2	34:BA:533:A:O4'	2.27	0.52
34:BA:85:U:H2'	34:BA:86:U:C5'	2.40	0.52
34:BA:88:C:C2'	34:BA:89:U:OP2	2.58	0.52
34:BA:20:U:H6	34:BA:916:G:N2	2.08	0.52
35:BF:91:PRO:CG	35:BF:155:LEU:H	2.23	0.52
35:BF:35:GLU:O	35:BF:36:ARG:NH2	2.43	0.52
35:BF:52:GLU:CD	35:BF:53:ARG:H	2.13	0.52
35:BF:82:ARG:CB	35:BF:94:ASN:HD21	2.22	0.52
36:BG:125:GLU:O	36:BG:127:ARG:HG3	2.09	0.52
37:BH:10:ARG:HH11	37:BH:11:LEU:HD23	1.74	0.52
37:BH:171:GLY:HA3	37:BH:173:TRP:CZ3	2.44	0.52
37:BH:30:LYS:CG	37:BH:35:ARG:HD2	2.39	0.52
38:BI:122:GLU:CB	38:BI:126:ARG:HG3	2.39	0.52
39:BJ:14:LEU:CD1	39:BJ:19:LEU:N	2.66	0.52
41:BL:97:VAL:HG13	41:BL:98:LYS:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:78:LYS:NZ	42:BM:101:PHE:HE2	1.96	0.52
44:BO:33:THR:HA	44:BO:38:ASN:O	2.10	0.52
45:BP:118:SER:O	45:BP:121:GLY:HA2	2.09	0.52
46:BQ:97:PRO:HG2	46:BQ:101:GLN:HB2	1.91	0.52
47:BR:26:ARG:HE	47:BR:43:CYS:C	2.11	0.52
48:BS:78:TYR:O	48:BS:81:LEU:HB3	2.10	0.52
49:BT:43:LYS:HE3	49:BT:48:TRP:HZ3	1.74	0.52
50:BU:20:THR:C	50:BU:21:VAL:HG13	2.30	0.52
34:BA:1319:A:O5'	52:BW:37:ARG:HB3	2.09	0.52
53:BX:79:ARG:HG3	53:BX:79:ARG:HH11	1.73	0.52
57:BZ:284:ILE:HG22	57:BZ:284:ILE:O	2.09	0.52
57:BZ:419:LEU:CD1	57:BZ:441:TYR:HB2	2.40	0.52
57:BZ:422:ARG:O	57:BZ:423:LYS:HB2	2.09	0.52
57:BZ:520:GLU:CD	57:BZ:593:THR:N	2.62	0.52
57:BZ:563:MET:HA	57:BZ:563:MET:HE1	1.92	0.52
57:BZ:64:ILE:N	57:BZ:65:LYS:CA	2.73	0.52
31:AI:54:ALA:C	31:AI:83:TYR:O	2.47	0.52
56:BD:6:G:N1	56:BD:67:C:N4	2.54	0.52
57:BZ:258:LEU:CD1	57:BZ:260:LEU:HD13	2.38	0.52
1:AA:1074:G:H2'	1:AA:1075:C:C5	2.45	0.52
1:AA:112:U:OP2	1:AA:112:U:H6	1.93	0.52
1:AA:1148:A:N1	1:AA:1149:G:C5	2.77	0.52
1:AA:1163:G:O2'	1:AA:1164:G:H5'	2.08	0.52
1:AA:120:U:C6	1:AA:150:C:H5	2.28	0.52
1:AA:1358:G:C8	1:AA:1371:G:N1	2.78	0.52
1:AA:1360:A:C2'	1:AA:1361:G:H5'	2.40	0.52
1:AA:141(A):C:H6	1:AA:141(A):C:O5'	1.92	0.52
1:AA:1428:C:HO2'	1:AA:1429:G:P	2.31	0.52
1:AA:1442:G:C2	1:AA:1443:G:C5	2.98	0.52
1:AA:1528:A:N7	1:AA:1529:A:C6	2.78	0.52
1:AA:1812:A:C4	1:AA:1813:G:C8	2.97	0.52
1:AA:1879:C:H2'	1:AA:1880:C:O4'	2.09	0.52
1:AA:2176:A:O3'	3:AC:222:VAL:CA	2.58	0.52
1:AA:2226:C:C2	4:AD:262:ARG:NH2	2.77	0.52
1:AA:2230:G:O2'	1:AA:2231:C:H5'	2.09	0.52
1:AA:2287:A:C2'	1:AA:2288:A:O5'	2.58	0.52
1:AA:2328:A:H2'	1:AA:2329:G:C8	2.45	0.52
1:AA:2366:A:H3'	1:AA:2367:G:C8	2.45	0.52
1:AA:2412:A:H3'	1:AA:2413:G:H8	1.74	0.52
1:AA:195:A:H4'	1:AA:251:A:C4'	2.40	0.52
1:AA:2573:C:H6	1:AA:2573:C:O5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2588:G:N1	1:AA:2607:G:C6	2.77	0.52
1:AA:2699:C:O2'	1:AA:2700:C:H5'	2.09	0.52
1:AA:2718:G:C6	1:AA:2719:G:C5	2.97	0.52
1:AA:221:A:O2'	1:AA:271(B):G:N1	2.43	0.52
1:AA:2749:A:C2	1:AA:2750:A:N6	2.77	0.52
1:AA:2751:G:H2'	1:AA:2751:G:N3	2.23	0.52
1:AA:2799:A:H4'	1:AA:2802:G:C2	2.44	0.52
1:AA:2811:G:H22	1:AA:2891:G:H1'	1.75	0.52
1:AA:2845:G:OP1	15:AQ:57:PHE:O	2.27	0.52
1:AA:2876:G:C2	1:AA:2877:G:N7	2.77	0.52
1:AA:306:U:O4	1:AA:310:A:N7	2.43	0.52
1:AA:386:G:O5'	1:AA:388:G:N2	2.43	0.52
1:AA:423:A:H2'	1:AA:424:G:OP1	2.10	0.52
1:AA:308:G:N7	1:AA:501:A:C4	2.78	0.52
1:AA:595:C:C2	1:AA:596:G:C8	2.98	0.52
1:AA:637:A:H2	1:AA:651:G:C4'	2.23	0.52
1:AA:650:C:C4	1:AA:651:G:C2	2.97	0.52
1:AA:772:C:H2'	1:AA:773:U:C6	2.45	0.52
1:AA:775:G:C2'	1:AA:794:G:C8	2.89	0.52
1:AA:814:C:N3	1:AA:815:C:C5	2.78	0.52
1:AA:872:A:O2'	12:AN:66:ILE:HD13	2.09	0.52
1:AA:937:U:H2'	1:AA:938:G:O4'	2.09	0.52
1:AA:960:A:C5'	1:AA:961:C:OP1	2.54	0.52
1:AA:970:C:O2'	1:AA:984:A:O2'	2.12	0.52
1:AA:916:G:O2'	2:AB:99:A:H1'	2.10	0.52
3:AC:189:ILE:HD11	3:AC:214:VAL:HG21	1.92	0.52
4:AD:144:ALA:O	4:AD:145:VAL:O	2.27	0.52
4:AD:148:GLU:HB2	4:AD:154:LYS:NZ	2.13	0.52
1:AA:2051:A:C3'	5:AE:141:ILE:HD11	2.38	0.52
5:AE:154:LYS:NZ	5:AE:156:MET:CB	2.71	0.52
5:AE:199:ARG:CD	5:AE:199:ARG:N	2.71	0.52
5:AE:5:LEU:O	5:AE:195:LEU:CD2	2.58	0.52
6:AF:103:LYS:HA	6:AF:106:ARG:NE	2.24	0.52
6:AF:22:ALA:HB1	6:AF:115:ALA:HB2	1.92	0.52
6:AF:56:GLU:O	6:AF:60:SER:N	2.43	0.52
7:AG:35:GLU:HA	7:AG:100:TRP:CH2	2.44	0.52
9:AK:23:LEU:HD11	9:AK:62:VAL:CA	2.39	0.52
9:AK:23:LEU:HG	9:AK:61:ARG:O	2.10	0.52
10:AL:13:ASN:O	10:AL:14:THR:O	2.26	0.52
10:AL:19:ILE:C	10:AL:19:ILE:CD1	2.78	0.52
12:AN:35:VAL:HA	12:AN:101:ARG:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:66:ILE:O	12:AN:67:ARG:CB	2.57	0.52
1:AA:1277:G:O2'	13:AO:24:GLN:HG2	2.10	0.52
13:AO:65:LEU:C	13:AO:65:LEU:CD2	2.77	0.52
13:AO:67:LEU:HD21	13:AO:72:ASP:H	1.74	0.52
13:AO:67:LEU:HD23	13:AO:76:VAL:CG2	2.40	0.52
13:AO:96:ARG:HD2	13:AO:115:GLU:OE1	2.09	0.52
14:AP:70:GLY:O	14:AP:71:ARG:C	2.47	0.52
14:AP:77:ALA:HA	14:AP:80:LEU:HB2	1.90	0.52
14:AP:97:ARG:HH21	14:AP:97:ARG:CG	2.23	0.52
15:AQ:53:ARG:NH2	15:AQ:102:ILE:CG1	2.72	0.52
15:AQ:65:LYS:CE	15:AQ:75:ILE:HD13	2.39	0.52
16:AR:48:ALA:CA	16:AR:51:LYS:HD2	2.38	0.52
16:AR:55:ARG:HH11	16:AR:55:ARG:CG	2.04	0.52
21:AW:149:SER:OG	21:AW:173:ALA:HB2	2.10	0.52
22:AX:22:GLY:O	22:AX:38:VAL:HA	2.10	0.52
22:AX:44:ARG:HG2	22:AX:77:ARG:HG3	1.91	0.52
23:AY:52:ILE:HG23	23:AY:55:LEU:HD22	1.90	0.52
23:AY:58:VAL:O	23:AY:61:GLU:N	2.42	0.52
34:BA:1064:G:O2'	34:BA:1065:U:H1'	2.10	0.52
34:BA:1116:C:C2	34:BA:1117:G:N7	2.78	0.52
34:BA:1210:C:O2'	34:BA:1214:C:N3	2.38	0.52
34:BA:1232:U:OP1	42:BM:126:SER:HB2	2.10	0.52
34:BA:1302:U:O2'	34:BA:1303:C:P	2.67	0.52
34:BA:1308:U:H2'	34:BA:1309:G:C5'	2.40	0.52
34:BA:1343:G:H2'	34:BA:1344:C:O4'	2.10	0.52
34:BA:1347:G:HO2'	34:BA:1348:U:P	2.31	0.52
34:BA:135:C:C6	34:BA:135:C:C3'	2.93	0.52
34:BA:1362(A):C:H5'	34:BA:1363:A:OP1	2.10	0.52
34:BA:1484:C:C4	34:BA:1485:U:C5	2.98	0.52
34:BA:186(B):C:C4'	53:BX:89:ARG:HH22	2.23	0.52
34:BA:259:G:N2	34:BA:260:G:N3	2.58	0.52
34:BA:583:A:H2'	34:BA:584:G:O4'	2.10	0.52
34:BA:585:G:H2'	34:BA:586:C:H6	1.74	0.52
34:BA:675:A:N3	44:BO:116:HIS:HB2	2.25	0.52
34:BA:758:G:H2'	34:BA:759:A:OP2	2.10	0.52
34:BA:959:A:C2	34:BA:1221:G:N3	2.76	0.52
56:BE:21:A:O2'	56:BE:22:G:C4'	2.55	0.52
35:BF:103:THR:O	35:BF:104:ASN:CB	2.57	0.52
35:BF:80:ILE:HG12	35:BF:212:GLN:HG2	1.91	0.52
36:BG:144:SER:O	36:BG:144:SER:OG	2.22	0.52
36:BG:30:ARG:H	36:BG:30:ARG:CD	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:128:VAL:HG23	37:BH:133:VAL:N	2.25	0.52
37:BH:9:CYS:O	37:BH:12:CYS:HB2	2.10	0.52
37:BH:60:GLU:HA	37:BH:63:LYS:HZ3	1.75	0.52
38:BI:104:ALA:N	38:BI:107:ARG:HH12	2.06	0.52
38:BI:117:ASP:O	38:BI:118:ILE:HG13	2.09	0.52
38:BI:140:ARG:CZ	38:BI:140:ARG:CB	2.88	0.52
34:BA:932:C:OP1	40:BK:3:ARG:O	2.26	0.52
40:BK:56:GLN:H	40:BK:56:GLN:NE2	2.07	0.52
41:BL:68:ARG:N	41:BL:76:PRO:HG3	2.25	0.52
42:BM:79:LEU:HD22	42:BM:101:PHE:HD2	1.74	0.52
42:BM:58:HIS:HD2	42:BM:59:PHE:CD1	2.25	0.52
43:BN:79:ARG:HD3	43:BN:80:LYS:N	2.24	0.52
43:BN:19:SER:OG	43:BN:91:PRO:HG3	2.10	0.52
45:BP:104:VAL:O	45:BP:106:ASP:N	2.43	0.52
45:BP:32:PHE:HB3	45:BP:85:ILE:O	2.09	0.52
48:BS:54:ARG:NE	48:BS:58:MET:HE2	2.24	0.52
48:BS:64:ARG:O	48:BS:67:LEU:HB2	2.09	0.52
49:BT:58:TYR:O	49:BT:61:SER:CB	2.58	0.52
50:BU:35:VAL:HA	50:BU:36:ILE:HD13	1.90	0.52
50:BU:59:ILE:O	50:BU:59:ILE:HG23	2.08	0.52
50:BU:75:ARG:HH22	50:BU:77:VAL:CG2	2.13	0.52
52:BW:42:PRO:O	52:BW:44:MET:N	2.42	0.52
52:BW:4:SER:HB3	52:BW:42:PRO:HG3	1.91	0.52
53:BX:16:HIS:O	53:BX:17:ARG:C	2.48	0.52
53:BX:29:LYS:O	53:BX:32:ALA:N	2.42	0.52
57:BZ:19:THR:N	57:BZ:20:THR:CB	2.73	0.52
57:BZ:2:ILE:HG22	57:BZ:2:ILE:O	2.10	0.52
57:BZ:314:ASN:ND2	57:BZ:379:GLU:HB2	2.24	0.52
57:BZ:62:ALA:HA	57:BZ:187:TYR:HE2	1.64	0.52
57:BZ:88:VAL:HG12	57:BZ:92:VAL:CG2	2.40	0.52
56:BD:50:U:O4	56:BD:64:A:C2	2.58	0.52
1:AA:1039:G:P	1:AA:1039:G:C3'	2.94	0.52
1:AA:273(B):C:H2'	1:AA:273(C):C:H6	1.67	0.52
57:BZ:601:ASN:CA	57:BZ:602:ARG:CB	2.87	0.52
1:AA:487:C:C6	1:AA:487:C:C3'	2.93	0.52
51:BV:83:GLU:OE1	51:BV:83:GLU:HA	2.09	0.52
1:AA:1079:C:N4	1:AA:1088:A:C5'	2.66	0.52
1:AA:1082:U:C4	1:AA:1086:A:C2	2.97	0.52
1:AA:1168:G:C6	1:AA:1169:G:C6	2.98	0.52
1:AA:119:A:HO2'	1:AA:120:U:P	2.33	0.52
1:AA:119:A:O2'	1:AA:120:U:P	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1227:A:C8	1:AA:1228:G:H5''	2.45	0.52
1:AA:1236:G:O2'	1:AA:1237:A:O5'	2.28	0.52
1:AA:144:C:O2'	1:AA:145:G:H5'	2.10	0.52
1:AA:1597:A:O3'	1:AA:1598:C:H6	1.93	0.52
1:AA:1683:C:H6	1:AA:1683:C:O5'	1.93	0.52
1:AA:1746:G:OP2	1:AA:1746:G:C8	2.63	0.52
1:AA:1842:G:C6	1:AA:1901:A:N1	2.77	0.52
1:AA:1890:A:C2	1:AA:1891:G:H1'	2.45	0.52
1:AA:1993:U:C6	1:AA:1993:U:H3'	2.41	0.52
1:AA:19:C:N3	1:AA:20:C:C5	2.78	0.52
1:AA:2054:A:H62	1:AA:2577:A:N6	2.07	0.52
1:AA:215:G:H1'	1:AA:216:A:C4'	2.40	0.52
1:AA:2225:A:C4'	1:AA:2226:C:C6	2.93	0.52
1:AA:860:U:H5	1:AA:2267:A:O3'	1.92	0.52
1:AA:2341:G:C2'	1:AA:2342:C:C6	2.89	0.52
1:AA:2376:A:C2	1:AA:2377:A:H1'	2.44	0.52
1:AA:2617:C:O2'	1:AA:2618:G:H5'	2.09	0.52
1:AA:2651:C:C3'	1:AA:2652:C:H5''	2.40	0.52
1:AA:2656:U:H3	1:AA:2665:A:N6	2.08	0.52
1:AA:2664:G:H8	1:AA:2664:G:O5'	1.93	0.52
1:AA:2666:C:C6	1:AA:2667:C:H5'	2.45	0.52
1:AA:2776:A:C8	1:AA:2781:A:N7	2.77	0.52
1:AA:2808:U:C3'	1:AA:2809:A:C5'	2.85	0.52
1:AA:2857:G:H2'	1:AA:2858:C:C5'	2.39	0.52
1:AA:428:A:H2'	1:AA:428:A:N3	2.25	0.52
1:AA:535:C:H4'	16:AR:53:ARG:CD	2.32	0.52
1:AA:546:C:N3	1:AA:547:A:C6	2.78	0.52
1:AA:563:G:N2	16:AR:34:LYS:HZ3	2.06	0.52
1:AA:565:C:N3	1:AA:566:U:N3	2.58	0.52
1:AA:465:G:N2	1:AA:683:C:H2'	2.24	0.52
1:AA:707:G:H2'	1:AA:708:C:O4'	2.10	0.52
1:AA:716:A:C8	1:AA:717:G:O4'	2.63	0.52
1:AA:818:G:C2'	1:AA:819:A:H5''	2.39	0.52
1:AA:942:G:H1'	1:AA:1189:A:C2	2.44	0.52
1:AA:944:G:O2'	1:AA:945:A:OP2	2.26	0.52
2:AB:117:G:C2	2:AB:118:G:N7	2.78	0.52
2:AB:82:G:C2	2:AB:83:G:C8	2.98	0.52
1:AA:2121:G:C4'	3:AC:167:LYS:HZ3	2.22	0.52
3:AC:200:LYS:HZ1	3:AC:204:ALA:HB3	1.74	0.52
3:AC:209:LEU:HG	3:AC:212:VAL:HG23	1.92	0.52
4:AD:219:PRO:C	4:AD:220:HIS:CG	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:8:PRO:O	4:AD:25:THR:CG2	2.58	0.52
5:AE:103:ASP:O	5:AE:104:VAL:HG23	2.10	0.52
5:AE:127:ASP:CG	5:AE:135:HIS:H	2.12	0.52
5:AE:199:ARG:O	5:AE:200:GLU:CD	2.49	0.52
5:AE:67:PHE:O	5:AE:70:ALA:N	2.43	0.52
5:AE:91:VAL:HG13	5:AE:95:ILE:HD13	1.92	0.52
7:AG:107:LEU:HD22	7:AG:173:LEU:HD21	1.92	0.52
8:AH:122:THR:HB	8:AH:134:SER:OG	2.09	0.52
8:AH:137:ASP:OD2	8:AH:139:GLN:HG3	2.09	0.52
8:AH:69:ARG:O	8:AH:73:ALA:HB2	2.10	0.52
32:AJ:122:ALA:CB	32:AJ:126:MET:SD	2.98	0.52
9:AK:107:LEU:HD13	9:AK:117:PHE:CD2	2.45	0.52
9:AK:46:VAL:O	9:AK:47:ALA:HB3	2.08	0.52
10:AL:13:ASN:N	10:AL:94:ARG:HB3	2.25	0.52
11:AM:126:VAL:HG23	11:AM:127:ALA:N	2.25	0.52
11:AM:57:THR:O	11:AM:58:THR:OG1	2.26	0.52
12:AN:57:HIS:O	12:AN:59:ARG:N	2.42	0.52
13:AO:102:GLU:HG3	13:AO:103:ARG:H	1.75	0.52
13:AO:105:ARG:C	13:AO:107:ASP:H	2.13	0.52
13:AO:73:VAL:HB	13:AO:77:ARG:CZ	2.39	0.52
14:AP:31:SER:CB	14:AP:34:HIS:HB3	2.40	0.52
14:AP:40:ILE:CG2	14:AP:41:ASP:N	2.72	0.52
14:AP:13:ARG:NH2	14:AP:90:GLY:O	2.43	0.52
16:AR:85:LYS:HB3	16:AR:116:ALA:O	2.10	0.52
1:AA:1162:G:H4'	17:AS:23:GLU:O	2.09	0.52
17:AS:67:GLY:HA2	17:AS:94:LEU:HA	1.91	0.52
17:AS:74:LYS:C	17:AS:75:PHE:CD1	2.83	0.52
17:AS:81:TYR:O	17:AS:82:ARG:CB	2.56	0.52
18:AT:25:ARG:O	18:AT:71:VAL:HG13	2.10	0.52
21:AW:117:LEU:O	21:AW:174:VAL:HG12	2.09	0.52
21:AW:18:LEU:O	21:AW:19:ARG:C	2.48	0.52
21:AW:1:MET:HE3	21:AW:3:TYR:HD2	1.75	0.52
23:AY:59:LEU:HD11	23:AY:63:ARG:NE	2.24	0.52
24:AZ:14:GLY:C	24:AZ:15:TYR:CD1	2.83	0.52
34:BA:1150:U:H2'	34:BA:1151:A:C8	2.44	0.52
34:BA:1165:C:C2'	34:BA:1166:G:H5'	2.38	0.52
34:BA:1207:G:O2'	34:BA:1208:C:H5'	2.10	0.52
34:BA:1270:C:C3'	34:BA:1314:C:H5'	2.38	0.52
34:BA:1502:A:N3	34:BA:1502:A:C2'	2.73	0.52
34:BA:186(B):C:C2'	34:BA:186(C):G:H5'	2.39	0.52
34:BA:210:U:H4'	34:BA:216:G:O5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:22:G:C4	34:BA:23:C:C6	2.98	0.52
34:BA:333:G:C2	34:BA:334:C:C5	2.98	0.52
34:BA:393:A:H5'	34:BA:483:C:H4'	1.92	0.52
34:BA:515:G:H3'	34:BA:516:U:H6	1.73	0.52
34:BA:558:G:O5'	34:BA:559:A:C3'	2.58	0.52
34:BA:579:G:C4	34:BA:580:U:C6	2.98	0.52
34:BA:671:G:C2	34:BA:672:U:C2	2.98	0.52
34:BA:673:G:C2'	34:BA:674:G:C8	2.91	0.52
34:BA:848:C:C2	34:BA:849:C:C6	2.98	0.52
34:BA:954:G:H2'	34:BA:955:U:C6	2.45	0.52
56:BE:18:G:C5	56:BE:58:A:C2	2.98	0.52
35:BF:15:VAL:O	35:BF:16:HIS:HB2	2.08	0.52
35:BF:20:GLU:N	35:BF:39:ILE:HD11	2.25	0.52
35:BF:82:ARG:H	35:BF:94:ASN:ND2	2.04	0.52
36:BG:14:ILE:CG2	36:BG:179:ARG:HA	2.30	0.52
37:BH:173:TRP:CD1	37:BH:189:PRO:CB	2.91	0.52
37:BH:187:ARG:O	37:BH:188:LEU:C	2.48	0.52
37:BH:25:ARG:C	37:BH:27:TYR:N	2.59	0.52
37:BH:61:LYS:HA	37:BH:203:VAL:CG2	2.39	0.52
38:BI:150:ARG:C	38:BI:150:ARG:HD3	2.29	0.52
38:BI:78:HIS:ND1	41:BL:107:LEU:CD1	2.64	0.52
40:BK:87:VAL:HB	40:BK:156:TRP:CZ3	2.45	0.52
40:BK:20:ASP:OD1	40:BK:22:LEU:HB2	2.10	0.52
41:BL:102:ARG:HH21	41:BL:105:ARG:HA	1.74	0.52
41:BL:86:ILE:HG22	41:BL:87:SER:N	2.24	0.52
41:BL:9:MET:O	41:BL:10:LEU:C	2.48	0.52
42:BM:115:GLY:C	42:BM:117:HIS:H	2.13	0.52
43:BN:8:LEU:CD1	43:BN:16:LEU:HA	2.39	0.52
49:BT:38:TYR:O	49:BT:49:LEU:HD12	2.10	0.52
53:BX:33:ILE:HD11	53:BX:62:LEU:O	2.10	0.52
57:BZ:144:VAL:HG12	57:BZ:144:VAL:O	2.10	0.52
57:BZ:233:PRO:HB3	57:BZ:234:ASN:CB	2.40	0.52
56:BD:49:C:H2'	56:BD:49:C:O2	2.09	0.52
56:BD:6:G:C6	56:BD:67:C:C4	2.94	0.52
57:BZ:495:LYS:HA	57:BZ:517:GLU:N	2.25	0.52
57:BZ:538:LEU:CB	57:BZ:539:THR:CB	2.85	0.52
9:AK:6:PRO:HB3	9:AK:41:ASP:HB3	1.92	0.52
34:BA:1028(B):C:O2	34:BA:1028(B):C:C2'	2.58	0.52
1:AA:1024:G:OP2	1:AA:1025:G:N2	2.43	0.52
1:AA:1115:G:N2	1:AA:1116:C:C2	2.78	0.52
1:AA:1116:C:C6	1:AA:1116:C:OP2	2.61	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1137:G:C5	1:AA:1138:G:H1'	2.44	0.52
1:AA:1139:G:C5'	9:AK:24:GLY:HA3	2.40	0.52
1:AA:1157:G:C6	1:AA:1158:C:C4	2.98	0.52
1:AA:1189:A:N7	1:AA:1190:G:C8	2.78	0.52
1:AA:1212:G:N7	1:AA:1235:G:C6	2.78	0.52
1:AA:1264:G:OP2	1:AA:1265:A:C2	2.63	0.52
1:AA:1299:G:H5'	1:AA:1301:A:C1'	2.39	0.52
1:AA:1335:U:OP2	19:AU:65:ARG:CZ	2.58	0.52
1:AA:1464:C:H5'	1:AA:1528:A:HO2'	1.74	0.52
1:AA:129:C:H5'	1:AA:1599:C:O2'	2.10	0.52
1:AA:1787:A:C2'	1:AA:1788:C:H5'	2.40	0.52
1:AA:1861:G:N2	1:AA:1862:G:H1'	2.25	0.52
1:AA:1784:A:C8	1:AA:1981:A:C4	2.97	0.52
1:AA:1993:U:C6	1:AA:1993:U:C3'	2.92	0.52
1:AA:1995:U:C5'	1:AA:1996:C:C5'	2.65	0.52
1:AA:1996:C:C6	1:AA:1996:C:C4'	2.92	0.52
1:AA:2128:C:N4	1:AA:2129:C:N4	2.58	0.52
1:AA:2152:G:H5''	3:AC:2:LYS:HB3	1.80	0.52
1:AA:2113:U:H3	1:AA:2169:A:H61	1.58	0.52
1:AA:2274:A:C5	1:AA:2276:G:C8	2.98	0.52
1:AA:2331:G:C5	1:AA:2332:U:C2	2.97	0.52
1:AA:2352:A:C2'	1:AA:2353:G:O4'	2.56	0.52
1:AA:243:U:N3	1:AA:244:A:C8	2.77	0.52
1:AA:2497:A:O2'	1:AA:2498:C:C5	2.61	0.52
1:AA:2602:A:O2'	22:AX:1:MET:HB2	2.10	0.52
1:AA:263:C:O2	1:AA:264:C:O4'	2.27	0.52
1:AA:2671:A:C2	1:AA:2672:G:C6	2.98	0.52
1:AA:2673:G:N2	1:AA:2674:G:C4	2.78	0.52
1:AA:2735:G:H4'	5:AE:203:LYS:HE3	1.92	0.52
1:AA:2768:C:C2	1:AA:2769:C:C6	2.98	0.52
1:AA:2773:C:C2	1:AA:2774:C:C5	2.98	0.52
1:AA:2630:G:H1	1:AA:2789:C:H42	1.55	0.52
1:AA:2848:G:H8	15:AQ:99:LEU:CD1	2.16	0.52
1:AA:2834:G:C5	1:AA:2879:C:C4	2.97	0.52
1:AA:2791:C:OP2	1:AA:2893:G:C4	2.62	0.52
1:AA:299:A:H5''	1:AA:300:A:OP2	2.09	0.52
1:AA:360:G:C2'	1:AA:361:G:H5'	2.40	0.52
1:AA:410:G:C6	1:AA:411:G:O6	2.62	0.52
1:AA:481:G:O2'	1:AA:482:A:H8	1.92	0.52
1:AA:506:G:O2'	1:AA:507:A:H8	1.91	0.52
1:AA:511:U:C4	1:AA:512:G:H1'	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:532:A:C8	1:AA:533:G:H1'	2.41	0.52
1:AA:543:C:C2	1:AA:551:G:C2	2.98	0.52
1:AA:619:G:C8	1:AA:619:G:C3'	2.89	0.52
1:AA:638:G:C8	1:AA:638:G:C3'	2.92	0.52
1:AA:774:A:H5''	1:AA:778:G:C4'	2.40	0.52
1:AA:789:A:OP1	1:AA:789:A:C3'	2.51	0.52
1:AA:815:C:C2'	1:AA:816:C:C5'	2.88	0.52
2:AB:90:C:H2'	2:AB:91:C:C6	2.44	0.52
3:AC:100:ILE:HG12	3:AC:127:LEU:HD12	1.91	0.52
3:AC:175:VAL:HB	3:AC:185:LEU:O	2.10	0.52
1:AA:2174:C:C2	3:AC:219:GLY:N	2.75	0.52
4:AD:182:LEU:N	4:AD:270:ILE:HG13	2.25	0.52
5:AE:13:ARG:HG3	5:AE:13:ARG:HH11	4.53	0.52
5:AE:5:LEU:CD2	5:AE:5:LEU:C	2.77	0.52
6:AF:133:ASN:CG	6:AF:162:LEU:HD13	2.31	0.52
1:AA:616:A:H1'	6:AF:180:GLY:HA3	1.91	0.52
7:AG:36:LYS:HG3	7:AG:160:VAL:CG2	2.40	0.52
7:AG:85:GLY:O	7:AG:86:MET:CB	2.57	0.52
7:AG:38:VAL:CG1	7:AG:93:THR:HG23	2.40	0.52
32:AJ:21:PRO:N	32:AJ:22:PRO:CD	2.73	0.52
9:AK:33:LEU:HD13	9:AK:34:LEU:CG	2.35	0.52
10:AL:113:LYS:NZ	10:AL:117:LEU:HB2	2.25	0.52
10:AL:15:GLY:O	10:AL:47:ILE:HA	2.10	0.52
10:AL:35:VAL:HA	10:AL:61:VAL:HG11	1.85	0.52
1:AA:662:G:C5'	11:AM:17:LYS:H	2.22	0.52
12:AN:114:ALA:O	12:AN:115:MET:C	2.45	0.52
12:AN:46:GLN:HE22	12:AN:126:PRO:HG3	1.74	0.52
12:AN:8:LYS:HZ1	12:AN:72:LYS:C	2.13	0.52
12:AN:94:VAL:HG23	12:AN:95:ALA:H	1.67	0.52
1:AA:2882:A:H5''	13:AO:98:LEU:HD21	1.90	0.52
15:AQ:104:ASN:CA	15:AQ:108:ARG:HH12	2.23	0.52
15:AQ:30:VAL:O	15:AQ:49:VAL:HA	2.09	0.52
16:AR:106:PHE:HA	16:AR:109:LEU:HD12	1.92	0.52
16:AR:55:ARG:HA	16:AR:58:ARG:CZ	2.40	0.52
16:AR:53:ARG:O	16:AR:57:PHE:HD1	1.92	0.52
1:AA:1249:U:HO2'	16:AR:6:THR:HG21	1.75	0.52
18:AT:89:ALA:C	18:AT:91:GLY:N	2.63	0.52
19:AU:58:HIS:CE1	19:AU:77:LYS:HE3	2.44	0.52
19:AU:60:ARG:HD3	19:AU:62:LYS:HZ1	1.74	0.52
19:AU:73:ARG:HG2	19:AU:74:PRO:CD	2.34	0.52
19:AU:79:ALA:C	19:AU:80:ILE:HD13	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:98:VAL:O	20:AV:99:CYS:C	2.47	0.52
21:AW:127:LYS:HA	21:AW:164:ALA:N	2.21	0.52
21:AW:141:VAL:HG12	21:AW:143:GLY:H	1.73	0.52
21:AW:68:PRO:HB2	21:AW:131:ARG:HH12	1.75	0.52
1:AA:2332:U:P	22:AX:43:THR:HB	2.50	0.52
1:AA:858:U:OP1	22:AX:44:ARG:NH2	2.43	0.52
1:AA:988:A:OP1	24:AZ:10:LYS:HD3	2.10	0.52
34:BA:1083:U:H3'	34:BA:1084:G:H8	1.74	0.52
34:BA:1246:C:H2'	34:BA:1247:U:H6	1.75	0.52
34:BA:1293:G:C4	34:BA:1294:G:C8	2.98	0.52
34:BA:1400:C:C5	34:BA:1400:C:OP1	2.63	0.52
34:BA:186(C):G:C6	34:BA:186(D):C:C4	2.98	0.52
34:BA:226:G:C2	34:BA:227:G:C4	2.97	0.52
34:BA:355:C:N4	34:BA:356:A:N6	2.56	0.52
34:BA:587:G:H1'	34:BA:755:G:C2	2.41	0.52
34:BA:652:U:H1'	34:BA:653:A:C2	2.45	0.52
34:BA:706:A:N3	34:BA:707:C:C6	2.78	0.52
34:BA:886:G:H2'	34:BA:887:G:C5'	2.40	0.52
56:BE:72:C:C3'	56:BE:73:A:H5''	2.40	0.52
35:BF:219:VAL:HA	35:BF:222:ILE:HD11	1.90	0.52
35:BF:9:GLU:OE1	35:BF:12:GLU:HG2	2.10	0.52
36:BG:12:LEU:HD21	47:BR:57:ARG:HG2	1.91	0.52
37:BH:25:ARG:NH1	37:BH:30:LYS:HB3	2.25	0.52
37:BH:62:GLN:O	37:BH:66:ARG:HD2	2.10	0.52
38:BI:109:ILE:CD1	38:BI:135:THR:HB	2.34	0.52
38:BI:80:ILE:H	38:BI:80:ILE:HD12	1.75	0.52
39:BJ:52:ILE:CG2	39:BJ:53:ALA:N	2.71	0.52
39:BJ:61:LEU:HD22	39:BJ:63:TYR:OH	2.09	0.52
40:BK:152:ALA:O	40:BK:154:TYR:N	2.43	0.52
41:BL:100:ILE:HG23	41:BL:121:ASP:HA	1.92	0.52
43:BN:72:VAL:HG12	43:BN:73:ASP:N	2.25	0.52
34:BA:779:C:H4'	44:BO:120:ARG:O	2.10	0.52
46:BQ:37:THR:HA	46:BQ:56:LEU:CB	2.17	0.52
46:BQ:65:LYS:HB2	46:BQ:66:LEU:O	2.09	0.52
49:BT:18:ARG:NH1	49:BT:32:TYR:CE2	2.78	0.52
49:BT:19:ILE:CB	49:BT:37:GLY:O	2.51	0.52
50:BU:27:PHE:O	50:BU:36:ILE:CD1	2.57	0.52
51:BV:75:ILE:O	51:BV:76:LEU:C	2.45	0.52
52:BW:6:LYS:CD	52:BW:7:LYS:H	2.22	0.52
53:BX:91:LEU:HD23	53:BX:91:LEU:H	1.74	0.52
57:BZ:131:ASP:CG	57:BZ:166:SER:CA	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:136:ARG:CG	57:BZ:139:TRP:HB3	2.19	0.52
57:BZ:519:TYR:OH	57:BZ:586:ARG:NH2	2.32	0.52
57:BZ:520:GLU:OE1	57:BZ:593:THR:CA	2.58	0.52
57:BZ:64:ILE:CD1	57:BZ:188:GLN:N	2.73	0.52
56:BD:66:U:H2'	56:BD:67:C:N3	2.24	0.52
23:AY:6:GLU:O	23:AY:7:GLU:C	2.48	0.52
55:BC:8:U:C4	55:BC:13:C:C4	2.98	0.52
34:BA:513:C:C4	34:BA:514:C:C5	2.98	0.52
1:AA:1204:A:C4	6:AF:188:ARG:HB2	2.45	0.52
1:AA:1222:C:H2'	1:AA:1223:C:C5'	2.39	0.52
1:AA:1242:A:H3'	1:AA:1243:G:C8	2.45	0.52
1:AA:1265:A:O5'	1:AA:1267:U:O2	2.28	0.52
1:AA:1399:C:P	19:AU:25:LYS:HZ3	2.32	0.52
1:AA:1475:G:C2	1:AA:1476:C:C6	2.98	0.52
1:AA:1520:U:C3'	1:AA:1520:U:C6	2.92	0.52
1:AA:1568:G:OP2	4:AD:61:LEU:CD1	2.57	0.52
1:AA:1568:G:OP2	4:AD:61:LEU:HD12	2.09	0.52
1:AA:1607:C:H2'	1:AA:1607:C:O2	2.09	0.52
1:AA:1681:G:O6	1:AA:1762:A:N6	2.43	0.52
1:AA:1879:C:H2'	1:AA:1880:C:C6	2.44	0.52
1:AA:1904:G:C2'	1:AA:1905:C:C5'	2.87	0.52
1:AA:1955:U:H3'	1:AA:1956:U:H5	1.74	0.52
1:AA:2083:G:O2'	1:AA:2084:C:H5'	2.09	0.52
1:AA:209:C:O5'	1:AA:209:C:C6	2.62	0.52
1:AA:2213:U:OP2	1:AA:2215:G:C6	2.62	0.52
1:AA:2285:C:H4'	1:AA:2288:A:N1	2.25	0.52
1:AA:2297:C:H2'	1:AA:2298:A:H8	1.73	0.52
1:AA:2309:A:H5''	1:AA:2310:A:C8	2.45	0.52
1:AA:2311:A:H2	7:AG:45:GLU:CG	2.22	0.52
1:AA:2320:A:H5'	1:AA:2321:G:N7	2.25	0.52
1:AA:2353:G:C6	1:AA:2365:G:N2	2.78	0.52
1:AA:1864:U:C4'	1:AA:2409:G:H22	2.20	0.52
1:AA:2415:G:N1	1:AA:2416:C:C4	2.78	0.52
1:AA:241:A:C8	1:AA:243:U:C2	2.97	0.52
1:AA:2423:U:C2'	1:AA:2424:C:OP2	2.58	0.52
1:AA:2476:A:C8	1:AA:2477:C:C6	2.97	0.52
1:AA:247:G:N7	1:AA:249:C:O2	2.42	0.52
1:AA:2533:A:H2'	1:AA:2534:A:O4'	2.10	0.52
1:AA:2544:G:C6	1:AA:2545:G:C5	2.98	0.52
1:AA:1954:G:N3	1:AA:2551:C:H4'	2.25	0.52
1:AA:2640:G:O3'	9:AK:75:TYR:CZ	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2674:G:N3	1:AA:2675:A:C8	2.78	0.52
1:AA:2691:C:O4'	1:AA:2872:G:N7	2.43	0.52
1:AA:2717:G:O2'	1:AA:2718:G:O5'	2.17	0.52
1:AA:2773:C:H2'	1:AA:2774:C:C6	2.44	0.52
1:AA:2820:A:N3	13:AO:5:LYS:HG3	2.25	0.52
1:AA:287:C:C3'	1:AA:288:C:H5	2.23	0.52
1:AA:2631:G:N9	1:AA:2894:G:C8	2.76	0.52
1:AA:2:G:N1	1:AA:2902:C:C6	2.78	0.52
1:AA:311:A:C2	1:AA:331:A:H5''	2.45	0.52
1:AA:319:C:H2'	1:AA:320:A:H8	1.71	0.52
1:AA:330:A:O2'	1:AA:1210:A:C6	2.63	0.52
1:AA:45:G:H2'	1:AA:215:G:H2'	1.92	0.52
1:AA:552:G:C5	1:AA:553:U:C5	2.98	0.52
1:AA:602:G:O2'	1:AA:603:A:OP2	2.24	0.52
1:AA:648:G:C2	1:AA:649:G:N7	2.78	0.52
1:AA:648:G:N3	1:AA:649:G:N7	2.57	0.52
1:AA:724:U:C2'	1:AA:725:G:C5'	2.88	0.52
1:AA:795:C:H2'	1:AA:796:C:C6	2.45	0.52
1:AA:833:U:H2'	1:AA:834:C:C6	2.45	0.52
1:AA:873:G:H2'	1:AA:874:G:O4'	2.09	0.52
2:AB:32:C:C2'	2:AB:33:G:H8	2.22	0.52
3:AC:138:PRO:HB3	3:AC:145:VAL:CG2	2.40	0.52
3:AC:200:LYS:HG3	3:AC:208:PHE:CE2	2.45	0.52
3:AC:68:LEU:CD2	3:AC:69:GLY:N	2.69	0.52
4:AD:106:ILE:O	4:AD:107:ALA:CB	2.58	0.52
4:AD:196:VAL:HG12	4:AD:198:ASN:N	2.24	0.52
4:AD:250:TRP:HA	4:AD:250:TRP:HE3	1.70	0.52
4:AD:60:ARG:HG2	4:AD:62:TYR:OH	2.10	0.52
5:AE:102:VAL:O	5:AE:170:LEU:HD23	2.09	0.52
5:AE:103:ASP:O	5:AE:104:VAL:HG22	2.09	0.52
5:AE:51:PHE:CE1	5:AE:76:ARG:N	2.77	0.52
7:AG:138:GLN:N	7:AG:155:MET:SD	2.83	0.52
7:AG:36:LYS:HZ3	7:AG:38:VAL:H	1.57	0.52
8:AH:97:ARG:CB	8:AH:104:GLU:HG3	2.37	0.52
8:AH:118:PRO:HG3	8:AH:144:VAL:CG2	2.33	0.52
8:AH:156:ALA:HA	8:AH:171:LEU:HD22	1.92	0.52
32:AJ:99:ILE:C	32:AJ:100:THR:HG1	2.02	0.52
32:AJ:12:LEU:CD1	32:AJ:57:ILE:CG2	2.88	0.52
9:AK:134:ARG:O	9:AK:135:PRO:O	2.27	0.52
9:AK:15:LEU:CD2	9:AK:137:LYS:HA	2.29	0.52
9:AK:67:LEU:O	9:AK:68:GLU:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:102:GLU:CD	13:AO:103:ARG:HG2	2.31	0.52
13:AO:34:ILE:CG2	13:AO:35:THR:N	2.73	0.52
13:AO:41:ALA:O	13:AO:42:LYS:C	2.48	0.52
13:AO:87:TYR:O	13:AO:89:ASP:CG	2.48	0.52
14:AP:19:LYS:C	14:AP:19:LYS:HD3	2.31	0.52
14:AP:26:LEU:N	14:AP:88:ASP:HB2	2.25	0.52
14:AP:51:ALA:HB1	14:AP:73:LEU:CG	2.32	0.52
2:AB:50:G:H5''	14:AP:61:ASN:CA	2.40	0.52
14:AP:67:ARG:NE	14:AP:71:ARG:HD2	2.25	0.52
15:AQ:30:VAL:HB	15:AQ:91:ARG:H	1.73	0.52
16:AR:17:ILE:HG23	16:AR:20:LEU:HD12	1.92	0.52
1:AA:532:A:N6	16:AR:45:TYR:OH	2.25	0.52
16:AR:56:ASP:O	16:AR:60:LEU:HG	2.08	0.52
16:AR:84:LYS:CE	16:AR:84:LYS:HA	2.40	0.52
18:AT:50:VAL:HG11	18:AT:103:ILE:HG13	1.92	0.52
20:AV:75:ILE:CG2	20:AV:100:ALA:HB2	2.29	0.52
20:AV:71:LYS:CD	20:AV:71:LYS:H	2.16	0.52
21:AW:157:LEU:HD23	21:AW:158:PRO:N	2.24	0.52
21:AW:161:VAL:CG1	21:AW:162:GLU:N	2.72	0.52
21:AW:26:GLY:O	21:AW:37:VAL:O	2.28	0.52
21:AW:75:ASN:HB3	21:AW:84:GLU:HB2	1.92	0.52
21:AW:6:LYS:CG	21:AW:7:ALA:H	2.20	0.52
22:AX:20:ARG:O	22:AX:21:LEU:HB3	2.10	0.52
23:AY:20:VAL:HG23	23:AY:52:ILE:CG2	2.30	0.52
34:BA:1032(B):G:H2'	34:BA:1033:G:O4'	2.10	0.52
34:BA:1055:A:O2'	34:BA:1056:U:OP1	2.26	0.52
34:BA:1077:G:H21	34:BA:1079:G:H3'	1.64	0.52
34:BA:1163:C:H2'	34:BA:1163:C:O2	2.08	0.52
34:BA:1219:U:C1'	52:BW:34:TRP:CZ2	2.70	0.52
34:BA:1226:C:O3'	46:BQ:111:LYS:NZ	2.37	0.52
34:BA:1227:A:C8	34:BA:1228:C:O4'	2.58	0.52
34:BA:1320:C:H1'	52:BW:74:PHE:N	2.14	0.52
34:BA:1422:G:H2'	34:BA:1423:G:C8	2.41	0.52
34:BA:1442:G:C3'	34:BA:1442:G:N3	2.73	0.52
34:BA:304:U:O2'	34:BA:305:G:H5'	2.10	0.52
34:BA:321:A:C2	34:BA:322:C:C4	2.98	0.52
34:BA:321:A:C6	34:BA:322:C:N4	2.78	0.52
34:BA:382:A:H2'	34:BA:383:A:O5'	2.10	0.52
34:BA:390:C:N4	34:BA:391:G:O6	2.43	0.52
34:BA:50:A:O2'	34:BA:360:A:C2	2.63	0.52
34:BA:675:A:N1	34:BA:716:A:C2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:740:U:H2'	34:BA:741:G:C8	2.42	0.52
34:BA:570:G:C6	34:BA:866:C:N4	2.78	0.52
34:BA:915:A:O2'	34:BA:916:G:H5'	2.08	0.52
55:BC:16:U:N3	55:BC:19:G:P	2.83	0.52
55:BC:16:U:C5	55:BC:18:G:H5''	2.45	0.52
35:BF:102:LEU:O	35:BF:180:LEU:HD13	2.09	0.52
35:BF:175:ARG:HA	35:BF:178:ARG:CB	2.38	0.52
35:BF:43:ASP:O	35:BF:47:THR:HB	2.10	0.52
36:BG:174:PRO:HB2	36:BG:177:THR:HG22	1.92	0.52
36:BG:43:LEU:CD2	36:BG:55:VAL:HG21	2.40	0.52
37:BH:173:TRP:H	37:BH:173:TRP:HE3	1.58	0.52
37:BH:79:PHE:HE1	37:BH:204:ILE:HG23	1.75	0.52
37:BH:32:ALA:C	37:BH:34:GLU:N	2.63	0.52
39:BJ:51:PRO:HA	39:BJ:55:ASP:O	2.10	0.52
40:BK:99:LEU:HD23	40:BK:99:LEU:O	2.10	0.52
41:BL:49:GLU:OE1	41:BL:49:GLU:O	2.28	0.52
41:BL:8:ASP:C	41:BL:8:ASP:OD2	2.46	0.52
42:BM:106:ALA:O	42:BM:107:ARG:CG	2.53	0.52
43:BN:44:VAL:HA	43:BN:66:ARG:HB3	1.92	0.52
44:BO:46:GLY:HA3	44:BO:55:LYS:HD2	1.91	0.52
45:BP:89:ARG:NE	45:BP:97:ARG:HG3	2.25	0.52
47:BR:27:CYS:C	47:BR:40:CYS:SG	2.88	0.52
34:BA:450:G:H5'	49:BT:43:LYS:HZ2	1.75	0.52
50:BU:101:ARG:N	50:BU:101:ARG:HD2	2.25	0.52
50:BU:5:VAL:HA	50:BU:59:ILE:O	2.09	0.52
52:BW:7:LYS:O	52:BW:7:LYS:HG3	2.09	0.52
53:BX:61:SER:HG	53:BX:62:LEU:H	1.57	0.52
57:BZ:366:LEU:O	57:BZ:370:ILE:HG13	2.09	0.52
57:BZ:546:MET:CB	57:BZ:547:ARG:CA	2.87	0.52
57:BZ:578:VAL:O	57:BZ:580:VAL:HG13	2.09	0.52
56:BD:7:A:HO2'	56:BD:49:C:H6	1.57	0.52
57:BZ:538:LEU:N	57:BZ:539:THR:CB	2.73	0.52
3:AC:54:SER:CA	3:AC:57:ASN:HD22	2.22	0.52
32:AJ:4:VAL:O	32:AJ:4:VAL:HG22	2.09	0.52
34:BA:1539:C:H2'	34:BA:1540:U:O4'	2.10	0.52
1:AA:1142:U:C6	1:AA:1142(A):A:C8	2.84	0.51
1:AA:1180:C:C2	1:AA:1181:C:C5	2.98	0.51
1:AA:1256:G:C6	1:AA:1257:C:C4	2.98	0.51
1:AA:1319:G:C6	1:AA:1334:G:C6	2.98	0.51
1:AA:1515:C:C2'	1:AA:1516:U:OP1	2.58	0.51
1:AA:1540:G:C6	1:AA:1541:U:HI'	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1299:G:N2	1:AA:1640:C:OP2	2.39	0.51
1:AA:1682:G:H3'	1:AA:1683:C:C5	2.45	0.51
1:AA:1718:G:N2	1:AA:1742:C:C2	2.66	0.51
1:AA:1809:A:H8	1:AA:1810:A:O4'	1.92	0.51
1:AA:1892:C:N4	1:AA:1893:C:N4	2.58	0.51
1:AA:1899:G:H8	1:AA:1899:G:H3'	1.75	0.51
1:AA:1906:G:O4'	1:AA:1929:G:C8	2.63	0.51
1:AA:1911:U:H6	1:AA:1911:U:O5'	1.92	0.51
1:AA:1924:C:C5	1:AA:1925:C:C5	2.98	0.51
1:AA:2007:C:H5'	1:AA:2824:C:H1'	1.93	0.51
1:AA:2009:G:C2	1:AA:2010:G:C8	2.98	0.51
1:AA:2049:G:O2'	1:AA:2050:C:O5'	2.29	0.51
1:AA:2136:C:C4	1:AA:2137:C:C5	2.98	0.51
1:AA:221:A:C2	1:AA:233:A:C4	2.98	0.51
1:AA:2232:U:N3	1:AA:2233:U:C5	2.78	0.51
1:AA:2238:G:O2'	1:AA:2239:G:C5'	2.55	0.51
1:AA:2309:A:H2'	1:AA:2309:A:N3	2.24	0.51
1:AA:2377:A:N3	1:AA:2378:A:N7	2.58	0.51
1:AA:2426:A:H3'	1:AA:2427:C:C5'	2.40	0.51
1:AA:2432:A:C8	1:AA:2433:A:C5	2.98	0.51
1:AA:2476:A:C2	1:AA:2481:G:N2	2.78	0.51
1:AA:248:G:N2	1:AA:2431:U:H5'	2.25	0.51
1:AA:2507:C:C4'	1:AA:2573:C:N4	2.72	0.51
1:AA:2562:U:H2'	1:AA:2562:U:O2	2.10	0.51
1:AA:2533:A:C1'	1:AA:2664:G:C4'	2.84	0.51
1:AA:271(B):G:OP1	1:AA:271(C):U:O4'	2.28	0.51
1:AA:2794:C:N3	1:AA:2802:G:C6	2.78	0.51
1:AA:2813:A:C2	1:AA:2888:C:C2	2.97	0.51
1:AA:2815:C:C2'	1:AA:2816:C:H5'	2.40	0.51
1:AA:2843:G:C4	1:AA:2844:G:C8	2.98	0.51
1:AA:2876:G:C5'	15:AQ:1:MET:N	2.73	0.51
1:AA:29:U:O2	1:AA:30:G:O6	2.28	0.51
1:AA:446:G:O4'	1:AA:446:G:OP2	2.29	0.51
1:AA:533:G:N7	1:AA:534:U:C4	2.78	0.51
1:AA:584:C:C2'	1:AA:585:G:H5'	2.40	0.51
1:AA:629:G:H5'	1:AA:649:G:H21	1.75	0.51
1:AA:832:G:C2'	1:AA:833:U:C5	2.89	0.51
1:AA:875:G:C2	1:AA:876:C:C2	2.98	0.51
2:AB:112:G:N2	2:AB:113:C:C2	2.78	0.51
2:AB:14:U:C6	2:AB:14:U:H3'	2.43	0.51
2:AB:37:C:H3'	2:AB:38:C:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:50:G:O3'	14:AP:61:ASN:HA	2.10	0.51
2:AB:97:G:C5	2:AB:98:G:C8	2.98	0.51
3:AC:82:LYS:CG	3:AC:116:THR:HG21	2.40	0.51
3:AC:36:LYS:O	3:AC:37:PHE:CG	2.63	0.51
4:AD:168:ARG:HA	4:AD:174:ILE:CD1	2.39	0.51
4:AD:56:GLY:HA3	4:AD:214:TRP:HZ3	1.74	0.51
4:AD:78:LYS:CG	4:AD:114:GLY:O	2.57	0.51
4:AD:7:LYS:HZ3	4:AD:91:ARG:NE	2.08	0.51
5:AE:100:GLU:O	5:AE:172:VAL:CG1	2.52	0.51
5:AE:152:LYS:O	5:AE:152:LYS:CD	2.58	0.51
5:AE:38:THR:O	5:AE:42:ASP:OD2	2.28	0.51
5:AE:92:THR:HG23	5:AE:96:PHE:H	1.75	0.51
6:AF:201:VAL:CG1	6:AF:205:ARG:NH2	2.72	0.51
6:AF:82:ILE:H	6:AF:82:ILE:HD13	1.68	0.51
7:AG:36:LYS:NZ	7:AG:38:VAL:HG22	2.25	0.51
32:AJ:84:LEU:C	32:AJ:86:LYS:HZ2	2.12	0.51
11:AM:124:LYS:HD2	11:AM:142:GLY:O	2.10	0.51
11:AM:76:LYS:HE2	11:AM:81:GLN:NE2	2.25	0.51
12:AN:109:VAL:CG2	12:AN:113:GLN:HB2	2.38	0.51
1:AA:2484:G:H21	12:AN:124:LYS:HD2	1.75	0.51
12:AN:12:GLN:NE2	12:AN:12:GLN:O	2.43	0.51
12:AN:136:ALA:HB1	21:AW:76:LEU:CD1	2.40	0.51
13:AO:103:ARG:HA	13:AO:109:ALA:O	2.10	0.51
2:AB:49:C:OP1	14:AP:96:GLY:HA3	2.10	0.51
10:AL:106:LEU:CB	15:AQ:39:ARG:HH22	2.08	0.51
18:AT:42:ARG:CG	18:AT:43:GLY:N	2.73	0.51
19:AU:18:TYR:HD1	19:AU:21:PHE:CE1	2.27	0.51
21:AW:118:GLN:NE2	21:AW:119:GLU:C	2.63	0.51
21:AW:127:LYS:HD3	21:AW:165:VAL:H	1.74	0.51
21:AW:53:ILE:CG1	21:AW:58:VAL:HG21	2.31	0.51
22:AX:40:GLN:O	22:AX:57:PHE:HB3	2.09	0.51
34:BA:1155:G:H21	34:BA:1179:A:N6	2.08	0.51
34:BA:1201:A:HO2'	34:BA:1202:G:H5''	1.76	0.51
34:BA:1248:A:C2	34:BA:1249:C:N3	2.78	0.51
34:BA:1251:A:N6	34:BA:1285:A:H2	2.06	0.51
34:BA:1300:G:O2'	34:BA:1301:U:P	2.66	0.51
34:BA:1430:C:C2	34:BA:1471:G:N2	2.77	0.51
34:BA:390:C:C2	34:BA:391:G:C8	2.97	0.51
34:BA:497:U:O2	34:BA:498:A:C8	2.63	0.51
34:BA:541:G:O4'	37:BH:42:GLN:NE2	2.36	0.51
34:BA:696:A:N6	34:BA:797:C:O2'	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:739:C:H2'	34:BA:740:U:C5'	2.39	0.51
34:BA:817:C:C6	34:BA:819:A:H4'	2.44	0.51
34:BA:958:A:H2'	34:BA:959:A:C8	2.45	0.51
34:BA:967:C:H2'	34:BA:968:A:C8	2.45	0.51
34:BA:996:A:C2	34:BA:997:U:C5	2.98	0.51
35:BF:163:PHE:CE1	35:BF:201:ILE:HD13	2.45	0.51
35:BF:25:ASN:HD21	35:BF:27:LYS:CG	2.23	0.51
35:BF:58:ILE:O	35:BF:61:LEU:CD2	2.58	0.51
36:BG:117:ALA:O	36:BG:118:GLN:C	2.49	0.51
34:BA:1107:C:P	36:BG:172:ARG:HH11	2.33	0.51
36:BG:186:PHE:HB2	36:BG:199:LYS:HG2	1.92	0.51
37:BH:30:LYS:CA	37:BH:34:GLU:HB3	2.39	0.51
38:BI:98:THR:CG2	38:BI:119:LEU:HD21	2.39	0.51
40:BK:16:LEU:O	40:BK:17:VAL:HG23	2.09	0.51
40:BK:88:PRO:HA	40:BK:89:MET:HE3	1.92	0.51
41:BL:11:THR:HA	41:BL:14:ARG:NH2	2.25	0.51
42:BM:48:GLU:N	42:BM:49:PRO:CD	2.73	0.51
42:BM:67:GLY:N	42:BM:73:GLN:NE2	2.58	0.51
34:BA:684:A:C3'	44:BO:12:ARG:HH22	2.23	0.51
45:BP:117:ARG:HG3	45:BP:117:ARG:NH1	2.14	0.51
45:BP:84:LEU:CD2	45:BP:85:ILE:N	2.74	0.51
46:BQ:40:ASN:ND2	46:BQ:42:ALA:H	2.07	0.51
46:BQ:73:GLU:O	46:BQ:77:ASN:CB	2.58	0.51
48:BS:31:LEU:HA	48:BS:34:LEU:HD21	1.88	0.51
48:BS:36:ILE:CG2	48:BS:37:ASN:N	2.73	0.51
48:BS:83:GLU:O	48:BS:84:LYS:C	2.49	0.51
50:BU:22:LEU:HD11	50:BU:39:SER:OG	2.09	0.51
50:BU:43:LEU:CD2	50:BU:44:ALA:N	2.61	0.51
50:BU:66:SER:HB3	50:BU:69:LYS:HB3	1.91	0.51
51:BV:26:LEU:HB2	51:BV:42:ARG:NH1	2.26	0.51
52:BW:6:LYS:HB2	52:BW:41:VAL:CG1	2.36	0.51
53:BX:40:ALA:O	53:BX:41:ILE:C	2.47	0.51
53:BX:73:HIS:HD2	53:BX:74:LYS:NZ	2.08	0.51
57:BZ:311:PHE:N	57:BZ:356:PHE:O	2.43	0.51
57:BZ:424:GLY:O	57:BZ:441:TYR:CE2	2.55	0.51
57:BZ:563:MET:CA	57:BZ:563:MET:CE	2.88	0.51
57:BZ:6:ARG:HG3	57:BZ:67:ASP:HB2	1.93	0.51
57:BZ:87:ARG:NH2	57:BZ:210:SER:C	2.63	0.51
57:BZ:409:GLU:CD	57:BZ:409:GLU:H	2.13	0.51
56:BD:28:G:H2'	56:BD:29:G:H8	1.75	0.51
34:BA:511:C:O2'	34:BA:512:U:C6	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2655:G:N3	1:AA:2655:G:C3'	2.73	0.51
1:AA:1115:G:C2'	1:AA:1115:G:N3	2.73	0.51
1:AA:1176:G:C2'	1:AA:1177:A:H5'	2.34	0.51
1:AA:1363:C:C2	1:AA:1369:G:N1	2.78	0.51
1:AA:1529:A:H8	1:AA:1530:G:N9	2.06	0.51
1:AA:1718:G:O6	1:AA:1735:C:N4	2.43	0.51
1:AA:1730:U:O5'	1:AA:1730:U:H6	1.93	0.51
1:AA:1754:C:C2	1:AA:1755:A:C1'	2.93	0.51
1:AA:1804:C:C2	1:AA:1805:U:C5	2.99	0.51
1:AA:196:A:N1	1:AA:828:U:C5'	2.61	0.51
1:AA:1667:G:C2	1:AA:1991:U:C5	2.99	0.51
1:AA:2136:C:H2'	1:AA:2137:C:O4'	2.09	0.51
1:AA:2106:G:C6	1:AA:2184:G:C6	2.99	0.51
1:AA:2197:U:O2'	1:AA:2198:A:O4'	2.28	0.51
1:AA:2327:A:O2'	1:AA:2328:A:O4'	2.18	0.51
1:AA:231:C:C4	1:AA:232:G:C2	2.98	0.51
1:AA:2336:A:O2'	1:AA:2337:G:OP1	2.18	0.51
1:AA:2291:U:O2'	1:AA:2374:C:H1'	2.10	0.51
1:AA:2408:U:C2	1:AA:2409:G:C8	2.98	0.51
1:AA:2483:C:O2	1:AA:2483:C:H2'	2.10	0.51
1:AA:2447:G:H3'	1:AA:2499:C:O5'	2.10	0.51
1:AA:2544:G:O2'	1:AA:2545:G:H5'	2.10	0.51
1:AA:2564:A:C4	1:AA:2565:A:N7	2.78	0.51
1:AA:2617:C:H2'	1:AA:2618:G:O5'	2.10	0.51
1:AA:2660:A:C8	1:AA:2661:G:C8	2.98	0.51
1:AA:308:G:C2	1:AA:329:G:C2	2.97	0.51
1:AA:312:G:P	1:AA:312:G:O4'	2.68	0.51
1:AA:448:U:O2	1:AA:448:U:C2'	2.53	0.51
1:AA:479:A:N3	1:AA:480:A:N7	2.58	0.51
1:AA:672:C:C2	1:AA:673:C:C5	2.98	0.51
1:AA:762:U:H1'	1:AA:763:G:C5	2.45	0.51
1:AA:761:A:H5''	1:AA:762:U:OP1	2.09	0.51
1:AA:851:U:O4'	24:AZ:46:ASN:ND2	2.29	0.51
1:AA:917:A:H2'	1:AA:918:A:C5'	2.37	0.51
2:AB:100:G:C2'	2:AB:101:A:H8	2.20	0.51
2:AB:6:C:H5'	2:AB:27:C:C2'	2.40	0.51
2:AB:73:A:C8	2:AB:104:A:N1	2.78	0.51
3:AC:52:ARG:HB3	3:AC:52:ARG:CZ	2.40	0.51
3:AC:59:ARG:HH11	3:AC:59:ARG:CB	2.23	0.51
4:AD:146:GLU:HG3	4:AD:152:GLY:O	2.10	0.51
1:AA:764:A:OP1	4:AD:211:ARG:CA	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:264:LYS:O	4:AD:265:PRO:C	2.48	0.51
4:AD:5:LYS:CE	4:AD:31:LYS:NZ	2.72	0.51
4:AD:65:ILE:CG2	4:AD:66:ASP:N	2.73	0.51
4:AD:77:ALA:HB1	4:AD:95:LEU:CD1	2.40	0.51
4:AD:80:ALA:CB	4:AD:96:HIS:ND1	2.73	0.51
1:AA:2578:G:N7	5:AE:140:SER:HB2	2.25	0.51
5:AE:105:THR:HB	5:AE:166:THR:HG1	1.73	0.51
5:AE:98:PRO:HG3	5:AE:175:VAL:HG22	1.91	0.51
5:AE:49:LEU:CD1	5:AE:50:GLY:N	2.73	0.51
6:AF:46:ARG:NE	6:AF:46:ARG:HA	2.25	0.51
6:AF:74:ARG:HH12	6:AF:76:GLY:N	2.06	0.51
7:AG:114:ILE:O	7:AG:117:PHE:HB2	2.10	0.51
7:AG:74:LYS:CE	7:AG:75:LYS:HE3	2.39	0.51
31:AI:59:ILE:O	31:AI:61:LEU:N	2.40	0.51
32:AJ:27:LEU:CD2	32:AJ:57:ILE:HB	2.40	0.51
9:AK:112:LEU:O	9:AK:114:ARG:N	2.44	0.51
9:AK:39:ARG:CB	9:AK:48:MET:SD	2.98	0.51
9:AK:55:VAL:O	9:AK:57:ALA:N	2.43	0.51
11:AM:37:GLY:O	11:AM:40:SER:HB3	2.10	0.51
12:AN:64:ILE:HG22	12:AN:105:GLU:HB3	1.92	0.51
12:AN:109:VAL:HG22	12:AN:113:GLN:CB	2.39	0.51
12:AN:45:GLN:CA	12:AN:48:GLU:HG2	2.39	0.51
12:AN:65:PHE:O	12:AN:66:ILE:CG1	2.55	0.51
14:AP:70:GLY:O	14:AP:72:ALA:N	2.43	0.51
14:AP:76:LYS:CE	14:AP:77:ALA:HB2	2.38	0.51
16:AR:2:PRO:O	16:AR:3:ARG:O	2.28	0.51
16:AR:59:ARG:O	16:AR:62:ILE:CB	2.48	0.51
17:AS:25:LEU:HA	17:AS:28:GLU:CG	2.40	0.51
17:AS:70:ILE:HG23	17:AS:90:PRO:CA	2.37	0.51
19:AU:12:VAL:HG22	19:AU:29:TRP:NE1	2.25	0.51
19:AU:63:LYS:HA	19:AU:63:LYS:HZ3	1.73	0.51
20:AV:13:VAL:CG2	20:AV:14:LEU:N	2.72	0.51
21:AW:56:VAL:HG22	21:AW:133:ILE:CD1	2.41	0.51
22:AX:31:VAL:HG13	22:AX:67:VAL:CG2	2.40	0.51
34:BA:1060:C:H2'	34:BA:1061:G:C8	2.45	0.51
34:BA:112:G:C2'	34:BA:113:G:H5'	2.39	0.51
34:BA:1164:G:C5	34:BA:1173:G:N1	2.78	0.51
34:BA:1186:G:H21	47:BR:61:TRP:C	2.13	0.51
34:BA:1202:G:N3	34:BA:1203:C:C6	2.78	0.51
34:BA:1321:C:C5	34:BA:1322:C:C2'	2.92	0.51
34:BA:1329:A:C2'	34:BA:1330:U:H5'	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:946:A:O2'	34:BA:1333:A:H1'	2.10	0.51
34:BA:1401:G:H2'	34:BA:1402:C:C5'	2.40	0.51
34:BA:1443:G:C2'	34:BA:1443:G:N3	2.73	0.51
34:BA:1450:U:H1'	34:BA:1453:G:H1	1.75	0.51
34:BA:1430:C:N3	34:BA:1471:G:C2	2.78	0.51
34:BA:1507:A:C2	34:BA:1530:G:H1'	2.46	0.51
34:BA:250:A:N3	34:BA:252:U:N3	2.57	0.51
34:BA:270:A:O2'	34:BA:271:C:C5'	2.56	0.51
34:BA:40:C:O2'	34:BA:41:G:H5'	2.09	0.51
34:BA:475:G:C2	34:BA:476:G:C5	2.98	0.51
34:BA:587:G:C2	34:BA:755:G:C5	2.98	0.51
34:BA:598:U:N3	34:BA:599:C:C5	2.78	0.51
34:BA:599:C:N4	34:BA:640:A:N6	2.59	0.51
34:BA:735:C:O2'	51:BV:75:ILE:CD1	2.57	0.51
34:BA:714:G:HO2'	34:BA:777:A:N6	2.08	0.51
34:BA:80:G:C2	34:BA:81:G:H1'	2.44	0.51
34:BA:812:C:H4'	34:BA:813:U:H6	1.75	0.51
34:BA:857:C:N3	34:BA:858:G:H1'	2.25	0.51
34:BA:867:G:N2	34:BA:868:C:C2	2.77	0.51
34:BA:893:C:N3	34:BA:894:G:N7	2.58	0.51
34:BA:948:C:H2'	34:BA:949:A:C8	2.42	0.51
34:BA:952:U:H5'	34:BA:972:C:N4	2.07	0.51
55:BC:16:U:C5	55:BC:18:G:C5'	2.92	0.51
1:AA:1852:C:OP1	55:BC:72:C:H5'	2.10	0.51
56:BE:41:C:H3'	56:BE:42:C:C5'	2.38	0.51
35:BF:15:VAL:C	35:BF:16:HIS:HD1	2.14	0.51
35:BF:80:ILE:HD11	35:BF:212:GLN:HG2	1.92	0.51
36:BG:136:GLN:O	36:BG:137:ALA:C	2.47	0.51
36:BG:172:ARG:NH1	36:BG:174:PRO:HD3	2.25	0.51
34:BA:404:U:OP2	37:BH:118:ARG:NH1	2.43	0.51
39:BJ:40:VAL:HG22	39:BJ:40:VAL:O	2.09	0.51
39:BJ:46:ARG:NH2	51:BV:37:VAL:HG11	2.25	0.51
39:BJ:76:ALA:HA	39:BJ:79:LEU:HD11	1.92	0.51
40:BK:76:ARG:NH1	40:BK:89:MET:CG	2.72	0.51
43:BN:28:ARG:NH1	43:BN:28:ARG:HG2	2.24	0.51
43:BN:5:ARG:NH2	43:BN:73:ASP:OD2	2.43	0.51
43:BN:51:ARG:NH2	43:BN:61:GLU:OE1	2.44	0.51
44:BO:128:ALA:O	44:BO:129:SER:OXT	2.27	0.51
44:BO:42:TRP:CZ3	44:BO:47:VAL:CG2	2.94	0.51
46:BQ:25:ILE:HA	46:BQ:29:ARG:HD2	1.92	0.51
46:BQ:15:VAL:C	46:BQ:34:LEU:HD21	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:14:ARG:CD	46:BQ:41:PRO:CB	2.81	0.51
46:BQ:81:LEU:N	46:BQ:81:LEU:CD1	2.73	0.51
48:BS:79:ARG:HG2	48:BS:82:ILE:HD12	1.91	0.51
50:BU:32:TYR:O	50:BU:33:GLY:C	2.48	0.51
50:BU:84:LEU:O	50:BU:87:LYS:N	2.43	0.51
57:BZ:240:ILE:HD11	57:BZ:287:THR:CG2	1.92	0.51
57:BZ:427:LYS:HG3	57:BZ:442:VAL:HG21	1.86	0.51
57:BZ:313:VAL:N	57:BZ:354:ASP:HB3	2.25	0.51
56:BD:50:U:O4	56:BD:65:G:N1	2.43	0.51
57:BZ:38:THR:HB	57:BZ:39:GLN:C	2.30	0.51
57:BZ:40:GLU:N	57:BZ:41:ARG:CB	2.73	0.51
37:BH:46:LYS:O	37:BH:47:ARG:C	2.48	0.51
34:BA:233:C:C2'	34:BA:234:C:H5'	2.39	0.51
23:AY:7:GLU:C	23:AY:10:LYS:HG2	2.30	0.51
57:BZ:185:PRO:CD	57:BZ:186:LEU:H	2.23	0.51
1:AA:274:G:N2	1:AA:274:G:OP2	2.42	0.51
37:BH:159:ARG:O	37:BH:163:GLU:HB3	2.11	0.51
1:AA:1006:C:O2'	9:AK:106:MET:CB	2.54	0.51
1:AA:1010:A:O2'	1:AA:1152:C:O2	2.26	0.51
1:AA:1069:A:H5''	1:AA:1070:A:C8	2.46	0.51
1:AA:1243:G:N1	1:AA:1244:G:C5	2.79	0.51
1:AA:1287:A:H2'	1:AA:1287:A:N3	2.24	0.51
1:AA:1308:A:N3	1:AA:1309:G:C1'	2.73	0.51
1:AA:1313:U:P	19:AU:63:LYS:CD	2.98	0.51
1:AA:1354:A:C2'	1:AA:1355:G:H5'	2.40	0.51
1:AA:136:G:H2'	1:AA:137:C:C6	2.44	0.51
1:AA:1466:G:O4'	1:AA:1545(A):A:C2	2.63	0.51
1:AA:1540:G:H2'	1:AA:1541:U:H5'	1.92	0.51
1:AA:1639:U:O2'	1:AA:2699:C:H4'	2.11	0.51
1:AA:1655:A:C3'	1:AA:1656:C:H6	2.22	0.51
1:AA:1799:G:H22	4:AD:157:ARG:NH2	2.04	0.51
1:AA:1944:U:H1'	1:AA:1955:U:H1'	1.90	0.51
1:AA:2094:G:N1	1:AA:2196:C:C4	2.78	0.51
1:AA:2298:A:C3'	1:AA:2299:G:H8	2.24	0.51
1:AA:234:C:H2'	1:AA:235:U:O5'	2.10	0.51
1:AA:2443:C:H2'	1:AA:2444:G:C8	2.28	0.51
1:AA:2569:G:C4	1:AA:2570:G:C8	2.99	0.51
1:AA:2638:G:N2	1:AA:2781:A:N6	2.57	0.51
1:AA:2761:G:C2'	1:AA:2762:G:H5'	2.41	0.51
1:AA:2773:C:P	5:AE:164:ARG:NH2	2.83	0.51
1:AA:2785:C:C4	1:AA:2786:U:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2812:G:C6	1:AA:2813:A:N6	2.78	0.51
1:AA:292:C:C2'	1:AA:293:U:C2	2.91	0.51
1:AA:2:G:C4	1:AA:2902:C:N1	2.76	0.51
1:AA:415:A:O4'	1:AA:1869:G:H5''	2.10	0.51
1:AA:515:A:H5'	16:AR:32:PHE:HZ	1.74	0.51
1:AA:534:U:OP1	16:AR:24:TYR:HE2	1.93	0.51
1:AA:541:C:OP2	1:AA:541:C:H6	1.93	0.51
1:AA:563:G:C2	1:AA:564:C:C4	2.99	0.51
1:AA:879:G:C6	1:AA:897:C:O2'	2.63	0.51
1:AA:945:A:C3'	1:AA:946:G:H5''	2.41	0.51
1:AA:957:A:C6	1:AA:959:A:C4	2.98	0.51
2:AB:43:C:H2'	2:AB:44:G:H5''	1.91	0.51
3:AC:134:ARG:HD3	3:AC:136:LEU:CD1	2.38	0.51
3:AC:59:ARG:HH12	3:AC:164:ARG:HH11	1.57	0.51
3:AC:63:SER:O	3:AC:65:PRO:CD	2.57	0.51
4:AD:142:VAL:HG22	4:AD:165:ILE:HD11	1.91	0.51
4:AD:181:GLU:HA	4:AD:270:ILE:CB	2.39	0.51
4:AD:211:ARG:C	4:AD:215:LEU:HD12	2.30	0.51
4:AD:55:GLY:N	4:AD:218:ARG:CD	2.73	0.51
5:AE:14:ILE:CG2	5:AE:19:ARG:HA	2.40	0.51
5:AE:54:GLN:HB3	5:AE:57:LYS:CE	2.41	0.51
5:AE:55:ASN:C	5:AE:57:LYS:N	2.61	0.51
6:AF:104:LYS:O	6:AF:108:LYS:CE	2.57	0.51
6:AF:173:VAL:CG2	6:AF:174:VAL:N	2.73	0.51
7:AG:121:ASN:OD1	7:AG:180:PHE:HB2	2.10	0.51
7:AG:20:ILE:HD12	7:AG:28:VAL:CG1	2.40	0.51
7:AG:29:TRP:C	7:AG:31:VAL:N	2.56	0.51
7:AG:39:ILE:HG23	7:AG:157:ILE:HG13	1.91	0.51
8:AH:105:LEU:HD12	8:AH:113:VAL:CG1	2.40	0.51
32:AJ:98:ARG:HG2	32:AJ:100:THR:H	1.76	0.51
10:AL:68:GLU:OE2	10:AL:76:ALA:CB	2.42	0.51
11:AM:72:PRO:HA	11:AM:110:TYR:CE1	2.45	0.51
11:AM:97:PRO:HD3	11:AM:102:ARG:CZ	2.41	0.51
13:AO:41:ALA:HB1	13:AO:97:VAL:CG1	2.34	0.51
13:AO:43:GLU:OE2	13:AO:43:GLU:HA	2.10	0.51
13:AO:61:HIS:O	13:AO:64:ARG:N	2.44	0.51
14:AP:73:LEU:CD1	14:AP:73:LEU:H	2.17	0.51
15:AQ:17:THR:HG21	15:AQ:20:PRO:CA	2.40	0.51
15:AQ:92:GLY:C	15:AQ:93:ARG:NE	2.63	0.51
16:AR:14:HIS:O	16:AR:17:ILE:N	2.43	0.51
16:AR:16:LYS:HD2	16:AR:17:ILE:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:93:LYS:O	16:AR:94:ASN:ND2	2.44	0.51
18:AT:38:TYR:N	18:AT:38:TYR:HD1	2.08	0.51
1:AA:24:G:H1'	18:AT:77:ASP:OD1	2.10	0.51
1:AA:750:A:H2'	18:AT:90:ARG:NH1	2.26	0.51
21:AW:9:TYR:C	21:AW:10:ARG:HG3	2.30	0.51
21:AW:122:ARG:HG2	21:AW:171:ILE:CA	2.34	0.51
21:AW:29:TYR:O	21:AW:89:PHE:HD2	1.93	0.51
21:AW:3:TYR:HB3	21:AW:61:LEU:HB2	1.91	0.51
22:AX:40:GLN:NE2	22:AX:42:GLY:O	2.43	0.51
24:AZ:30:ARG:N	24:AZ:30:ARG:CD	2.73	0.51
34:BA:1129:C:H4'	34:BA:1130:A:H8	1.74	0.51
34:BA:1128:C:H4'	34:BA:1148:U:C5	2.45	0.51
34:BA:1169:A:H8	34:BA:1169:A:OP2	1.93	0.51
34:BA:1305:G:H5'	54:BY:4:GLY:HA3	1.92	0.51
34:BA:1316:G:O4'	34:BA:1360:A:C6	2.60	0.51
34:BA:1326:C:OP1	54:BY:17:THR:OG1	2.23	0.51
34:BA:1396:A:O2'	34:BA:1397:C:H5''	2.10	0.51
34:BA:16:A:H2'	34:BA:16:A:N3	2.26	0.51
34:BA:296:U:O2'	34:BA:556:C:O2'	2.22	0.51
34:BA:332:G:O2'	34:BA:333:G:H5'	2.11	0.51
34:BA:341:C:O2'	34:BA:342:C:O5'	2.29	0.51
34:BA:80:G:H2'	34:BA:81:G:C8	2.45	0.51
34:BA:957:U:H3	34:BA:960:U:C5'	2.23	0.51
34:BA:961:U:C2'	34:BA:962:C:H5'	2.41	0.51
34:BA:973:G:N1	34:BA:974:A:C5	2.78	0.51
56:BD:18:G:N1	56:BD:57:G:N7	2.56	0.51
56:BE:18:G:C4	56:BE:58:A:C2	2.98	0.51
35:BF:130:ARG:CB	35:BF:131:PRO:CD	2.88	0.51
35:BF:69:LEU:CD1	35:BF:70:PHE:N	2.74	0.51
35:BF:69:LEU:CD1	35:BF:92:TYR:HA	2.32	0.51
36:BG:183:ASP:C	36:BG:183:ASP:OD2	2.47	0.51
36:BG:37:GLN:HA	36:BG:37:GLN:OE1	2.09	0.51
36:BG:78:GLY:O	36:BG:80:GLY:N	2.43	0.51
36:BG:84:ILE:HD11	36:BG:88:ARG:HH21	1.76	0.51
36:BG:91:LEU:CD2	36:BG:91:LEU:C	2.79	0.51
37:BH:147:ALA:O	37:BH:149:ALA:N	2.43	0.51
37:BH:148:VAL:HG11	37:BH:153:ARG:HA	1.92	0.51
37:BH:16:GLY:O	37:BH:17:VAL:C	2.47	0.51
37:BH:60:GLU:O	37:BH:63:LYS:HD2	2.10	0.51
38:BI:47:LYS:H	38:BI:57:LYS:CE	2.22	0.51
38:BI:59:GLY:O	38:BI:62:ALA:CB	2.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:13:ASN:N	39:BJ:13:ASN:ND2	2.56	0.51
40:BK:69:VAL:CB	40:BK:135:VAL:HG22	2.39	0.51
40:BK:77:SER:C	40:BK:156:TRP:CZ2	2.83	0.51
34:BA:1342:C:O2'	42:BM:124:GLN:HA	2.11	0.51
40:BK:16:LEU:HD12	42:BM:44:VAL:CG2	2.40	0.51
40:BK:16:LEU:HD12	42:BM:44:VAL:HG23	1.93	0.51
42:BM:45:ALA:O	42:BM:78:LYS:CB	2.58	0.51
34:BA:363:A:N7	45:BP:31:PRO:HD2	2.25	0.51
46:BQ:80:ARG:HH12	46:BQ:81:LEU:HD12	1.68	0.51
47:BR:27:CYS:O	47:BR:40:CYS:SG	2.69	0.51
50:BU:31:LEU:O	50:BU:32:TYR:CD2	2.52	0.51
50:BU:51:TYR:CE1	50:BU:73:VAL:HG11	2.46	0.51
50:BU:75:ARG:HH11	50:BU:75:ARG:HG2	1.76	0.51
50:BU:75:ARG:HH12	50:BU:77:VAL:CA	2.23	0.51
34:BA:1318:A:C2'	52:BW:35:SER:OG	2.54	0.51
52:BW:5:LEU:CG	52:BW:6:LYS:N	2.73	0.51
57:BZ:101:ALA:HB3	57:BZ:130:VAL:HG12	1.88	0.51
57:BZ:242:SER:HB2	57:BZ:243:GLU:OE1	2.10	0.51
57:BZ:81:PHE:HD1	57:BZ:365:HIS:CD2	2.01	0.51
57:BZ:393:ASP:N	57:BZ:394:GLY:CA	2.74	0.51
57:BZ:436:ARG:HH11	57:BZ:436:ARG:HG2	1.75	0.51
55:BC:37:A:H2'	55:BC:38:A:H5'	1.90	0.51
3:AC:54:SER:HA	3:AC:57:ASN:ND2	2.24	0.51
1:AA:1019:U:OP2	1:AA:1036:G:C4'	2.58	0.51
1:AA:1051:G:H3'	1:AA:1052:C:H5''	1.92	0.51
1:AA:1095:A:C2'	1:AA:1096:A:O4'	2.58	0.51
1:AA:1100:C:C2'	1:AA:1101:U:OP1	2.58	0.51
1:AA:1029:A:H61	1:AA:1125:G:H2'	1.76	0.51
1:AA:1243:G:C2	1:AA:1244:G:C4	2.98	0.51
1:AA:1265:A:O4'	1:AA:1267:U:N3	2.43	0.51
1:AA:1327:C:H5''	1:AA:1328:G:OP2	2.10	0.51
1:AA:1381:G:C5	1:AA:1382:G:C5	2.98	0.51
1:AA:1540:G:H2'	1:AA:1541:U:C4'	2.40	0.51
1:AA:1650:G:C2'	1:AA:1651:G:O5'	2.58	0.51
1:AA:1773:A:N7	1:AA:1774:C:N3	2.58	0.51
1:AA:1782:C:C6	1:AA:1782:C:C3'	2.93	0.51
1:AA:1791:A:C3'	1:AA:1792:G:H8	2.15	0.51
1:AA:1838:C:H5'	1:AA:1839:G:OP1	2.11	0.51
1:AA:1949:G:C5	1:AA:1950:G:N7	2.79	0.51
1:AA:195:A:C4	1:AA:198:C:N4	2.79	0.51
1:AA:1669:A:C6	1:AA:1994:C:O2	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2118:U:C6	1:AA:2147:G:O6	2.64	0.51
1:AA:2168:G:H1'	1:AA:2170:A:N7	2.25	0.51
1:AA:2318:G:OP2	1:AA:2318:G:C8	2.63	0.51
1:AA:2321:G:C2'	1:AA:2321:G:N3	2.73	0.51
1:AA:2345:G:H21	1:AA:2381:C:C3'	2.23	0.51
1:AA:2607:G:N2	1:AA:2608:G:H1'	2.25	0.51
1:AA:2639:A:C5	1:AA:2778:A:C6	2.98	0.51
1:AA:2674:G:C5	1:AA:2675:A:N7	2.78	0.51
1:AA:2675:A:H5'	10:AL:29:ASN:HB3	1.91	0.51
1:AA:2682:U:H2'	1:AA:2683:C:C5'	2.40	0.51
1:AA:2713:A:H8	1:AA:2713:A:P	2.33	0.51
1:AA:2767:C:O2	1:AA:2768:C:C5	2.63	0.51
1:AA:2780:G:N2	9:AK:97:ARG:NH2	2.57	0.51
1:AA:2815:C:N3	1:AA:2816:C:C5	2.78	0.51
1:AA:295:G:O4'	1:AA:345:A:H2	1.93	0.51
1:AA:37:C:H2'	1:AA:38:A:H8	1.76	0.51
1:AA:563:G:N2	1:AA:564:C:N3	2.57	0.51
1:AA:675:A:O3'	6:AF:67:GLN:OE1	2.27	0.51
1:AA:678:C:C2	1:AA:679:C:C5	2.99	0.51
1:AA:742:G:O2'	1:AA:1676:A:H4'	2.10	0.51
1:AA:781:A:H8	4:AD:220:HIS:NE2	2.07	0.51
1:AA:675:A:C5	1:AA:804:A:C2	2.98	0.51
1:AA:815:C:C4	1:AA:1193:G:N1	2.78	0.51
1:AA:980:A:C4	1:AA:981:A:C2	2.98	0.51
3:AC:108:MET:HE3	3:AC:136:LEU:CD1	2.36	0.51
3:AC:93:TYR:CE1	3:AC:109:ASP:HB2	2.45	0.51
3:AC:108:MET:CE	3:AC:136:LEU:HD12	2.36	0.51
3:AC:163:PHE:HB3	3:AC:171:ILE:HD12	1.92	0.51
1:AA:2121:G:O2'	3:AC:167:LYS:CD	2.58	0.51
4:AD:147:LEU:HD23	4:AD:147:LEU:N	2.23	0.51
4:AD:13:ARG:NH2	4:AD:19:ALA:HB1	2.24	0.51
4:AD:246:PRO:O	4:AD:247:ALA:O	2.28	0.51
5:AE:138:PRO:O	5:AE:139:GLY:O	2.28	0.51
1:AA:2820:A:H62	5:AE:191:PRO:HB3	1.75	0.51
5:AE:103:ASP:O	5:AE:199:ARG:O	2.28	0.51
5:AE:203:LYS:CD	5:AE:203:LYS:O	2.58	0.51
5:AE:77:ILE:CG1	5:AE:78:LEU:N	2.71	0.51
6:AF:6:VAL:C	6:AF:18:ARG:HD2	2.30	0.51
6:AF:49:ALA:HB3	6:AF:94:PRO:CA	2.40	0.51
7:AG:8:LYS:CE	7:AG:100:TRP:HD1	2.23	0.51
7:AG:173:LEU:HA	7:AG:176:LEU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:44:GLY:O	7:AG:72:ARG:O	2.28	0.51
7:AG:80:PHE:CD1	7:AG:81:LYS:N	2.68	0.51
8:AH:105:LEU:N	8:AH:105:LEU:CD2	2.63	0.51
1:AA:1079:C:O2	32:AJ:133:SER:N	2.44	0.51
9:AK:44:PRO:HG2	9:AK:45:ASN:OD1	2.10	0.51
9:AK:74:ARG:C	9:AK:76:SER:N	2.54	0.51
10:AL:2:ILE:HB	10:AL:32:TYR:HA	1.91	0.51
10:AL:15:GLY:HA2	10:AL:47:ILE:CG1	2.41	0.51
10:AL:7:TYR:CA	10:AL:18:LYS:CE	2.85	0.51
10:AL:94:ARG:HG3	10:AL:96:THR:N	2.22	0.51
11:AM:28:GLY:C	11:AM:29:LYS:CG	2.78	0.51
12:AN:126:PRO:C	12:AN:127:ILE:CG1	2.78	0.51
12:AN:37:LEU:CD1	12:AN:130:LYS:HB2	2.37	0.51
12:AN:44:ALA:N	12:AN:94:VAL:HB	2.24	0.51
13:AO:83:ILE:CD1	13:AO:86:ARG:HE	2.16	0.51
14:AP:20:ARG:O	14:AP:21:THR:HG23	2.10	0.51
15:AQ:18:ASP:O	15:AQ:19:LEU:CB	2.58	0.51
15:AQ:30:VAL:CG2	15:AQ:31:SER:N	2.73	0.51
16:AR:110:VAL:O	16:AR:111:GLU:C	2.47	0.51
1:AA:445:C:OP1	16:AR:2:PRO:HB2	2.09	0.51
16:AR:47:TYR:CE1	17:AS:77:ALA:HA	2.45	0.51
18:AT:74:ALA:HB1	18:AT:105:VAL:CA	2.40	0.51
18:AT:7:ALA:H	18:AT:103:ILE:HD13	1.76	0.51
19:AU:31:HIS:CD2	19:AU:31:HIS:C	2.83	0.51
20:AV:1:MET:HG2	20:AV:33:LYS:CG	2.41	0.51
21:AW:95:PRO:CB	21:AW:130:PRO:HA	2.39	0.51
21:AW:116:VAL:CG2	21:AW:145:GLU:CG	2.88	0.51
23:AY:27:LEU:HD21	23:AY:49:LYS:N	2.25	0.51
23:AY:27:LEU:C	23:AY:30:LEU:HG	2.29	0.51
24:AZ:40:THR:O	24:AZ:44:ARG:HG3	2.10	0.51
24:AZ:5:LYS:NZ	24:AZ:59:VAL:CG2	2.74	0.51
34:BA:1034:G:C2	34:BA:1035:A:C5	2.98	0.51
34:BA:1154:G:C2	34:BA:1155:G:C5	2.98	0.51
34:BA:1196:U:C6	34:BA:1196:U:C3'	2.94	0.51
34:BA:1215:G:N2	34:BA:1216:G:C8	2.78	0.51
34:BA:1255:G:H1'	34:BA:1259:C:H1'	1.93	0.51
34:BA:1268:A:H2	34:BA:1311:G:C4	2.28	0.51
34:BA:1276:G:O2'	34:BA:1277:C:H5'	2.10	0.51
34:BA:1321:C:C6	34:BA:1321:C:H3'	2.44	0.51
34:BA:1373:G:H5'	40:BK:36:LYS:HB2	1.92	0.51
34:BA:1450:U:C1'	34:BA:1454:G:N2	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:159:G:C2	34:BA:161:A:OP2	2.63	0.51
34:BA:317:G:HO2'	34:BA:318:G:H5'	1.75	0.51
34:BA:46:G:C2	34:BA:366:C:C2	2.97	0.51
34:BA:381:C:H2'	34:BA:381:C:O2	2.10	0.51
34:BA:390:C:N3	34:BA:391:G:N7	2.59	0.51
34:BA:411:A:C5	34:BA:429:U:C5	2.98	0.51
34:BA:432:A:H3'	34:BA:432:A:C8	2.44	0.51
34:BA:458:C:N4	34:BA:464:G:C6	2.78	0.51
34:BA:55:A:H2'	34:BA:56:U:C4'	2.41	0.51
34:BA:629:G:C2	34:BA:630:G:C8	2.99	0.51
34:BA:686:U:H2'	34:BA:687:A:C8	2.45	0.51
34:BA:730:G:H2'	34:BA:731:G:C4'	2.41	0.51
34:BA:833:U:HO2'	34:BA:834:C:H6	1.59	0.51
34:BA:836:G:C6	34:BA:851:G:C6	2.99	0.51
34:BA:971:G:N2	34:BA:1363:A:OP2	2.43	0.51
1:AA:2602:A:C2	56:BD:74:C:H2'	2.43	0.51
35:BF:56:ARG:HH11	35:BF:57:PHE:N	2.07	0.51
36:BG:52:LEU:O	36:BG:53:ALA:CB	2.59	0.51
37:BH:199:ASN:CG	37:BH:200:GLU:N	2.64	0.51
37:BH:200:GLU:CG	37:BH:201:GLN:H	2.22	0.51
37:BH:19:LEU:O	37:BH:20:TYR:C	2.48	0.51
39:BJ:26:ILE:CG2	39:BJ:30:LEU:HD11	2.39	0.51
39:BJ:52:ILE:HD13	39:BJ:87:ARG:HH21	1.70	0.51
39:BJ:40:VAL:HA	39:BJ:63:TYR:HD1	1.75	0.51
40:BK:77:SER:C	40:BK:156:TRP:HZ2	2.13	0.51
41:BL:69:ARG:O	41:BL:74:PRO:HA	2.10	0.51
41:BL:6:ILE:CG1	41:BL:85:ARG:CZ	2.89	0.51
42:BM:50:LEU:HD21	42:BM:55:ALA:C	2.31	0.51
44:BO:57:THR:OG1	44:BO:59:TYR:HB2	2.10	0.51
46:BQ:56:LEU:CD1	46:BQ:60:VAL:HG22	2.41	0.51
47:BR:16:PHE:O	47:BR:17:LYS:C	2.47	0.51
47:BR:45:ARG:CG	47:BR:45:ARG:NH1	2.72	0.51
48:BS:78:TYR:C	48:BS:78:TYR:HD2	2.14	0.51
48:BS:77:ARG:NH1	48:BS:81:LEU:H	2.08	0.51
48:BS:81:LEU:O	48:BS:82:ILE:C	2.46	0.51
52:BW:18:LYS:HE2	52:BW:22:LEU:HD13	1.90	0.51
57:BZ:125:VAL:HB	57:BZ:162:ILE:N	2.25	0.51
57:BZ:220:VAL:O	57:BZ:279:LEU:CD2	2.59	0.51
31:AI:54:ALA:N	31:AI:84:GLU:C	2.60	0.51
57:BZ:495:LYS:CA	57:BZ:515:GLY:O	2.58	0.51
1:AA:1007:C:O3'	9:AK:108:PRO:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1020:A:O2'	1:AA:1021:A:N7	2.43	0.51
1:AA:1021:A:C6	1:AA:1023:U:C6	2.98	0.51
1:AA:1064:C:N4	1:AA:1065:U:C2	2.78	0.51
1:AA:1066:U:HO2'	1:AA:1068:G:P	2.33	0.51
1:AA:1212:G:H3'	1:AA:1212:G:C8	2.45	0.51
1:AA:1221:C:C4	1:AA:1229:G:N1	2.79	0.51
1:AA:1338:G:O2'	19:AU:16:LYS:NZ	2.39	0.51
1:AA:1364:G:C2	1:AA:1368:G:C5	2.99	0.51
1:AA:1513:C:H2'	1:AA:1514:U:C5	2.46	0.51
1:AA:1530:G:C5	1:AA:1531:C:N4	2.79	0.51
1:AA:1559:G:H1	1:AA:1560:G:C4'	2.09	0.51
1:AA:154:G:C2	1:AA:155:C:N3	2.79	0.51
1:AA:1675:C:OP2	1:AA:1676:A:OP2	2.28	0.51
1:AA:1750:G:O2'	1:AA:1751:C:C5'	2.59	0.51
1:AA:1803:A:C8	1:AA:1804:C:C5	2.98	0.51
1:AA:1833:U:O2	1:AA:1834:U:O2	2.28	0.51
1:AA:1871:A:H2'	1:AA:1872:A:H8	1.75	0.51
1:AA:1954:G:C2'	1:AA:1956:U:C4	2.93	0.51
1:AA:1995:U:H3'	1:AA:1995:U:C6	2.46	0.51
1:AA:220:G:O2'	1:AA:233:A:N3	2.44	0.51
1:AA:246:C:H2'	1:AA:246:C:O2	2.11	0.51
1:AA:253:C:H2'	1:AA:253:C:O2	2.11	0.51
1:AA:2014:A:C2	1:AA:2613:U:N3	2.79	0.51
1:AA:1050:A:N6	1:AA:2751:G:C4	2.79	0.51
1:AA:2808:U:H2'	1:AA:2809:A:C5'	2.25	0.51
1:AA:281:G:N2	1:AA:283:A:C4'	2.74	0.51
1:AA:2886:G:N2	1:AA:2887:U:C1'	2.74	0.51
1:AA:339:U:C6	1:AA:340:A:N7	2.79	0.51
1:AA:403:U:H4'	1:AA:404:C:OP1	2.11	0.51
1:AA:450:G:O6	1:AA:453:C:P	2.69	0.51
1:AA:481:G:H2'	1:AA:507:A:H61	1.75	0.51
1:AA:562:U:O2'	1:AA:563:G:H5'	2.11	0.51
1:AA:566:U:C6	1:AA:567:A:C8	2.99	0.51
1:AA:653:A:H62	1:AA:655:A:C1'	2.13	0.51
1:AA:685:A:O2'	1:AA:686:G:P	2.68	0.51
1:AA:775:G:N2	1:AA:787:U:O2'	2.43	0.51
1:AA:975:G:N3	1:AA:975:G:C2'	2.73	0.51
2:AB:47:C:O5'	2:AB:47:C:H6	1.93	0.51
2:AB:79:C:H2'	2:AB:80:U:C5'	2.41	0.51
3:AC:7:TYR:CZ	3:AC:11:LEU:HD13	2.44	0.51
3:AC:59:ARG:CG	3:AC:60:GLY:N	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:73:ARG:HG2	3:AC:92:ASP:CG	2.31	0.51
4:AD:107:ALA:N	4:AD:108:PRO:CD	2.71	0.51
1:AA:1819:A:N7	4:AD:179:SER:HB3	2.25	0.51
1:AA:1902:C:H4'	4:AD:242:ARG:O	2.10	0.51
5:AE:201:THR:O	5:AE:202:LYS:HB3	2.11	0.51
5:AE:57:LYS:O	5:AE:58:ARG:NH2	2.43	0.51
6:AF:46:ARG:HE	6:AF:47:GLY:N	2.07	0.51
7:AG:110:ALA:HB2	7:AG:139:LEU:HD11	1.92	0.51
8:AH:105:LEU:HB2	8:AH:113:VAL:CG1	2.33	0.51
32:AJ:40:ALA:CA	32:AJ:66:THR:OG1	2.52	0.51
9:AK:106:MET:O	9:AK:108:PRO:HD3	2.10	0.51
9:AK:16:ILE:CD1	9:AK:53:VAL:O	2.57	0.51
10:AL:117:LEU:HD23	10:AL:118:ALA:CA	2.40	0.51
11:AM:9:ASN:O	11:AM:10:PRO:C	2.49	0.51
11:AM:130:PHE:HB3	11:AM:134:ALA:HB1	1.92	0.51
13:AO:61:HIS:HA	13:AO:64:ARG:CD	2.35	0.51
13:AO:61:HIS:HD1	13:AO:64:ARG:CZ	2.20	0.51
14:AP:106:ARG:HH22	14:AP:110:LEU:CD1	2.16	0.51
15:AQ:54:ARG:HE	15:AQ:100:TYR:HD1	1.59	0.51
15:AQ:19:LEU:O	15:AQ:21:GLU:HG2	2.10	0.51
15:AQ:31:SER:OG	15:AQ:91:ARG:NH1	2.43	0.51
16:AR:88:ILE:HG12	17:AS:52:VAL:CG2	2.41	0.51
17:AS:79:VAL:HB	17:AS:81:TYR:CD1	2.45	0.51
17:AS:68:LYS:HZ3	17:AS:95:LEU:HD13	1.75	0.51
18:AT:11:ARG:HB2	18:AT:98:LYS:CD	2.41	0.51
19:AU:15:GLU:CA	19:AU:16:LYS:HE2	2.40	0.51
19:AU:24:GLY:O	19:AU:83:VAL:CG2	2.58	0.51
20:AV:32:PRO:HB2	20:AV:34:LYS:CE	2.41	0.51
21:AW:100:VAL:O	21:AW:124:ILE:CG2	2.56	0.51
21:AW:71:VAL:HG11	21:AW:74:VAL:HG23	1.91	0.51
34:BA:1004:A:H3'	34:BA:1025:U:C2	2.42	0.51
34:BA:1049:U:O4	47:BR:3:ARG:HB2	2.11	0.51
34:BA:1107:C:H2'	34:BA:1108:G:H5'	1.93	0.51
34:BA:1262:C:C2	34:BA:1263:C:C5	2.98	0.51
34:BA:1278:U:H5'	34:BA:1279:A:C5'	2.40	0.51
34:BA:1494:G:H1'	34:BA:1495:U:C5	2.45	0.51
34:BA:1406:U:O4'	34:BA:1518:A:H4'	2.11	0.51
34:BA:219:C:O5'	34:BA:219:C:H6	1.94	0.51
34:BA:247:G:C6	34:BA:248:C:C5	2.99	0.51
34:BA:386:C:C4	34:BA:387:U:C5	2.98	0.51
34:BA:25:C:H4'	34:BA:524:G:N3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:532:A:H5''	36:BG:161:GLU:OE1	2.11	0.51
34:BA:573:A:OP2	34:BA:574:A:OP2	2.28	0.51
34:BA:687:A:N3	34:BA:704:A:C6	2.79	0.51
34:BA:785:G:C6	34:BA:798:G:C6	2.98	0.51
34:BA:811:C:H5	34:BA:812:C:C2	2.28	0.51
34:BA:765:G:N2	34:BA:816:A:H2	2.06	0.51
34:BA:828:A:H4'	34:BA:828:A:OP1	2.10	0.51
35:BF:166:ASP:O	35:BF:169:LYS:HD3	2.09	0.51
35:BF:189:ASP:CB	35:BF:205:ASP:HB3	2.40	0.51
35:BF:45:GLN:O	35:BF:48:MET:HB2	2.11	0.51
36:BG:136:GLN:HA	36:BG:139:GLN:HB2	1.91	0.51
36:BG:157:ILE:CG1	36:BG:164:ARG:HG2	2.40	0.51
36:BG:179:ARG:O	36:BG:206:GLU:HG3	2.11	0.51
38:BI:20:GLN:NE2	38:BI:21:ALA:N	2.59	0.51
38:BI:63:ARG:C	38:BI:66:MET:HG2	2.30	0.51
40:BK:140:ASP:O	40:BK:144:MET:HB2	2.10	0.51
40:BK:71:PRO:HD2	40:BK:100:ALA:HB2	1.92	0.51
41:BL:14:ARG:HB3	41:BL:83:ILE:HG21	1.92	0.51
41:BL:6:ILE:HG21	41:BL:85:ARG:NH2	2.26	0.51
44:BO:58:PRO:HB2	44:BO:93:GLN:HG3	1.91	0.51
34:BA:1226:C:H5	46:BQ:104:ARG:HB2	1.66	0.51
48:BS:71:GLN:CG	48:BS:75:PRO:HB3	2.23	0.51
48:BS:78:TYR:CD2	48:BS:78:TYR:C	2.84	0.51
49:BT:3:LYS:C	49:BT:4:ILE:HD13	2.30	0.51
51:BV:49:LYS:HE3	51:BV:49:LYS:N	2.22	0.51
52:BW:22:LEU:C	52:BW:24:ALA:N	2.64	0.51
52:BW:64:GLU:CG	52:BW:65:ASN:N	2.73	0.51
57:BZ:141:VAL:CG2	57:BZ:164:TYR:CZ	2.85	0.51
57:BZ:24:LYS:CG	57:BZ:25:LEU:N	2.73	0.51
57:BZ:377:GLY:C	57:BZ:582:PRO:HG2	2.30	0.51
37:BH:192:GLU:CD	37:BH:192:GLU:H	2.11	0.51
8:AH:107:VAL:HG11	8:AH:152:ARG:HD2	1.92	0.51
6:AF:146:ALA:O	6:AF:148:LEU:HD22	2.10	0.51
6:AF:161:GLU:HA	6:AF:161:GLU:OE2	2.11	0.51
1:AA:1131:G:C2	9:AK:74:ARG:HD2	2.46	0.51
1:AA:52:A:N7	1:AA:117:G:N2	2.58	0.51
1:AA:1223:C:O2'	1:AA:1225:C:H5	1.93	0.51
1:AA:1227:A:H2'	1:AA:1228:G:C5'	2.41	0.51
1:AA:1307:A:H4'	1:AA:1379:A:H62	1.75	0.51
1:AA:1467:C:C4	1:AA:1468:C:N4	2.79	0.51
1:AA:1749:A:H2'	1:AA:1750:G:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1706:U:N3	1:AA:1757:U:H5''	2.21	0.51
1:AA:1890:A:N3	1:AA:1891:G:H1'	2.26	0.51
1:AA:1924:C:C4	1:AA:1925:C:C5	2.98	0.51
1:AA:1996:C:OP1	1:AA:1996:C:C5	2.64	0.51
1:AA:1854:A:H1'	1:AA:2087:G:N2	2.25	0.51
1:AA:2205:C:C2'	1:AA:2206:C:H5'	2.40	0.51
1:AA:2255:G:N2	1:AA:2256:G:H1'	2.25	0.51
1:AA:2298:A:H62	1:AA:2318:G:H21	1.58	0.51
1:AA:2323:G:N2	1:AA:2324:C:C2	2.79	0.51
1:AA:2346:A:H4'	1:AA:2383:G:C5'	2.35	0.51
1:AA:2413:G:H2'	1:AA:2414:G:O4'	2.09	0.51
1:AA:2415:G:C6	1:AA:2416:C:C4	2.99	0.51
1:AA:2468:G:O2'	1:AA:2469:A:H8	1.93	0.51
1:AA:2588:G:O6	1:AA:2589:A:N6	2.42	0.51
1:AA:270(N):G:H3'	1:AA:270(O):U:C6	2.45	0.51
1:AA:2748:A:N1	1:AA:2757:A:N6	2.59	0.51
1:AA:2779:U:H3'	1:AA:2779:U:C6	2.46	0.51
1:AA:471:A:N7	1:AA:472:A:N7	2.59	0.51
1:AA:507:A:O4'	1:AA:509:C:C2	2.63	0.51
1:AA:59:U:C3'	1:AA:60:G:H5''	2.40	0.51
1:AA:72:U:H5	1:AA:112:U:C2'	2.23	0.51
1:AA:746:A:HO2'	1:AA:747:U:P	2.22	0.51
1:AA:896:A:N1	1:AA:897:C:C4	2.78	0.51
1:AA:90:U:C6	1:AA:90:U:OP1	2.63	0.51
1:AA:993:G:C5	1:AA:994:C:N4	2.79	0.51
2:AB:32:C:H2'	2:AB:33:G:H8	1.71	0.51
2:AB:57:A:C3'	2:AB:57:A:C8	2.94	0.51
2:AB:58:A:N6	2:AB:59:A:C6	2.79	0.51
2:AB:82:G:HO2'	2:AB:83:G:P	2.34	0.51
4:AD:250:TRP:CA	4:AD:250:TRP:CE3	2.92	0.51
5:AE:120:TRP:CG	5:AE:121:ASN:N	2.77	0.51
5:AE:4:ILE:HG12	5:AE:30:PRO:HB3	1.91	0.51
5:AE:52:LEU:CA	5:AE:74:PRO:HA	2.29	0.51
5:AE:91:VAL:HG11	5:AE:93:VAL:CG2	2.37	0.51
6:AF:177:ALA:N	6:AF:178:PRO:CD	2.74	0.51
7:AG:135:LEU:HD11	7:AG:137:GLU:O	2.11	0.51
7:AG:44:GLY:CA	7:AG:72:ARG:HG2	2.39	0.51
7:AG:47:LYS:CD	7:AG:49:ASP:OD2	2.53	0.51
8:AH:85:LYS:HZ2	8:AH:85:LYS:CB	2.24	0.51
32:AJ:105:LEU:HD22	32:AJ:123:ALA:HB3	1.92	0.51
9:AK:99:LEU:O	9:AK:102:ALA:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:13:TRP:C	9:AK:14:VAL:CG2	2.79	0.51
9:AK:8:GLN:OE1	9:AK:8:GLN:HA	2.10	0.51
10:AL:70:LYS:HD3	10:AL:107:ARG:HH12	1.76	0.51
11:AM:92:GLU:OE2	11:AM:92:GLU:HA	2.09	0.51
12:AN:42:ILE:O	12:AN:42:ILE:CG2	2.58	0.51
1:AA:2494:G:O2'	12:AN:81:VAL:O	2.24	0.51
12:AN:9:TYR:N	12:AN:9:TYR:CD2	2.71	0.51
13:AO:65:LEU:O	13:AO:66:VAL:C	2.46	0.51
14:AP:26:LEU:CD1	14:AP:37:ALA:HB1	2.40	0.51
15:AQ:34:VAL:O	15:AQ:44:ASP:O	2.29	0.51
15:AQ:5:ALA:O	15:AQ:8:LYS:HB2	2.11	0.51
15:AQ:7:ILE:CG1	15:AQ:8:LYS:N	2.68	0.51
17:AS:34:GLU:O	17:AS:35:LEU:CD1	2.58	0.51
21:AW:176:PRO:HB2	21:AW:179:ASP:H	1.75	0.51
21:AW:39:VAL:HG12	21:AW:39:VAL:O	2.11	0.51
21:AW:99:TYR:CZ	21:AW:124:ILE:HB	2.46	0.51
23:AY:27:LEU:HG	23:AY:48:LEU:HB3	1.92	0.51
23:AY:52:ILE:HA	23:AY:55:LEU:HD13	1.93	0.51
34:BA:1039:C:O2'	34:BA:1040:U:H5'	2.11	0.51
34:BA:1064:G:N3	34:BA:1066:C:C4	2.78	0.51
34:BA:1104:G:H4'	35:BF:111:ARG:CZ	2.40	0.51
34:BA:1205:U:H1'	36:BG:195:VAL:HG22	1.93	0.51
34:BA:267:C:H2'	34:BA:268:C:C6	2.46	0.51
34:BA:29:G:H4'	34:BA:295:C:O3'	2.10	0.51
34:BA:308:C:O2	34:BA:309:G:C8	2.64	0.51
34:BA:494:U:C2'	34:BA:495:A:H5'	2.41	0.51
34:BA:754:C:H1'	48:BS:69:TYR:CB	2.41	0.51
34:BA:817:C:N1	34:BA:819:A:H5'	2.25	0.51
34:BA:833:U:O2'	34:BA:834:C:H6	1.92	0.51
34:BA:834:C:O2'	34:BA:835:U:O4'	2.28	0.51
34:BA:834:C:C4	34:BA:853:G:N1	2.79	0.51
34:BA:924:C:O2'	34:BA:925:G:H5'	2.10	0.51
34:BA:931:C:H2'	34:BA:932:C:H5	1.72	0.51
34:BA:990:C:H2'	34:BA:991:U:N1	2.26	0.51
56:BE:41:C:C2'	56:BE:42:C:H5''	2.40	0.51
35:BF:20:GLU:C	35:BF:39:ILE:HG13	2.30	0.51
36:BG:179:ARG:HD2	36:BG:206:GLU:OE1	2.10	0.51
36:BG:39:ILE:HG21	36:BG:57:ILE:CD1	2.40	0.51
37:BH:123:HIS:CB	37:BH:125:HIS:HE1	2.24	0.51
37:BH:30:LYS:HG2	37:BH:35:ARG:CD	2.40	0.51
37:BH:30:LYS:H	37:BH:34:GLU:HB3	1.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:133:TYR:O	38:BI:136:MET:HB2	2.11	0.51
38:BI:80:ILE:N	38:BI:80:ILE:HD12	2.24	0.51
38:BI:95:ALA:O	38:BI:96:PRO:O	2.27	0.51
41:BL:121:ASP:O	41:BL:122:ARG:C	2.49	0.51
41:BL:97:VAL:HG12	41:BL:99:GLU:OE2	2.10	0.51
42:BM:11:LYS:CB	42:BM:108:VAL:HG12	2.41	0.51
42:BM:127:LYS:HD2	56:BE:30:G:O2'	2.11	0.51
44:BO:102:GLY:HA2	44:BO:105:VAL:HG23	1.90	0.51
44:BO:12:ARG:HH11	44:BO:40:ILE:HG23	1.75	0.51
44:BO:41:THR:HB	44:BO:71:LYS:HD3	1.92	0.51
45:BP:84:LEU:O	45:BP:100:ILE:HG22	2.10	0.51
45:BP:12:ARG:HH11	45:BP:12:ARG:HB3	1.74	0.51
36:BG:12:LEU:CD2	47:BR:58:LYS:H	2.20	0.51
48:BS:21:ASP:OD2	48:BS:24:SER:CB	2.59	0.51
50:BU:29:HIS:CG	50:BU:30:PRO:HD2	2.45	0.51
50:BU:10:VAL:HB	50:BU:55:ASP:N	2.26	0.51
39:BJ:98:LEU:CG	51:BV:28:GLU:HG3	2.41	0.51
53:BX:18:GLN:O	53:BX:19:SER:C	2.49	0.51
57:BZ:11:ILE:CG1	57:BZ:112:VAL:HG12	2.41	0.51
57:BZ:253:LYS:CG	57:BZ:271:GLY:HA2	2.41	0.51
57:BZ:400:TYR:H	57:BZ:470:SER:H	1.58	0.51
57:BZ:422:ARG:HH11	57:BZ:480:VAL:HG22	0.71	0.51
57:BZ:6:ARG:CZ	57:BZ:196:ALA:N	2.74	0.51
1:AA:1503:U:H2'	1:AA:1504:C:H6	1.70	0.51
55:BC:25:C:O2'	55:BC:26:A:H5'	2.10	0.51
55:BC:35:A:C2'	55:BC:36:A:C8	2.86	0.51
23:AY:1:MET:SD	23:AY:3:LYS:HB2	2.51	0.51
1:AA:2797:U:H3'	1:AA:2797:U:H6	1.75	0.51
34:BA:491:G:O2'	34:BA:492:G:H5'	2.09	0.51
34:BA:1123:A:O4'	34:BA:1123:A:OP2	2.27	0.51
1:AA:1024:G:C6	1:AA:1134:G:H1'	2.46	0.51
1:AA:1099:G:C2	1:AA:1100:C:C6	2.99	0.51
1:AA:116:C:H4'	1:AA:127:A:C4'	2.41	0.51
1:AA:1176:G:C5'	1:AA:1177:A:C8	2.94	0.51
1:AA:1226:G:C8	1:AA:1226:G:C3'	2.93	0.51
1:AA:1476:C:C5	1:AA:1477:A:C6	2.98	0.51
1:AA:14:A:H2	1:AA:2625:G:HO2'	1.57	0.51
1:AA:1528:A:H3'	1:AA:1529:A:O4'	2.11	0.51
1:AA:1607:C:O2'	1:AA:1608:A:OP2	2.25	0.51
1:AA:1838:C:C2'	1:AA:1898:U:O4	2.58	0.51
1:AA:183:C:H1'	1:AA:433:C:C1'	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1844:C:C2	1:AA:1845:G:C8	2.98	0.51
1:AA:2046:G:C4	1:AA:2047:U:C5	2.98	0.51
1:AA:2052:G:O2'	1:AA:2053:G:H5'	2.11	0.51
1:AA:2081:C:C2	1:AA:2082:A:H8	2.29	0.51
1:AA:2208:U:H1'	1:AA:2217:G:N2	2.25	0.51
1:AA:2260:C:H2'	1:AA:2261:C:C6	2.46	0.51
1:AA:230:U:H2'	1:AA:231:C:O4'	2.11	0.51
1:AA:2365:G:H4'	22:AX:60:PHE:CE2	2.45	0.51
1:AA:2376:A:C8	1:AA:2376:A:OP1	2.61	0.51
1:AA:2400:G:C6	1:AA:2401:U:N3	2.79	0.51
1:AA:2409:G:C2	1:AA:2410:G:H1'	2.46	0.51
1:AA:2431:U:O2'	1:AA:2432:A:H8	1.92	0.51
1:AA:1128:A:C2	1:AA:2490:G:OP1	2.64	0.51
1:AA:2497:A:H1'	1:AA:2498:C:C4	2.44	0.51
1:AA:2512:C:H2'	1:AA:2513:G:C5'	2.40	0.51
1:AA:2626:C:C2	1:AA:2627:G:C8	2.98	0.51
1:AA:2711:A:N6	1:AA:2714:G:C6	2.79	0.51
1:AA:271:G:C2	1:AA:272:G:C8	2.99	0.51
1:AA:2756:U:C2	1:AA:2758:A:C6	2.98	0.51
1:AA:279:C:N3	1:AA:360:G:O6	2.44	0.51
1:AA:2805:G:C3'	1:AA:2807:G:C5'	2.86	0.51
1:AA:2867:G:H5'	1:AA:2868:A:OP1	2.11	0.51
1:AA:2837:G:N2	1:AA:2882:A:C4	2.79	0.51
1:AA:2887:U:C2	1:AA:2888:C:C5	2.99	0.51
1:AA:302:C:H2'	1:AA:303:U:C6	2.45	0.51
1:AA:324:A:C2	1:AA:325:G:C1'	2.93	0.51
1:AA:450:G:H3'	1:AA:451:C:H5'	1.93	0.51
1:AA:483:A:C2	1:AA:484:C:O4'	2.64	0.51
1:AA:504:U:H6	1:AA:504:U:OP2	1.94	0.51
1:AA:510:C:C2	1:AA:511:U:C6	2.98	0.51
1:AA:533:G:C5	1:AA:534:U:N3	2.79	0.51
1:AA:655:A:O3'	1:AA:656:G:O4'	2.28	0.51
1:AA:715:G:H2'	1:AA:716:A:O5'	2.11	0.51
1:AA:730:C:C3'	1:AA:731:C:H5'	2.40	0.51
1:AA:848:G:N2	1:AA:931:G:N7	2.57	0.51
1:AA:569:U:H1'	1:AA:947:G:O4'	2.10	0.51
1:AA:84:A:N6	1:AA:99:U:O2'	2.44	0.51
2:AB:14:U:C6	2:AB:14:U:C3'	2.93	0.51
2:AB:24:G:C8	2:AB:24:G:O5'	2.62	0.51
2:AB:75:G:H21	21:AW:27:VAL:HG21	1.76	0.51
3:AC:127:LEU:HA	3:AC:130:ILE:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:131:LEU:HB2	3:AC:137:LEU:HB2	1.92	0.51
3:AC:62:VAL:HG11	3:AC:192:PHE:CA	2.29	0.51
4:AD:136:ILE:CG2	4:AD:165:ILE:HG21	2.41	0.51
4:AD:168:ARG:CD	4:AD:173:VAL:HG22	2.29	0.51
4:AD:176:ARG:NH1	4:AD:176:ARG:CG	2.67	0.51
4:AD:142:VAL:CG1	4:AD:193:VAL:HA	2.21	0.51
4:AD:205:VAL:HG13	4:AD:205:VAL:O	2.11	0.51
4:AD:56:GLY:N	4:AD:217:ARG:O	2.44	0.51
4:AD:63:ARG:HG2	4:AD:65:ILE:CG1	2.40	0.51
4:AD:69:ARG:C	4:AD:70:TRP:CG	2.83	0.51
1:AA:2210:G:O6	4:AD:70:TRP:CZ3	2.64	0.51
4:AD:75:ILE:HD13	4:AD:99:ASP:CB	2.39	0.51
5:AE:148:GLY:O	5:AE:149:ARG:HG3	2.11	0.51
5:AE:161:GLY:O	5:AE:163:GLU:OE1	2.29	0.51
5:AE:109:LYS:H	5:AE:191:PRO:HD3	1.74	0.51
5:AE:47:VAL:HA	5:AE:48:GLN:HE22	1.75	0.51
1:AA:2637:U:OP1	5:AE:81:ILE:HD11	2.10	0.51
6:AF:185:ASP:HA	6:AF:188:ARG:CG	2.41	0.51
6:AF:8:GLN:HB3	6:AF:18:ARG:HB2	1.93	0.51
6:AF:34:TRP:CE3	11:AM:8:PRO:HB2	2.46	0.51
7:AG:62:LEU:HD23	7:AG:143:GLU:CG	2.40	0.51
8:AH:124:GLU:C	8:AH:126:PRO:HD2	2.31	0.51
8:AH:29:PRO:N	8:AH:79:VAL:O	2.43	0.51
32:AJ:27:LEU:O	32:AJ:29:GLN:N	2.38	0.51
9:AK:66:LYS:N	9:AK:69:GLN:OE1	2.44	0.51
10:AL:12:ASP:N	10:AL:14:THR:HG22	2.24	0.51
10:AL:11:ALA:HB1	10:AL:97:ARG:NH1	2.22	0.51
11:AM:96:THR:OG1	11:AM:112:LEU:HD11	2.11	0.51
11:AM:17:LYS:HB2	11:AM:17:LYS:HZ2	1.76	0.51
12:AN:37:LEU:HD23	12:AN:100:GLY:CA	2.40	0.51
13:AO:8:ARG:NH2	13:AO:17:ARG:CD	2.74	0.51
14:AP:106:ARG:O	14:AP:106:ARG:NH1	2.44	0.51
14:AP:78:LEU:HD22	14:AP:78:LEU:O	2.10	0.51
1:AA:2876:G:OP1	15:AQ:2:ASN:HB2	2.11	0.51
16:AR:108:GLU:O	16:AR:110:VAL:N	2.43	0.51
16:AR:25:TRP:O	16:AR:26:GLY:C	2.49	0.51
17:AS:66:ARG:HE	17:AS:95:LEU:CB	2.12	0.51
17:AS:79:VAL:HG12	17:AS:81:TYR:CD1	2.46	0.51
1:AA:24:G:O2'	18:AT:77:ASP:OD1	2.27	0.51
20:AV:46:LYS:NZ	20:AV:49:VAL:CG2	2.74	0.51
20:AV:7:VAL:C	20:AV:8:LYS:HD2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:19:ARG:HE	21:AW:24:LEU:CD2	2.22	0.51
22:AX:44:ARG:HG3	22:AX:77:ARG:HG3	1.92	0.51
24:AZ:38:GLU:O	24:AZ:38:GLU:HG2	2.11	0.51
34:BA:1026:G:C8	34:BA:1027:C:H6	2.28	0.51
34:BA:1148:U:O2	34:BA:1148:U:C2'	2.58	0.51
34:BA:1153:C:H2'	34:BA:1154:G:H8	1.65	0.51
34:BA:1163:C:H2'	34:BA:1164:G:H5'	1.92	0.51
34:BA:1202:G:C2'	34:BA:1203:C:O5'	2.58	0.51
34:BA:1048:G:H1'	34:BA:1215:G:H5'	1.92	0.51
34:BA:1251:A:H2'	34:BA:1252:A:C5	2.45	0.51
34:BA:978:A:C6	34:BA:1318:A:N6	2.79	0.51
34:BA:1370:G:H5''	42:BM:12:GLU:HG3	1.92	0.51
34:BA:1435:G:N2	34:BA:1436:U:C4	2.79	0.51
34:BA:1442:G:C2'	34:BA:1442:G:N3	2.73	0.51
58:BA:1601:NMY:O18	58:BA:1601:NMY:H232	2.10	0.51
34:BA:191(D):U:O2'	34:BA:191(E):G:H5'	2.11	0.51
34:BA:280:C:C5'	34:BA:281:G:OP2	2.57	0.51
34:BA:295:C:C2'	34:BA:296:U:O5'	2.59	0.51
34:BA:317:G:C2'	34:BA:318:G:H5'	2.39	0.51
34:BA:49:U:C4	34:BA:364:A:N7	2.79	0.51
34:BA:45:U:H2'	34:BA:46:G:C8	2.45	0.51
34:BA:553:A:C2'	34:BA:554:C:O4'	2.59	0.51
34:BA:595:G:H8	34:BA:641:U:O4	1.93	0.51
34:BA:657:G:H4'	48:BS:28:GLN:NE2	2.25	0.51
34:BA:775:G:C4	34:BA:776:G:N7	2.78	0.51
34:BA:782:A:N1	34:BA:801:U:C2	2.79	0.51
34:BA:808:C:C4	34:BA:809:G:N7	2.79	0.51
34:BA:831:U:C2	34:BA:832:C:C5	2.99	0.51
56:BE:18:G:H22	56:BE:57:G:H3'	1.75	0.51
56:BE:68:C:H2'	56:BE:69:G:H5''	1.92	0.51
35:BF:217:ARG:O	35:BF:220:ASP:CB	2.52	0.51
36:BG:22:TRP:CZ2	36:BG:33:LEU:HG	2.45	0.51
34:BA:540:G:N2	37:BH:42:GLN:NE2	2.56	0.51
37:BH:76:ARG:HG3	37:BH:207:TYR:CE2	2.46	0.51
39:BJ:78:GLU:O	39:BJ:81:ILE:CB	2.57	0.51
42:BM:97:LYS:NZ	42:BM:102:LEU:HB3	2.25	0.51
43:BN:48:THR:CA	43:BN:62:HIS:HB3	2.40	0.51
36:BG:12:LEU:CD1	47:BR:57:ARG:HG3	2.41	0.51
49:BT:14:ASN:HA	49:BT:42:ARG:NH2	2.25	0.51
49:BT:26:ARG:HD2	49:BT:31:LYS:H	1.73	0.51
51:BV:22:VAL:HG22	51:BV:55:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:17:THR:O	54:BY:22:ARG:NH2	2.43	0.51
57:BZ:110:ARG:NH2	57:BZ:117:PHE:HE2	2.08	0.51
32:AJ:29:GLN:CG	57:BZ:431:PRO:HB2	2.38	0.51
23:AY:7:GLU:CD	23:AY:7:GLU:H	2.13	0.51
34:BA:1031:G:O2'	34:BA:1032:A:H5'	2.10	0.51
1:AA:1011:G:OP2	16:AR:75:ASN:CG	2.50	0.51
1:AA:1077:A:H5'	1:AA:1078:U:OP2	2.11	0.51
1:AA:1303:G:O2'	1:AA:1641:A:N1	2.44	0.51
1:AA:1321:A:N3	1:AA:1321:A:C2'	2.74	0.51
1:AA:1332:G:H5''	1:AA:1333:C:OP2	2.11	0.51
1:AA:134:C:O5'	1:AA:134:C:H6	1.94	0.51
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.46	0.51
1:AA:1448:G:H21	1:AA:1529:A:H2	1.59	0.51
1:AA:1634:A:O3'	1:AA:1635:G:N7	2.43	0.51
1:AA:1638:C:H5''	1:AA:2710:C:C2'	2.40	0.51
1:AA:1670:C:O2'	1:AA:1671:U:H5'	2.09	0.51
1:AA:1687:G:H1'	1:AA:1702:G:N2	2.26	0.51
1:AA:1834:U:H1'	1:AA:1969:A:N3	2.25	0.51
1:AA:188:G:H2'	1:AA:189:G:O4'	2.11	0.51
1:AA:2000:G:OP2	13:AO:2:ARG:CG	2.59	0.51
1:AA:2134:A:O4'	1:AA:2134:A:OP2	2.28	0.51
1:AA:215:G:O4'	1:AA:216:A:H4'	2.11	0.51
1:AA:2197:U:O2'	1:AA:2198:A:N3	2.37	0.51
1:AA:2216:G:O5'	1:AA:2216:G:C8	2.62	0.51
1:AA:2262:U:O4	22:AX:15:ASP:O	2.28	0.51
1:AA:2301:C:N3	1:AA:2302:G:N7	2.58	0.51
1:AA:2424:C:H5''	1:AA:2425:A:H5'	1.92	0.51
1:AA:2462:U:C4	1:AA:2463:C:C4	2.98	0.51
1:AA:2594:C:C2'	1:AA:2595:G:H5'	2.40	0.51
1:AA:2666:C:C2'	1:AA:2667:C:C5'	2.86	0.51
1:AA:2690:C:HO2'	1:AA:2691:C:P	2.32	0.51
1:AA:270:A:OP2	1:AA:270(X):G:N2	2.37	0.51
1:AA:2754:U:H6	1:AA:2754:U:O5'	1.94	0.51
1:AA:2792:G:C2'	1:AA:2805:G:N2	2.73	0.51
1:AA:2884:U:C2'	1:AA:2885:C:H5'	2.40	0.51
1:AA:30:G:C5	1:AA:31:C:C5	2.98	0.51
1:AA:364:C:H2'	1:AA:365:C:H6	1.62	0.51
1:AA:383:U:O2	1:AA:385:C:N4	2.43	0.51
1:AA:393:C:H2'	1:AA:394:A:O4'	2.11	0.51
1:AA:415:A:N1	1:AA:416:C:O2	2.43	0.51
1:AA:424:G:HO2'	1:AA:425:G:H5'	1.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:429:A:C2'	1:AA:430:G:C8	2.89	0.51
1:AA:447:A:O2'	1:AA:449:A:N6	2.43	0.51
1:AA:449:A:O2'	6:AF:52:LYS:NZ	2.37	0.51
1:AA:452:G:H5''	1:AA:453:C:OP2	2.10	0.51
1:AA:47:C:C6	1:AA:47:C:O5'	2.55	0.51
1:AA:547:A:C5	1:AA:548:A:C5	2.99	0.51
1:AA:637:A:H4'	1:AA:638:G:C4'	2.41	0.51
1:AA:714:U:O2'	1:AA:715:G:N7	2.40	0.51
1:AA:729:G:H2'	1:AA:730:C:C1'	2.40	0.51
1:AA:71:A:C2	1:AA:73:A:C6	2.99	0.51
1:AA:771:G:C4	1:AA:772:C:C5	2.98	0.51
1:AA:809:G:C5	1:AA:810:U:C5	2.98	0.51
1:AA:971:C:OP2	1:AA:974(A):C:C5	2.64	0.51
1:AA:977:G:N7	1:AA:987:G:N1	2.58	0.51
1:AA:989:G:C2'	1:AA:990:A:OP2	2.58	0.51
2:AB:100:G:C5	2:AB:101:A:N7	2.78	0.51
1:AA:915:C:H1'	2:AB:100:G:H4'	1.92	0.51
3:AC:10:LEU:CD1	3:AC:32:LEU:HD23	2.40	0.51
3:AC:63:SER:CB	3:AC:155:GLU:HG2	2.41	0.51
3:AC:49:ILE:HD11	3:AC:165:ASN:ND2	2.24	0.51
4:AD:146:GLU:HA	4:AD:154:LYS:CG	2.41	0.51
4:AD:225:ALA:HB3	4:AD:231:HIS:NE2	2.25	0.51
1:AA:1804:C:O3'	4:AD:250:TRP:CH2	2.64	0.51
4:AD:244:ARG:O	4:AD:252:TRP:CG	2.63	0.51
4:AD:71:ASP:O	4:AD:72:LYS:CB	2.59	0.51
4:AD:90:ALA:HA	4:AD:91:ARG:HH12	1.74	0.51
5:AE:13:ARG:H	11:AM:58:THR:HG23	129.17	0.51
6:AF:12:LEU:HD22	6:AF:129:PHE:N	2.26	0.51
6:AF:24:LEU:H	6:AF:25:PRO:CD	2.21	0.51
6:AF:36:VAL:HG11	6:AF:183:VAL:CG2	2.41	0.51
7:AG:39:ILE:HG13	7:AG:157:ILE:HD11	1.92	0.51
7:AG:14:GLU:CD	7:AG:15:VAL:N	2.63	0.51
7:AG:8:LYS:NZ	7:AG:176:LEU:HD11	2.23	0.51
7:AG:56:ALA:HB3	7:AG:68:PRO:CB	2.41	0.51
8:AH:8:PRO:O	8:AH:9:ILE:HG13	2.11	0.51
32:AJ:22:PRO:CD	32:AJ:23:VAL:H	2.22	0.51
32:AJ:51:ALA:O	32:AJ:72:PRO:CA	2.59	0.51
32:AJ:75:SER:OG	32:AJ:130:SER:CB	2.31	0.51
32:AJ:76:TYR:CD2	32:AJ:80:LYS:HE2	2.45	0.51
1:AA:1075:C:C1'	32:AJ:90:LYS:CE	2.65	0.51
10:AL:70:LYS:HZ1	10:AL:102:VAL:HG13	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:111:PHE:O	10:AL:114:ILE:N	2.44	0.51
10:AL:61:VAL:HA	10:AL:83:ALA:HB2	1.93	0.51
11:AM:98:GLU:O	11:AM:100:LEU:HD23	2.11	0.51
11:AM:122:PRO:HB2	11:AM:138:LEU:CA	2.40	0.51
11:AM:131:SER:O	11:AM:135:LEU:HD13	2.11	0.51
12:AN:109:VAL:HG11	12:AN:114:ALA:CA	2.40	0.51
13:AO:28:LEU:C	13:AO:28:LEU:HD13	2.31	0.51
13:AO:75:LEU:HD23	13:AO:78:LYS:CB	2.40	0.51
13:AO:99:LYS:HA	13:AO:112:ALA:CB	2.39	0.51
14:AP:69:VAL:CG1	14:AP:73:LEU:HD21	2.41	0.51
14:AP:49:VAL:CG2	14:AP:80:LEU:HG	2.40	0.51
16:AR:67:ALA:HB1	16:AR:71:GLN:NE2	2.15	0.51
16:AR:97:ASP:C	16:AR:101:ARG:NE	2.56	0.51
17:AS:15:GLU:CA	17:AS:100:ARG:NH1	2.73	0.51
17:AS:15:GLU:CD	17:AS:16:PRO:CD	2.79	0.51
17:AS:66:ARG:HE	17:AS:95:LEU:HD12	1.73	0.51
18:AT:25:ARG:C	18:AT:71:VAL:HG13	2.31	0.51
18:AT:29:LEU:C	18:AT:29:LEU:HD23	2.31	0.51
19:AU:50:LYS:HZ3	19:AU:85:PRO:CG	2.24	0.51
20:AV:40:GLU:N	20:AV:62:GLU:OE2	2.44	0.51
21:AW:40:ASP:O	21:AW:44:PHE:HB2	2.10	0.51
21:AW:53:ILE:O	21:AW:53:ILE:HG22	2.11	0.51
22:AX:76:GLY:CA	22:AX:78:TYR:HE1	2.24	0.51
23:AY:22:GLU:HA	23:AY:22:GLU:OE1	2.11	0.51
24:AZ:23:LEU:HD11	24:AZ:53:LEU:CD1	2.40	0.51
24:AZ:5:LYS:NZ	24:AZ:57:GLU:HB2	2.25	0.51
34:BA:1105:A:C2'	34:BA:1106:G:H5'	2.38	0.51
34:BA:1162:C:O2'	34:BA:1163:C:H5'	2.11	0.51
34:BA:1189:C:O2'	34:BA:1190:G:H5'	2.11	0.51
34:BA:1213:A:C2	34:BA:1215:G:C4	2.99	0.51
34:BA:1303:C:N4	34:BA:1304:G:C2	2.79	0.51
34:BA:1314:C:N4	34:BA:1324:A:H61	2.09	0.51
34:BA:1430:C:O2'	34:BA:1431:C:C5'	2.59	0.51
34:BA:1453:G:H2'	34:BA:1454:G:C5'	2.39	0.51
34:BA:300:A:O5'	34:BA:300:A:H8	1.94	0.51
34:BA:322:C:H2'	34:BA:323:U:O4'	2.11	0.51
34:BA:62:U:H4'	34:BA:385:C:O2	2.10	0.51
34:BA:474:G:H2'	34:BA:475:G:H8	1.76	0.51
34:BA:67:C:C4'	34:BA:172:A:C1'	2.89	0.51
34:BA:652:U:C2	34:BA:752:G:N2	2.79	0.51
34:BA:866:C:C5	34:BA:867:G:C1'	2.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:955:U:H2'	34:BA:956:U:H6	1.76	0.51
56:BD:74:C:C1'	56:BD:75:C:OP2	2.59	0.51
56:BE:21:A:C8	56:BE:46:G:O6	2.64	0.51
56:BE:16:U:O4	56:BE:59:U:O2	2.28	0.51
35:BF:171:ALA:HA	35:BF:174:VAL:CB	2.40	0.51
35:BF:44:LEU:O	35:BF:45:GLN:C	2.48	0.51
35:BF:60:ASP:CG	35:BF:64:ARG:HH22	2.14	0.51
35:BF:73:THR:O	35:BF:74:LYS:C	2.48	0.51
36:BG:150:LYS:HZ3	36:BG:152:ILE:CG2	2.23	0.51
36:BG:11:ARG:HH11	36:BG:15:THR:CG2	2.23	0.51
36:BG:28:GLN:NE2	36:BG:29:TYR:H	2.08	0.51
37:BH:101:LEU:O	37:BH:104:VAL:N	2.43	0.51
38:BI:127:ASN:O	38:BI:127:ASN:OD1	2.29	0.51
38:BI:147:ASP:O	38:BI:150:ARG:N	2.44	0.51
37:BH:88:VAL:HG13	38:BI:97:GLY:HA3	1.93	0.51
39:BJ:6:VAL:O	39:BJ:6:VAL:HG13	2.11	0.51
40:BK:42:ILE:HD13	40:BK:116:ALA:CB	2.41	0.51
41:BL:111:ILE:HG13	41:BL:120:THR:HG22	1.92	0.51
43:BN:23:ILE:HG13	43:BN:85:LEU:CB	2.30	0.51
44:BO:110:ASP:HB3	51:BV:85:LEU:HB3	1.92	0.51
44:BO:68:ALA:O	44:BO:72:ALA:HB2	2.11	0.51
45:BP:32:PHE:HB2	45:BP:84:LEU:CD1	2.36	0.51
45:BP:35:GLY:HA3	45:BP:60:LEU:CB	2.40	0.51
45:BP:85:ILE:HD11	45:BP:99:HIS:H	1.73	0.51
48:BS:11:VAL:C	48:BS:13:GLN:N	2.62	0.51
48:BS:76:GLU:O	48:BS:77:ARG:C	2.49	0.51
48:BS:6:GLU:C	48:BS:8:LYS:N	2.64	0.51
49:BT:57:ARG:HA	49:BT:60:LEU:HD12	1.92	0.51
49:BT:57:ARG:O	49:BT:58:TYR:C	2.48	0.51
50:BU:4:LYS:C	50:BU:5:VAL:HG23	2.31	0.51
51:BV:49:LYS:CE	51:BV:49:LYS:H	2.20	0.51
52:BW:71:LEU:O	52:BW:74:PHE:CD1	2.64	0.51
53:BX:48:LYS:O	53:BX:49:ALA:C	2.48	0.51
57:BZ:19:THR:HB	57:BZ:22:VAL:H	1.75	0.51
57:BZ:22:VAL:HG11	57:BZ:74:ASP:CG	2.30	0.51
46:BQ:50:GLU:O	46:BQ:54:VAL:HG23	2.11	0.51
1:AA:1511:A:H3'	1:AA:1511:A:C8	2.45	0.51
14:AP:59:LYS:HD3	14:AP:59:LYS:N	2.26	0.51
1:AA:2191:G:H21	1:AA:2192:G:H1'	1.75	0.51
34:BA:1382:C:C6	34:BA:1383:C:H5	2.29	0.51
34:BA:73:G:C6	34:BA:74:C:C4	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AI:19:ARG:C	31:AI:21:GLN:H	2.13	0.51
1:AA:1096:A:C5	1:AA:1097:U:H1'	2.46	0.51
1:AA:1426:G:C8	1:AA:1427:A:N7	2.79	0.51
1:AA:1477:A:OP2	1:AA:1477:A:H8	1.93	0.51
1:AA:149:A:C2'	1:AA:150:C:H5'	2.37	0.51
1:AA:1519:G:H3'	1:AA:1520:U:N1	2.26	0.51
1:AA:1743:G:C5	1:AA:1746:G:N7	2.79	0.51
1:AA:1788:C:C6	1:AA:1788:C:C3'	2.93	0.51
1:AA:47:C:N3	1:AA:179:G:C6	2.78	0.51
1:AA:414:C:O2	1:AA:1864:U:H4'	2.11	0.51
1:AA:1956:U:H6	1:AA:1956:U:C5'	2.24	0.51
1:AA:1970:A:C2'	1:AA:1971:A:OP2	2.58	0.51
1:AA:1999:C:C2	1:AA:2000:G:C8	2.99	0.51
1:AA:200:U:O4	1:AA:201:C:H1'	2.10	0.51
1:AA:2063:C:C3'	1:AA:2064:C:C5'	2.87	0.51
1:AA:2150:U:O2	1:AA:2151:G:C8	2.64	0.51
1:AA:2243:U:C2	1:AA:2244:U:C6	2.98	0.51
1:AA:2246:G:N3	1:AA:2247:A:C5	2.79	0.51
1:AA:2256:G:N2	1:AA:2275:C:N4	2.58	0.51
1:AA:2261:C:OP1	22:AX:17:GLN:CB	2.59	0.51
1:AA:2385:C:C2'	1:AA:2386:C:O5'	2.58	0.51
1:AA:2327:A:C5	1:AA:2388:A:N1	2.79	0.51
1:AA:2407:G:H3'	1:AA:2408:U:H5	1.75	0.51
1:AA:2415:G:OP1	11:AM:61:ARG:CD	2.53	0.51
1:AA:2506:U:C2'	1:AA:2507:C:H5'	2.39	0.51
1:AA:2553:G:C8	1:AA:2583:G:H4'	2.46	0.51
1:AA:2584:U:C5	1:AA:2585:U:C2	2.98	0.51
1:AA:2660:A:N7	57:BZ:457:THR:CG2	2.72	0.51
1:AA:2688:U:O2'	1:AA:2689:U:OP2	2.25	0.51
1:AA:2696:U:C2	1:AA:2697:G:C8	2.99	0.51
1:AA:270(X):G:O6	1:AA:270(Y):G:N3	2.43	0.51
1:AA:2793:G:C4	1:AA:2794:C:C6	2.99	0.51
1:AA:27:G:C2	1:AA:512:G:C2'	2.93	0.51
1:AA:2799:A:C4'	1:AA:2802:G:N1	2.73	0.51
1:AA:2836:U:H2'	1:AA:2837:G:C8	2.46	0.51
1:AA:2844:G:N2	1:AA:2845:G:C1'	2.74	0.51
1:AA:2886:G:N2	1:AA:2887:U:H1'	2.25	0.51
59:AA:3003:8AN:O1P	22:AX:2:ALA:CB	2.47	0.51
1:AA:398:G:C2	1:AA:399:G:H1'	2.46	0.51
1:AA:598:G:N2	1:AA:599:G:H1'	2.25	0.51
1:AA:616:A:H2'	1:AA:617:G:N3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:641:C:H41	1:AA:646:A:H61	1.59	0.51
1:AA:66:C:C4	1:AA:67:U:C5	2.99	0.51
1:AA:675:A:O2'	1:AA:676:A:H5'	2.10	0.51
1:AA:753:C:H2'	1:AA:754:C:C6	2.46	0.51
1:AA:760:G:H2'	1:AA:761:A:C5'	2.41	0.51
1:AA:8:A:H2'	1:AA:9:U:H6	1.76	0.51
2:AB:117:G:N2	2:AB:118:G:N9	2.59	0.51
1:AA:2123:G:C5'	3:AC:172:HIS:ND1	2.74	0.51
4:AD:231:HIS:O	4:AD:233:HIS:N	2.44	0.51
4:AD:27:THR:CG2	4:AD:82:ILE:HG21	2.41	0.51
5:AE:185:LYS:O	5:AE:185:LYS:CG	2.58	0.51
6:AF:119:ARG:CZ	6:AF:120:GLU:OE1	2.59	0.51
6:AF:149:ASP:HA	6:AF:172:TRP:HE1	1.76	0.51
6:AF:63:LYS:CA	6:AF:76:GLY:O	2.53	0.51
7:AG:125:PHE:HD1	7:AG:132:ASN:N	2.09	0.51
8:AH:149:ARG:HD3	8:AH:153:LYS:HE3	1.91	0.51
8:AH:159:GLU:O	8:AH:160:LYS:HB2	2.11	0.51
8:AH:33:LEU:HD22	8:AH:75:ALA:CB	2.41	0.51
32:AJ:55:VAL:H	32:AJ:56:GLU:CA	2.24	0.51
9:AK:115:ARG:HA	9:AK:118:LYS:CE	2.41	0.51
10:AL:11:ALA:CB	10:AL:97:ARG:HH22	2.24	0.51
10:AL:59:LYS:HE2	10:AL:59:LYS:C	2.31	0.51
10:AL:63:VAL:HG12	10:AL:99:PHE:HZ	1.75	0.51
11:AM:115:LEU:O	11:AM:117:GLU:OE1	2.28	0.51
11:AM:79:ARG:HA	11:AM:79:ARG:NH2	2.26	0.51
12:AN:112:GLU:HA	12:AN:115:MET:CB	2.40	0.51
13:AO:107:ASP:OD2	13:AO:108:GLY:N	2.44	0.51
13:AO:14:SER:HA	13:AO:17:ARG:CG	2.41	0.51
13:AO:23:ASN:O	13:AO:26:LYS:HB2	2.11	0.51
15:AQ:93:ARG:HG2	15:AQ:95:ARG:HH11	1.74	0.51
16:AR:45:TYR:O	16:AR:46:ALA:C	2.49	0.51
1:AA:1009:A:O4'	16:AR:59:ARG:CZ	2.59	0.51
17:AS:4:ILE:HA	17:AS:12:TYR:CE2	2.45	0.51
17:AS:39:LEU:HG	17:AS:58:VAL:C	2.29	0.51
17:AS:34:GLU:CA	17:AS:62:LEU:O	2.50	0.51
17:AS:68:LYS:CG	17:AS:95:LEU:HD11	2.41	0.51
18:AT:74:ALA:HB1	18:AT:105:VAL:CB	2.40	0.51
19:AU:50:LYS:O	19:AU:52:VAL:HG23	2.11	0.51
21:AW:114:GLY:H	21:AW:145:GLU:CD	2.14	0.51
21:AW:6:LYS:HB2	21:AW:37:VAL:HG13	1.92	0.51
23:AY:25:ARG:HH21	23:AY:25:ARG:CG	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:41:PRO:HA	24:AZ:44:ARG:HE	1.76	0.51
24:AZ:35:ARG:HH22	24:AZ:47:VAL:HG13	1.76	0.51
34:BA:1053:G:N2	34:BA:1058:G:O6	2.43	0.51
34:BA:1271:G:OP2	34:BA:1314:C:H5'	2.11	0.51
34:BA:1521:G:O2'	34:BA:1522:U:C5'	2.58	0.51
34:BA:186:C:H2'	34:BA:186(A):C:C6	2.44	0.51
34:BA:270:A:H8	34:BA:270:A:OP2	1.94	0.51
34:BA:356:A:H2'	34:BA:357:G:O4'	2.11	0.51
34:BA:640:A:H2'	34:BA:641:U:C4'	2.40	0.51
34:BA:890:G:H2'	34:BA:891:U:OP2	2.11	0.51
35:BF:173:ALA:HA	35:BF:176:GLU:CG	2.39	0.51
35:BF:163:PHE:CE1	35:BF:186:ALA:CA	2.94	0.51
35:BF:35:GLU:HG2	35:BF:39:ILE:O	2.11	0.51
35:BF:42:ILE:HG12	35:BF:43:ASP:N	2.16	0.51
35:BF:57:PHE:C	35:BF:57:PHE:HD2	2.15	0.51
35:BF:59:GLU:O	35:BF:62:ALA:HB3	2.11	0.51
35:BF:61:LEU:HD21	35:BF:68:ILE:HD11	1.93	0.51
36:BG:15:THR:HG21	36:BG:181:ASN:N	2.26	0.51
37:BH:139:ARG:CG	37:BH:140:VAL:N	2.74	0.51
37:BH:154:ASN:ND2	37:BH:155:LEU:CD2	2.72	0.51
37:BH:17:VAL:O	37:BH:18:LYS:C	2.48	0.51
37:BH:61:LYS:HA	37:BH:203:VAL:HG22	1.93	0.51
37:BH:79:PHE:CG	37:BH:80:GLU:N	2.77	0.51
37:BH:91:SER:O	37:BH:92:VAL:C	2.49	0.51
38:BI:14:ARG:HG2	38:BI:29:GLY:O	2.10	0.51
38:BI:37:ARG:HG2	38:BI:112:LEU:O	2.11	0.51
39:BJ:47:ARG:C	39:BJ:48:LEU:HD23	2.31	0.51
40:BK:47:CYS:HA	40:BK:50:ILE:HG13	1.93	0.51
41:BL:29:SER:HB2	41:BL:32:LYS:HZ3	1.68	0.51
41:BL:40:ALA:HB2	41:BL:45:ILE:CD1	2.41	0.51
41:BL:70:GLN:HE21	41:BL:70:GLN:C	2.14	0.51
41:BL:79:VAL:O	41:BL:80:ILE:C	2.47	0.51
42:BM:23:ASN:HD22	42:BM:24:GLY:N	2.09	0.51
42:BM:5:TYR:CZ	42:BM:18:PHE:CZ	2.99	0.51
43:BN:9:ARG:HH11	43:BN:9:ARG:HB2	1.76	0.51
44:BO:13:GLN:O	44:BO:14:VAL:HG23	2.11	0.51
44:BO:45:GLY:CA	44:BO:55:LYS:HB3	2.41	0.51
45:BP:115:LYS:O	45:BP:116:SER:C	2.49	0.51
46:BQ:22:ILE:CA	46:BQ:25:ILE:HD12	2.37	0.51
46:BQ:14:ARG:CB	46:BQ:41:PRO:CA	2.88	0.51
46:BQ:37:THR:CB	46:BQ:56:LEU:HB2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:41:ARG:O	47:BR:44:LEU:HB3	2.11	0.51
1:AA:716:A:C2	48:BS:44:LYS:HE2	2.45	0.51
49:BT:20:VAL:HG13	49:BT:21:VAL:N	2.19	0.51
52:BW:18:LYS:HA	52:BW:18:LYS:CE	2.16	0.51
54:BY:6:ARG:HG3	54:BY:7:ARG:N	2.24	0.51
57:BZ:154:THR:C	57:BZ:156:GLU:H	2.11	0.51
57:BZ:24:LYS:N	57:BZ:26:LEU:CD2	2.74	0.51
57:BZ:317:PRO:CD	57:BZ:318:PHE:H	2.24	0.51
57:BZ:447:GLY:HA2	57:BZ:480:VAL:CG2	2.39	0.51
57:BZ:461:GLY:O	57:BZ:463:GLY:N	2.44	0.51
57:BZ:481:GLY:HA2	57:BZ:482:GLN:O	2.09	0.51
57:BZ:572:ILE:CG2	57:BZ:576:GLU:HB2	2.40	0.51
1:AA:1087:G:C2'	1:AA:1089:G:H4'	2.32	0.51
1:AA:1163:G:N1	1:AA:1164:G:N7	2.59	0.51
1:AA:1227:A:H3'	1:AA:1228:G:H5''	1.92	0.51
1:AA:1289:C:H4'	1:AA:1330:C:C4'	2.41	0.51
1:AA:1308:A:H61	1:AA:1606:G:H1'	1.76	0.51
1:AA:1451:C:H5''	1:AA:1453:A:H4'	1.93	0.51
1:AA:1395:A:OP1	1:AA:1602:U:O2'	2.29	0.51
1:AA:1753:G:O6	1:AA:1756:G:C6	2.64	0.51
1:AA:1797:C:O2'	4:AD:257:LEU:HD12	2.11	0.51
1:AA:1827:C:O2	1:AA:1828:G:H1'	2.11	0.51
1:AA:1997:G:H5'	5:AE:123:ALA:CB	2.41	0.51
1:AA:2000:G:O6	1:AA:2001:A:N6	2.41	0.51
1:AA:2006:C:O3'	1:AA:2823:A:H2	1.94	0.51
1:AA:2018:G:OP1	1:AA:2019:A:OP2	2.28	0.51
1:AA:530:G:N2	1:AA:2021:C:H2'	2.27	0.51
1:AA:208:C:H2'	1:AA:209:C:C6	2.46	0.51
1:AA:209:C:O5'	1:AA:209:C:H6	1.94	0.51
1:AA:2132:U:C3'	1:AA:2133:G:C5'	2.68	0.51
1:AA:2152:G:N1	1:AA:2153:G:C6	2.79	0.51
1:AA:2127:G:C4	1:AA:2162:G:C2	2.98	0.51
1:AA:2119:A:N1	1:AA:2171:A:C6	2.79	0.51
1:AA:2211:G:OP1	1:AA:2212:A:C5'	2.59	0.51
1:AA:228:A:N6	1:AA:230:U:N3	2.59	0.51
1:AA:2356:C:C4	1:AA:2357:U:C4	2.99	0.51
1:AA:2392:A:HO2'	1:AA:2393:A:P	2.35	0.51
1:AA:2417:C:C2	1:AA:2418:A:N7	2.79	0.51
1:AA:2544:G:C2'	1:AA:2545:G:H5'	2.40	0.51
1:AA:2572:A:H3'	5:AE:144:ARG:NH2	2.25	0.51
1:AA:2589:A:P	4:AD:226:MET:SD	3.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:263:C:N3	1:AA:264:C:C6	2.79	0.51
1:AA:2668:G:O2'	1:AA:2669:G:H5'	2.09	0.51
1:AA:2692:C:O2'	1:AA:2693:A:H5'	2.11	0.51
1:AA:2714:G:O6	1:AA:2715:C:N4	2.44	0.51
1:AA:2777:G:H4'	1:AA:2778:A:OP2	2.10	0.51
1:AA:2849:U:H2'	1:AA:2850:A:OP2	2.11	0.51
1:AA:309:G:O6	1:AA:1210:A:O2'	2.22	0.51
1:AA:311:A:C2	1:AA:328:U:O4	2.64	0.51
1:AA:336:C:H4'	20:AV:67:LEU:HD21	1.93	0.51
1:AA:389:G:H8	1:AA:389:G:OP1	1.94	0.51
1:AA:411:G:O5'	1:AA:412:A:OP2	2.29	0.51
1:AA:778:G:N2	1:AA:787:U:H1'	2.26	0.51
1:AA:833:U:H4'	11:AM:49:ARG:HE	1.76	0.51
1:AA:91:A:H3'	1:AA:92:G:H8	1.75	0.51
1:AA:975:G:N1	1:AA:976:C:C5	2.79	0.51
2:AB:104:A:H62	2:AB:105:G:N2	2.09	0.51
2:AB:52:A:C4'	2:AB:52:A:OP1	2.58	0.51
3:AC:104:LEU:CD2	3:AC:127:LEU:HD23	2.41	0.51
4:AD:122:ASP:N	4:AD:135:PHE:HE2	2.08	0.51
4:AD:34:VAL:H	4:AD:104:TYR:HH	1.59	0.51
4:AD:53:PHE:CE2	4:AD:221:VAL:HG13	2.46	0.51
4:AD:63:ARG:HH12	4:AD:86:PRO:HD2	1.76	0.51
5:AE:100:GLU:O	5:AE:172:VAL:HG22	2.11	0.51
5:AE:12:THR:CA	5:AE:22:PRO:HD2	2.39	0.51
6:AF:156:LEU:HG	6:AF:173:VAL:CG2	2.34	0.51
6:AF:182:ASN:O	6:AF:186:ILE:HG13	2.11	0.51
6:AF:121:GLY:CA	6:AF:191:ARG:NE	2.73	0.51
6:AF:160:ASN:HB2	6:AF:195:ASP:OD2	2.11	0.51
6:AF:200:GLU:O	6:AF:201:VAL:C	2.49	0.51
7:AG:114:ILE:HG12	7:AG:140:ILE:HD11	1.93	0.51
7:AG:55:LYS:HB3	7:AG:152:LEU:HD21	1.92	0.51
8:AH:103:LEU:HB2	8:AH:115:VAL:CG1	2.41	0.51
8:AH:90:LYS:NZ	8:AH:163:TYR:CG	2.76	0.51
8:AH:149:ARG:NH2	8:AH:164:TYR:HD1	2.09	0.51
1:AA:1055:G:C4'	31:AI:33:PRO:HA	2.40	0.51
9:AK:69:GLN:N	9:AK:69:GLN:HE21	2.09	0.51
10:AL:41:ALA:O	10:AL:56:ASP:CA	2.58	0.51
11:AM:126:VAL:CA	11:AM:146:VAL:H	2.22	0.51
11:AM:16:ARG:HG3	11:AM:19:VAL:HG22	1.92	0.51
12:AN:46:GLN:OE1	12:AN:125:LEU:O	2.28	0.51
12:AN:131:ILE:O	12:AN:132:VAL:CG1	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:31:SER:HB3	14:AP:34:HIS:CG	2.45	0.51
14:AP:39:ILE:O	14:AP:47:THR:CG2	2.58	0.51
14:AP:37:ALA:H	14:AP:51:ALA:HB3	1.76	0.51
15:AQ:104:ASN:HA	15:AQ:107:ASP:OD2	2.10	0.51
15:AQ:110:ILE:CD1	15:AQ:113:LYS:HE3	2.41	0.51
15:AQ:28:VAL:HG11	15:AQ:90:GLN:HB2	1.92	0.51
15:AQ:57:PHE:O	15:AQ:58:ASN:CB	2.59	0.51
16:AR:25:TRP:O	16:AR:28:ARG:HG2	2.10	0.51
17:AS:15:GLU:C	17:AS:100:ARG:NH2	2.64	0.51
17:AS:5:VAL:N	17:AS:12:TYR:CD2	2.65	0.51
17:AS:78:LYS:HB2	17:AS:78:LYS:HZ3	1.76	0.51
18:AT:10:VAL:HB	18:AT:12:ILE:CD1	2.41	0.51
20:AV:53:PRO:C	20:AV:55:TYR:N	2.63	0.51
21:AW:120:ILE:HB	21:AW:123:ASP:CG	2.32	0.51
21:AW:96:VAL:HG13	21:AW:128:VAL:CG1	2.40	0.51
21:AW:78:LYS:CG	21:AW:79:ARG:H	2.13	0.51
22:AX:76:GLY:C	22:AX:78:TYR:HE1	2.14	0.51
24:AZ:26:LEU:CG	24:AZ:35:ARG:NH1	2.70	0.51
34:BA:1065:U:C2'	34:BA:1066:C:OP2	2.59	0.51
34:BA:1182:G:C4'	34:BA:1183:A:O5'	2.58	0.51
34:BA:1204:A:C2'	34:BA:1205:U:H5'	2.41	0.51
34:BA:1284:C:C2	34:BA:1285:A:N7	2.79	0.51
34:BA:1451:A:OP1	34:BA:1451:A:H8	1.94	0.51
34:BA:210:U:H4'	34:BA:216:G:O4'	2.10	0.51
34:BA:246:A:C4	34:BA:282:A:N6	2.79	0.51
34:BA:254:G:O6	34:BA:273:A:N6	2.44	0.51
34:BA:606:G:N2	34:BA:631:G:N3	2.59	0.51
34:BA:649:G:H2'	34:BA:650:G:C8	2.44	0.51
34:BA:750:G:H1'	48:BS:22:THR:C	2.31	0.51
34:BA:759:A:N6	34:BA:760:G:C2	2.79	0.51
34:BA:826:C:H5'	41:BL:12:ARG:CZ	2.41	0.51
34:BA:895:G:H2'	34:BA:896:C:H6	1.73	0.51
34:BA:899:C:N4	34:BA:900:A:C6	2.79	0.51
34:BA:927:G:H4'	34:BA:1503:A:N7	2.26	0.51
34:BA:927:G:N1	34:BA:1391:U:C2	2.79	0.51
34:BA:975:A:O2'	34:BA:1358:U:C1'	2.54	0.51
34:BA:961:U:C5	34:BA:983:A:C6	2.99	0.51
35:BF:187:LEU:HD23	35:BF:201:ILE:HG22	1.93	0.51
35:BF:58:ILE:O	35:BF:61:LEU:CB	2.59	0.51
36:BG:127:ARG:C	36:BG:128:PHE:CD1	2.84	0.51
36:BG:14:ILE:HG22	36:BG:15:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:28:GLN:CD	36:BG:29:TYR:N	2.64	0.51
37:BH:113:SER:HB3	37:BH:116:GLN:CG	2.41	0.51
34:BA:404:U:P	37:BH:118:ARG:NH1	2.84	0.51
37:BH:8:VAL:O	37:BH:11:LEU:HB2	2.11	0.51
37:BH:90:GLY:O	37:BH:94:LEU:HG	2.11	0.51
38:BI:133:TYR:HA	38:BI:136:MET:CG	2.40	0.51
38:BI:84:PHE:HB3	38:BI:87:SER:O	2.10	0.51
40:BK:79:ARG:HA	40:BK:83:ALA:O	2.11	0.51
41:BL:112:LEU:HD12	41:BL:131:GLY:O	2.11	0.51
41:BL:26:VAL:O	41:BL:58:TYR:HD1	1.94	0.51
41:BL:89:PRO:CB	41:BL:92:ARG:HH21	2.23	0.51
42:BM:16:ARG:CG	42:BM:18:PHE:CE1	2.89	0.51
43:BN:49:VAL:HG11	47:BR:45:ARG:HD2	1.93	0.51
43:BN:6:ILE:HG21	43:BN:98:ILE:HG13	1.90	0.51
43:BN:9:ARG:HG3	43:BN:95:GLU:OE2	2.11	0.51
44:BO:121:PRO:HB2	44:BO:125:PHE:HD1	1.75	0.51
45:BP:69:TYR:O	45:BP:71:PRO:CD	2.59	0.51
46:BQ:19:LEU:CD1	46:BQ:30:ALA:CB	2.70	0.51
46:BQ:78:ILE:C	46:BQ:81:LEU:HD11	2.32	0.51
47:BR:10:ALA:C	47:BR:12:ARG:N	2.64	0.51
34:BA:1187:G:H1'	47:BR:61:TRP:C	2.31	0.51
49:BT:75:ARG:O	49:BT:78:GLY:N	2.44	0.51
50:BU:60:ILE:HD13	50:BU:62:SER:HG	1.76	0.51
39:BJ:97:PHE:CE2	51:BV:31:LEU:HD22	2.46	0.51
51:BV:36:ASN:OD1	51:BV:39:VAL:HB	2.11	0.51
57:BZ:13:HIS:HD2	57:BZ:106:MET:C	2.14	0.51
57:BZ:174:LEU:CD1	57:BZ:175:ASP:H	2.24	0.51
57:BZ:10:ILE:HD13	57:BZ:21:LEU:CD1	2.39	0.51
57:BZ:244:GLY:HA2	57:BZ:245:LYS:HB2	1.90	0.51
45:BP:106:ASP:CA	57:BZ:329:ARG:CD	2.89	0.51
31:AI:49:ALA:C	31:AI:51:LEU:H	2.14	0.51
11:AM:94:GLU:CD	11:AM:94:GLU:C	2.70	0.51
34:BA:615:C:H2'	34:BA:616:G:O4'	2.11	0.51
1:AA:1061:U:H3	32:AJ:11:GLN:NE2	2.00	0.50
1:AA:1081:U:H5	1:AA:1082:U:O4	1.95	0.50
1:AA:1087:G:N2	1:AA:1103:A:H2'	2.23	0.50
1:AA:1224:G:N7	1:AA:1225:C:C5	2.79	0.50
1:AA:135:G:H2'	1:AA:136:G:O4'	2.10	0.50
1:AA:1540:G:C3'	1:AA:1541:U:H5'	2.41	0.50
1:AA:1683:C:C2	1:AA:1684:C:H5	2.25	0.50
1:AA:152:G:N1	1:AA:175:G:C4	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1789:A:N7	1:AA:1790:C:C5	2.79	0.50
1:AA:1819:A:OP2	4:AD:157:ARG:HA	2.11	0.50
1:AA:530:G:N2	1:AA:2021:C:H3'	2.19	0.50
1:AA:203:C:C6	1:AA:204:A:N7	2.79	0.50
1:AA:2052:G:C4	1:AA:2053:G:C8	2.99	0.50
1:AA:2069:G:O2'	1:AA:2070:G:H5'	2.10	0.50
1:AA:2107:C:C6	1:AA:2109:U:C5	2.99	0.50
1:AA:2209:C:H6	1:AA:2209:C:H3'	1.75	0.50
1:AA:412:A:N6	1:AA:2411:A:O2'	2.44	0.50
1:AA:2461:C:O2'	1:AA:2462:U:H5'	2.11	0.50
1:AA:2558:C:C4'	57:BZ:543:LEU:CD2	2.81	0.50
1:AA:2690:C:O2'	1:AA:2691:C:O5'	2.30	0.50
1:AA:2695:C:H2'	1:AA:2696:U:C6	2.45	0.50
1:AA:2730:C:H2'	1:AA:2731:G:H8	1.75	0.50
1:AA:2830:G:N3	1:AA:2830:G:H2'	2.26	0.50
1:AA:319:C:O2'	1:AA:320:A:O4'	2.27	0.50
1:AA:371:A:C2	1:AA:372:G:N1	2.78	0.50
1:AA:605:C:OP1	6:AF:104:LYS:HD2	2.11	0.50
1:AA:625:G:H1	11:AM:100:LEU:HB3	1.76	0.50
1:AA:673:C:H5''	6:AF:81:PRO:HG3	1.93	0.50
1:AA:685:A:C4	1:AA:774:A:C6	3.00	0.50
1:AA:716:A:C8	1:AA:717:G:C8	2.99	0.50
1:AA:731:C:C2'	1:AA:732:C:H5'	2.41	0.50
1:AA:792:G:C6	1:AA:2440:C:N1	2.78	0.50
1:AA:817:C:H3'	1:AA:818:G:H8	1.76	0.50
1:AA:848:G:H3'	1:AA:848:G:C8	2.46	0.50
1:AA:918:A:C8	2:AB:80:U:C4'	2.93	0.50
1:AA:996:A:C6	1:AA:1160:G:C2	2.99	0.50
2:AB:103:U:C5'	2:AB:103:U:H6	2.24	0.50
3:AC:187:ASP:C	3:AC:187:ASP:OD2	2.48	0.50
1:AA:2635:C:O2'	5:AE:79:ARG:HD2	2.12	0.50
5:AE:91:VAL:HG13	5:AE:93:VAL:HG22	1.90	0.50
7:AG:19:LEU:H	7:AG:19:LEU:CD1	2.22	0.50
32:AJ:122:ALA:HB1	32:AJ:126:MET:SD	2.51	0.50
9:AK:14:VAL:HG13	9:AK:138:LEU:C	2.31	0.50
11:AM:114:ILE:HG12	11:AM:130:PHE:CG	2.46	0.50
11:AM:29:LYS:CD	11:AM:29:LYS:N	2.71	0.50
11:AM:49:ARG:HG2	11:AM:49:ARG:NH2	2.20	0.50
12:AN:12:GLN:NE2	12:AN:13:GLN:NE2	2.41	0.50
13:AO:100:LEU:HD12	13:AO:101:ALA:H	1.76	0.50
13:AO:20:LEU:HD11	13:AO:24:GLN:CD	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:106:ARG:C	14:AP:106:ARG:HH11	2.14	0.50
14:AP:95:HIS:HA	14:AP:99:LYS:CD	2.36	0.50
15:AQ:51:ARG:O	15:AQ:66:VAL:CA	2.55	0.50
15:AQ:93:ARG:CD	15:AQ:93:ARG:N	2.74	0.50
1:AA:2848:G:P	15:AQ:99:LEU:HD12	2.51	0.50
16:AR:94:ASN:O	16:AR:97:ASP:N	2.44	0.50
16:AR:93:LYS:CG	17:AS:10:LYS:NZ	2.68	0.50
17:AS:14:VAL:CG2	17:AS:21:ARG:HH22	2.23	0.50
16:AR:88:ILE:CG1	17:AS:52:VAL:HG22	2.41	0.50
18:AT:74:ALA:O	18:AT:75:TYR:CD2	2.64	0.50
18:AT:89:ALA:O	18:AT:91:GLY:N	2.44	0.50
19:AU:35:THR:HB	19:AU:38:GLU:HB2	1.93	0.50
20:AV:37:VAL:CG1	20:AV:39:VAL:HB	2.40	0.50
20:AV:50:ARG:HA	20:AV:54:LYS:CA	2.32	0.50
20:AV:75:ILE:N	20:AV:100:ALA:CB	2.74	0.50
21:AW:139:VAL:HG12	21:AW:140:ASP:H	1.75	0.50
1:AA:2353:G:O2'	22:AX:35:ASN:ND2	2.43	0.50
34:BA:1048:G:O3'	34:BA:1049:U:H3'	2.10	0.50
34:BA:1051:C:H2'	34:BA:1052:U:C6	2.46	0.50
34:BA:1198:G:O2'	34:BA:1199:U:H5'	2.11	0.50
34:BA:1205:U:H2'	34:BA:1206:G:C8	2.46	0.50
34:BA:1229:A:H5'	56:BE:29:G:C5'	2.27	0.50
34:BA:1298:C:C6	40:BK:114:ARG:NH1	2.79	0.50
34:BA:1313:U:C4	34:BA:1325:C:O2	2.64	0.50
34:BA:971:G:C5	34:BA:1365:G:H5'	2.46	0.50
34:BA:1418:A:N1	34:BA:1483:A:C6	2.79	0.50
1:AA:1960:A:H4'	34:BA:1483:A:N1	2.26	0.50
34:BA:1517:G:N2	34:BA:1518:A:C1'	2.73	0.50
34:BA:32:A:N6	34:BA:553:A:N6	2.59	0.50
34:BA:404:U:O4'	37:BH:122:ARG:NH1	2.45	0.50
34:BA:447:G:H1'	34:BA:487:A:H61	1.76	0.50
34:BA:627:G:O2'	34:BA:628:G:C5'	2.57	0.50
34:BA:686:U:H2'	34:BA:687:A:H8	1.76	0.50
34:BA:68:G:C5	34:BA:69:G:C8	2.99	0.50
34:BA:797:C:C2'	34:BA:798:G:H5'	2.41	0.50
34:BA:85:U:O2'	34:BA:86:U:H5'	2.11	0.50
34:BA:872:A:C5	34:BA:874:G:C8	2.99	0.50
34:BA:87:A:N7	34:BA:88:C:N3	2.60	0.50
34:BA:885:G:C2	34:BA:913:A:N1	2.79	0.50
35:BF:152:PHE:CG	35:BF:153:ARG:N	2.77	0.50
36:BG:108:ASN:O	36:BG:110:ASN:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:182:ILE:HD11	36:BG:203:PHE:CD1	2.46	0.50
37:BH:94:LEU:HA	37:BH:97:LEU:HD11	1.89	0.50
40:BK:51:GLN:CD	40:BK:58:PRO:HD3	2.32	0.50
41:BL:14:ARG:CA	41:BL:14:ARG:HH11	2.24	0.50
42:BM:47:LEU:HD11	42:BM:50:LEU:HD22	1.93	0.50
45:BP:60:LEU:HD21	45:BP:64:TYR:HD2	1.76	0.50
48:BS:70:LEU:CG	48:BS:78:TYR:CD1	2.87	0.50
49:BT:19:ILE:HG13	49:BT:38:TYR:CA	2.40	0.50
49:BT:21:VAL:N	49:BT:36:ILE:HD11	2.26	0.50
49:BT:53:VAL:HG12	49:BT:79:VAL:HG22	1.92	0.50
49:BT:55:ARG:NH2	49:BT:58:TYR:CG	2.79	0.50
49:BT:58:TYR:O	49:BT:61:SER:HB3	2.11	0.50
49:BT:68:ASP:O	49:BT:69:THR:C	2.49	0.50
49:BT:75:ARG:HG3	49:BT:80:PHE:CD1	2.46	0.50
50:BU:10:VAL:CB	50:BU:54:GLY:H	2.24	0.50
52:BW:51:VAL:HG23	52:BW:60:VAL:HG23	1.93	0.50
52:BW:9:VAL:O	52:BW:11:VAL:HG23	2.11	0.50
57:BZ:101:ALA:HB2	57:BZ:127:ILE:HG22	1.93	0.50
57:BZ:79:ALA:HA	57:BZ:80:ASP:C	2.31	0.50
56:BD:1:G:N3	56:BD:2:C:N3	2.59	0.50
56:BD:51:U:C4	56:BD:63:G:N1	2.79	0.50
56:BD:3:C:C2	56:BD:70:G:C6	2.99	0.50
57:BZ:301:SER:O	57:BZ:302:VAL:HG13	2.11	0.50
1:AA:1080:C:C6	32:AJ:129:GLY:HA2	2.45	0.50
1:AA:1142:U:O2'	1:AA:1142(A):A:H5'	2.11	0.50
1:AA:1155:A:O2'	1:AA:1156:A:C5'	2.59	0.50
1:AA:1197:G:N7	1:AA:1198:U:C5	2.80	0.50
1:AA:443:A:C4'	1:AA:1201:C:H5'	2.36	0.50
1:AA:1237:A:O2'	1:AA:1238:G:O5'	2.30	0.50
1:AA:1310:G:N7	1:AA:1311:G:N3	2.59	0.50
1:AA:1314:C:H2'	1:AA:1315:C:H5'	1.93	0.50
1:AA:137(A):G:C2	1:AA:138:G:O6	2.64	0.50
1:AA:141(A):C:C2'	1:AA:142:G:H5'	2.41	0.50
1:AA:1442:G:N3	1:AA:1442:G:H2'	2.26	0.50
1:AA:1495:A:H8	1:AA:1495:A:O5'	1.94	0.50
1:AA:1831:G:H2'	1:AA:1832:C:C6	2.47	0.50
1:AA:1833:U:C2	1:AA:1834:U:O2	2.65	0.50
1:AA:1859:A:H61	1:AA:1883:G:C2'	2.23	0.50
1:AA:1897:G:N1	1:AA:1898:U:C2	2.79	0.50
1:AA:1910:G:N1	1:AA:1920:C:C4	2.79	0.50
1:AA:1916:A:N3	1:AA:1916:A:C2'	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1936:A:N3	1:AA:1940:U:O2	2.44	0.50
1:AA:1948:G:C4	1:AA:1959:G:C2	2.99	0.50
1:AA:1957:C:O2	1:AA:1958:C:C5	2.64	0.50
1:AA:2046:G:N3	1:AA:2047:U:C5	2.79	0.50
1:AA:2195:C:C2'	1:AA:2196:C:O4'	2.57	0.50
1:AA:2301:C:C2	1:AA:2302:G:C8	3.00	0.50
1:AA:2325:G:O2'	1:AA:2326:C:H5'	2.11	0.50
1:AA:2344:U:C3'	1:AA:2344:U:O2	2.58	0.50
1:AA:2361:A:H2'	1:AA:2361:A:N3	2.26	0.50
1:AA:2519:U:C6	1:AA:2542:A:N6	2.79	0.50
1:AA:2516:G:C4	1:AA:2569:G:C2	2.99	0.50
1:AA:2682:U:C2	5:AE:21:VAL:HG21	2.46	0.50
1:AA:270(A):A:OP2	1:AA:270(B):A:C2	2.64	0.50
1:AA:2788:C:O2	1:AA:2789:C:C2	2.64	0.50
1:AA:2793:G:C4	1:AA:2794:C:C5	3.00	0.50
1:AA:360:G:C2'	1:AA:361:G:O5'	2.59	0.50
1:AA:416:C:C6	1:AA:416:C:H3'	2.46	0.50
1:AA:46:C:C5	1:AA:215:G:H8	2.28	0.50
1:AA:493:G:C2	1:AA:494:G:C8	2.99	0.50
1:AA:49:A:C5	1:AA:177:G:N1	2.79	0.50
1:AA:507:A:H1'	1:AA:509:C:C4	2.47	0.50
1:AA:548:A:C5	1:AA:549:G:H1'	2.46	0.50
1:AA:609:A:C5	1:AA:609(A):G:O6	2.64	0.50
1:AA:60:G:O2'	1:AA:61:G:P	2.70	0.50
1:AA:621:A:H8	1:AA:622:G:H5'	1.76	0.50
1:AA:653:A:H3'	1:AA:654:A:C4'	2.41	0.50
1:AA:691:C:C2'	4:AD:45:ASN:HD21	2.25	0.50
1:AA:696:G:O2'	1:AA:697:C:C5'	2.59	0.50
1:AA:714:U:O2	1:AA:715:G:C8	2.64	0.50
1:AA:716:A:C2	48:BS:44:LYS:CA	2.95	0.50
1:AA:733:G:C5	1:AA:761:A:C6	2.99	0.50
1:AA:740:U:C6	1:AA:741:G:N7	2.79	0.50
1:AA:774:A:C5'	1:AA:778:G:H4'	2.41	0.50
1:AA:799:G:C6	1:AA:800:A:N1	2.80	0.50
1:AA:814:C:H4'	1:AA:1224:G:H22	1.76	0.50
1:AA:832:G:OP1	11:AM:36:LYS:HE2	2.10	0.50
1:AA:922:U:H2'	1:AA:923:C:C5	2.46	0.50
2:AB:11:C:OP1	22:AX:75:LEU:HD11	2.11	0.50
2:AB:96:G:C2	2:AB:97:G:C8	2.99	0.50
3:AC:93:TYR:CE1	3:AC:109:ASP:CB	2.94	0.50
3:AC:19:ILE:HG22	3:AC:19:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:48:GLY:N	3:AC:210:ARG:CD	2.74	0.50
3:AC:53:ARG:C	3:AC:55:ASP:H	2.12	0.50
1:AA:2129:C:C3'	3:AC:6:ARG:HD3	2.41	0.50
4:AD:176:ARG:HA	4:AD:182:LEU:HD23	1.91	0.50
4:AD:181:GLU:CD	4:AD:271:ILE:O	2.50	0.50
4:AD:29:PRO:CB	4:AD:31:LYS:HZ2	2.23	0.50
4:AD:5:LYS:CD	4:AD:31:LYS:HZ2	2.24	0.50
4:AD:36:PRO:O	4:AD:37:LEU:HD22	2.11	0.50
5:AE:202:LYS:C	5:AE:204:ALA:N	2.64	0.50
5:AE:31:CYS:O	5:AE:33:VAL:N	2.44	0.50
6:AF:39:TRP:NE1	6:AF:106:ARG:NH2	2.59	0.50
6:AF:118:ALA:CB	6:AF:122:LYS:HB2	2.42	0.50
6:AF:117:ARG:HG3	6:AF:187:VAL:HA	1.93	0.50
7:AG:41:GLN:OE1	7:AG:155:MET:HE3	2.11	0.50
8:AH:101:ARG:C	8:AH:117:PRO:HD3	2.31	0.50
8:AH:137:ASP:HB3	8:AH:140:LYS:CG	2.41	0.50
1:AA:1077:A:C2	32:AJ:133:SER:O	2.64	0.50
32:AJ:12:LEU:HD13	32:AJ:23:VAL:CG2	2.40	0.50
10:AL:22:ILE:HB	10:AL:40:VAL:CG1	2.40	0.50
11:AM:77:ARG:CZ	11:AM:79:ARG:HG2	2.40	0.50
11:AM:7:ARG:H	11:AM:8:PRO:CD	2.24	0.50
12:AN:51:ARG:NH2	12:AN:63:LYS:HZ1	2.09	0.50
12:AN:85:LYS:NZ	22:AX:10:THR:CG2	2.74	0.50
13:AO:51:LEU:O	13:AO:52:ILE:C	2.50	0.50
14:AP:38:GLN:O	14:AP:38:GLN:HG3	2.11	0.50
14:AP:57:LYS:NZ	14:AP:62:LYS:CB	2.74	0.50
14:AP:76:LYS:HD3	14:AP:77:ALA:H	1.76	0.50
5:AE:9:VAL:CG1	15:AQ:3:ARG:HG2	2.42	0.50
15:AQ:53:ARG:O	15:AQ:100:TYR:CD2	2.64	0.50
1:AA:2848:G:H2'	15:AQ:99:LEU:HD21	1.92	0.50
18:AT:22:ASP:HA	18:AT:75:TYR:OH	2.11	0.50
20:AV:97:ARG:CB	20:AV:101:LYS:HG2	2.40	0.50
21:AW:116:VAL:HG21	21:AW:144:LEU:O	2.10	0.50
21:AW:12:GLY:O	21:AW:15:PRO:HG2	2.10	0.50
21:AW:16:SER:O	21:AW:19:ARG:HB2	2.11	0.50
21:AW:95:PRO:N	21:AW:130:PRO:HA	2.26	0.50
22:AX:26:TYR:O	22:AX:29:GLN:OE1	2.27	0.50
23:AY:25:ARG:NH2	23:AY:25:ARG:HG3	2.22	0.50
23:AY:25:ARG:NH2	23:AY:25:ARG:CG	2.73	0.50
23:AY:30:LEU:HD11	23:AY:48:LEU:HD23	1.94	0.50
23:AY:55:LEU:C	23:AY:58:VAL:HG13	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1071:C:N4	34:BA:1084:G:N2	2.58	0.50
34:BA:1401:G:H2'	34:BA:1402:C:C4'	2.41	0.50
34:BA:1419:G:O2'	34:BA:1420:C:C5'	2.60	0.50
34:BA:1442:G:N2	34:BA:1446:A:C4	2.79	0.50
34:BA:1506:U:H6	34:BA:1506:U:P	2.35	0.50
34:BA:160:A:O2'	34:BA:161:A:H5'	2.11	0.50
34:BA:226:G:O2'	34:BA:227:G:C5'	2.59	0.50
34:BA:287:U:C2'	34:BA:288:A:H5'	2.42	0.50
34:BA:41:G:C2'	34:BA:42:G:H8	2.01	0.50
34:BA:735:C:H5'	51:BV:71:LYS:CD	2.38	0.50
34:BA:652:U:H2'	34:BA:752:G:H22	1.75	0.50
34:BA:829:G:O2'	34:BA:830:G:H5'	2.12	0.50
34:BA:828:A:O2'	34:BA:829:G:O5'	2.27	0.50
34:BA:860:A:N7	34:BA:861:G:C4	2.79	0.50
34:BA:862:C:C4	34:BA:863:U:C5	2.99	0.50
34:BA:872:A:C2	34:BA:874:G:O6	2.64	0.50
34:BA:947:G:H21	34:BA:948:C:H1'	1.75	0.50
56:BE:73:A:N3	56:BE:73:A:C3'	2.73	0.50
35:BF:115:LEU:HD23	35:BF:149:LEU:CD2	2.35	0.50
35:BF:136:VAL:CA	35:BF:139:LYS:NZ	2.73	0.50
35:BF:92:TYR:CE2	35:BF:151:GLY:O	2.63	0.50
35:BF:16:HIS:NE2	35:BF:210:SER:HA	2.25	0.50
35:BF:58:ILE:HG23	35:BF:61:LEU:HD13	1.93	0.50
36:BG:142:MET:HA	36:BG:146:ALA:HB3	1.92	0.50
36:BG:12:LEU:HD12	36:BG:18:TRP:CH2	2.46	0.50
34:BA:438:G:H5''	37:BH:123:HIS:HB3	1.92	0.50
37:BH:110:PHE:HZ	37:BH:147:ALA:CB	2.24	0.50
37:BH:165:MET:HG3	37:BH:166:LYS:N	2.26	0.50
37:BH:169:LYS:HA	37:BH:176:LEU:CD1	2.41	0.50
34:BA:9:G:C8	38:BI:126:ARG:NH2	2.79	0.50
38:BI:151:LEU:HD11	41:BL:77:GLU:HB2	1.91	0.50
38:BI:152:ARG:NH2	41:BL:44:PHE:N	2.59	0.50
39:BJ:1:MET:CB	39:BJ:67:MET:O	2.59	0.50
39:BJ:79:LEU:O	39:BJ:81:ILE:N	2.44	0.50
40:BK:107:ALA:HB3	40:BK:134:ALA:HB2	1.94	0.50
40:BK:72:ARG:HG3	40:BK:73:MET:N	2.24	0.50
40:BK:72:ARG:O	40:BK:91:VAL:N	2.43	0.50
41:BL:14:ARG:HD2	41:BL:15:ASN:HD22	1.76	0.50
41:BL:6:ILE:CD1	41:BL:6:ILE:C	2.79	0.50
41:BL:92:ARG:CG	41:BL:92:ARG:HH11	2.20	0.50
42:BM:3:GLN:HG3	42:BM:20:ARG:CG	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:51:ARG:CA	42:BM:51:ARG:NH1	2.73	0.50
43:BN:16:LEU:HD22	43:BN:16:LEU:N	2.27	0.50
44:BO:82:VAL:CG1	44:BO:108:ILE:HG23	2.40	0.50
44:BO:58:PRO:CA	44:BO:90:GLY:HA3	2.41	0.50
45:BP:90:VAL:O	45:BP:90:VAL:HG12	2.10	0.50
34:BA:1048:G:C5'	47:BR:3:ARG:NH1	2.68	0.50
39:BJ:96:PRO:HD2	51:BV:32:ARG:HE	1.76	0.50
52:BW:41:VAL:CB	52:BW:42:PRO:CD	2.81	0.50
57:BZ:22:VAL:CG2	57:BZ:23:ASP:N	2.73	0.50
57:BZ:405:LEU:HD11	57:BZ:464:LEU:CG	2.40	0.50
57:BZ:6:ARG:HD3	57:BZ:195:PRO:O	2.11	0.50
31:AI:52:PHE:C	31:AI:54:ALA:H	2.12	0.50
56:BD:2:C:N4	56:BD:71:G:N1	2.55	0.50
56:BD:3:C:H2'	56:BD:4:C:H6	1.75	0.50
23:AY:7:GLU:HA	23:AY:10:LYS:CG	2.39	0.50
23:AY:1:MET:O	23:AY:4:GLN:N	2.43	0.50
1:AA:1511:A:H2'	1:AA:1512:G:C4'	2.41	0.50
8:AH:107:VAL:CG2	8:AH:107:VAL:O	2.54	0.50
1:AA:273(F):C:O2	1:AA:363(A):A:C6	2.65	0.50
1:AA:2655:G:C2'	1:AA:2655:G:N3	2.73	0.50
1:AA:1068:G:C1'	1:AA:1096:A:C4'	2.87	0.50
1:AA:1107:G:O2'	1:AA:1108:U:H5'	2.11	0.50
1:AA:1131:G:H4'	1:AA:1132:A:OP1	2.10	0.50
1:AA:1020:A:H2	1:AA:1140:C:H2'	1.71	0.50
1:AA:974:G:O2'	1:AA:1186:G:N3	2.38	0.50
1:AA:1203:G:H5'	1:AA:1205:U:OP2	2.11	0.50
1:AA:1208:C:N4	1:AA:1209:G:C6	2.79	0.50
1:AA:1228:G:H8	1:AA:1228:G:H5'	1.76	0.50
1:AA:1372:U:O2'	1:AA:1373:A:H5'	2.11	0.50
1:AA:1381:G:C6	1:AA:1382:G:C5	3.00	0.50
1:AA:1397:U:OP1	1:AA:1398:C:H5	1.94	0.50
1:AA:1440:G:H2'	1:AA:1441:G:H8	1.75	0.50
1:AA:1477:A:C8	1:AA:1477:A:OP2	2.64	0.50
1:AA:1527:G:H8	1:AA:1527:G:H3'	1.71	0.50
1:AA:1559:G:N3	1:AA:1559:G:C2'	2.73	0.50
1:AA:1394:U:C4'	1:AA:1603:A:H4'	2.37	0.50
1:AA:1807:G:C2	1:AA:1809:A:OP2	2.64	0.50
1:AA:1879:C:C4	1:AA:1880:C:C4	2.99	0.50
1:AA:1964:G:C4	1:AA:1967:C:H5	2.29	0.50
1:AA:563:G:C5	1:AA:2018:G:N1	2.79	0.50
1:AA:570:G:H2'	1:AA:2030:A:N6	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:531:C:C4'	1:AA:2035:G:H21	2.24	0.50
1:AA:2072:G:H2'	1:AA:2073:C:C5	2.46	0.50
1:AA:2122:U:O2'	3:AC:166:ASP:HB3	2.11	0.50
1:AA:2257:U:H5'	22:AX:11:ARG:HD3	1.92	0.50
1:AA:2310:A:H2	7:AG:83:ARG:NH2	2.10	0.50
1:AA:2356:C:C4	1:AA:2357:U:O4	2.64	0.50
1:AA:236:C:H2'	1:AA:237:C:O5'	2.10	0.50
1:AA:2373:G:C4	1:AA:2374:C:C5	2.99	0.50
1:AA:2431:U:O2'	1:AA:2432:A:C8	2.65	0.50
1:AA:2458:G:C6	1:AA:2490:G:C2	2.99	0.50
1:AA:2603:G:C6	1:AA:2604:U:C4	3.00	0.50
1:AA:2681:C:C4	1:AA:2725:A:N6	2.75	0.50
1:AA:2709:G:H8	1:AA:2709:G:O5'	1.93	0.50
1:AA:2789:C:C2'	1:AA:2791:C:H5'	2.38	0.50
1:AA:2807:G:H3'	1:AA:2808:U:C6	2.46	0.50
1:AA:2825:C:N3	1:AA:2826:A:N7	2.59	0.50
1:AA:2833:G:O4'	1:AA:2833:G:OP1	2.28	0.50
1:AA:319:C:N4	1:AA:320:A:N6	2.60	0.50
1:AA:327:G:N2	1:AA:328:U:C2	2.79	0.50
1:AA:447:A:C6	1:AA:473:G:N9	2.79	0.50
1:AA:568:U:H3'	1:AA:570:G:OP2	2.10	0.50
1:AA:646:A:H2'	1:AA:647:G:C8	2.47	0.50
1:AA:6:A:C6	1:AA:2897:U:O4	2.50	0.50
1:AA:733:G:H5"	1:AA:761:A:H61	1.76	0.50
1:AA:751:A:N7	1:AA:789:A:N6	2.59	0.50
1:AA:821:A:OP1	1:AA:822:U:C6	2.65	0.50
1:AA:918:A:N3	1:AA:918:A:H3'	2.26	0.50
2:AB:43:C:O2	7:AG:95:ARG:CB	2.49	0.50
2:AB:75:G:N2	21:AW:27:VAL:HG21	2.26	0.50
3:AC:176:GLY:HA2	3:AC:185:LEU:H	1.74	0.50
3:AC:34:THR:O	3:AC:35:ALA:O	2.30	0.50
3:AC:77:ILE:HD12	3:AC:123:VAL:HG11	1.92	0.50
1:AA:1655:A:H5"	5:AE:113:PHE:C	2.32	0.50
5:AE:127:ASP:O	5:AE:128:SER:CB	2.58	0.50
5:AE:133:LYS:CD	5:AE:137:HIS:CG	2.90	0.50
5:AE:154:LYS:HD2	5:AE:154:LYS:O	2.12	0.50
5:AE:102:VAL:HG23	5:AE:200:GLU:OE2	2.11	0.50
1:AA:247:G:C2	5:AE:8:LYS:HD2	119.42	0.50
5:AE:92:THR:HG23	5:AE:95:ILE:HG22	1.93	0.50
6:AF:52:LYS:O	6:AF:53:THR:CG2	2.53	0.50
6:AF:53:THR:O	6:AF:56:GLU:OE1	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:54:ARG:C	6:AF:56:GLU:H	2.11	0.50
7:AG:122:PRO:O	7:AG:123:ASN:C	2.48	0.50
7:AG:174:GLU:CG	7:AG:175:LEU:N	2.74	0.50
7:AG:17:PRO:HA	7:AG:20:ILE:CB	2.39	0.50
8:AH:159:GLU:HG2	8:AH:163:TYR:OH	2.11	0.50
32:AJ:104:VAL:CG1	32:AJ:127:ILE:CG2	2.64	0.50
32:AJ:23:VAL:HG13	32:AJ:27:LEU:CD1	2.42	0.50
9:AK:135:PRO:O	9:AK:136:GLU:O	2.29	0.50
9:AK:23:LEU:HD21	9:AK:62:VAL:HA	1.93	0.50
12:AN:37:LEU:N	12:AN:100:GLY:HA2	2.25	0.50
12:AN:6:ARG:NH2	12:AN:8:LYS:C	2.64	0.50
13:AO:47:PHE:O	13:AO:48:VAL:C	2.49	0.50
1:AA:2882:A:H4'	13:AO:98:LEU:HD21	1.92	0.50
15:AQ:67:SER:HA	15:AQ:75:ILE:CG2	2.41	0.50
16:AR:26:GLY:O	16:AR:27:LEU:HD12	2.10	0.50
16:AR:45:TYR:C	16:AR:47:TYR:N	2.60	0.50
16:AR:66:ASN:OD1	16:AR:76:TYR:CD1	2.65	0.50
16:AR:75:ASN:O	16:AR:79:PHE:HB3	2.11	0.50
17:AS:40:LEU:CG	17:AS:55:ALA:CA	2.89	0.50
17:AS:83:ARG:HH21	17:AS:85:LYS:HE2	1.76	0.50
18:AT:18:ARG:CD	18:AT:76:VAL:HG12	2.36	0.50
19:AU:26:TYR:HB3	19:AU:28:PHE:CE1	2.46	0.50
19:AU:36:LYS:HB2	19:AU:36:LYS:HZ2	1.75	0.50
19:AU:7:VAL:HB	23:AY:28:MET:SD	2.50	0.50
21:AW:10:ARG:HD3	21:AW:36:LYS:CG	2.42	0.50
21:AW:127:LYS:HA	21:AW:164:ALA:CB	2.40	0.50
21:AW:43:GLU:OE2	21:AW:43:GLU:N	2.43	0.50
23:AY:12:SER:H	23:AY:15:GLU:CD	2.15	0.50
24:AZ:26:LEU:HD13	24:AZ:26:LEU:N	2.26	0.50
34:BA:1060:C:H2'	34:BA:1061:G:H8	1.75	0.50
34:BA:1155:G:H21	34:BA:1179:A:H61	1.58	0.50
34:BA:1352:C:H2'	34:BA:1353:G:O4'	2.11	0.50
34:BA:1365:G:N1	34:BA:1366:C:C4	2.80	0.50
34:BA:1415:G:C2	34:BA:1416:G:C8	2.99	0.50
34:BA:149:A:H2'	34:BA:150:C:C6	2.46	0.50
34:BA:781:A:O4'	34:BA:1523:G:H1'	2.11	0.50
34:BA:294:U:C2	34:BA:295:C:C5	2.99	0.50
34:BA:295:C:H2'	34:BA:296:U:O4'	2.11	0.50
34:BA:291:C:C3'	34:BA:305:G:N2	2.64	0.50
34:BA:380:G:N2	34:BA:383:A:OP2	2.44	0.50
34:BA:409:G:H2'	34:BA:410:G:O5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:439:A:H1'	34:BA:496:A:C2	2.46	0.50
34:BA:498:A:C4'	34:BA:500:G:H5'	2.39	0.50
34:BA:579:G:C6	34:BA:580:U:C5	3.00	0.50
34:BA:597:G:N2	41:BL:94:TYR:CZ	2.79	0.50
34:BA:688:G:C6	34:BA:700:G:C6	2.99	0.50
34:BA:957:U:H2'	34:BA:959:A:OP2	2.11	0.50
56:BE:3:C:C2'	56:BE:4:C:C6	2.86	0.50
35:BF:149:LEU:O	35:BF:150:SER:C	2.50	0.50
35:BF:177:ALA:O	35:BF:178:ARG:C	2.49	0.50
35:BF:178:ARG:CA	35:BF:184:VAL:HG21	2.40	0.50
35:BF:28:PHE:CA	35:BF:194:PRO:HG2	2.41	0.50
35:BF:72:GLY:CA	35:BF:81:VAL:HG21	2.41	0.50
35:BF:92:TYR:O	35:BF:152:PHE:CB	2.59	0.50
37:BH:187:ARG:CD	37:BH:188:LEU:H	2.24	0.50
37:BH:67:ILE:CD1	37:BH:67:ILE:C	2.79	0.50
39:BJ:1:MET:HA	39:BJ:67:MET:O	2.11	0.50
39:BJ:42:GLU:HB2	39:BJ:61:LEU:CD2	2.41	0.50
40:BK:29:LYS:HE3	40:BK:101:LEU:CD1	2.39	0.50
40:BK:5:ARG:NH1	40:BK:5:ARG:O	2.41	0.50
40:BK:74:GLU:O	40:BK:88:PRO:CA	2.53	0.50
41:BL:19:VAL:HB	41:BL:21:LYS:CD	2.41	0.50
41:BL:6:ILE:HG21	41:BL:85:ARG:HH22	1.76	0.50
41:BL:91:ARG:C	41:BL:92:ARG:HD2	2.31	0.50
44:BO:126:ARG:CZ	44:BO:126:ARG:HB3	2.41	0.50
44:BO:29:ILE:HG13	44:BO:29:ILE:O	2.10	0.50
44:BO:51:LYS:HD3	44:BO:52:GLY:N	2.24	0.50
44:BO:80:VAL:HG22	44:BO:81:ASP:N	2.25	0.50
44:BO:24:SER:O	44:BO:88:GLY:HA2	2.11	0.50
45:BP:24:VAL:CG1	45:BP:26:ALA:HB2	2.40	0.50
45:BP:28:LYS:CE	45:BP:33:ARG:HH22	2.22	0.50
45:BP:90:VAL:HB	45:BP:96:VAL:CG1	2.42	0.50
50:BU:59:ILE:HG12	50:BU:71:PHE:HB3	1.93	0.50
51:BV:81:PHE:O	51:BV:82:THR:CB	2.59	0.50
53:BX:81:LYS:HB3	53:BX:85:MET:HE3	1.94	0.50
57:BZ:156:GLU:N	57:BZ:157:GLN:CB	2.73	0.50
57:BZ:160:PHE:HA	57:BZ:161:ALA:O	2.12	0.50
57:BZ:160:PHE:CA	57:BZ:161:ALA:HB3	2.41	0.50
57:BZ:267:LEU:CG	57:BZ:268:ALA:N	2.73	0.50
57:BZ:29:SER:CB	57:BZ:60:ASN:OD1	2.60	0.50
57:BZ:383:SER:N	57:BZ:384:ARG:CB	2.75	0.50
57:BZ:406:ASP:CG	57:BZ:407:VAL:HG22	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:426:LEU:CG	57:BZ:441:TYR:CZ	2.94	0.50
1:AA:1485:G:O2'	1:AA:1486:A:H5'	2.11	0.50
23:AY:2:ARG:O	23:AY:6:GLU:OE2	2.29	0.50
3:AC:148:ASN:HB2	3:AC:151:GLU:HB2	1.92	0.50
57:BZ:293:ASN:N	57:BZ:294:VAL:CA	2.73	0.50
1:AA:1128:A:C6	1:AA:1129:A:N1	2.79	0.50
1:AA:1151:G:H2'	1:AA:1152:C:C5	2.45	0.50
1:AA:1189:A:OP2	1:AA:1190:G:N7	2.44	0.50
1:AA:1222:C:N3	1:AA:1223:C:C5	2.78	0.50
1:AA:1313:U:H2'	1:AA:1314:C:C5	2.45	0.50
1:AA:147:U:N3	1:AA:148:C:N4	2.60	0.50
1:AA:120:U:C2	1:AA:149:A:C2	2.99	0.50
1:AA:1539:G:C8	1:AA:1540:G:C8	2.99	0.50
1:AA:1543:A:H8	1:AA:1544:C:HO2'	1.59	0.50
1:AA:1575:C:N4	1:AA:1576:U:N3	2.58	0.50
1:AA:1577:C:H6	1:AA:1577:C:OP2	1.94	0.50
1:AA:1591:G:C2	1:AA:1592:C:C4	2.99	0.50
1:AA:1613:G:N2	1:AA:1619:G:N9	2.60	0.50
1:AA:1731:G:N3	1:AA:1731:G:C2'	2.74	0.50
1:AA:1769:G:C6	1:AA:1770:G:O6	2.64	0.50
1:AA:1774:C:H5	1:AA:1775:U:C5	2.26	0.50
1:AA:1942:C:H3'	1:AA:1942:C:OP2	2.11	0.50
1:AA:2000:G:H2'	1:AA:2001:A:H8	1.76	0.50
1:AA:2041:U:C2	1:AA:2042:A:N7	2.80	0.50
1:AA:2260:C:O2'	1:AA:2261:C:H5'	2.11	0.50
1:AA:2503:A:HO2'	1:AA:2504:U:P	2.33	0.50
1:AA:1050:A:C2'	1:AA:2752:C:OP1	2.57	0.50
1:AA:322:A:H5'	1:AA:341:G:H5'	1.92	0.50
1:AA:247:G:O3'	1:AA:386:G:N2	2.44	0.50
1:AA:463:G:O3'	1:AA:464:U:H5	1.95	0.50
1:AA:588:U:C1'	6:AF:90:PHE:CD1	2.94	0.50
1:AA:611:C:N4	1:AA:618:G:H1	2.10	0.50
1:AA:617:G:OP2	6:AF:40:GLN:NE2	2.44	0.50
1:AA:66:C:C4	1:AA:89:G:N1	2.80	0.50
1:AA:702:G:H2'	1:AA:703:U:C5'	2.41	0.50
1:AA:70:G:H2'	1:AA:114:U:C5	2.46	0.50
1:AA:753:C:H2'	1:AA:753:C:O2	2.11	0.50
1:AA:795:C:C2	1:AA:796:C:C5	2.99	0.50
1:AA:943:U:H5''	1:AA:944:G:O6	2.12	0.50
2:AB:66:A:H2	2:AB:108:C:N1	2.09	0.50
2:AB:28:C:C6	2:AB:28:C:O5'	2.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:73:A:C2	21:AW:29:TYR:HE1	2.30	0.50
3:AC:120:MET:HE2	3:AC:145:VAL:HG22	1.93	0.50
4:AD:106:ILE:HD12	4:AD:192:THR:HG23	1.93	0.50
4:AD:111:LEU:HD12	4:AD:115:GLN:OE1	2.11	0.50
4:AD:244:ARG:C	4:AD:252:TRP:CD1	2.84	0.50
4:AD:89:SER:O	4:AD:202:LYS:HE3	2.11	0.50
1:AA:1997:G:H5'	5:AE:123:ALA:HB3	1.93	0.50
5:AE:14:ILE:O	5:AE:14:ILE:HD12	2.12	0.50
5:AE:50:GLY:O	5:AE:76:ARG:NE	2.39	0.50
5:AE:5:LEU:HD23	5:AE:6:GLY:C	2.31	0.50
6:AF:162:LEU:O	6:AF:165:ARG:HB3	2.11	0.50
6:AF:39:TRP:O	6:AF:42:ALA:HB3	2.12	0.50
1:AA:1046:A:N7	31:AI:9:LEU:O	2.43	0.50
32:AJ:122:ALA:C	32:AJ:126:MET:HB3	2.30	0.50
32:AJ:98:ARG:CG	32:AJ:99:ILE:N	2.74	0.50
32:AJ:99:ILE:O	32:AJ:103:GLN:CB	2.60	0.50
10:AL:12:ASP:OD1	10:AL:12:ASP:N	2.42	0.50
11:AM:87:ASP:O	11:AM:89:ALA:N	2.45	0.50
12:AN:122:GLY:O	12:AN:124:LYS:C	2.50	0.50
12:AN:16:ARG:O	12:AN:17:LEU:CG	2.59	0.50
12:AN:85:LYS:CG	12:AN:86:GLY:N	2.73	0.50
14:AP:16:ASN:CG	14:AP:17:ARG:N	2.64	0.50
2:AB:7:G:C4'	14:AP:29:PHE:HE2	2.17	0.50
15:AQ:17:THR:C	15:AQ:19:LEU:N	2.64	0.50
15:AQ:49:VAL:O	15:AQ:50:ILE:HG12	2.12	0.50
16:AR:102:GLU:O	16:AR:105:VAL:CB	2.59	0.50
16:AR:65:ILE:O	16:AR:68:ALA:N	2.44	0.50
18:AT:78:GLU:CG	18:AT:99:ARG:HB3	2.42	0.50
19:AU:61:GLY:N	19:AU:73:ARG:HH12	2.09	0.50
20:AV:35:TYR:CE2	20:AV:67:LEU:HD13	2.46	0.50
20:AV:69:ALA:O	20:AV:71:LYS:HD2	2.11	0.50
21:AW:17:ALA:CA	21:AW:20:ARG:NH2	2.72	0.50
21:AW:41:LEU:O	21:AW:45:ASP:OD1	2.29	0.50
24:AZ:5:LYS:HE2	24:AZ:57:GLU:HB2	1.94	0.50
34:BA:1027:C:C4	34:BA:1028:C:C5	2.99	0.50
34:BA:1061:G:H5'	43:BN:59:SER:OG	2.11	0.50
34:BA:1116:C:H2'	34:BA:1117:G:H8	1.76	0.50
34:BA:1167:A:H3'	34:BA:1169:A:C8	2.46	0.50
34:BA:1319:A:C8	52:BW:70:LYS:NZ	2.75	0.50
34:BA:1324:A:C6	34:BA:1325:C:C5	3.00	0.50
34:BA:1329:A:O2'	46:BQ:70:LEU:HD21	1.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1399:C:H42	34:BA:1504:G:H1	1.60	0.50
34:BA:145:G:C6	34:BA:178:C:C4	2.99	0.50
34:BA:1419:G:C6	34:BA:1482:G:C2	2.99	0.50
34:BA:196:A:H1'	34:BA:222:U:H1'	1.92	0.50
34:BA:22:G:C2	34:BA:23:C:C2	3.00	0.50
34:BA:262:A:C4'	53:BX:74:LYS:HG3	2.41	0.50
34:BA:309:G:H2'	34:BA:310:G:H8	1.76	0.50
34:BA:336:C:C2	34:BA:337:C:C5	2.99	0.50
34:BA:367:U:O2'	34:BA:368:U:H4'	2.12	0.50
34:BA:485:G:O2'	34:BA:486:U:H6	1.93	0.50
34:BA:621:A:H2'	34:BA:622:A:C8	2.46	0.50
34:BA:997:U:OP2	34:BA:997:U:H6	1.94	0.50
35:BF:105:PHE:O	35:BF:109:SER:OG	2.21	0.50
35:BF:141:GLU:CD	35:BF:141:GLU:C	2.69	0.50
37:BH:98:GLU:CA	37:BH:103:ASN:ND2	2.68	0.50
37:BH:20:TYR:C	37:BH:22:LYS:H	2.12	0.50
37:BH:31:CYS:O	37:BH:33:MET:CE	2.59	0.50
38:BI:109:ILE:HD13	38:BI:135:THR:HG21	1.91	0.50
38:BI:122:GLU:HG2	38:BI:126:ARG:CG	2.41	0.50
39:BJ:12:PRO:C	39:BJ:14:LEU:H	2.14	0.50
39:BJ:60:PHE:HE2	51:BV:78:LEU:HD11	1.77	0.50
39:BJ:2:ARG:NE	39:BJ:69:GLU:HG2	2.26	0.50
40:BK:113:GLU:OE2	40:BK:119:ARG:CG	2.58	0.50
40:BK:69:VAL:CA	40:BK:135:VAL:HG22	2.42	0.50
40:BK:23:VAL:HG13	40:BK:43:PHE:CE2	2.46	0.50
41:BL:110:ALA:C	41:BL:111:ILE:HD12	2.31	0.50
42:BM:118:LYS:O	42:BM:119:ALA:C	2.50	0.50
42:BM:11:LYS:CG	42:BM:11:LYS:O	2.59	0.50
43:BN:22:LYS:NZ	43:BN:90:LEU:CD1	2.73	0.50
43:BN:57:LYS:O	43:BN:57:LYS:HG2	2.11	0.50
43:BN:61:GLU:CG	43:BN:62:HIS:H	2.19	0.50
44:BO:57:THR:C	44:BO:59:TYR:N	2.60	0.50
44:BO:70:LYS:HD2	44:BO:70:LYS:H	1.77	0.50
46:BQ:97:PRO:HG2	46:BQ:101:GLN:CB	2.42	0.50
47:BR:23:ARG:HA	47:BR:30:ALA:HA	1.93	0.50
34:BA:750:G:H1'	48:BS:23:GLY:CA	2.42	0.50
50:BU:75:ARG:HH12	50:BU:77:VAL:HA	1.77	0.50
52:BW:30:LEU:HD12	52:BW:59:PRO:HA	1.93	0.50
57:BZ:244:GLY:CA	57:BZ:245:LYS:CB	2.86	0.50
57:BZ:556:VAL:O	57:BZ:557:LEU:HD23	2.12	0.50
56:BD:3:C:C2	56:BD:71:G:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:60:ALA:HA	43:BN:92:THR:O	2.11	0.50
57:BZ:601:ASN:CA	57:BZ:602:ARG:HB2	2.42	0.50
38:BI:8:GLU:O	38:BI:8:GLU:CD	2.50	0.50
1:AA:1063:G:C8	1:AA:1064:C:C6	2.99	0.50
1:AA:1083:U:N3	1:AA:1085:A:H8	2.01	0.50
1:AA:1103:A:OP2	1:AA:1104:C:C6	2.65	0.50
1:AA:1142(A):A:C8	1:AA:1142(A):A:O5'	2.65	0.50
1:AA:1373:A:C8	1:AA:1374:G:N7	2.80	0.50
1:AA:1403:C:H4'	1:AA:1471:A:C5'	2.37	0.50
1:AA:1476:C:H2'	1:AA:1476:C:O2	2.11	0.50
1:AA:1552:G:H5'	1:AA:1553:A:OP1	2.11	0.50
1:AA:1619:G:N2	1:AA:1620:G:C4	2.80	0.50
1:AA:1272:A:H5'	1:AA:1646:C:C2	2.47	0.50
1:AA:1655:A:C2'	1:AA:1656:C:H6	2.22	0.50
1:AA:1803:A:O3'	4:AD:257:LEU:HD13	2.10	0.50
1:AA:185:U:C4	1:AA:212:G:N2	2.79	0.50
1:AA:2027:G:C1'	1:AA:2037:G:H22	2.22	0.50
1:AA:2048:G:H2'	1:AA:2049:G:O5'	2.12	0.50
1:AA:2057:A:C8	1:AA:2058:A:N7	2.80	0.50
1:AA:2072:G:N3	1:AA:2073:C:C5	2.80	0.50
1:AA:2199:A:C4	1:AA:2225:A:N1	2.80	0.50
1:AA:1889:A:C2	1:AA:2234:G:H1'	2.47	0.50
1:AA:2247:A:H2'	1:AA:2248:C:H6	1.76	0.50
1:AA:2265:U:O2	1:AA:2265:U:H2'	2.10	0.50
1:AA:2277:G:C6	1:AA:2278:A:N7	2.79	0.50
1:AA:2469:A:C6	1:AA:2482:G:C8	3.00	0.50
1:AA:2521:C:C5	1:AA:2522:U:C5	2.99	0.50
1:AA:2544:G:H2'	1:AA:2545:G:C5'	2.42	0.50
1:AA:2556:C:C2	57:BZ:546:MET:HE2	2.46	0.50
1:AA:746:A:N7	1:AA:2612:C:OP1	2.44	0.50
1:AA:2620:C:C2'	1:AA:2621:A:O5'	2.60	0.50
1:AA:2701:C:C3'	1:AA:2702:U:C5'	2.80	0.50
1:AA:2707:G:C2'	1:AA:2708:G:O5'	2.58	0.50
1:AA:270(L):U:O2'	1:AA:270(M):U:P	2.69	0.50
1:AA:270(X):G:N3	1:AA:270(Y):G:H4'	2.26	0.50
1:AA:2781:A:C2'	1:AA:2782:G:O2'	2.57	0.50
1:AA:371:A:H5''	1:AA:423:A:C5	2.46	0.50
1:AA:375:C:O2	1:AA:375:C:H2'	2.10	0.50
1:AA:448:U:O4	1:AA:583:G:C4	2.65	0.50
1:AA:532:A:P	1:AA:2021:C:N4	2.84	0.50
1:AA:571:A:N3	1:AA:573:G:N7	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:685:A:H5''	1:AA:686:G:H22	1.70	0.50
1:AA:697:C:O2'	1:AA:698:C:O4'	2.25	0.50
1:AA:819:A:C8	1:AA:819:A:H5'	2.46	0.50
1:AA:823:G:H5'	1:AA:824:A:OP2	2.11	0.50
1:AA:898:C:H3'	1:AA:899:A:H5''	1.92	0.50
1:AA:904:C:O2'	21:AW:122:ARG:NH1	2.44	0.50
1:AA:934:G:C6	1:AA:935:C:C5	3.00	0.50
1:AA:969:U:N3	1:AA:970:C:C5	2.80	0.50
2:AB:32:C:C2'	2:AB:32:C:O2	2.60	0.50
2:AB:60:C:H2'	2:AB:61:G:C8	2.47	0.50
2:AB:79:C:C2'	2:AB:80:U:H5'	2.41	0.50
3:AC:213:TYR:HD1	3:AC:213:TYR:N	2.04	0.50
3:AC:43:VAL:CG1	3:AC:224:ILE:HD13	2.27	0.50
4:AD:117:VAL:CG1	4:AD:118:VAL:N	2.74	0.50
4:AD:133:LEU:CB	4:AD:136:ILE:HD11	2.26	0.50
4:AD:148:GLU:O	4:AD:149:PRO:C	2.49	0.50
4:AD:177:LEU:O	4:AD:178:PRO:O	2.30	0.50
4:AD:181:GLU:OE1	4:AD:271:ILE:O	2.30	0.50
4:AD:61:LEU:O	4:AD:62:TYR:CB	2.60	0.50
5:AE:176:ILE:HD13	5:AE:176:ILE:C	2.32	0.50
5:AE:4:ILE:HD12	5:AE:76:ARG:NH2	2.26	0.50
5:AE:4:ILE:O	5:AE:27:LEU:CD2	2.57	0.50
1:AA:2830:G:H5'	5:AE:57:LYS:CE	2.42	0.50
6:AF:45:ARG:HD3	6:AF:97:TYR:CE1	2.46	0.50
7:AG:110:ALA:HB1	7:AG:139:LEU:HD21	1.92	0.50
8:AH:54:ARG:NH2	8:AH:54:ARG:HB3	2.26	0.50
32:AJ:34:ILE:CD1	32:AJ:63:ARG:HH22	2.18	0.50
32:AJ:78:ILE:HG21	32:AJ:127:ILE:N	2.27	0.50
9:AK:35:ARG:HB3	9:AK:37:LYS:H	1.76	0.50
9:AK:67:LEU:N	9:AK:69:GLN:OE1	2.45	0.50
10:AL:15:GLY:N	10:AL:52:VAL:HG21	2.25	0.50
10:AL:63:VAL:CA	10:AL:78:ARG:HD3	2.36	0.50
11:AM:55:ARG:NH2	11:AM:55:ARG:CB	2.68	0.50
12:AN:67:ARG:HH21	12:AN:103:MET:C	2.15	0.50
12:AN:11:LYS:HD3	12:AN:16:ARG:HH21	1.76	0.50
1:AA:2009:G:C1'	13:AO:107:ASP:O	2.59	0.50
13:AO:13:HIS:HB3	13:AO:16:HIS:HD2	1.66	0.50
13:AO:63:ARG:HH12	13:AO:80:PHE:CB	2.24	0.50
13:AO:4:LEU:O	13:AO:6:SER:N	2.45	0.50
13:AO:85:PRO:O	13:AO:86:ARG:C	2.50	0.50
14:AP:69:VAL:HG13	14:AP:73:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:89:GLN:HG2	17:AS:91:TYR:CE1	2.47	0.50
1:AA:751:A:H4'	18:AT:90:ARG:NE	2.26	0.50
21:AW:102:LEU:HG	21:AW:125:LEU:CD1	2.42	0.50
21:AW:1:MET:H2	21:AW:53:ILE:HD11	1.76	0.50
21:AW:56:VAL:HG11	21:AW:135:GLU:OE2	2.11	0.50
23:AY:56:LEU:N	23:AY:56:LEU:CD1	2.70	0.50
34:BA:1003:G:N2	34:BA:1005:A:H5'	2.26	0.50
34:BA:1058:G:O5'	34:BA:1058:G:C8	2.64	0.50
34:BA:1066:C:C3'	34:BA:1067:A:C8	2.90	0.50
34:BA:1115:C:O2	34:BA:1186:G:C5	2.65	0.50
34:BA:1324:A:C6	34:BA:1325:C:C4	3.00	0.50
34:BA:1362(A):C:H5'	34:BA:1363:A:O5'	2.11	0.50
34:BA:1446:A:H2'	34:BA:1447:G:H5'	1.93	0.50
34:BA:245:C:N3	34:BA:284:G:N1	2.59	0.50
34:BA:258:G:C6	34:BA:259:G:O6	2.65	0.50
34:BA:266:G:H22	34:BA:270:A:N6	2.09	0.50
34:BA:27:G:C6	34:BA:557:G:C2	3.00	0.50
34:BA:380:G:N2	34:BA:382:A:C3'	2.75	0.50
34:BA:393:A:H2'	34:BA:394:G:H8	1.76	0.50
34:BA:440:A:H62	34:BA:493:G:H21	1.58	0.50
34:BA:49:U:C4	34:BA:361:G:C2	3.00	0.50
34:BA:598:U:O2'	34:BA:599:C:H5'	2.12	0.50
34:BA:595:G:N7	34:BA:641:U:N3	2.58	0.50
34:BA:712:A:H2'	34:BA:713:G:C8	2.47	0.50
34:BA:729:A:H2'	34:BA:730:G:O5'	2.10	0.50
34:BA:851:G:C2	34:BA:852:G:C1'	2.94	0.50
34:BA:850:U:H2'	34:BA:851:G:H8	1.76	0.50
34:BA:896:C:H2'	34:BA:897:C:H6	1.76	0.50
34:BA:920:U:O2'	34:BA:921:U:H5'	2.10	0.50
56:BE:21:A:H61	56:BE:46:G:C2'	2.24	0.50
35:BF:124:SER:C	35:BF:126:GLU:H	2.15	0.50
35:BF:28:PHE:CD1	35:BF:32:ILE:HD12	2.46	0.50
35:BF:76:GLN:O	35:BF:211:ILE:HD11	2.12	0.50
36:BG:138:VAL:O	36:BG:139:GLN:C	2.50	0.50
36:BG:186:PHE:CA	36:BG:198:VAL:O	2.59	0.50
36:BG:28:GLN:NE2	36:BG:29:TYR:N	2.60	0.50
36:BG:76:VAL:CG1	36:BG:77:ILE:N	2.74	0.50
36:BG:78:GLY:HA3	36:BG:82:GLU:OE1	2.11	0.50
37:BH:101:LEU:C	37:BH:104:VAL:HG22	2.26	0.50
37:BH:66:ARG:O	37:BH:68:TYR:N	2.44	0.50
38:BI:13:ILE:N	38:BI:13:ILE:CD1	2.66	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:5:ARG:HH11	40:BK:5:ARG:C	2.15	0.50
41:BL:36:LEU:CD1	41:BL:48:TYR:HB2	2.37	0.50
42:BM:100:GLY:C	42:BM:101:PHE:CD1	2.84	0.50
42:BM:49:PRO:HG3	42:BM:81:ILE:HB	1.92	0.50
44:BO:64:ALA:O	44:BO:65:ALA:C	2.47	0.50
46:BQ:14:ARG:NH2	46:BQ:42:ALA:CA	2.63	0.50
48:BS:70:LEU:CD2	48:BS:81:LEU:HD13	2.41	0.50
49:BT:54:GLU:O	49:BT:57:ARG:N	2.44	0.50
50:BU:21:VAL:O	50:BU:42:TYR:O	2.29	0.50
50:BU:75:ARG:CG	50:BU:76:LEU:N	2.74	0.50
39:BJ:46:ARG:NH2	51:BV:37:VAL:HG13	2.27	0.50
51:BV:60:ALA:O	51:BV:64:ARG:HG3	2.11	0.50
54:BY:9:ARG:NH1	54:BY:21:TYR:CD2	2.76	0.50
57:BZ:10:ILE:HD13	57:BZ:21:LEU:HD13	1.92	0.50
57:BZ:27:GLN:HG3	57:BZ:28:GLN:CB	2.41	0.50
55:BC:38:A:H8	55:BC:38:A:O5'	1.94	0.50
1:AA:1583:A:HO2'	1:AA:1585:C:H6	1.59	0.50
1:AA:487:C:N4	1:AA:488:G:C6	2.79	0.50
1:AA:1031:G:C6	1:AA:1032:A:N6	2.80	0.50
1:AA:1022:G:C6	1:AA:1139:G:C2	2.99	0.50
1:AA:1179:C:O2'	1:AA:1180:C:P	2.69	0.50
1:AA:991:C:C5	1:AA:1185:C:C4	3.00	0.50
1:AA:1210:A:C1'	1:AA:1212:G:N2	2.75	0.50
1:AA:1238:G:N2	1:AA:1239:G:H1'	2.25	0.50
1:AA:1361:G:H2'	1:AA:1362:C:H6	1.77	0.50
1:AA:1532:C:N4	1:AA:1540:G:C2	2.80	0.50
1:AA:1620:G:H2'	1:AA:1621:U:C6	2.46	0.50
1:AA:1672:C:H2'	1:AA:1673:U:H5''	1.94	0.50
1:AA:1710:C:O5'	1:AA:1710:C:H6	1.95	0.50
1:AA:1746:G:O2'	1:AA:1747:G:O4'	2.22	0.50
1:AA:1754:C:C2	1:AA:1755:A:N9	2.79	0.50
1:AA:1772:G:C2	1:AA:1773:A:O2'	2.65	0.50
1:AA:1819:A:OP1	4:AD:158:ALA:N	2.44	0.50
1:AA:1858:G:C6	1:AA:1883:G:C6	3.00	0.50
1:AA:1980:G:H2'	1:AA:1982:C:OP2	2.11	0.50
1:AA:2047:U:C2	1:AA:2048:G:N7	2.79	0.50
1:AA:2072:G:C4	1:AA:2073:C:H5	2.27	0.50
1:AA:2209:C:C3'	1:AA:2209:C:C6	2.94	0.50
1:AA:2424:C:C5'	1:AA:2425:A:H5'	2.42	0.50
1:AA:195:A:H4'	1:AA:251:A:O4'	2.11	0.50
1:AA:251:A:OP2	1:AA:251:A:H3'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:252:G:O6	5:AE:8:LYS:NZ	116.91	0.50
1:AA:239:U:C2	1:AA:259:G:N1	2.80	0.50
1:AA:1265:A:P	1:AA:2615:U:OP1	2.69	0.50
1:AA:2792:G:H1	1:AA:2803:C:N4	1.89	0.50
1:AA:2862:G:C4	1:AA:2863:C:C5	2.99	0.50
1:AA:2630:G:C2	1:AA:2894:G:N7	2.78	0.50
1:AA:299:A:O2'	1:AA:319:C:C4'	2.59	0.50
1:AA:2507:C:N1	59:AA:3002:8AN:C4	2.74	0.50
1:AA:313:C:C2	1:AA:314:A:C8	2.99	0.50
1:AA:408:G:C4	1:AA:409:C:C6	3.00	0.50
1:AA:422:A:N1	1:AA:423:A:C2	2.79	0.50
1:AA:439:G:H2'	1:AA:440:G:O4'	2.12	0.50
1:AA:461:C:N4	1:AA:469:G:H21	2.10	0.50
1:AA:473:G:N2	1:AA:474:G:N3	2.59	0.50
1:AA:556:G:H2'	1:AA:557:U:O5'	2.12	0.50
1:AA:609:A:C8	1:AA:609(A):G:N7	2.79	0.50
1:AA:6:A:C2	1:AA:2897:U:N3	2.63	0.50
1:AA:731:C:H2'	1:AA:732:C:C5'	2.41	0.50
1:AA:748:G:OP1	18:AT:88:ARG:CD	2.60	0.50
1:AA:863:A:H2'	1:AA:864:G:C8	2.47	0.50
1:AA:963:U:H2'	1:AA:963:U:O2	2.11	0.50
2:AB:47:C:C2'	2:AB:48:A:H5'	2.42	0.50
2:AB:58:A:C5	2:AB:59:A:N7	2.79	0.50
3:AC:97:GLU:OE1	3:AC:122:ALA:CB	2.60	0.50
3:AC:161:ILE:C	3:AC:161:ILE:HD12	2.31	0.50
3:AC:62:VAL:CG1	3:AC:192:PHE:HB2	2.41	0.50
3:AC:52:ARG:HG3	3:AC:53:ARG:CG	2.42	0.50
4:AD:133:LEU:HG	4:AD:187:GLY:O	2.12	0.50
4:AD:150:LYS:C	4:AD:152:GLY:N	2.65	0.50
4:AD:182:LEU:O	4:AD:268:ARG:HA	2.11	0.50
6:AF:125:LEU:HD13	6:AF:128:ALA:CB	2.41	0.50
6:AF:155:LEU:HA	6:AF:174:VAL:CG2	2.38	0.50
6:AF:64:ILE:HG21	6:AF:78:ILE:HB	1.92	0.50
7:AG:63:ILE:CG2	7:AG:64:THR:N	2.74	0.50
7:AG:9:ARG:HB2	7:AG:9:ARG:CZ	2.41	0.50
8:AH:136:ILE:HG23	8:AH:140:LYS:HE2	1.94	0.50
8:AH:42:ARG:HA	8:AH:42:ARG:CZ	2.41	0.50
8:AH:94:TYR:O	8:AH:95:ARG:HD2	2.10	0.50
9:AK:122:VAL:C	9:AK:123:TYR:CG	2.85	0.50
11:AM:114:ILE:CG2	11:AM:134:ALA:HB2	2.41	0.50
12:AN:51:ARG:HD3	12:AN:52:VAL:CA	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:57:ARG:HG2	13:AO:57:ARG:HH11	1.76	0.50
13:AO:26:LYS:CE	13:AO:70:LEU:HA	2.41	0.50
14:AP:49:VAL:HG11	14:AP:80:LEU:CG	2.32	0.50
2:AB:47:C:O2'	14:AP:92:TYR:CE1	2.64	0.50
15:AQ:85:LYS:N	15:AQ:85:LYS:NZ	2.57	0.50
16:AR:111:GLU:HG3	16:AR:112:ARG:H	1.77	0.50
16:AR:48:ALA:O	16:AR:52:ARG:NE	2.44	0.50
16:AR:54:LYS:HA	16:AR:54:LYS:HE2	1.92	0.50
16:AR:67:ALA:HA	16:AR:70:ARG:NH2	2.11	0.50
16:AR:76:TYR:O	16:AR:77:SER:C	2.50	0.50
17:AS:22:VAL:HG12	17:AS:23:GLU:N	2.26	0.50
18:AT:98:LYS:HE2	18:AT:99:ARG:C	2.32	0.50
19:AU:32:PRO:O	19:AU:33:LYS:HB2	2.11	0.50
20:AV:12:THR:HG22	20:AV:13:VAL:CG1	2.41	0.50
20:AV:26:LYS:HB2	20:AV:38:ILE:CD1	2.32	0.50
20:AV:45:VAL:HA	20:AV:57:GLN:CG	2.41	0.50
21:AW:6:LYS:HE3	21:AW:35:ARG:HG3	1.93	0.50
21:AW:57:ILE:C	21:AW:58:VAL:CG2	2.80	0.50
21:AW:62:PRO:O	21:AW:64:GLY:N	2.41	0.50
21:AW:70:LEU:C	21:AW:70:LEU:HD12	2.32	0.50
34:BA:1002:G:N7	34:BA:1004:A:N1	2.60	0.50
34:BA:1062:U:C2	34:BA:1063:C:N4	2.80	0.50
34:BA:1260:C:O5'	34:BA:1284:C:H4'	2.12	0.50
34:BA:1465:C:O2'	34:BA:1466:C:H5'	2.09	0.50
34:BA:1488:G:C2	34:BA:1489:G:N7	2.80	0.50
34:BA:1494:G:H22	34:BA:1496:C:N4	2.10	0.50
34:BA:1505:G:H5''	34:BA:1506:U:O5'	2.12	0.50
34:BA:126:G:C6	34:BA:236:G:O6	2.65	0.50
34:BA:323:U:C5	34:BA:324:G:C1'	2.94	0.50
34:BA:364:A:C2	34:BA:365:U:O4	2.65	0.50
34:BA:451:A:OP1	34:BA:481:G:N1	2.43	0.50
34:BA:465:A:N6	34:BA:467:G:N3	2.59	0.50
34:BA:486:U:H2'	34:BA:486:U:O2	2.10	0.50
34:BA:518:C:H3'	34:BA:530:G:H21	1.76	0.50
34:BA:557:G:H3'	34:BA:558:G:H8	1.74	0.50
34:BA:643:C:N3	34:BA:644:G:N7	2.60	0.50
34:BA:5:U:O2'	34:BA:6:G:P	2.69	0.50
34:BA:717:C:O2'	34:BA:718:G:P	2.68	0.50
34:BA:783:C:C2'	34:BA:784:C:H5'	2.42	0.50
34:BA:972:C:H2'	34:BA:972:C:O2	2.12	0.50
34:BA:96:G:C5	34:BA:97:U:C4	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1924:C:C5'	56:BE:12:U:O2'	2.58	0.50
35:BF:136:VAL:O	35:BF:139:LYS:CG	2.56	0.50
35:BF:150:SER:C	35:BF:153:ARG:HB2	2.32	0.50
35:BF:71:VAL:O	35:BF:165:VAL:HG22	2.12	0.50
35:BF:165:VAL:HG23	35:BF:166:ASP:N	2.21	0.50
35:BF:171:ALA:O	35:BF:172:ILE:C	2.49	0.50
35:BF:222:ILE:HD13	35:BF:226:ARG:NH2	2.25	0.50
35:BF:67:THR:CG2	35:BF:155:LEU:HD21	2.42	0.50
36:BG:11:ARG:HH11	36:BG:15:THR:HG21	1.77	0.50
36:BG:182:ILE:HG23	36:BG:202:ILE:C	2.32	0.50
36:BG:27:LYS:O	36:BG:28:GLN:HB3	2.11	0.50
36:BG:31:HIS:CE1	36:BG:34:LEU:HD13	2.47	0.50
36:BG:47:LEU:HD22	36:BG:47:LEU:N	2.27	0.50
36:BG:6:HIS:NE2	36:BG:8:ILE:HB	2.26	0.50
37:BH:100:ARG:NH2	37:BH:136:PRO:O	2.44	0.50
37:BH:17:VAL:O	37:BH:18:LYS:O	2.29	0.50
38:BI:115:VAL:HG11	38:BI:118:ILE:CD1	2.41	0.50
40:BK:71:PRO:HD3	40:BK:100:ALA:HB2	1.92	0.50
40:BK:16:LEU:HB3	42:BM:41:VAL:HG12	1.93	0.50
43:BN:4:ILE:HD13	43:BN:98:ILE:HG23	1.94	0.50
46:BQ:20:THR:CA	46:BQ:25:ILE:HG22	2.42	0.50
48:BS:56:LEU:CD1	48:BS:59:MET:HE1	2.41	0.50
49:BT:9:PHE:CE1	49:BT:18:ARG:HG3	2.47	0.50
50:BU:26:GLN:O	50:BU:27:PHE:HB3	2.12	0.50
50:BU:29:HIS:CE1	50:BU:31:LEU:HB3	2.46	0.50
51:BV:38:GLU:HG2	51:BV:39:VAL:H	1.77	0.50
52:BW:39:THR:HG22	52:BW:39:THR:O	2.11	0.50
53:BX:29:LYS:O	53:BX:30:LYS:C	2.50	0.50
53:BX:72:LEU:HD22	53:BX:76:ALA:C	2.30	0.50
54:BY:7:ARG:O	54:BY:12:LYS:HD3	2.11	0.50
57:BZ:221:ILE:N	57:BZ:221:ILE:CD1	2.74	0.50
57:BZ:253:LYS:HZ1	57:BZ:269:GLU:HB3	1.76	0.50
57:BZ:446:ARG:O	57:BZ:480:VAL:HG11	2.12	0.50
1:AA:2472:G:OP1	57:BZ:529:ARG:NE	2.44	0.50
57:BZ:382:VAL:CG2	57:BZ:578:VAL:HG21	2.29	0.50
56:BD:4:C:C5	56:BD:70:G:N1	2.80	0.50
55:BC:37:A:C2'	55:BC:38:A:C5'	2.89	0.50
56:BD:26:A:H2'	56:BD:27:G:H5'	1.92	0.50
55:BC:70:G:H2'	55:BC:71:G:O4'	2.12	0.50
37:BH:191:ARG:HD3	37:BH:192:GLU:CA	2.42	0.50
1:AA:487:C:O5'	1:AA:487:C:H6	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:30:GLY:O	12:AN:31:ASP:HB2	2.12	0.50
1:AA:1008:C:OP1	1:AA:1008:C:H6	1.95	0.50
1:AA:1062:G:C1'	1:AA:1063:G:P	3.00	0.50
1:AA:1077:A:H62	1:AA:1088:A:C2'	2.23	0.50
1:AA:1135:C:C2	1:AA:1136:G:C8	2.99	0.50
1:AA:117:G:C4	1:AA:119:A:N6	2.80	0.50
1:AA:1203:G:O6	1:AA:1240:U:N1	2.35	0.50
1:AA:126:A:O2'	1:AA:127:A:H5'	2.11	0.50
1:AA:1272:A:O2'	1:AA:1273:U:P	2.68	0.50
1:AA:1334:G:P	19:AU:65:ARG:HH12	2.34	0.50
1:AA:1444:G:H5'	1:AA:1444(A):A:OP2	2.12	0.50
1:AA:1471:A:N7	1:AA:1521:G:N2	2.59	0.50
1:AA:1464:C:C4'	1:AA:1528:A:O2'	2.59	0.50
1:AA:1575:C:N4	1:AA:1576:U:C4	2.80	0.50
1:AA:1672:C:N4	1:AA:1673:U:C5	2.79	0.50
1:AA:1690:A:N3	1:AA:1691:C:O4'	2.45	0.50
1:AA:1756:G:H3'	1:AA:1756:G:OP1	2.11	0.50
1:AA:764:A:C6	1:AA:1789:A:C2	3.00	0.50
1:AA:1826:G:O5'	1:AA:1826:G:C8	2.64	0.50
1:AA:1916:A:N6	34:BA:1409:C:O2'	2.45	0.50
1:AA:1920:C:C1'	1:AA:1921:G:P	3.00	0.50
1:AA:1945:G:C8	1:AA:1945:G:H5'	2.46	0.50
1:AA:1964:G:HO2'	1:AA:1965:C:P	2.34	0.50
1:AA:2256:G:C8	1:AA:2256:G:H5''	2.46	0.50
1:AA:2264:C:C5	1:AA:2265:U:C5	3.00	0.50
1:AA:2305:A:H62	1:AA:2306:C:H5	1.60	0.50
1:AA:251:A:C2'	1:AA:252:G:O5'	2.58	0.50
1:AA:2537:U:H2'	1:AA:2538:C:H6	1.71	0.50
1:AA:2610:C:O2'	1:AA:2611:U:OP2	2.24	0.50
1:AA:262:A:H2'	1:AA:263:C:H6	1.76	0.50
1:AA:2640:G:H2'	1:AA:2641:G:H8	1.77	0.50
1:AA:2658:C:H41	1:AA:2664:G:H22	1.59	0.50
1:AA:2667:C:O2'	1:AA:2668:G:H5'	2.12	0.50
1:AA:2671:A:C2'	1:AA:2672:G:C8	2.86	0.50
1:AA:2694:G:C6	1:AA:2695:C:N4	2.80	0.50
1:AA:299:A:HO2'	1:AA:319:C:C2'	2.22	0.50
1:AA:408:G:N3	1:AA:409:C:C6	2.79	0.50
1:AA:455:C:C5'	1:AA:456:C:OP1	2.60	0.50
1:AA:484:C:H2'	1:AA:485:C:C5	2.44	0.50
1:AA:50:U:C6	1:AA:50:U:H3'	2.46	0.50
1:AA:514:A:H2'	1:AA:514:A:N3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:531:C:O4'	1:AA:2035:G:N2	2.43	0.50
1:AA:552:G:C6	1:AA:553:U:C4	3.00	0.50
1:AA:558:G:N3	1:AA:559:G:N7	2.59	0.50
1:AA:587:C:C4	1:AA:671:C:C6	3.00	0.50
1:AA:70:G:H4'	1:AA:71:A:H5''	1.89	0.50
1:AA:847:U:C4	1:AA:933:A:C2	3.00	0.50
1:AA:858:U:C5	1:AA:859:G:N2	2.80	0.50
1:AA:928:G:N7	1:AA:929:G:C4	2.80	0.50
1:AA:820:A:C2	1:AA:943:U:C2'	2.95	0.50
1:AA:974:G:H8	1:AA:974(A):C:O4'	1.95	0.50
2:AB:66:A:N1	2:AB:107:U:H2'	2.26	0.50
3:AC:91:ALA:CB	3:AC:153:ILE:HG21	2.35	0.50
4:AD:96:HIS:NE2	4:AD:102:LYS:CE	2.74	0.50
4:AD:117:VAL:CG1	4:AD:128:GLY:C	2.79	0.50
4:AD:172:TYR:CE2	4:AD:186:HIS:CD2	3.00	0.50
5:AE:144:ARG:O	5:AE:146:THR:N	2.45	0.50
6:AF:132:VAL:HG22	6:AF:135:LYS:CB	2.42	0.50
6:AF:34:TRP:O	6:AF:37:VAL:CB	2.59	0.50
6:AF:43:LYS:HE3	6:AF:98:SER:HB3	1.94	0.50
7:AG:18:GLU:OE1	7:AG:18:GLU:C	2.50	0.50
7:AG:39:ILE:CA	7:AG:157:ILE:HG13	2.42	0.50
1:AA:2311:A:H2	7:AG:45:GLU:CD	2.14	0.50
8:AH:131:VAL:HG12	8:AH:131:VAL:O	2.12	0.50
8:AH:58:GLU:HG2	8:AH:59:ARG:N	2.27	0.50
1:AA:1058:G:H1'	32:AJ:116:ASN:HB3	1.94	0.50
32:AJ:44:ALA:HB3	32:AJ:66:THR:HG22	1.91	0.50
32:AJ:79:ARG:HH22	32:AJ:84:LEU:HG	1.75	0.50
32:AJ:98:ARG:CZ	32:AJ:101:TRP:CD1	2.94	0.50
10:AL:76:ALA:CB	10:AL:78:ARG:HH22	2.24	0.50
11:AM:70:GLN:CB	11:AM:110:TYR:OH	2.60	0.50
11:AM:10:PRO:O	11:AM:11:GLY:O	2.29	0.50
11:AM:88:LEU:HD21	11:AM:124:LYS:NZ	2.26	0.50
11:AM:130:PHE:HE1	11:AM:145:PRO:HB3	1.77	0.50
11:AM:64:LYS:O	11:AM:64:LYS:CD	2.59	0.50
11:AM:6:LEU:C	11:AM:7:ARG:HG3	2.32	0.50
11:AM:73:GLY:N	11:AM:107:LYS:HE3	2.27	0.50
12:AN:49:ALA:O	12:AN:50:ALA:C	2.48	0.50
12:AN:61:GLY:O	21:AW:177:PRO:O	2.30	0.50
1:AA:2723:C:HO2'	13:AO:2:ARG:CA	2.25	0.50
13:AO:25:ALA:HB2	13:AO:48:VAL:HG22	1.93	0.50
13:AO:51:LEU:HD23	13:AO:70:LEU:HD11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:5:LYS:NZ	13:AO:5:LYS:C	2.65	0.50
13:AO:97:VAL:O	13:AO:98:LEU:CD2	2.60	0.50
1:AA:2875:C:OP1	15:AQ:3:ARG:NH1	2.44	0.50
1:AA:17:G:H4'	16:AR:25:TRP:CZ3	2.46	0.50
17:AS:6:LYS:CD	17:AS:10:LYS:HG2	2.27	0.50
17:AS:21:ARG:O	17:AS:93:GLU:OE1	2.29	0.50
18:AT:25:ARG:HD3	18:AT:74:ALA:CA	2.40	0.50
19:AU:42:ALA:O	19:AU:46:ALA:HB3	2.12	0.50
23:AY:19:LEU:CD1	23:AY:55:LEU:HG	2.42	0.50
24:AZ:8:LEU:C	24:AZ:8:LEU:HD13	2.32	0.50
34:BA:1102:A:C6	34:BA:1103:C:C4	2.99	0.50
34:BA:1224:G:O6	34:BA:1322:C:C1'	2.59	0.50
34:BA:1229:A:O2'	34:BA:1230:C:O4'	2.29	0.50
34:BA:1277:C:C2'	34:BA:1279:A:H8	2.24	0.50
34:BA:1377:A:C5'	34:BA:1378:C:C5	2.95	0.50
34:BA:236:G:C2'	34:BA:237:C:C6	2.95	0.50
34:BA:254:G:C6	34:BA:273:A:C6	3.00	0.50
34:BA:306:G:C8	34:BA:306:G:O5'	2.64	0.50
34:BA:315:A:N3	34:BA:315:A:H2'	2.27	0.50
34:BA:566:G:C4'	34:BA:567:G:OP1	2.57	0.50
34:BA:668:G:H1'	48:BS:46:HIS:NE2	2.27	0.50
34:BA:672:U:O2	34:BA:673:G:N7	2.45	0.50
34:BA:778:G:C4	34:BA:779:C:C6	3.00	0.50
34:BA:778:G:C5	34:BA:779:C:C5	2.99	0.50
34:BA:957:U:O2	34:BA:959:A:C8	2.64	0.50
34:BA:962:C:N3	34:BA:974:A:N1	2.59	0.50
56:BE:21:A:C3'	56:BE:22:G:C5'	2.87	0.50
35:BF:177:ALA:O	35:BF:179:LYS:N	2.45	0.50
35:BF:72:GLY:C	35:BF:74:LYS:N	2.63	0.50
35:BF:77:ALA:HA	35:BF:208:ILE:CD1	2.33	0.50
36:BG:157:ILE:HG13	36:BG:164:ARG:NE	2.26	0.50
36:BG:191:THR:HB	36:BG:193:TYR:CD2	2.47	0.50
41:BL:60:ARG:HG3	41:BL:61:VAL:N	2.26	0.50
42:BM:49:PRO:HB3	42:BM:101:PHE:CZ	2.46	0.50
45:BP:35:GLY:HA3	45:BP:60:LEU:HB3	1.93	0.50
48:BS:79:ARG:NH1	48:BS:79:ARG:CB	2.74	0.50
50:BU:45:HIS:ND1	50:BU:46:ASP:N	2.60	0.50
34:BA:720:C:H5''	51:BV:52:PRO:HB3	1.92	0.50
57:BZ:209:ILE:HG22	57:BZ:211:GLN:O	2.12	0.50
57:BZ:204:PRO:O	57:BZ:229:GLY:CA	2.58	0.50
57:BZ:239:ILE:HD13	57:BZ:288:VAL:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:81:PHE:HD2	57:BZ:342:ASN:OD1	1.95	0.50
57:BZ:509:LYS:CG	57:BZ:561:ILE:CG2	2.90	0.50
57:BZ:14:VAL:CA	57:BZ:78:HIS:HD2	2.09	0.50
55:BC:34:G:C2'	55:BC:35:A:C5'	2.86	0.50
1:AA:1582:C:C2	1:AA:1583:A:N7	2.80	0.50
1:AA:2110:G:C5	1:AA:2120:G:C8	3.00	0.50
1:AA:2111:C:C4	1:AA:2145:C:C4	3.00	0.50
8:AH:114:VAL:O	8:AH:114:VAL:HG13	2.12	0.50
1:AA:1147:C:H2'	1:AA:1148:A:H5'	1.92	0.50
1:AA:1258:C:H2'	1:AA:1259:G:C8	2.40	0.50
1:AA:1313:U:OP1	19:AU:63:LYS:HG2	2.11	0.50
1:AA:1356:G:N2	1:AA:1357:U:H1'	2.27	0.50
1:AA:1403:C:H5''	1:AA:1471:A:O4'	2.11	0.50
1:AA:1455:G:OP2	1:AA:1456:G:OP2	2.29	0.50
1:AA:1444(A):A:N7	1:AA:1460:A:H2'	2.27	0.50
1:AA:1494:A:C2'	1:AA:1494:A:N3	2.72	0.50
1:AA:120:U:C2'	1:AA:149:A:N3	2.75	0.50
1:AA:1544:C:H2'	1:AA:1545:A:O4'	2.12	0.50
1:AA:1655:A:H61	1:AA:2005:A:C1'	2.18	0.50
1:AA:1672:C:O2'	1:AA:1673:U:OP1	2.25	0.50
1:AA:1675:C:H2'	1:AA:1676:A:H5'	1.92	0.50
1:AA:1689:A:C2	1:AA:1690:A:N7	2.79	0.50
1:AA:1729:A:H3'	1:AA:1730:U:O4'	2.12	0.50
1:AA:1928:A:C8	1:AA:1929:G:C4	3.00	0.50
1:AA:2013:A:C2'	1:AA:2014:A:O5'	2.59	0.50
1:AA:2029:G:C4	1:AA:2031:A:OP1	2.65	0.50
1:AA:2043:C:O2	1:AA:2044:C:C6	2.65	0.50
1:AA:2080:G:C2'	1:AA:2081:C:O5'	2.60	0.50
1:AA:2157:G:O2'	1:AA:2158:A:OP1	2.27	0.50
1:AA:215:G:C4'	1:AA:216:A:O5'	2.40	0.50
1:AA:2247:A:H2'	1:AA:2248:C:C6	2.47	0.50
1:AA:858:U:C2'	1:AA:2268:A:C8	2.92	0.50
1:AA:2298:A:H2'	1:AA:2299:G:C8	2.47	0.50
1:AA:2336:A:O2'	1:AA:2385:C:O4'	2.29	0.50
1:AA:2426:A:H3'	1:AA:2427:C:H5'	1.93	0.50
1:AA:2427:C:H4'	1:AA:2428:G:C5'	2.42	0.50
1:AA:2441:C:H2'	1:AA:2442:C:C6	2.47	0.50
1:AA:2525:G:HO2'	1:AA:2741:A:H2	1.59	0.50
1:AA:244:A:N3	1:AA:255:A:C2	2.80	0.50
1:AA:2639:A:H2'	1:AA:2640:G:O5'	2.11	0.50
1:AA:2659:G:C5'	1:AA:2660:A:OP2	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2714:G:C2'	1:AA:2715:C:C5'	2.86	0.50
58:AA:3001:NMY:N2	58:AA:3001:NMY:C16	2.75	0.50
1:AA:354:G:H8	1:AA:354:G:OP2	1.93	0.50
1:AA:51:G:C5'	1:AA:52:A:OP1	2.54	0.50
1:AA:547:A:C6	1:AA:548:A:C6	2.99	0.50
1:AA:563:G:N2	1:AA:578:A:C2	2.69	0.50
1:AA:586:A:N6	1:AA:809:G:O2'	2.43	0.50
1:AA:588:U:O2'	1:AA:589:C:H5'	2.11	0.50
1:AA:602:G:H4'	1:AA:603:A:O3'	2.12	0.50
1:AA:660:G:H2'	1:AA:661:C:H6	1.76	0.50
1:AA:684:G:N2	1:AA:794:G:N2	2.60	0.50
1:AA:740:U:H2'	1:AA:741:G:H8	1.77	0.50
1:AA:909:A:C2	1:AA:912:C:C1'	2.95	0.50
1:AA:940:G:N3	1:AA:1191:G:H4'	2.26	0.50
1:AA:997:G:H2'	1:AA:998:C:C6	2.47	0.50
2:AB:38:C:H6	2:AB:38:C:O5'	1.94	0.50
3:AC:180:PHE:CD2	3:AC:184:LYS:HB2	2.29	0.50
3:AC:62:VAL:HG12	3:AC:192:PHE:HB2	1.93	0.50
3:AC:71:GLN:CG	3:AC:72:VAL:N	2.75	0.50
4:AD:16:MET:O	4:AD:17:THR:O	2.30	0.50
5:AE:115:GLY:O	5:AE:118:LYS:O	2.29	0.50
6:AF:196:LEU:O	6:AF:199:TRP:HB2	2.11	0.50
6:AF:194:MET:HE1	6:AF:197:ASP:HA	1.93	0.50
6:AF:5:ALA:O	6:AF:20:LEU:HD13	2.11	0.50
7:AG:55:LYS:CE	7:AG:151:ALA:HB1	2.37	0.50
7:AG:68:PRO:HB3	7:AG:72:ARG:HH12	1.76	0.50
8:AH:119:GLU:OE2	8:AH:119:GLU:HA	2.12	0.50
8:AH:157:TYR:C	8:AH:157:TYR:CD1	2.85	0.50
1:AA:1077:A:H2	32:AJ:133:SER:O	1.95	0.50
32:AJ:25:PRO:HG3	57:BZ:429:MET:CG	2.41	0.50
9:AK:15:LEU:HD21	9:AK:137:LYS:HB3	1.94	0.50
9:AK:25:ARG:CA	9:AK:28:THR:HG23	2.42	0.50
5:AE:19:ARG:HB3	10:AL:73:ASP:CG	2.31	0.50
11:AM:72:PRO:O	11:AM:111:ARG:CB	2.56	0.50
11:AM:84:ASN:O	11:AM:85:LEU:CG	2.60	0.50
12:AN:8:LYS:NZ	12:AN:11:LYS:HZ3	2.09	0.50
12:AN:85:LYS:HG3	12:AN:88:GLY:H	1.77	0.50
13:AO:32:GLY:C	13:AO:116:LEU:HD21	2.32	0.50
13:AO:28:LEU:HD21	13:AO:115:GLU:HA	1.94	0.50
1:AA:2723:C:C4'	13:AO:2:ARG:O	2.58	0.50
13:AO:53:HIS:CD2	13:AO:56:LYS:NZ	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:58:LEU:O	14:AP:65:VAL:CG1	2.60	0.50
15:AQ:64:ARG:HH11	15:AQ:64:ARG:N	2.08	0.50
15:AQ:68:TYR:CE1	15:AQ:70:VAL:HA	2.47	0.50
16:AR:93:LYS:HZ3	16:AR:93:LYS:CA	2.21	0.50
17:AS:23:GLU:HA	17:AS:93:GLU:CB	2.42	0.50
19:AU:73:ARG:NH2	19:AU:74:PRO:C	2.65	0.50
21:AW:47:VAL:O	21:AW:48:PHE:C	2.50	0.50
21:AW:80:ARG:C	21:AW:81:ARG:HG3	2.32	0.50
23:AY:19:LEU:HD22	23:AY:19:LEU:O	2.11	0.50
24:AZ:12:PRO:O	24:AZ:13:ILE:O	2.30	0.50
34:BA:1128:C:C4	34:BA:1139:G:O6	2.64	0.50
34:BA:1167:A:H2	34:BA:1169:A:N3	2.09	0.50
34:BA:946:A:N6	34:BA:1236:A:C6	2.80	0.50
34:BA:134:A:N6	34:BA:135:C:N4	2.59	0.50
34:BA:1425:U:C2	34:BA:1426:C:C5	2.98	0.50
34:BA:1480:G:C2'	34:BA:1481:U:O5'	2.60	0.50
34:BA:138:G:N2	34:BA:226:G:C1'	2.74	0.50
34:BA:355:C:H2'	34:BA:356:A:H8	1.76	0.50
34:BA:411:A:C5	34:BA:429:U:C4	2.99	0.50
34:BA:423:G:N2	34:BA:424:G:C5	2.80	0.50
34:BA:484:G:C8	34:BA:486:U:C4	3.00	0.50
34:BA:527:G:H2'	34:BA:528:C:C6	2.46	0.50
34:BA:698:G:C6	34:BA:699:C:C4	3.00	0.50
34:BA:836:G:C2	34:BA:837:G:C8	2.99	0.50
34:BA:901:A:N3	34:BA:902:G:H1'	2.22	0.50
56:BE:40:C:H2'	56:BE:41:C:H6	1.76	0.50
56:BE:6:G:C2'	56:BE:6:G:N3	2.73	0.50
35:BF:101:MET:HB3	35:BF:105:PHE:CE1	2.46	0.50
35:BF:123:ALA:O	35:BF:124:SER:O	2.28	0.50
35:BF:167:PRO:CG	35:BF:168:THR:H	2.21	0.50
35:BF:35:GLU:OE2	35:BF:39:ILE:N	2.44	0.50
34:BA:543:C:P	37:BH:10:ARG:NH2	2.83	0.50
37:BH:13:ARG:HA	37:BH:32:ALA:CB	2.41	0.50
37:BH:15:GLU:HB2	37:BH:19:LEU:HD11	1.92	0.50
37:BH:173:TRP:HD1	37:BH:185:PHE:CE2	2.30	0.50
37:BH:143:GLY:CA	37:BH:185:PHE:HB3	2.33	0.50
37:BH:64:LEU:C	37:BH:64:LEU:HD13	2.32	0.50
38:BI:44:GLY:O	38:BI:58:ALA:HB1	2.12	0.50
40:BK:49:ILE:HG12	40:BK:121:ALA:HB2	1.94	0.50
41:BL:10:LEU:C	41:BL:13:ILE:HB	2.29	0.50
41:BL:40:ALA:CB	41:BL:45:ILE:HG23	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:19:LEU:HD22	42:BM:59:PHE:CD2	2.40	0.50
44:BO:57:THR:HG21	44:BO:59:TYR:HB3	1.93	0.50
44:BO:63:LEU:HA	44:BO:66:LEU:CD1	2.41	0.50
44:BO:66:LEU:CB	44:BO:70:LYS:HZ2	2.25	0.50
44:BO:85:ARG:NE	44:BO:111:ASP:OD2	2.45	0.50
34:BA:34:C:O4'	45:BP:32:PHE:CE2	2.64	0.50
45:BP:85:ILE:CG1	45:BP:99:HIS:O	2.60	0.50
46:BQ:10:PRO:HB2	46:BQ:45:VAL:CG2	2.42	0.50
47:BR:26:ARG:HB3	47:BR:43:CYS:HB3	1.94	0.50
48:BS:15:PHE:CD2	48:BS:15:PHE:N	2.79	0.50
48:BS:15:PHE:O	48:BS:16:ALA:C	2.49	0.50
48:BS:75:PRO:O	48:BS:79:ARG:N	2.31	0.50
48:BS:79:ARG:HA	48:BS:82:ILE:CD1	2.42	0.50
49:BT:52:ASP:OD2	49:BT:55:ARG:N	2.45	0.50
49:BT:8:ARG:O	49:BT:9:PHE:HD2	1.95	0.50
50:BU:2:PRO:O	50:BU:4:LYS:N	2.45	0.50
51:BV:71:LYS:O	51:BV:72:ARG:C	2.50	0.50
52:BW:19:VAL:CG1	52:BW:20:LEU:N	2.75	0.50
52:BW:40:ILE:HB	52:BW:68:GLY:HA2	1.93	0.50
53:BX:53:LEU:HB2	53:BX:100:ILE:HG13	1.94	0.50
53:BX:13:LEU:CD1	53:BX:13:LEU:H	1.99	0.50
57:BZ:206:GLN:CB	57:BZ:228:ARG:HB2	2.41	0.50
57:BZ:251:VAL:O	57:BZ:261:GLU:CA	2.50	0.50
57:BZ:446:ARG:O	57:BZ:480:VAL:CG1	2.59	0.50
1:AA:2660:A:C5	57:BZ:457:THR:CA	2.92	0.50
57:BZ:502:PHE:CZ	57:BZ:556:VAL:CA	2.94	0.50
55:BC:38:A:H2'	55:BC:39:U:H4'	1.93	0.50
34:BA:511:C:O2'	34:BA:512:U:P	2.69	0.50
1:AA:363(A):A:C2'	1:AA:363(B):G:O5'	2.60	0.50
1:AA:1024:G:OP2	1:AA:1026:U:OP1	2.30	0.50
1:AA:1026:U:C2'	1:AA:1026:U:O2	2.40	0.50
1:AA:1120:G:H2'	1:AA:1121:C:C6	2.47	0.50
1:AA:51:G:C1'	1:AA:118:A:N6	2.69	0.50
1:AA:1239:G:H2'	1:AA:1240:U:C4'	2.42	0.50
1:AA:1257:C:N4	1:AA:1258:C:N4	2.59	0.50
1:AA:1312:U:C6	1:AA:1313:U:C5	3.00	0.50
1:AA:1364:G:C5	1:AA:1366:A:OP1	2.65	0.50
1:AA:1427:A:O2'	1:AA:1428:C:P	2.70	0.50
1:AA:1439:A:H2'	1:AA:1440:G:O4'	2.12	0.50
1:AA:1543:A:H3'	1:AA:1544:C:C5'	2.41	0.50
1:AA:1845:G:C6	1:AA:1896:G:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1910:G:N2	1:AA:1911:U:H3	2.09	0.50
1:AA:2014:A:O2'	1:AA:2015:A:N3	2.37	0.50
1:AA:2059:A:O3'	6:AF:69:HIS:O	2.30	0.50
1:AA:2078:C:O2'	1:AA:2433:A:O2'	2.16	0.50
1:AA:2146:C:N3	1:AA:2147:G:C1'	2.75	0.50
1:AA:2331:G:C2'	1:AA:2332:U:O4'	2.59	0.50
1:AA:2471:C:H2'	1:AA:2472:G:O5'	2.12	0.50
1:AA:2668:G:N1	1:AA:2669:G:C6	2.80	0.50
1:AA:2736:G:C2	1:AA:2769:C:C2	3.00	0.50
1:AA:2858:C:H3'	1:AA:2859:G:C8	2.47	0.50
1:AA:2629:A:N7	1:AA:2896:C:H6	2.07	0.50
1:AA:297:C:C4	1:AA:298:G:C2	3.00	0.50
1:AA:493:G:N2	1:AA:494:G:C1'	2.75	0.50
1:AA:592:G:N3	1:AA:592:G:H2'	2.27	0.50
1:AA:593:G:C5	1:AA:594:U:C5	3.00	0.50
1:AA:656:G:C2'	1:AA:657:U:O5'	2.60	0.50
1:AA:704:G:C2	1:AA:725:G:N2	2.80	0.50
1:AA:71:A:C2	1:AA:73:A:N1	2.80	0.50
1:AA:764:A:OP1	4:AD:211:ARG:CB	2.60	0.50
1:AA:774:A:C5'	1:AA:778:G:C4'	2.90	0.50
1:AA:859:G:H3'	1:AA:859:G:H8	1.77	0.50
1:AA:863:A:C2	1:AA:864:G:C5	3.00	0.50
1:AA:964:C:C2'	1:AA:965:C:O5'	2.60	0.50
1:AA:974:G:P	1:AA:974(A):C:OP2	2.69	0.50
1:AA:978:G:C2	1:AA:979:G:C2	3.00	0.50
1:AA:981:A:H1'	1:AA:2037:G:O4'	2.11	0.50
2:AB:8:U:C2	2:AB:9:G:H8	2.29	0.50
1:AA:2178:C:H5''	3:AC:46:LYS:HG2	0.50	0.50
3:AC:94:VAL:C	3:AC:99:ILE:HD12	2.32	0.50
4:AD:155:LEU:CD2	4:AD:155:LEU:O	2.54	0.50
4:AD:91:ARG:NH2	4:AD:198:ASN:CG	2.66	0.50
4:AD:268:ARG:C	4:AD:269:PHE:CD1	2.85	0.50
4:AD:27:THR:CG2	4:AD:82:ILE:CG2	2.89	0.50
1:AA:2618:G:C2	5:AE:150:VAL:HG11	2.45	0.50
5:AE:169:ASN:HD22	5:AE:170:LEU:N	2.04	0.50
5:AE:7:VAL:HG13	5:AE:194:GLY:C	2.31	0.50
1:AA:2787:C:H5''	5:AE:64:LYS:HD2	1.92	0.50
1:AA:2306:C:O2'	7:AG:153:ARG:NH1	2.45	0.50
7:AG:43:LEU:CD1	7:AG:88:ILE:HG22	2.41	0.50
8:AH:136:ILE:CG2	8:AH:137:ASP:H	2.19	0.50
8:AH:54:ARG:NH1	8:AH:57:ASP:HA	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:63:SER:O	8:AH:67:LEU:HD23	2.12	0.50
8:AH:69:ARG:HG3	8:AH:70:THR:HG23	1.93	0.50
32:AJ:21:PRO:CD	32:AJ:22:PRO:CD	2.86	0.50
10:AL:106:LEU:O	10:AL:109:LYS:N	2.44	0.50
10:AL:36:GLY:H	10:AL:61:VAL:HG12	1.76	0.50
10:AL:97:ARG:CZ	10:AL:97:ARG:C	2.79	0.50
11:AM:107:LYS:O	11:AM:108:LYS:C	2.51	0.50
11:AM:122:PRO:CG	11:AM:138:LEU:N	2.74	0.50
12:AN:122:GLY:HA2	12:AN:125:LEU:HD12	1.94	0.50
12:AN:134:ARG:HH21	12:AN:137:TYR:CB	2.25	0.50
12:AN:16:ARG:NH1	12:AN:72:LYS:HG2	2.27	0.50
14:AP:103:GLU:HA	14:AP:106:ARG:HB2	1.94	0.50
1:AA:2296:U:O4	14:AP:5:THR:HG23	2.12	0.50
14:AP:57:LYS:NZ	14:AP:65:VAL:N	2.60	0.50
14:AP:92:TYR:O	14:AP:98:VAL:HG21	2.11	0.50
15:AQ:80:SER:O	15:AQ:81:PRO:C	2.47	0.50
16:AR:37:GLU:O	16:AR:40:PHE:N	2.45	0.50
16:AR:46:ALA:CA	16:AR:49:HIS:ND1	2.75	0.50
16:AR:81:HIS:CB	16:AR:117:GLN:HE22	2.25	0.50
21:AW:111:VAL:HG22	21:AW:117:LEU:HA	1.93	0.50
21:AW:91:LEU:CD1	21:AW:95:PRO:HG3	2.41	0.50
1:AA:855:G:H21	22:AX:27:GLU:HB2	1.71	0.50
22:AX:56:ASP:C	22:AX:57:PHE:CD1	2.85	0.50
23:AY:51:GLN:O	23:AY:54:ARG:HG3	2.12	0.50
1:AA:851:U:C5'	24:AZ:49:LYS:HD2	2.37	0.50
34:BA:108:G:C2	34:BA:109:A:N1	2.80	0.50
34:BA:108:G:O6	53:BX:15:ARG:HD2	2.12	0.50
34:BA:110:C:C6	34:BA:110:C:O5'	2.65	0.50
34:BA:1134:G:N2	34:BA:1136:U:O4	2.42	0.50
34:BA:116:A:O5'	34:BA:116:A:C8	2.64	0.50
34:BA:1301:U:C4	34:BA:1303:C:C6	3.00	0.50
34:BA:1306:A:H3'	34:BA:1307:U:C6	2.47	0.50
34:BA:1316:G:C4'	34:BA:1360:A:C4	2.93	0.50
34:BA:1251:A:C4'	34:BA:1370:G:H4'	2.41	0.50
34:BA:1379:G:C5	34:BA:1380:U:C5	3.00	0.50
34:BA:299:G:H2'	34:BA:300:A:C5	2.46	0.50
34:BA:393:A:C6	34:BA:394:G:N7	2.80	0.50
34:BA:465:A:N6	49:BT:82:GLN:HE22	2.10	0.50
34:BA:468:A:C5	34:BA:474:G:C5	3.00	0.50
34:BA:571:U:OP1	34:BA:819:A:C8	2.65	0.50
34:BA:692:U:N3	34:BA:695:A:OP2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:809:G:H2'	34:BA:810:C:C5'	2.40	0.50
56:BE:4:C:N4	56:BE:70:G:H1'	2.27	0.50
36:BG:84:ILE:CD1	36:BG:101:LEU:HD22	2.42	0.50
37:BH:104:VAL:HG23	37:BH:105:VAL:N	2.27	0.50
37:BH:105:VAL:HG13	37:BH:120:LEU:HD21	1.94	0.50
37:BH:108:LEU:HD12	37:BH:183:GLY:HA3	1.93	0.50
34:BA:408:A:C5'	37:BH:116:GLN:HE21	2.25	0.50
34:BA:404:U:H5'	37:BH:122:ARG:HD3	1.94	0.50
37:BH:152:SER:OG	37:BH:158:ILE:HD12	2.12	0.50
34:BA:430:A:H4'	37:BH:7:PRO:HA	1.94	0.50
38:BI:78:HIS:N	38:BI:78:HIS:CD2	2.72	0.50
39:BJ:52:ILE:CG2	39:BJ:53:ALA:H	2.24	0.50
39:BJ:75:LEU:O	39:BJ:76:ALA:C	2.50	0.50
40:BK:135:VAL:O	40:BK:139:GLU:OE2	2.29	0.50
40:BK:18:TYR:O	40:BK:19:GLY:C	2.49	0.50
40:BK:42:ILE:O	40:BK:43:PHE:C	2.48	0.50
40:BK:6:ARG:HA	40:BK:6:ARG:HH11	1.77	0.50
40:BK:75:VAL:HG22	40:BK:88:PRO:CB	2.42	0.50
41:BL:33:GLU:OE2	41:BL:50:ARG:HD2	2.12	0.50
42:BM:5:TYR:CD2	42:BM:6:GLY:N	2.80	0.50
44:BO:67:ASP:O	44:BO:68:ALA:C	2.50	0.50
44:BO:20:TYR:CD2	44:BO:83:ILE:HG21	2.47	0.50
45:BP:39:VAL:HG11	45:BP:41:ARG:NH2	2.26	0.50
45:BP:62:SER:C	45:BP:64:TYR:N	2.62	0.50
47:BR:34:TYR:CE1	47:BR:39:LEU:O	2.65	0.50
47:BR:36:PHE:O	47:BR:36:PHE:CD1	2.64	0.50
48:BS:29:VAL:O	48:BS:30:ALA:C	2.50	0.50
48:BS:46:HIS:O	48:BS:47:LYS:HB2	2.11	0.50
49:BT:7:ALA:O	49:BT:17:TYR:HA	2.11	0.50
50:BU:12:SER:OG	50:BU:14:LYS:HD2	2.11	0.50
51:BV:50:ILE:O	51:BV:52:PRO:HD3	2.12	0.50
34:BA:1219:U:O3'	52:BW:34:TRP:CD2	2.38	0.50
52:BW:4:SER:HA	52:BW:5:LEU:CB	2.36	0.50
53:BX:29:LYS:O	53:BX:32:ALA:CB	2.56	0.50
57:BZ:13:HIS:CD2	57:BZ:109:THR:H	2.30	0.50
57:BZ:97:LEU:O	57:BZ:126:VAL:N	2.45	0.50
57:BZ:305:PRO:HG2	57:BZ:306:THR:H	1.77	0.50
1:AA:2102:U:C4	1:AA:2103:C:N4	2.80	0.50
34:BA:1009:G:N2	34:BA:1010:G:H1'	2.27	0.50
34:BA:1533:C:C2'	34:BA:1534:A:O5'	2.60	0.50
34:BA:929:G:C6	34:BA:930:C:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1013:C:H2'	1:AA:1014:U:H6	1.76	0.49
1:AA:1061:U:C2	32:AJ:11:GLN:NE2	2.80	0.49
1:AA:1066:U:O2'	1:AA:1068:G:H3'	2.11	0.49
1:AA:10:G:C2	1:AA:2629:A:N3	2.80	0.49
1:AA:109:G:C6	1:AA:110:G:C8	3.00	0.49
1:AA:119:A:C4'	1:AA:120:U:H5'	2.42	0.49
1:AA:1299:G:O4'	1:AA:1301:A:C2	2.65	0.49
1:AA:1305:C:H2'	1:AA:1306:C:C6	2.46	0.49
1:AA:149:A:N7	1:AA:150:C:N1	2.60	0.49
1:AA:1658:C:OP1	5:AE:134:ILE:CD1	2.57	0.49
1:AA:1663:C:O2'	1:AA:1664:A:O4'	2.24	0.49
1:AA:1780:A:H3'	1:AA:1781:C:C5'	2.25	0.49
1:AA:1781:C:H2'	1:AA:1782:C:OP2	2.12	0.49
1:AA:1789:A:H3'	1:AA:1790:C:C4'	2.41	0.49
1:AA:1807:G:H21	1:AA:1809:A:C4'	2.24	0.49
1:AA:184:C:O2	1:AA:185:U:C5	2.65	0.49
1:AA:1854:A:H1'	1:AA:2087:G:H21	1.77	0.49
1:AA:1899:G:C8	1:AA:1899:G:C3'	2.95	0.49
1:AA:1939:U:O4	1:AA:1967:C:H1'	2.11	0.49
1:AA:2047:U:C2'	1:AA:2048:G:O5'	2.60	0.49
1:AA:2153:G:H8	1:AA:2153:G:O5'	1.94	0.49
1:AA:2251:G:N7	59:AA:3003:8AN:C2	2.39	0.49
1:AA:2296:U:C6	1:AA:2296:U:O5'	2.65	0.49
1:AA:220:G:O2'	1:AA:233:A:C2	2.65	0.49
1:AA:2426:A:C3'	1:AA:2427:C:H5'	2.42	0.49
1:AA:2509:G:C2	1:AA:2510:C:H1'	2.47	0.49
1:AA:2589:A:C2'	1:AA:2590:A:H5'	2.41	0.49
1:AA:2597:G:O2'	1:AA:2598:A:O5'	2.30	0.49
1:AA:270(H):C:O2'	1:AA:270(I):G:H5'	2.12	0.49
1:AA:2854:G:H2'	1:AA:2855:C:C6	2.47	0.49
1:AA:2899:G:C5	1:AA:2900:A:N7	2.80	0.49
1:AA:296:C:C2'	1:AA:297:C:O4'	2.60	0.49
1:AA:379:G:C2	1:AA:396:G:C4	3.00	0.49
1:AA:410:G:C2	1:AA:2407:G:N7	2.80	0.49
1:AA:410:G:H3'	1:AA:411:G:C8	2.47	0.49
1:AA:452:G:C2	1:AA:458:G:N2	2.79	0.49
1:AA:472:A:C2'	1:AA:473:G:C5'	2.75	0.49
1:AA:558:G:C2'	1:AA:559:G:C5'	2.90	0.49
1:AA:632:A:C2	1:AA:633:A:C4	3.00	0.49
1:AA:730:C:C2'	1:AA:731:C:H5'	2.42	0.49
1:AA:758:C:H2'	1:AA:759:G:H8	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:880:G:H2'	1:AA:881:G:C4'	2.39	0.49
1:AA:978:G:H2'	1:AA:979:G:C8	2.47	0.49
2:AB:71:C:C2	2:AB:72:G:O4'	2.65	0.49
2:AB:77:U:C3'	2:AB:77:U:C6	2.95	0.49
3:AC:134:ARG:HB2	3:AC:136:LEU:HG	1.93	0.49
3:AC:177:LYS:HB2	3:AC:180:PHE:CG	2.47	0.49
3:AC:42:GLU:CB	3:AC:215:THR:N	2.75	0.49
3:AC:38:ASP:O	3:AC:39:GLU:O	2.29	0.49
3:AC:78:ALA:HA	3:AC:119:VAL:CG2	2.42	0.49
4:AD:224:ALA:HB2	4:AD:233:HIS:CG	2.47	0.49
5:AE:176:ILE:HD11	5:AE:179:GLU:HG2	1.93	0.49
5:AE:200:GLU:CA	5:AE:202:LYS:HZ3	2.24	0.49
6:AF:145:GLU:C	6:AF:147:GLY:H	2.16	0.49
6:AF:168:ARG:HD3	6:AF:169:ASN:H	1.76	0.49
6:AF:169:ASN:HD21	6:AF:171:PRO:HG2	1.76	0.49
6:AF:110:LEU:HG	6:AF:183:VAL:H	1.77	0.49
8:AH:102:ALA:HA	8:AH:115:VAL:HG12	1.94	0.49
8:AH:121:ILE:HD11	8:AH:123:PHE:HE1	1.73	0.49
32:AJ:107:ILE:O	32:AJ:107:ILE:HG22	2.12	0.49
32:AJ:108:ALA:CA	32:AJ:109:LYS:CB	2.86	0.49
32:AJ:23:VAL:N	32:AJ:24:GLY:CA	2.75	0.49
32:AJ:10:LEU:HG	32:AJ:56:GLU:HG2	1.94	0.49
9:AK:18:ALA:HB2	9:AK:54:VAL:HG21	1.93	0.49
10:AL:18:LYS:NZ	10:AL:44:LYS:HZ3	2.10	0.49
10:AL:68:GLU:HA	10:AL:104:ARG:HH12	1.73	0.49
11:AM:97:PRO:CD	11:AM:102:ARG:CZ	2.90	0.49
12:AN:45:GLN:C	12:AN:48:GLU:HG2	2.32	0.49
12:AN:51:ARG:HE	12:AN:55:VAL:HG21	1.77	0.49
12:AN:59:ARG:O	12:AN:60:ARG:HD2	2.12	0.49
12:AN:85:LYS:HZ2	22:AX:10:THR:CB	2.25	0.49
13:AO:93:GLY:O	13:AO:95:THR:N	2.45	0.49
14:AP:32:LEU:O	14:AP:34:HIS:N	2.45	0.49
15:AQ:29:ARG:CA	15:AQ:51:ARG:HA	2.40	0.49
15:AQ:82:LEU:HD13	15:AQ:84:GLN:CB	2.41	0.49
16:AR:113:ALA:HA	16:AR:116:ALA:CB	2.42	0.49
16:AR:5:LYS:C	16:AR:7:GLY:N	2.65	0.49
19:AU:3:THR:O	19:AU:4:ALA:HB3	2.11	0.49
20:AV:14:LEU:HD22	20:AV:19:LYS:CB	2.39	0.49
20:AV:17:SER:OG	20:AV:19:LYS:HE3	2.11	0.49
20:AV:67:LEU:CD1	20:AV:71:LYS:NZ	2.75	0.49
20:AV:75:ILE:HD12	20:AV:75:ILE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:127:LYS:CA	21:AW:164:ALA:HB3	2.41	0.49
21:AW:151:HIS:CG	21:AW:170:THR:H	2.28	0.49
24:AZ:22:ALA:HB1	24:AZ:46:ASN:CG	2.32	0.49
34:BA:1034:G:HO2'	34:BA:1035:A:H8	1.59	0.49
34:BA:1067:A:C2	34:BA:1068:G:H1'	2.47	0.49
34:BA:1217:C:H2'	34:BA:1218:C:C6	2.47	0.49
34:BA:1279:A:O2'	34:BA:1282:C:N4	2.44	0.49
34:BA:1298:C:C2	40:BK:114:ARG:NH1	2.80	0.49
34:BA:1321:C:C6	34:BA:1321:C:C3'	2.94	0.49
34:BA:1312:G:O6	34:BA:1326:C:C5	2.59	0.49
34:BA:1326:C:H2'	34:BA:1327:C:C6	2.45	0.49
34:BA:132:C:C2	34:BA:133:U:C5	3.00	0.49
34:BA:134:A:N1	34:BA:135:C:C4	2.80	0.49
34:BA:1251:A:H2	34:BA:1354:C:H1'	1.76	0.49
34:BA:136:C:H2'	34:BA:137:C:C6	2.46	0.49
34:BA:1465:C:C2'	34:BA:1466:C:C5'	2.86	0.49
34:BA:1494:G:N7	58:BA:1601:NMY:H82	2.27	0.49
34:BA:410:G:N2	34:BA:429:U:N3	2.60	0.49
34:BA:429:U:O2	34:BA:430:A:C8	2.65	0.49
34:BA:446:G:O2'	34:BA:447:G:H5'	2.11	0.49
34:BA:494:U:H2'	34:BA:495:A:C5'	2.42	0.49
34:BA:520:A:OP2	45:BP:51:ALA:CB	2.60	0.49
34:BA:577:G:N2	34:BA:578:C:C2	2.79	0.49
34:BA:671:G:H2'	34:BA:672:U:H1'	1.93	0.49
34:BA:676:A:C4	34:BA:677:U:C5	2.99	0.49
34:BA:833:U:C2	34:BA:834:C:H5	2.30	0.49
34:BA:888:G:N1	34:BA:889:A:N6	2.60	0.49
34:BA:936:C:H2'	34:BA:937:A:C5'	2.42	0.49
34:BA:939:G:N2	34:BA:940:C:N3	2.59	0.49
34:BA:999:U:C4	34:BA:1042:G:N1	2.80	0.49
35:BF:114:ARG:O	35:BF:118:LEU:HB2	2.11	0.49
35:BF:142:LEU:C	35:BF:142:LEU:HD23	2.31	0.49
35:BF:153:ARG:NH2	35:BF:154:LEU:O	2.45	0.49
35:BF:163:PHE:CZ	35:BF:186:ALA:C	2.86	0.49
35:BF:25:ASN:HB3	35:BF:191:ASP:CA	2.40	0.49
35:BF:48:MET:O	35:BF:49:GLU:C	2.50	0.49
35:BF:60:ASP:O	35:BF:64:ARG:HD2	2.12	0.49
36:BG:132:ARG:C	36:BG:136:GLN:HE21	2.15	0.49
37:BH:187:ARG:HH21	37:BH:188:LEU:HD11	1.77	0.49
38:BI:37:ARG:NH1	38:BI:111:GLU:C	2.65	0.49
39:BJ:28:ARG:HD3	39:BJ:28:ARG:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BJ:36:ARG:NH1	39:BJ:36:ARG:CB	2.74	0.49
39:BJ:37:VAL:HA	39:BJ:65:VAL:CB	2.41	0.49
39:BJ:11:ASN:ND2	39:BJ:86:ARG:HH22	2.06	0.49
41:BL:122:ARG:H	41:BL:122:ARG:HD3	1.77	0.49
44:BO:102:GLY:O	44:BO:104:GLN:N	2.45	0.49
44:BO:122:LYS:O	44:BO:123:LYS:C	2.49	0.49
44:BO:18:ARG:CD	44:BO:34:ASP:O	2.59	0.49
46:BQ:19:LEU:HD13	46:BQ:30:ALA:N	2.10	0.49
50:BU:10:VAL:CG1	50:BU:54:GLY:N	2.74	0.49
50:BU:22:LEU:HD13	50:BU:41:LYS:CA	2.42	0.49
51:BV:41:LYS:HA	51:BV:44:LEU:HD23	1.93	0.49
34:BA:736:C:C5'	51:BV:72:ARG:HH22	2.03	0.49
53:BX:88:VAL:O	53:BX:92:LEU:HD12	2.11	0.49
57:BZ:119:TYR:CD2	57:BZ:121:LEU:CG	2.90	0.49
57:BZ:130:VAL:HG11	57:BZ:164:TYR:HB3	1.92	0.49
57:BZ:133:PRO:HG2	57:BZ:134:GLY:H	1.77	0.49
57:BZ:510:LEU:O	57:BZ:561:ILE:HG21	2.12	0.49
1:AA:888:C:O2'	1:AA:888:C:O2	2.26	0.49
1:AA:1483:G:N9	1:AA:1507:A:C2	2.80	0.49
8:AH:20:ALA:HB1	8:AH:21:PRO:CD	2.42	0.49
1:AA:1231:G:C4	1:AA:1232:G:C8	3.00	0.49
1:AA:1007:C:H4'	9:AK:108:PRO:CD	2.41	0.49
1:AA:1019:U:H5'	1:AA:1035:U:O2'	2.12	0.49
1:AA:1013:C:OP2	1:AA:1142:U:O2	2.30	0.49
1:AA:1176:G:C8	1:AA:1177:A:O4'	2.65	0.49
1:AA:1287:A:H3'	1:AA:1288:U:C6	2.46	0.49
1:AA:1331:A:O2'	1:AA:1332:G:C8	2.65	0.49
1:AA:1420:U:O2'	1:AA:1421:G:C5'	2.60	0.49
1:AA:1453:A:C2	1:AA:1454:U:H1'	2.47	0.49
1:AA:1455:G:O2'	1:AA:1456:G:H5'	2.12	0.49
1:AA:1558:A:C2	1:AA:1560:G:N9	2.79	0.49
1:AA:1568:G:P	4:AD:61:LEU:HG	2.51	0.49
1:AA:1615:C:C5	1:AA:1617:C:C2	3.00	0.49
1:AA:1685:C:H2'	1:AA:1686:C:O5'	2.11	0.49
1:AA:1754:C:C2	1:AA:1755:A:C8	3.00	0.49
1:AA:1919:A:H8	1:AA:1919:A:O5'	1.95	0.49
1:AA:1964:G:C2	1:AA:1967:C:H5	2.26	0.49
1:AA:1999:C:H4'	1:AA:2723:C:O2	2.12	0.49
1:AA:2051:A:C2'	5:AE:141:ILE:HD11	2.43	0.49
1:AA:2243:U:C2	1:AA:2244:U:C5	3.00	0.49
1:AA:2306:C:H5	1:AA:2311:A:C6	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:231:C:N4	1:AA:232:G:H22	2.09	0.49
1:AA:2466:C:P	6:AF:5:ALA:HB3	121.28	0.49
1:AA:2587:A:C3'	1:AA:2588:G:H5'	2.42	0.49
1:AA:2627:G:C2'	1:AA:2628:C:C5'	2.87	0.49
1:AA:2667:C:H2'	1:AA:2668:G:C4'	2.42	0.49
1:AA:2850:A:C5	1:AA:2851:A:N7	2.80	0.49
1:AA:2835:A:N6	1:AA:2879:C:OP2	2.45	0.49
1:AA:289:A:C5	1:AA:351:G:O6	2.65	0.49
1:AA:311:A:C1'	1:AA:332:A:C5	2.94	0.49
1:AA:377:C:H2'	1:AA:378:C:C6	2.47	0.49
1:AA:503:A:C5	1:AA:505:A:N7	2.81	0.49
1:AA:503:A:H2	1:AA:506:G:C2	2.30	0.49
1:AA:531:C:H6	1:AA:532:A:C2	2.28	0.49
1:AA:699:A:H1'	1:AA:1634:A:C8	2.47	0.49
1:AA:724:U:C2	1:AA:725:G:C8	3.00	0.49
1:AA:705:A:N6	1:AA:727:A:H1'	2.27	0.49
1:AA:82:G:H21	1:AA:83:G:N2	2.09	0.49
1:AA:858:U:H4'	1:AA:859:G:OP1	2.12	0.49
1:AA:903:C:O5'	1:AA:903:C:H6	1.95	0.49
1:AA:931:G:C2	24:AZ:24:LYS:HB3	2.46	0.49
1:AA:989:G:O2'	1:AA:990:A:P	2.70	0.49
2:AB:53:A:C6	2:AB:54:G:C5	3.00	0.49
2:AB:75:G:O6	2:AB:76:G:N2	2.46	0.49
2:AB:79:C:H2'	2:AB:80:U:O4'	2.12	0.49
2:AB:80:U:C2'	2:AB:81:G:C8	2.93	0.49
3:AC:10:LEU:HD12	3:AC:32:LEU:HD23	1.93	0.49
3:AC:8:ARG:O	3:AC:12:GLU:HG2	2.12	0.49
3:AC:161:ILE:HB	3:AC:174:PRO:HD2	1.93	0.49
4:AD:123:ALA:HB3	4:AD:131:LEU:HD22	1.94	0.49
4:AD:141:VAL:HG12	4:AD:194:GLY:O	2.12	0.49
1:AA:729:G:OP1	4:AD:19:ALA:CB	2.61	0.49
4:AD:7:LYS:HG3	4:AD:26:LYS:C	2.32	0.49
5:AE:127:ASP:O	5:AE:128:SER:HB3	2.11	0.49
5:AE:8:LYS:HD2	5:AE:9:VAL:HG22	1.91	0.49
7:AG:115:ARG:O	7:AG:117:PHE:N	2.45	0.49
8:AH:17:VAL:HG21	8:AH:45:VAL:CG1	2.31	0.49
32:AJ:103:GLN:CA	32:AJ:106:GLU:HG3	2.41	0.49
32:AJ:77:LEU:HD21	32:AJ:111:LYS:HE3	1.94	0.49
9:AK:122:VAL:O	9:AK:123:TYR:CD1	2.65	0.49
9:AK:74:ARG:NE	9:AK:82:LEU:CD1	2.76	0.49
9:AK:87:LEU:HD23	9:AK:88:GLU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:91:LEU:HA	9:AK:95:PRO:CA	2.43	0.49
10:AL:37:ASP:HB2	10:AL:61:VAL:HG21	1.94	0.49
10:AL:71:ARG:N	10:AL:72:PRO:HD2	2.27	0.49
14:AP:6:ALA:CA	14:AP:9:ARG:HH12	2.23	0.49
15:AQ:28:VAL:HG22	15:AQ:92:GLY:C	2.32	0.49
16:AR:65:ILE:HG23	16:AR:96:ALA:HA	1.94	0.49
17:AS:17:GLY:C	17:AS:19:LYS:H	2.15	0.49
19:AU:15:GLU:O	19:AU:18:TYR:N	2.26	0.49
20:AV:70:SER:O	20:AV:71:LYS:O	2.30	0.49
21:AW:105:VAL:HG12	21:AW:107:THR:HG23	1.94	0.49
21:AW:145:GLU:O	21:AW:147:GLY:N	2.45	0.49
21:AW:152:ALA:HA	21:AW:155:LEU:CD2	2.42	0.49
21:AW:152:ALA:HA	21:AW:155:LEU:HD22	1.93	0.49
23:AY:26:GLU:O	23:AY:29:GLU:CB	2.60	0.49
23:AY:27:LEU:O	23:AY:30:LEU:HG	2.11	0.49
23:AY:20:VAL:CG2	23:AY:52:ILE:HG23	2.30	0.49
1:AA:72:U:H1'	23:AY:53:ALA:HA	1.95	0.49
34:BA:1037:C:C4	34:BA:1038:C:C4	3.00	0.49
34:BA:1095:U:P	34:BA:1108:G:N2	2.86	0.49
34:BA:1112:C:C1'	36:BG:179:ARG:NH1	2.75	0.49
34:BA:1129:C:C4	34:BA:1139:G:C6	3.00	0.49
34:BA:1134:G:H2'	34:BA:1135:U:H5'	1.94	0.49
34:BA:1234:C:H4'	34:BA:1364:U:C1'	2.38	0.49
34:BA:122:G:C2	34:BA:123:C:H1'	2.47	0.49
34:BA:1242:C:C4	34:BA:1243:C:C5	3.00	0.49
34:BA:1301:U:C4	34:BA:1303:C:N1	2.81	0.49
34:BA:1308:U:O5'	46:BQ:98:VAL:CB	2.60	0.49
34:BA:1316:G:H5''	47:BR:17:LYS:HD2	1.94	0.49
34:BA:978:A:N6	34:BA:1318:A:N6	2.60	0.49
34:BA:937:A:C2	34:BA:1379:G:C6	3.00	0.49
34:BA:1409:C:O5'	34:BA:1409:C:H6	1.96	0.49
34:BA:1419:G:C2'	34:BA:1420:C:C6	2.95	0.49
34:BA:1442:G:H4'	34:BA:1443:G:OP2	2.13	0.49
34:BA:242:C:C2	34:BA:285:G:N2	2.81	0.49
34:BA:327:A:C2	34:BA:329:A:N3	2.80	0.49
34:BA:160:A:H1'	34:BA:344:A:H62	1.78	0.49
34:BA:424:G:C4	34:BA:425:G:C8	3.01	0.49
34:BA:475:G:HO2'	34:BA:476:G:H8	1.60	0.49
34:BA:440:A:N6	34:BA:494:U:C6	2.80	0.49
34:BA:505:G:N1	34:BA:535:A:C2	2.81	0.49
34:BA:51:A:C2	34:BA:116:A:H1'	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:521:G:C5	34:BA:529:G:N2	2.81	0.49
34:BA:787:A:C2'	34:BA:788:U:H5'	2.35	0.49
34:BA:843:U:H3	35:BF:37:ASN:HA	1.77	0.49
34:BA:858:G:O5'	34:BA:858:G:C8	2.66	0.49
34:BA:872:A:N1	34:BA:874:G:C6	2.80	0.49
34:BA:874:G:N2	34:BA:875:C:C2	2.80	0.49
34:BA:924:C:H2'	34:BA:925:G:C8	2.47	0.49
34:BA:947:G:C2	34:BA:948:C:N1	2.80	0.49
36:BG:10:PHE:CD1	36:BG:178:LEU:HD22	2.35	0.49
37:BH:165:MET:O	37:BH:166:LYS:C	2.50	0.49
37:BH:64:LEU:CD1	37:BH:75:PHE:CZ	2.95	0.49
38:BI:108:ALA:HA	38:BI:111:GLU:OE1	2.12	0.49
38:BI:82:VAL:HG11	38:BI:134:ALA:O	2.12	0.49
38:BI:26:PHE:N	38:BI:26:PHE:HD1	2.08	0.49
38:BI:45:PHE:CG	38:BI:45:PHE:O	2.64	0.49
40:BK:75:VAL:HG11	40:BK:86:GLN:HB3	1.94	0.49
41:BL:5:PRO:O	41:BL:8:ASP:CB	2.54	0.49
42:BM:11:LYS:C	42:BM:12:GLU:HG2	2.32	0.49
42:BM:94:ALA:O	42:BM:95:LYS:HG2	2.12	0.49
34:BA:972:C:OP2	43:BN:57:LYS:HD2	2.13	0.49
43:BN:49:VAL:C	43:BN:60:ARG:HB3	2.32	0.49
45:BP:77:LEU:CD1	45:BP:107:ALA:HB2	2.39	0.49
45:BP:82:VAL:CG1	45:BP:83:VAL:H	2.22	0.49
48:BS:79:ARG:HA	48:BS:82:ILE:HD12	1.94	0.49
49:BT:18:ARG:NH1	49:BT:35:LYS:CB	2.47	0.49
49:BT:21:VAL:HG21	49:BT:59:TRP:CE2	2.47	0.49
34:BA:607:A:N1	49:BT:31:LYS:HG3	2.27	0.49
49:BT:67:THR:N	49:BT:70:ALA:HB3	2.26	0.49
50:BU:68:ARG:N	50:BU:70:ARG:NH2	2.46	0.49
52:BW:51:VAL:CB	52:BW:75:ALA:HB2	2.42	0.49
53:BX:13:LEU:N	53:BX:13:LEU:CD1	2.57	0.49
53:BX:65:LYS:O	53:BX:68:LYS:HG2	2.11	0.49
57:BZ:10:ILE:O	57:BZ:10:ILE:HG22	2.12	0.49
57:BZ:137:PRO:CD	57:BZ:138:ASP:H	2.26	0.49
57:BZ:146:ASP:O	57:BZ:149:VAL:HG12	2.12	0.49
57:BZ:200:ASP:OD2	57:BZ:228:ARG:NE	2.42	0.49
57:BZ:251:VAL:CA	57:BZ:273:ILE:HA	2.39	0.49
57:BZ:436:ARG:O	57:BZ:437:VAL:HB	2.11	0.49
57:BZ:9:ALA:HA	57:BZ:73:VAL:N	2.26	0.49
57:BZ:603:ALA:CB	57:BZ:604:PRO:CD	2.86	0.49
1:AA:1489:U:O2'	1:AA:1490:A:P	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1583:A:OP2	1:AA:1586:A:O3'	2.30	0.49
1:AA:1588:C:H2'	1:AA:1589:C:C6	2.44	0.49
55:BC:10:G:O2'	55:BC:11:C:H5'	2.12	0.49
1:AA:1123:C:C2	1:AA:1124:C:C5	3.00	0.49
1:AA:1132:A:H2'	1:AA:1133:U:O2	2.12	0.49
1:AA:1164:G:C2'	1:AA:1165:U:O5'	2.60	0.49
1:AA:1281:G:H2'	1:AA:1282:U:C5	2.46	0.49
1:AA:1357:U:O4	1:AA:1358:G:C2	2.65	0.49
1:AA:1429:G:C3'	1:AA:1430:C:H6	2.23	0.49
1:AA:1451:C:C4'	1:AA:1451:C:OP2	2.60	0.49
1:AA:1496:A:O2'	1:AA:1497:U:C5	2.49	0.49
1:AA:1544:C:O2'	1:AA:1545:A:O4'	2.30	0.49
1:AA:1560:G:H2'	1:AA:1561:G:C8	2.48	0.49
1:AA:1689:A:C6	1:AA:1698:A:H2	2.27	0.49
1:AA:1727:U:HO2'	1:AA:1728:G:P	2.35	0.49
1:AA:1783:A:C5'	1:AA:1784:A:OP1	2.57	0.49
1:AA:1788:C:C6	1:AA:1788:C:H3'	2.47	0.49
1:AA:1910:G:N2	1:AA:1911:U:N3	2.60	0.49
1:AA:1982:C:H2'	1:AA:1983:C:C6	2.47	0.49
1:AA:2024:G:C5	1:AA:2025:C:C5	3.00	0.49
1:AA:2076:U:C5'	1:AA:2077:A:P	3.00	0.49
1:AA:2146:C:C6	1:AA:2146:C:O5'	2.66	0.49
1:AA:2218:G:O3'	4:AD:186:HIS:NE2	2.46	0.49
1:AA:2238:G:O2'	1:AA:2239:G:O4'	2.31	0.49
1:AA:954:G:O2'	1:AA:2274:A:C2	2.58	0.49
1:AA:2302:G:N2	1:AA:2303:G:H1'	2.27	0.49
1:AA:2373:G:H2'	1:AA:2374:C:C5	2.46	0.49
1:AA:237:C:O2'	1:AA:238:C:H5'	2.12	0.49
1:AA:2452:C:O2'	1:AA:2453:A:H5'	2.13	0.49
1:AA:2452:C:H2'	1:AA:2453:A:O4'	2.12	0.49
1:AA:2464:C:C4	1:AA:2465:C:C5	3.00	0.49
1:AA:2469:A:C2	1:AA:2482:G:H1'	2.48	0.49
1:AA:2512:C:H2'	1:AA:2513:G:C4'	2.41	0.49
1:AA:2553:G:N2	1:AA:2554:U:C2'	2.61	0.49
1:AA:2589:A:C4	1:AA:2590:A:C8	3.01	0.49
1:AA:2650:U:C2'	1:AA:2651:C:H5'	2.42	0.49
1:AA:2681:C:C5	1:AA:2727:G:C2	2.99	0.49
1:AA:527:C:H5	1:AA:2780:G:OP1	1.93	0.49
1:AA:2845:G:O2'	1:AA:2846:G:O4'	2.23	0.49
1:AA:284:U:H2'	1:AA:285:C:C6	2.47	0.49
1:AA:2881:C:C2	1:AA:2882:A:N7	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:292:C:H2'	1:AA:293:U:N3	2.25	0.49
58:AA:3001:NMY:N19	34:BA:1517:G:OP1	2.44	0.49
1:AA:354:G:O2'	1:AA:355:G:C5'	2.61	0.49
1:AA:227:A:N6	1:AA:410:G:H1'	2.27	0.49
1:AA:520:G:OP1	18:AT:25:ARG:NH1	2.43	0.49
1:AA:547:A:N6	1:AA:548:A:N1	2.60	0.49
1:AA:572:A:N7	1:AA:573:G:C5	2.80	0.49
1:AA:572:A:C5	1:AA:573:G:N1	2.80	0.49
1:AA:576:U:O5'	1:AA:576:U:H6	1.96	0.49
1:AA:630:G:N1	1:AA:634:C:N4	2.58	0.49
1:AA:627:A:P	1:AA:637:A:N6	2.85	0.49
1:AA:64:A:C2	1:AA:65:C:H1'	2.47	0.49
1:AA:747:U:HO2'	1:AA:748:G:P	2.31	0.49
1:AA:874:G:C2	1:AA:904:C:N3	2.80	0.49
1:AA:86:C:H2'	1:AA:87:C:H6	1.77	0.49
1:AA:962:G:C2	1:AA:963:U:C2	3.00	0.49
1:AA:988:A:H8	1:AA:988:A:O5'	1.95	0.49
3:AC:181:PRO:O	3:AC:184:LYS:HB2	2.11	0.49
3:AC:184:LYS:O	3:AC:185:LEU:C	2.49	0.49
3:AC:77:ILE:HB	3:AC:115:ALA:CB	2.42	0.49
3:AC:89:ALA:O	3:AC:157:LYS:HE2	2.12	0.49
4:AD:157:ARG:HH11	4:AD:178:PRO:CD	2.26	0.49
4:AD:143:HIS:NE2	4:AD:192:THR:HG21	2.25	0.49
4:AD:127:VAL:HG22	4:AD:194:GLY:HA2	1.94	0.49
4:AD:246:PRO:HD2	4:AD:250:TRP:CA	2.42	0.49
5:AE:5:LEU:CD1	5:AE:197:ILE:HA	2.42	0.49
5:AE:49:LEU:CD2	5:AE:75:VAL:C	2.79	0.49
5:AE:8:LYS:N	5:AE:8:LYS:HE2	3.26	0.49
6:AF:101:LEU:O	6:AF:106:ARG:CZ	2.60	0.49
6:AF:6:VAL:HB	6:AF:18:ARG:CD	2.40	0.49
6:AF:47:GLY:O	6:AF:95:ARG:O	2.30	0.49
7:AG:179:PRO:O	7:AG:181:ARG:NH2	2.45	0.49
8:AH:102:ALA:HB1	8:AH:115:VAL:H	1.76	0.49
32:AJ:108:ALA:HA	32:AJ:109:LYS:CB	2.41	0.49
32:AJ:17:ALA:O	32:AJ:41:PHE:HB2	2.12	0.49
1:AA:558:G:H5''	9:AK:109:LYS:CG	2.41	0.49
9:AK:10:GLU:HB3	9:AK:39:ARG:HH12	1.76	0.49
9:AK:2:LYS:N	16:AR:61:TRP:CH2	2.80	0.49
9:AK:63:THR:OG1	9:AK:65:LYS:HD3	2.12	0.49
9:AK:69:GLN:N	9:AK:69:GLN:NE2	2.61	0.49
9:AK:8:GLN:O	9:AK:9:VAL:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:108:LYS:CG	11:AM:109:GLY:N	2.75	0.49
11:AM:114:ILE:CD1	11:AM:129:ALA:O	2.44	0.49
12:AN:11:LYS:NZ	12:AN:73:PRO:HB3	2.27	0.49
12:AN:127:ILE:HD13	12:AN:129:THR:HG23	1.92	0.49
12:AN:34:LEU:CD2	12:AN:118:LEU:HD22	2.42	0.49
12:AN:46:GLN:NE2	12:AN:126:PRO:HG3	2.28	0.49
12:AN:50:ALA:O	12:AN:51:ARG:C	2.50	0.49
12:AN:66:ILE:O	12:AN:67:ARG:HB3	2.12	0.49
13:AO:22:ARG:O	13:AO:23:ASN:C	2.47	0.49
14:AP:12:PHE:C	14:AP:12:PHE:CD1	2.85	0.49
15:AQ:59:THR:N	15:AQ:61:PHE:CE2	2.80	0.49
15:AQ:76:PHE:CZ	15:AQ:78:LEU:CG	2.94	0.49
15:AQ:80:SER:HB3	15:AQ:81:PRO:CD	2.40	0.49
16:AR:16:LYS:HG2	16:AR:17:ILE:N	2.27	0.49
16:AR:42:ALA:O	16:AR:45:TYR:HB2	2.11	0.49
17:AS:2:PHE:O	17:AS:43:GLU:OE1	2.30	0.49
17:AS:56:SER:OG	17:AS:56:SER:O	2.23	0.49
1:AA:566:U:O4'	17:AS:82:ARG:NH2	2.44	0.49
20:AV:26:LYS:HD2	20:AV:27:VAL:HB	1.94	0.49
21:AW:100:VAL:HG12	21:AW:133:ILE:HD13	1.93	0.49
21:AW:48:PHE:O	21:AW:53:ILE:HG22	2.12	0.49
22:AX:1:MET:O	22:AX:2:ALA:CB	2.60	0.49
22:AX:23:VAL:HA	22:AX:38:VAL:CG1	2.37	0.49
34:BA:129(A):G:C3'	34:BA:129(A):G:C8	2.89	0.49
34:BA:1455:G:OP1	53:BX:32:ALA:N	2.45	0.49
34:BA:1479:C:H2'	34:BA:1480:G:O4'	2.12	0.49
34:BA:307:C:N4	34:BA:308:C:N4	2.58	0.49
34:BA:327:A:O3'	34:BA:328:C:O4'	2.30	0.49
34:BA:519:C:N4	34:BA:520:A:N3	2.59	0.49
34:BA:594:G:H2'	34:BA:595:G:H1'	1.94	0.49
34:BA:607:A:C2'	34:BA:608:A:H5'	2.43	0.49
34:BA:622:A:H2'	34:BA:623:C:H5'	1.93	0.49
34:BA:66:G:C4'	34:BA:173:U:O4	2.59	0.49
34:BA:735:C:H4'	51:BV:75:ILE:HD11	1.94	0.49
34:BA:737:A:OP1	39:BJ:92:LYS:N	2.41	0.49
34:BA:739:C:C2'	34:BA:740:U:H5'	2.43	0.49
34:BA:749:C:C2'	34:BA:749:C:O2	2.59	0.49
34:BA:96:G:C2	34:BA:97:U:C2	3.00	0.49
56:BE:50:U:H2'	56:BE:51:U:O4'	2.12	0.49
35:BF:165:VAL:O	35:BF:187:LEU:O	2.30	0.49
35:BF:208:ILE:HD13	35:BF:239:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:88:ALA:HA	35:BF:222:ILE:HD11	1.93	0.49
36:BG:142:MET:CA	36:BG:146:ALA:HB3	2.42	0.49
36:BG:138:VAL:HG12	36:BG:170:GLN:HE21	1.77	0.49
36:BG:114:PRO:HD3	36:BG:183:ASP:OD2	2.12	0.49
36:BG:77:ILE:CG2	36:BG:81:GLY:HA2	2.42	0.49
37:BH:155:LEU:HD22	37:BH:155:LEU:H	1.77	0.49
37:BH:54:TYR:CE2	37:BH:58:LEU:HB2	2.47	0.49
37:BH:64:LEU:HD12	37:BH:75:PHE:CZ	2.47	0.49
37:BH:81:GLU:O	37:BH:85:LYS:HB2	2.11	0.49
34:BA:5:U:N3	37:BH:86:LYS:HB3	2.27	0.49
39:BJ:40:VAL:HA	39:BJ:63:TYR:CD1	2.46	0.49
40:BK:149:ARG:O	40:BK:152:ALA:N	2.46	0.49
43:BN:57:LYS:O	43:BN:58:ASP:CG	2.50	0.49
43:BN:5:ARG:O	43:BN:6:ILE:HG23	2.12	0.49
44:BO:22:HIS:O	44:BO:28:THR:HG23	2.12	0.49
44:BO:63:LEU:HA	44:BO:66:LEU:CG	2.41	0.49
44:BO:62:GLN:OE1	44:BO:63:LEU:N	2.45	0.49
44:BO:80:VAL:H	44:BO:104:GLN:HE21	1.57	0.49
45:BP:117:ARG:O	45:BP:121:GLY:HA2	2.12	0.49
36:BG:12:LEU:HD11	47:BR:57:ARG:HG3	1.94	0.49
48:BS:62:GLN:HA	48:BS:65:ARG:HH12	1.77	0.49
48:BS:4:THR:HG22	48:BS:6:GLU:OE1	2.12	0.49
57:BZ:223:ILE:N	57:BZ:272:ASP:CB	2.21	0.49
57:BZ:26:LEU:HD13	57:BZ:26:LEU:N	2.27	0.49
31:AI:54:ALA:O	31:AI:56:ASN:N	2.44	0.49
56:BD:2:C:C2'	56:BD:3:C:C5'	2.86	0.49
1:AA:105:C:H2'	1:AA:106:C:C6	2.47	0.49
1:AA:1045:A:O4'	1:AA:1111:A:C2	2.66	0.49
1:AA:1222:C:C4	1:AA:1227:A:N6	2.79	0.49
1:AA:1244:G:C5'	11:AM:9:ASN:HB2	2.41	0.49
1:AA:1619:G:C2	1:AA:1620:G:C4	2.99	0.49
1:AA:1690:A:N1	1:AA:1691:C:H1'	2.27	0.49
1:AA:1712:C:C2'	1:AA:1716:U:H6	2.22	0.49
1:AA:1742:C:C6	1:AA:1742:C:OP2	2.66	0.49
1:AA:1682:G:H5'	1:AA:1762:A:O2'	2.13	0.49
1:AA:18:C:O5'	1:AA:18:C:C6	2.64	0.49
1:AA:1968:G:O2'	1:AA:1969:A:H8	1.95	0.49
1:AA:1975:G:O2'	1:AA:1976:U:C5'	2.60	0.49
1:AA:530:G:N2	1:AA:2021:C:C6	2.80	0.49
1:AA:2134:A:N3	1:AA:2134:A:H5''	2.27	0.49
1:AA:2158:A:O2'	1:AA:2159:G:P	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:215:G:H4'	1:AA:216:A:C5'	2.41	0.49
1:AA:2199:A:H8	1:AA:2199:A:O5'	1.89	0.49
1:AA:2227:A:C5	1:AA:2228:G:N7	2.80	0.49
1:AA:2347:C:H5	1:AA:2382:G:H1'	1.77	0.49
1:AA:2468:G:C5	1:AA:2481:G:C2	3.00	0.49
1:AA:271(B):G:H5''	1:AA:271(C):U:H5'	1.92	0.49
1:AA:527:C:N4	1:AA:2780:G:OP1	2.42	0.49
1:AA:2692:C:H1'	1:AA:2847:U:O2'	2.12	0.49
1:AA:307:G:H22	1:AA:310:A:C5'	2.25	0.49
1:AA:410:G:O3'	1:AA:2407:G:OP2	2.29	0.49
1:AA:591:C:C2	1:AA:592:G:C8	3.01	0.49
1:AA:627:A:H2'	1:AA:628:G:C1'	2.42	0.49
1:AA:663:G:C4'	11:AM:18:ARG:NE	2.69	0.49
1:AA:711:G:C6	1:AA:712:G:N7	2.80	0.49
1:AA:7:G:N2	1:AA:2896:C:H2'	2.26	0.49
1:AA:964:C:O5'	1:AA:964:C:H6	1.95	0.49
1:AA:820:A:N7	1:AA:973:A:N6	2.60	0.49
1:AA:980:A:C5	1:AA:981:A:C2	3.00	0.49
1:AA:985:C:H2'	1:AA:986:C:C5	2.48	0.49
2:AB:24:G:C2	2:AB:27:C:N4	2.77	0.49
1:AA:2178:C:C4'	3:AC:46:LYS:CG	2.73	0.49
3:AC:47:LEU:CD2	3:AC:47:LEU:H	2.24	0.49
4:AD:167:GLY:C	4:AD:174:ILE:HD13	2.33	0.49
1:AA:1775:U:C4	4:AD:208:LYS:HD2	2.47	0.49
5:AE:27:LEU:CD1	5:AE:30:PRO:HD3	2.32	0.49
5:AE:66:HIS:NE2	5:AE:71:GLY:N	2.59	0.49
6:AF:125:LEU:HD13	6:AF:128:ALA:HB2	1.93	0.49
6:AF:110:LEU:HD23	6:AF:186:ILE:CD1	2.41	0.49
6:AF:41:LEU:O	6:AF:44:ARG:NH2	2.45	0.49
1:AA:590:A:H5'	6:AF:93:LYS:HZ2	1.76	0.49
7:AG:36:LYS:HZ1	7:AG:160:VAL:HG23	1.76	0.49
8:AH:11:VAL:HG11	8:AH:17:VAL:HG11	1.94	0.49
32:AJ:103:GLN:C	32:AJ:106:GLU:HG3	2.32	0.49
32:AJ:12:LEU:CD1	32:AJ:23:VAL:HG21	2.43	0.49
32:AJ:60:TYR:CG	32:AJ:61:ALA:N	2.80	0.49
1:AA:1059:G:H2'	32:AJ:75:SER:H	1.68	0.49
10:AL:106:LEU:HD12	10:AL:107:ARG:CA	2.42	0.49
1:AA:625:G:O6	11:AM:100:LEU:O	2.31	0.49
11:AM:107:LYS:O	11:AM:107:LYS:HG3	2.13	0.49
11:AM:49:ARG:HA	11:AM:52:GLU:CG	2.43	0.49
11:AM:6:LEU:O	11:AM:7:ARG:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:63:ARG:NH1	13:AO:80:PHE:CG	2.81	0.49
13:AO:72:ASP:OD2	13:AO:74:LYS:NZ	2.38	0.49
15:AQ:104:ASN:O	15:AQ:105:LEU:O	2.30	0.49
10:AL:72:PRO:O	15:AQ:84:GLN:NE2	2.44	0.49
16:AR:58:ARG:CG	16:AR:58:ARG:HH11	2.25	0.49
16:AR:61:TRP:CE3	16:AR:93:LYS:NZ	2.77	0.49
21:AW:111:VAL:HG22	21:AW:117:LEU:CG	2.32	0.49
21:AW:59:LEU:HD23	21:AW:60:GLU:N	2.28	0.49
2:AB:76:G:C5'	21:AW:85:HIS:ND1	2.74	0.49
24:AZ:12:PRO:HA	24:AZ:15:TYR:CZ	2.46	0.49
24:AZ:6:VAL:HG12	24:AZ:56:VAL:HA	1.93	0.49
34:BA:1100:C:O2	34:BA:1102:A:C5'	2.56	0.49
34:BA:1151:A:C8	34:BA:1152:A:C8	3.00	0.49
34:BA:1171:G:C2'	34:BA:1172:C:C6	2.95	0.49
34:BA:117:G:O6	34:BA:289:G:O4'	2.30	0.49
34:BA:1237:C:H5''	34:BA:1238:A:C8	2.47	0.49
34:BA:1300:G:O2'	34:BA:1301:U:H6	1.95	0.49
34:BA:1302:U:O2'	34:BA:1303:C:OP1	2.24	0.49
34:BA:1350:A:N6	34:BA:1373:G:N2	2.59	0.49
34:BA:1369:C:H2'	34:BA:1370:G:O4'	2.13	0.49
34:BA:1477:C:H6	34:BA:1477:C:O5'	1.95	0.49
34:BA:208:U:O3'	34:BA:209:U:H6	1.95	0.49
34:BA:275:G:O2'	34:BA:276:G:H5'	2.12	0.49
34:BA:306:G:C4	34:BA:307:C:C6	3.00	0.49
34:BA:407:G:C1'	37:BH:119:GLN:OE1	2.60	0.49
34:BA:413:G:C2'	34:BA:414:A:OP2	2.60	0.49
34:BA:565:U:N3	34:BA:566:G:O6	2.46	0.49
34:BA:778:G:C6	34:BA:779:C:C4	2.99	0.49
34:BA:78:G:C6	34:BA:79:G:C5	3.01	0.49
34:BA:848:C:N3	34:BA:849:C:C5	2.79	0.49
34:BA:872:A:O2'	34:BA:873:A:P	2.68	0.49
34:BA:757:U:H4'	34:BA:879:C:O2	2.12	0.49
34:BA:894:G:HO2'	34:BA:895:G:H5'	1.76	0.49
34:BA:915:A:O5'	34:BA:915:A:C8	2.62	0.49
34:BA:935:A:C4	34:BA:936:C:C5	3.00	0.49
34:BA:957:U:H1'	34:BA:960:U:H5	1.76	0.49
34:BA:960:U:O2	34:BA:960:U:H2'	2.11	0.49
34:BA:978:A:O4'	34:BA:1322:C:O2	2.30	0.49
56:BE:5:G:N3	56:BE:5:G:C2'	2.76	0.49
35:BF:184:VAL:HB	35:BF:198:ASP:CG	2.33	0.49
35:BF:234:PRO:O	35:BF:238:LEU:HD22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:43:ASP:OD1	35:BF:44:LEU:N	2.45	0.49
35:BF:55:PHE:CD2	35:BF:58:ILE:HD12	2.48	0.49
35:BF:75:LYS:HZ2	35:BF:75:LYS:C	2.14	0.49
36:BG:190:ARG:O	36:BG:191:THR:C	2.51	0.49
37:BH:31:CYS:C	37:BH:33:MET:N	2.64	0.49
37:BH:59:ARG:CB	37:BH:63:LYS:HZ2	2.26	0.49
38:BI:45:PHE:CD1	38:BI:47:LYS:HD2	2.47	0.49
38:BI:71:LEU:HG	38:BI:72:GLN:H	1.76	0.49
40:BK:69:VAL:C	40:BK:138:LYS:HD2	2.32	0.49
41:BL:124:ALA:O	41:BL:125:ARG:C	2.51	0.49
41:BL:126:LYS:HZ2	41:BL:127:LEU:CD2	2.25	0.49
41:BL:24:THR:O	41:BL:24:THR:HG23	2.12	0.49
41:BL:97:VAL:HG13	41:BL:98:LYS:HZ1	1.77	0.49
34:BA:1128:C:C3'	42:BM:16:ARG:NH2	2.72	0.49
42:BM:27:THR:HG21	42:BM:62:TYR:CE1	2.47	0.49
42:BM:15:ALA:HB3	42:BM:76:ALA:C	2.33	0.49
43:BN:54:PHE:CE1	43:BN:55:LYS:HB3	2.48	0.49
43:BN:61:GLU:CG	43:BN:62:HIS:N	2.75	0.49
44:BO:44:SER:H	44:BO:47:VAL:CB	2.25	0.49
44:BO:84:VAL:HG21	51:BV:88:LYS:NZ	2.27	0.49
46:BQ:86:CYS:SG	46:BQ:87:TYR:N	2.85	0.49
48:BS:66:LEU:N	48:BS:66:LEU:CD2	2.75	0.49
49:BT:39:TYR:CD1	49:BT:39:TYR:C	2.85	0.49
50:BU:11:VAL:HB	50:BU:20:THR:CB	2.41	0.49
50:BU:27:PHE:HB2	50:BU:28:PRO:HD2	1.95	0.49
50:BU:29:HIS:CD2	50:BU:30:PRO:HD2	2.47	0.49
34:BA:333:G:C4'	53:BX:16:HIS:CD2	2.93	0.49
53:BX:30:LYS:O	53:BX:34:LYS:HG3	2.12	0.49
57:BZ:384:ARG:NE	57:BZ:384:ARG:HA	2.27	0.49
57:BZ:601:ASN:HA	57:BZ:602:ARG:CB	2.42	0.49
3:AC:194:ARG:HG3	3:AC:194:ARG:NH1	2.27	0.49
1:AA:1011:G:O2'	1:AA:1013:C:C4'	2.60	0.49
1:AA:1062:G:O2'	1:AA:1063:G:H3'	2.12	0.49
1:AA:1120:G:H2'	1:AA:1121:C:H6	1.77	0.49
1:AA:1263:U:C5	1:AA:1265:A:N6	2.75	0.49
1:AA:1296:G:C4	1:AA:1297:C:C5	3.01	0.49
1:AA:1314:C:H2'	1:AA:1315:C:H6	1.78	0.49
1:AA:1356:G:C2'	1:AA:1357:U:H5'	2.42	0.49
1:AA:1799:G:H8	4:AD:268:ARG:NH1	2.04	0.49
1:AA:1800:C:O2'	1:AA:1802:A:OP2	2.25	0.49
1:AA:1936:A:C8	1:AA:1945:G:O6	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:199:A:H5'	1:AA:200:U:OP2	2.12	0.49
1:AA:2385:C:C4	1:AA:2386:C:C5	3.01	0.49
1:AA:411:G:C2	1:AA:2407:G:C5	3.01	0.49
1:AA:2496:C:C2	1:AA:2497:A:H2	2.30	0.49
1:AA:2558:C:C2'	1:AA:2559:C:O5'	2.60	0.49
1:AA:2600:A:C2	1:AA:2601:C:C5	3.01	0.49
1:AA:2651:C:N3	1:AA:2670:A:N1	2.32	0.49
1:AA:2673:G:C2	1:AA:2674:G:N7	2.80	0.49
1:AA:270(A):A:C8	1:AA:370:G:O4'	2.65	0.49
1:AA:270(P):C:O2'	1:AA:270(Q):C:H5'	2.12	0.49
1:AA:2811:G:N1	1:AA:2891:G:C2	2.80	0.49
1:AA:401:A:C4	1:AA:402:A:C8	3.00	0.49
1:AA:502:A:C8	1:AA:502:A:C3'	2.92	0.49
1:AA:28:A:C1'	1:AA:513:A:C6	2.95	0.49
1:AA:553:U:C4	1:AA:554:U:C4	3.00	0.49
1:AA:571:A:C5	1:AA:2030:A:C6	3.00	0.49
1:AA:730:C:OP2	1:AA:763:G:OP1	2.29	0.49
1:AA:743:G:N1	1:AA:755:C:C4	2.81	0.49
1:AA:792:G:N2	1:AA:2072:G:C1'	2.66	0.49
1:AA:823:G:H3'	1:AA:824:A:C8	2.43	0.49
1:AA:972:G:H3'	1:AA:973:A:C5'	2.41	0.49
1:AA:98:G:O2'	1:AA:103:A:C1'	2.60	0.49
4:AD:116:GLN:O	4:AD:117:VAL:HG23	2.12	0.49
4:AD:124:PRO:HG2	4:AD:126:GLN:HG2	1.94	0.49
4:AD:136:ILE:HD12	4:AD:168:ARG:CZ	2.42	0.49
4:AD:188:GLU:H	4:AD:188:GLU:CD	2.15	0.49
4:AD:60:ARG:CB	4:AD:62:TYR:CE2	2.96	0.49
4:AD:63:ARG:CD	4:AD:65:ILE:HD11	2.42	0.49
4:AD:82:ILE:CG2	4:AD:83:GLU:N	2.76	0.49
4:AD:85:ASP:CB	4:AD:87:ASN:HD21	2.24	0.49
4:AD:90:ALA:C	4:AD:91:ARG:NH1	2.66	0.49
4:AD:91:ARG:NH2	4:AD:198:ASN:ND2	2.61	0.49
5:AE:176:ILE:HD11	5:AE:178:GLU:HB2	1.94	0.49
5:AE:66:HIS:CG	5:AE:67:PHE:N	2.80	0.49
6:AF:154:VAL:O	6:AF:174:VAL:HG22	2.11	0.49
6:AF:45:ARG:HG2	6:AF:97:TYR:CG	2.47	0.49
7:AG:118:ARG:HG2	7:AG:119:GLY:H	1.76	0.49
7:AG:136:ARG:O	7:AG:153:ARG:HG2	2.12	0.49
7:AG:30:GLU:HB3	7:AG:162:THR:HB	1.93	0.49
7:AG:75:LYS:HA	7:AG:84:LYS:HG3	1.95	0.49
8:AH:137:ASP:OD2	8:AH:140:LYS:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:148:ILE:CG2	8:AH:149:ARG:N	2.76	0.49
8:AH:74:ASN:CG	8:AH:75:ALA:N	2.66	0.49
9:AK:69:GLN:H	9:AK:69:GLN:HE21	1.60	0.49
10:AL:59:LYS:HE2	10:AL:59:LYS:O	2.12	0.49
11:AM:108:LYS:CD	11:AM:109:GLY:N	2.73	0.49
11:AM:122:PRO:CG	11:AM:137:LYS:C	2.77	0.49
1:AA:833:U:H1'	11:AM:48:PRO:HB2	1.95	0.49
12:AN:96:VAL:HG12	12:AN:98:LYS:HZ1	1.75	0.49
15:AQ:30:VAL:CB	15:AQ:90:GLN:HA	2.39	0.49
16:AR:39:LEU:O	16:AR:42:ALA:N	2.46	0.49
17:AS:10:LYS:O	17:AS:12:TYR:N	2.44	0.49
17:AS:43:GLU:O	17:AS:44:LYS:CD	2.52	0.49
19:AU:60:ARG:CD	19:AU:62:LYS:NZ	2.72	0.49
24:AZ:17:LYS:HA	24:AZ:20:LYS:HZ3	1.78	0.49
24:AZ:6:VAL:HA	24:AZ:55:ARG:O	2.12	0.49
34:BA:1240:U:H4'	34:BA:1241:G:OP2	2.12	0.49
34:BA:1307:U:N3	34:BA:1308:U:C5	2.80	0.49
34:BA:1320:C:H3'	34:BA:1321:C:C5	2.46	0.49
34:BA:1306:A:C2	34:BA:1332:A:C8	3.00	0.49
34:BA:1347:G:H4'	34:BA:1348:U:C5'	2.42	0.49
34:BA:1410:G:H2'	34:BA:1411:C:C6	2.47	0.49
34:BA:1415:G:H2'	34:BA:1416:G:O5'	2.12	0.49
34:BA:1491:G:C8	58:BA:1601:NMY:O3	2.63	0.49
34:BA:151:A:C5	34:BA:152:A:N3	2.80	0.49
34:BA:68:G:H5'	34:BA:171:A:H1'	1.94	0.49
34:BA:35:G:C6	34:BA:550:G:N1	2.80	0.49
34:BA:450:G:H5''	34:BA:451:A:O5'	2.11	0.49
34:BA:453:A:N6	34:BA:480:U:C2	2.73	0.49
34:BA:447:G:N2	34:BA:486:U:C5	2.81	0.49
34:BA:50:A:C2	34:BA:360:A:C2'	2.94	0.49
34:BA:531:U:H5''	34:BA:532:A:OP1	2.11	0.49
34:BA:643:C:C2	34:BA:644:G:C8	3.00	0.49
34:BA:792:A:C4	34:BA:794:A:N6	2.79	0.49
34:BA:956:U:O2'	34:BA:957:U:H5'	2.13	0.49
35:BF:134:GLU:O	35:BF:138:LEU:CG	2.56	0.49
35:BF:167:PRO:HG2	35:BF:168:THR:N	2.24	0.49
35:BF:97:TRP:CZ3	35:BF:172:ILE:HB	2.46	0.49
36:BG:11:ARG:HG3	36:BG:16:ARG:CZ	2.43	0.49
36:BG:188:LEU:HD13	36:BG:189:ALA:N	2.28	0.49
36:BG:187:ALA:CB	36:BG:198:VAL:HG22	2.43	0.49
36:BG:29:TYR:HB3	47:BR:36:PHE:CE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:178:VAL:O	37:BH:179:GLU:O	2.31	0.49
38:BI:11:ILE:O	38:BI:12:LEU:C	2.50	0.49
34:BA:1081:G:OP2	38:BI:27:ARG:HD2	2.11	0.49
40:BK:115:ARG:O	40:BK:118:VAL:CB	2.60	0.49
40:BK:149:ARG:HB3	44:BO:59:TYR:CE2	2.47	0.49
34:BA:1117:G:O3'	42:BM:103:THR:CG2	2.60	0.49
42:BM:22:GLY:C	42:BM:58:HIS:O	2.51	0.49
42:BM:47:LEU:CD1	42:BM:50:LEU:HB3	2.31	0.49
43:BN:19:SER:CA	43:BN:91:PRO:HG3	2.41	0.49
44:BO:13:GLN:CA	44:BO:76:GLY:HA3	2.42	0.49
44:BO:18:ARG:HG2	44:BO:18:ARG:NH1	2.26	0.49
45:BP:110:VAL:HG21	45:BP:113:ARG:HG3	1.95	0.49
45:BP:25:PRO:HD2	45:BP:98:TYR:OH	2.12	0.49
45:BP:25:PRO:CD	45:BP:98:TYR:OH	2.61	0.49
48:BS:61:GLY:O	48:BS:62:GLN:C	2.50	0.49
49:BT:26:ARG:NE	49:BT:31:LYS:HZ3	2.10	0.49
50:BU:33:GLY:O	50:BU:34:LYS:C	2.50	0.49
50:BU:56:VAL:C	50:BU:57:VAL:CG1	2.79	0.49
52:BW:9:VAL:HA	52:BW:42:PRO:HD2	1.94	0.49
53:BX:16:HIS:O	53:BX:19:SER:N	2.46	0.49
57:BZ:175:ASP:O	57:BZ:176:HIS:HB2	2.11	0.49
57:BZ:234:ASN:HA	57:BZ:235:GLN:HB3	1.89	0.49
57:BZ:405:LEU:C	57:BZ:407:VAL:HG13	2.31	0.49
57:BZ:407:VAL:HA	57:BZ:408:GLU:C	2.27	0.49
56:BD:52:G:C5	56:BD:63:G:N1	2.66	0.49
57:BZ:538:LEU:CA	57:BZ:539:THR:CB	2.90	0.49
55:BC:65:G:H2'	55:BC:66:U:C6	2.46	0.49
11:AM:149:GLU:CD	11:AM:150:ALA:N	2.58	0.49
1:AA:1076:C:H3'	1:AA:1076:C:H6	1.78	0.49
1:AA:1027:A:N6	1:AA:1126:A:H1'	2.27	0.49
1:AA:1142(A):A:C2	1:AA:1143:A:O4'	2.66	0.49
1:AA:1143:A:C2	1:AA:1144:G:C4	3.01	0.49
1:AA:1200:C:C2	1:AA:1246:A:C2	3.01	0.49
1:AA:1264:G:C5	1:AA:1265:A:C5	3.01	0.49
1:AA:1272:A:C2	1:AA:1618:A:C2	3.01	0.49
1:AA:1324:G:H1'	1:AA:1616:A:H61	1.67	0.49
1:AA:1357:U:N3	1:AA:1358:G:C2	2.80	0.49
1:AA:1439:A:N7	1:AA:1440:G:N9	2.61	0.49
1:AA:149:A:C8	1:AA:150:C:O4'	2.66	0.49
1:AA:1534:G:H2'	1:AA:1536:A:N7	2.27	0.49
1:AA:1559:G:H5''	1:AA:1559:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1567:A:N3	1:AA:1567:A:C2'	2.74	0.49
1:AA:1426:G:N3	1:AA:1573:G:N2	2.61	0.49
1:AA:1661:G:C6	1:AA:1662:C:C4	3.01	0.49
1:AA:1673:U:HO2'	1:AA:1674:G:P	2.34	0.49
1:AA:1729:A:H2'	1:AA:1730:U:H5'	1.94	0.49
1:AA:181:A:H8	1:AA:181:A:H5'	1.77	0.49
1:AA:1991:U:C6	1:AA:1991:U:H3'	2.48	0.49
1:AA:2007:C:N3	1:AA:2008:C:C5	2.80	0.49
1:AA:793:A:OP2	1:AA:2072:G:H5'	2.13	0.49
1:AA:2128:C:C3'	3:AC:35:ALA:HB1	2.43	0.49
1:AA:2252:G:N7	1:AA:2253:G:C5	2.81	0.49
1:AA:2254:C:O2	22:AX:7:LEU:HD11	2.13	0.49
1:AA:411:G:H5'	1:AA:2407:G:OP2	2.12	0.49
1:AA:2453:A:C2	1:AA:2499:C:N4	2.80	0.49
1:AA:2525:G:C2	1:AA:2539:C:N4	2.80	0.49
1:AA:2548:G:C6	1:AA:2561:A:C6	3.00	0.49
1:AA:2600:A:O2'	1:AA:2601:C:H5'	2.13	0.49
1:AA:2617:C:C2	1:AA:2618:G:H8	2.30	0.49
1:AA:2679:A:O2'	5:AE:189:PRO:HA	2.13	0.49
1:AA:2718:G:C6	1:AA:2719:G:C6	3.01	0.49
1:AA:2731:G:N2	1:AA:2732:G:N2	2.60	0.49
1:AA:2805:G:H2'	1:AA:2807:G:H4'	1.93	0.49
1:AA:2812:G:C2	1:AA:2813:A:C5	3.01	0.49
1:AA:2828:C:H2'	1:AA:2829:C:C6	2.48	0.49
1:AA:2839:G:C4	1:AA:2840:C:C6	3.00	0.49
1:AA:1752:C:C5'	1:AA:2862:G:OP1	2.61	0.49
1:AA:303:U:C2	1:AA:304:G:C8	3.00	0.49
1:AA:400:G:H8	1:AA:400:G:H3'	1.78	0.49
1:AA:467:G:C2'	1:AA:468:G:H5'	2.43	0.49
1:AA:46:C:OP2	1:AA:215:G:C3'	2.55	0.49
1:AA:540:G:C5	1:AA:541:C:C5	3.00	0.49
1:AA:587:C:O2'	1:AA:588:U:P	2.71	0.49
1:AA:616:A:H3'	1:AA:616:A:P	2.51	0.49
1:AA:640:C:H42	1:AA:647:G:H1	1.58	0.49
2:AB:65:C:C5	2:AB:108:C:C5	3.01	0.49
2:AB:12:C:C5'	22:AX:74:ARG:CG	2.86	0.49
2:AB:16:G:O2'	2:AB:17:C:C5'	2.60	0.49
2:AB:59:A:N1	2:AB:60:C:H1'	2.27	0.49
2:AB:87:G:C2	2:AB:90:C:C4	3.00	0.49
4:AD:210:GLY:O	4:AD:214:TRP:HB2	2.11	0.49
4:AD:246:PRO:CB	4:AD:250:TRP:HB3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:68:LYS:HB3	4:AD:70:TRP:CE2	2.48	0.49
5:AE:54:GLN:CG	5:AE:57:LYS:HG3	2.43	0.49
5:AE:55:ASN:HA	5:AE:73:GLU:OE2	2.13	0.49
5:AE:55:ASN:O	5:AE:57:LYS:N	2.45	0.49
5:AE:53:PRO:HD2	5:AE:74:PRO:C	2.33	0.49
1:AA:2304:G:N2	7:AG:156:ASP:OD1	2.46	0.49
7:AG:120:LEU:HA	7:AG:181:ARG:CB	2.42	0.49
7:AG:33:ARG:C	7:AG:33:ARG:NH2	2.66	0.49
8:AH:125:VAL:N	8:AH:126:PRO:CD	2.76	0.49
8:AH:13:LYS:CE	8:AH:80:SER:HA	2.42	0.49
8:AH:69:ARG:HB2	8:AH:69:ARG:NH2	2.27	0.49
9:AK:22:THR:HG21	9:AK:61:ARG:HH12	1.78	0.49
10:AL:23:ARG:NH1	10:AL:30:ALA:HB2	2.27	0.49
10:AL:64:ARG:NE	10:AL:67:LYS:C	2.66	0.49
11:AM:23:PRO:CB	11:AM:28:GLY:HA2	2.25	0.49
12:AN:51:ARG:HD3	12:AN:52:VAL:CG2	2.43	0.49
12:AN:85:LYS:HE3	12:AN:88:GLY:HA3	1.95	0.49
13:AO:82:GLU:O	13:AO:83:ILE:HD13	2.11	0.49
14:AP:24:LEU:H	14:AP:86:ALA:HB1	1.77	0.49
15:AQ:112:ARG:O	15:AQ:113:LYS:C	2.50	0.49
15:AQ:35:LYS:CG	15:AQ:84:GLN:O	2.53	0.49
16:AR:39:LEU:O	16:AR:41:ALA:N	2.44	0.49
16:AR:41:ALA:O	16:AR:42:ALA:C	2.51	0.49
16:AR:48:ALA:C	16:AR:52:ARG:HE	2.16	0.49
16:AR:55:ARG:HB3	16:AR:58:ARG:NE	2.15	0.49
17:AS:79:VAL:CG1	17:AS:81:TYR:CD1	2.95	0.49
20:AV:32:PRO:C	20:AV:34:LYS:N	2.65	0.49
21:AW:95:PRO:HD2	21:AW:131:ARG:N	2.28	0.49
21:AW:6:LYS:CB	21:AW:37:VAL:HG13	2.42	0.49
1:AA:2257:U:OP1	22:AX:11:ARG:NH2	2.45	0.49
23:AY:28:MET:O	23:AY:31:ARG:N	2.46	0.49
24:AZ:4:LEU:HD23	24:AZ:5:LYS:O	2.12	0.49
24:AZ:52:HIS:CG	24:AZ:53:LEU:H	2.30	0.49
24:AZ:6:VAL:CG1	24:AZ:55:ARG:O	2.52	0.49
34:BA:102:G:H2'	34:BA:103:C:O4'	2.11	0.49
34:BA:1268:A:H1'	34:BA:1326:C:O2'	2.12	0.49
34:BA:945:G:C2	34:BA:1337:G:C4	3.00	0.49
34:BA:1377:A:O2'	34:BA:1378:C:P	2.71	0.49
34:BA:1429:C:H2'	34:BA:1430:C:H6	1.78	0.49
34:BA:1502:A:N1	34:BA:1504:G:C2	2.80	0.49
34:BA:247:G:O2'	34:BA:248:C:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:390:C:H2'	34:BA:391:G:C8	2.46	0.49
34:BA:429:U:H4'	34:BA:430:A:C5'	2.41	0.49
34:BA:433:C:H2'	34:BA:434:U:C6	2.47	0.49
34:BA:60:A:O2'	34:BA:61:G:P	2.71	0.49
34:BA:640:A:C2'	34:BA:641:U:C5'	2.91	0.49
34:BA:720:C:H4'	51:BV:50:ILE:HG22	1.94	0.49
34:BA:748:C:O2'	34:BA:749:C:C5'	2.61	0.49
34:BA:908:A:C2	34:BA:909:A:C5	3.01	0.49
35:BF:28:PHE:CE1	35:BF:31:TYR:HB2	2.48	0.49
34:BA:1191:A:H5''	36:BG:4:LYS:HD3	1.94	0.49
36:BG:64:VAL:HG12	36:BG:66:VAL:HG23	1.95	0.49
37:BH:199:ASN:OD1	37:BH:202:LEU:HG	2.12	0.49
38:BI:56:GLN:N	38:BI:56:GLN:HE21	2.11	0.49
39:BJ:30:LEU:HD23	39:BJ:75:LEU:CD1	2.43	0.49
40:BK:68:ASN:ND2	40:BK:128:ALA:HA	2.27	0.49
40:BK:2:ALA:CB	40:BK:5:ARG:O	2.60	0.49
41:BL:103:VAL:CB	41:BL:108:GLY:C	2.81	0.49
41:BL:88:LYS:HZ3	41:BL:88:LYS:CB	2.25	0.49
42:BM:69:GLY:O	42:BM:73:GLN:HG3	2.12	0.49
43:BN:7:LYS:HZ2	43:BN:71:LEU:HD21	1.77	0.49
44:BO:69:ALA:O	44:BO:72:ALA:N	2.44	0.49
44:BO:78:GLN:CD	44:BO:78:GLN:N	2.66	0.49
44:BO:62:GLN:HA	44:BO:97:ALA:HB2	1.94	0.49
46:BQ:27:LYS:NZ	46:BQ:31:LYS:NZ	2.60	0.49
48:BS:35:ARG:NH1	48:BS:59:MET:HE2	2.27	0.49
48:BS:59:MET:O	48:BS:62:GLN:HB3	2.13	0.49
49:BT:3:LYS:HA	49:BT:4:ILE:HD13	1.94	0.49
50:BU:75:ARG:HH12	50:BU:77:VAL:CG2	2.23	0.49
51:BV:22:VAL:HG13	51:BV:55:ARG:HH12	1.77	0.49
51:BV:72:ARG:HA	51:BV:75:ILE:CD1	2.20	0.49
51:BV:74:ARG:NH1	51:BV:81:PHE:HB3	2.27	0.49
51:BV:79:LEU:CD1	51:BV:79:LEU:N	2.75	0.49
53:BX:40:ALA:CA	53:BX:55:ILE:HG21	2.42	0.49
53:BX:42:GLN:O	53:BX:43:LEU:C	2.49	0.49
54:BY:12:LYS:HB3	54:BY:17:THR:O	2.12	0.49
57:BZ:143:GLN:O	57:BZ:147:LEU:HD13	2.13	0.49
57:BZ:206:GLN:CB	57:BZ:228:ARG:H	2.21	0.49
57:BZ:240:ILE:HG22	57:BZ:241:ASP:N	2.28	0.49
56:BD:16:U:C2'	56:BD:17:C:H5'	2.43	0.49
55:BC:39:U:C3'	55:BC:40:C:C5'	2.91	0.49
57:BZ:320:GLY:CA	57:BZ:321:LYS:CB	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1622:G:H8	1:AA:1622:G:O5'	1.95	0.49
1:AA:1085:A:C1'	1:AA:1086:A:P	3.00	0.49
1:AA:1316:U:H2'	1:AA:1317:A:H8	1.78	0.49
1:AA:1351:C:N4	1:AA:1381:G:C6	2.81	0.49
1:AA:1451:C:H2'	1:AA:1451:C:O2	2.12	0.49
1:AA:1464:C:H2'	1:AA:1465:G:C8	2.44	0.49
1:AA:1491:G:C4	1:AA:1492:G:O2'	2.61	0.49
1:AA:1530:G:H2'	1:AA:1531:C:C2	2.47	0.49
1:AA:1544:C:O2'	1:AA:1545:A:C4'	2.61	0.49
1:AA:1638:C:O5'	1:AA:1638:C:H6	1.95	0.49
1:AA:1650:G:HO2'	1:AA:1651:G:P	2.33	0.49
1:AA:1807:G:N2	1:AA:1809:A:P	2.85	0.49
1:AA:1821:A:N6	1:AA:1822:G:O6	2.46	0.49
1:AA:1824:G:OP1	4:AD:53:PHE:CZ	2.66	0.49
1:AA:1953:A:H62	1:AA:2550:G:C5'	2.25	0.49
1:AA:1969:A:O2'	1:AA:1972:A:H1'	2.12	0.49
1:AA:1997:G:N1	1:AA:1998:G:C5	2.80	0.49
1:AA:193:U:O4	1:AA:202:U:O2	2.30	0.49
1:AA:2132:U:H2'	1:AA:2134:A:N7	2.28	0.49
1:AA:2213:U:O2	1:AA:2213:U:C2'	2.60	0.49
1:AA:226:G:O2'	1:AA:227:A:O4'	2.28	0.49
1:AA:631:A:C2	1:AA:2416:C:O4'	2.66	0.49
1:AA:2491:U:H5	1:AA:2492:U:OP2	1.94	0.49
1:AA:1128:A:C5	1:AA:2518:A:N6	2.80	0.49
1:AA:2527:C:O2'	1:AA:2528:U:C5'	2.61	0.49
1:AA:2557:G:H2'	1:AA:2558:C:C5	2.46	0.49
1:AA:2562:U:H2'	1:AA:2563:U:H5'	1.94	0.49
1:AA:257:A:C2'	1:AA:258:G:H5'	2.42	0.49
1:AA:2623:G:H2'	1:AA:2623:G:N3	2.26	0.49
1:AA:2532:G:C5'	1:AA:2657:A:C2	2.89	0.49
1:AA:2681:C:C5	1:AA:2727:G:N2	2.81	0.49
1:AA:2766:G:C2	1:AA:2767:C:C6	3.00	0.49
1:AA:301:G:C2'	1:AA:302:C:C6	2.89	0.49
1:AA:331:A:C6	1:AA:1209:G:C4	3.00	0.49
1:AA:348:G:N3	1:AA:349:G:N7	2.61	0.49
1:AA:372:G:OP2	1:AA:373:U:OP2	2.31	0.49
1:AA:379:G:O6	1:AA:380:U:C4	2.65	0.49
1:AA:220:G:O6	1:AA:427:U:H3'	2.12	0.49
1:AA:462:C:C5	1:AA:468:G:N2	2.80	0.49
1:AA:575:A:C2'	1:AA:576:U:H5'	2.42	0.49
1:AA:606:U:OP2	1:AA:606:U:H5	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:618:G:N7	1:AA:618(A):C:C5	2.80	0.49
1:AA:646:A:C2	1:AA:647:G:C5	3.00	0.49
1:AA:71:A:H4'	1:AA:72:U:C5'	2.23	0.49
1:AA:744:G:C6	1:AA:745:G:O6	2.66	0.49
1:AA:829:A:C5'	1:AA:830:G:H5''	2.36	0.49
1:AA:836:G:C4	1:AA:837:C:C5	3.01	0.49
1:AA:849:A:N3	1:AA:850:C:C6	2.81	0.49
1:AA:879:G:N3	1:AA:898:C:O2	2.45	0.49
1:AA:980:A:N1	1:AA:1135:C:H4'	2.28	0.49
1:AA:993:G:C6	1:AA:994:C:N4	2.81	0.49
2:AB:109:G:N1	2:AB:110:G:C6	2.80	0.49
2:AB:99:A:H2'	2:AB:100:G:C5'	2.43	0.49
3:AC:108:MET:CE	3:AC:131:LEU:HD23	2.42	0.49
3:AC:21:THR:N	3:AC:24:GLU:OE1	2.45	0.49
4:AD:109:ASP:O	4:AD:111:LEU:N	2.46	0.49
4:AD:111:LEU:HB3	4:AD:115:GLN:CD	2.32	0.49
4:AD:144:ALA:HB3	4:AD:192:THR:HB	1.95	0.49
4:AD:174:ILE:HD11	4:AD:184:LYS:HE3	1.93	0.49
1:AA:1790:C:O3'	4:AD:213:ARG:HD3	2.13	0.49
4:AD:246:PRO:HG2	4:AD:250:TRP:HB3	1.89	0.49
4:AD:5:LYS:CB	4:AD:82:ILE:HB	2.33	0.49
4:AD:92:ILE:HG13	4:AD:93:ALA:N	2.26	0.49
5:AE:132:HIS:O	5:AE:133:LYS:CB	2.59	0.49
5:AE:150:VAL:O	5:AE:150:VAL:HG12	2.13	0.49
5:AE:119:ARG:CZ	5:AE:155:LYS:HD2	2.42	0.49
5:AE:4:ILE:HD11	5:AE:76:ARG:NH2	2.24	0.49
5:AE:47:VAL:CG1	5:AE:79:ARG:HB2	2.41	0.49
5:AE:8:LYS:HZ3	5:AE:9:VAL:HG13	1.71	0.49
6:AF:163:VAL:HG11	6:AF:195:ASP:OD2	2.13	0.49
7:AG:57:ALA:CA	7:AG:68:PRO:N	2.68	0.49
7:AG:76:SER:C	7:AG:78:SER:N	2.62	0.49
8:AH:35:VAL:CG2	8:AH:75:ALA:CB	2.91	0.49
9:AK:47:ALA:O	9:AK:48:MET:C	2.51	0.49
9:AK:98:VAL:O	9:AK:99:LEU:C	2.50	0.49
10:AL:8:LEU:CD2	10:AL:81:ASP:O	2.60	0.49
10:AL:62:VAL:CB	10:AL:82:ASN:O	2.59	0.49
11:AM:127:ALA:HB3	11:AM:130:PHE:CE2	2.48	0.49
1:AA:813:U:C4	11:AM:25:SER:HB3	2.47	0.49
11:AM:23:PRO:HB3	11:AM:29:LYS:H	1.74	0.49
12:AN:59:ARG:NH2	12:AN:62:GLY:H	2.10	0.49
12:AN:6:ARG:CZ	12:AN:8:LYS:H	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:105:ARG:NH1	13:AO:105:ARG:CA	2.76	0.49
13:AO:105:ARG:HA	13:AO:105:ARG:NH1	2.24	0.49
13:AO:98:LEU:N	13:AO:114:VAL:HG22	2.27	0.49
13:AO:61:HIS:O	13:AO:62:ALA:C	2.51	0.49
14:AP:27:SER:O	14:AP:28:VAL:O	2.30	0.49
14:AP:28:VAL:O	14:AP:29:PHE:CB	2.58	0.49
15:AQ:3:ARG:O	15:AQ:6:LEU:CD2	2.57	0.49
16:AR:106:PHE:O	16:AR:107:ALA:C	2.51	0.49
1:AA:532:A:N7	16:AR:45:TYR:CE2	2.80	0.49
18:AT:50:VAL:HG21	18:AT:103:ILE:HG13	1.94	0.49
18:AT:42:ARG:CG	18:AT:43:GLY:H	2.26	0.49
18:AT:25:ARG:HA	18:AT:71:VAL:HG21	1.95	0.49
19:AU:61:GLY:N	19:AU:73:ARG:NH1	2.61	0.49
20:AV:7:VAL:HG11	20:AV:72:VAL:H	1.78	0.49
20:AV:81:LYS:CE	20:AV:96:ILE:HG12	2.42	0.49
21:AW:9:TYR:HB3	21:AW:14:LYS:HG2	1.93	0.49
21:AW:31:ARG:CZ	21:AW:31:ARG:O	2.60	0.49
21:AW:79:ARG:O	21:AW:80:ARG:HG3	2.12	0.49
23:AY:32:PHE:HB2	23:AY:33:GLN:HE22	1.78	0.49
34:BA:1058:G:C2'	34:BA:1059:C:H5'	2.42	0.49
34:BA:1117:G:C8	34:BA:1184:G:C2	3.00	0.49
34:BA:1248:A:HO2'	42:BM:36:TYR:HE1	1.49	0.49
34:BA:124:G:OP1	34:BA:310:G:N2	2.33	0.49
34:BA:1346:A:C8	34:BA:1348:U:N3	2.81	0.49
34:BA:1413:A:C2	34:BA:1414:U:N1	2.81	0.49
34:BA:1478:C:O2'	34:BA:1479:C:H5'	2.12	0.49
34:BA:67:C:O2	34:BA:171:A:C2	2.64	0.49
34:BA:323:U:C6	34:BA:323:U:H3'	2.47	0.49
34:BA:344:A:H5''	34:BA:345:C:H5	1.78	0.49
34:BA:113:G:C4'	34:BA:354:G:H5''	2.43	0.49
34:BA:404:U:OP1	37:BH:118:ARG:CZ	2.61	0.49
34:BA:44:G:H2'	34:BA:45:U:H5'	1.94	0.49
34:BA:584:G:H2'	34:BA:585:G:O5'	2.13	0.49
34:BA:588:G:N3	34:BA:588:G:H2'	2.28	0.49
34:BA:663:A:C5'	34:BA:836:G:OP1	2.57	0.49
34:BA:907:A:C4	34:BA:908:A:C8	3.00	0.49
34:BA:947:G:C2	34:BA:948:C:C2	3.00	0.49
35:BF:131:PRO:O	35:BF:134:GLU:CB	2.61	0.49
35:BF:187:LEU:HA	35:BF:201:ILE:HB	1.93	0.49
35:BF:57:PHE:CD2	35:BF:57:PHE:C	2.86	0.49
37:BH:12:CYS:SG	37:BH:19:LEU:O	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:200:GLU:OE2	37:BH:201:GLN:NE2	2.45	0.49
38:BI:105:VAL:O	38:BI:106:PRO:C	2.51	0.49
38:BI:80:ILE:HG22	41:BL:104:ARG:HH22	1.78	0.49
39:BJ:52:ILE:CG2	39:BJ:87:ARG:HH22	2.25	0.49
40:BK:15:ASP:CB	40:BK:20:ASP:H	2.25	0.49
34:BA:1348:U:OP2	42:BM:109:VAL:HA	2.13	0.49
34:BA:1368:G:OP1	42:BM:113:LYS:HA	2.13	0.49
43:BN:6:ILE:CG1	43:BN:73:ASP:H	2.26	0.49
43:BN:31:GLY:N	43:BN:81:THR:OG1	2.46	0.49
44:BO:45:GLY:O	44:BO:50:TYR:CB	2.60	0.49
45:BP:52:LEU:HG	45:BP:52:LEU:O	2.11	0.49
45:BP:83:VAL:C	45:BP:104:VAL:HG11	2.32	0.49
48:BS:13:GLN:O	48:BS:14:GLU:C	2.50	0.49
49:BT:72:ARG:NH2	49:BT:73:LEU:HD23	2.19	0.49
49:BT:56:ALA:HB1	49:BT:79:VAL:HG11	1.92	0.49
52:BW:39:THR:O	52:BW:40:ILE:C	2.50	0.49
53:BX:27:LYS:CD	53:BX:27:LYS:C	2.79	0.49
57:BZ:137:PRO:O	57:BZ:141:VAL:HG23	2.12	0.49
57:BZ:13:HIS:HB3	57:BZ:109:THR:HG22	1.91	0.49
57:BZ:205:PHE:HE1	57:BZ:226:ILE:CG2	2.21	0.49
57:BZ:230:LYS:CA	57:BZ:231:VAL:CB	2.85	0.49
57:BZ:374:ARG:O	57:BZ:377:GLY:N	2.43	0.49
57:BZ:381:ALA:HB1	57:BZ:577:LEU:CA	2.43	0.49
57:BZ:63:ALA:HB1	57:BZ:65:LYS:CD	2.43	0.49
1:AA:1586:A:O2'	1:AA:1587:A:N7	2.45	0.49
37:BH:193:ASP:O	37:BH:194:LEU:HD13	2.13	0.49
1:AA:2111:C:N3	1:AA:2145:C:H2'	2.27	0.49
31:AI:116:ILE:CB	31:AI:123:GLU:CB	2.91	0.49
4:AD:273:ARG:N	4:AD:273:ARG:HD3	2.28	0.49
3:AC:142:ALA:O	3:AC:143:GLY:C	2.50	0.49
1:AA:1051:G:C3'	1:AA:1052:C:C5'	2.91	0.49
1:AA:1064:C:C6	1:AA:1065:U:C5	3.00	0.49
1:AA:1147:C:H2'	1:AA:1148:A:C5'	2.42	0.49
1:AA:49:A:N1	1:AA:120:U:O4	2.46	0.49
1:AA:1224:G:O6	1:AA:1225:C:N3	2.46	0.49
1:AA:1314:C:H6	1:AA:1314:C:O5'	1.96	0.49
1:AA:1331:A:O2'	1:AA:1332:G:H8	1.95	0.49
1:AA:1348:G:C6	1:AA:1349:A:C6	3.01	0.49
1:AA:1349:A:H5'	1:AA:1350:C:C5'	2.42	0.49
1:AA:1352:U:O2'	1:AA:1353:A:C5'	2.61	0.49
1:AA:1419:A:C5	1:AA:1421:G:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1458:C:C4'	1:AA:1459:G:C8	2.92	0.49
1:AA:1525:G:C2	1:AA:1526:G:C4	3.00	0.49
1:AA:1643:G:N2	1:AA:1644:C:H1'	2.28	0.49
1:AA:1651:G:N2	1:AA:1652:A:C2	2.80	0.49
1:AA:1769:G:N1	1:AA:1984:G:C5	2.80	0.49
1:AA:1857:G:C5	1:AA:1858:G:O6	2.66	0.49
1:AA:1924:C:C6	1:AA:1925:C:C5	2.90	0.49
1:AA:1943:U:C4'	1:AA:1944:U:O5'	2.53	0.49
1:AA:2031:A:N6	1:AA:2498:C:C6	2.80	0.49
1:AA:2029:G:O6	1:AA:2033:A:OP1	2.30	0.49
1:AA:2107:C:C5	1:AA:2109:U:C5	3.00	0.49
1:AA:2278:A:H62	22:AX:14:ARG:CB	2.23	0.49
1:AA:2297:C:C2	1:AA:2333:A:N6	2.80	0.49
1:AA:2331:G:H4'	22:AX:42:GLY:CA	2.43	0.49
1:AA:2348:U:H2'	1:AA:2349:G:C5'	2.42	0.49
1:AA:2377:A:C2	1:AA:2378:A:C8	3.01	0.49
1:AA:2389:G:OP1	1:AA:2390:U:H5'	2.13	0.49
1:AA:2457:U:C2'	1:AA:2458:G:H5'	2.43	0.49
1:AA:2472:G:C3'	1:AA:2475:C:H42	2.25	0.49
1:AA:2459:A:C2	1:AA:2492:U:O4	2.54	0.49
1:AA:2497:A:H3'	1:AA:2497:A:C8	2.48	0.49
1:AA:2631:G:C6	1:AA:2632:A:C8	3.01	0.49
1:AA:2722:G:C2	1:AA:2723:C:C2	3.00	0.49
1:AA:2729:G:C6	1:AA:2730:C:C4	3.00	0.49
1:AA:2751:G:C2'	1:AA:2751:G:N3	2.76	0.49
1:AA:2764:A:N7	1:AA:2766:G:O6	2.45	0.49
1:AA:2810:A:C2'	1:AA:2811:G:H5'	2.43	0.49
1:AA:2831:G:OP2	5:AE:57:LYS:HD3	2.13	0.49
1:AA:2706:G:H5'	1:AA:2852:G:P	2.53	0.49
1:AA:2791:C:C4	1:AA:2892:A:H3'	2.47	0.49
1:AA:28:A:N3	1:AA:29:U:O4'	2.46	0.49
1:AA:385:C:O2'	1:AA:386:G:C5'	2.60	0.49
1:AA:470:A:N6	1:AA:471:A:C2	2.80	0.49
1:AA:497:A:H8	1:AA:497:A:O5'	1.95	0.49
1:AA:547:A:H2'	1:AA:548:A:C8	2.47	0.49
1:AA:566:U:H3'	1:AA:567:A:H8	1.77	0.49
1:AA:591:C:C4	1:AA:592:G:N7	2.80	0.49
1:AA:635:C:H2'	1:AA:636:G:O4'	2.13	0.49
1:AA:680:G:C4	1:AA:798:G:N2	2.81	0.49
1:AA:193:U:H4'	1:AA:803:U:H5'	1.95	0.49
1:AA:942:G:C5'	11:AM:32:THR:CG2	2.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:819:A:N7	1:AA:973:A:C2	2.81	0.49
1:AA:988:A:HO2'	1:AA:1157:G:H5'	1.77	0.49
2:AB:32:C:C2	2:AB:33:G:C8	3.01	0.49
3:AC:115:ALA:CB	3:AC:123:VAL:HG21	2.43	0.49
3:AC:59:ARG:NH1	3:AC:164:ARG:CG	2.75	0.49
4:AD:176:ARG:HH12	4:AD:270:ILE:HD12	1.78	0.49
4:AD:91:ARG:NH1	4:AD:198:ASN:HD22	2.11	0.49
1:AA:764:A:N3	4:AD:214:TRP:CD1	2.81	0.49
4:AD:219:PRO:HB2	4:AD:220:HIS:CD2	2.48	0.49
1:AA:1789:A:O4'	4:AD:222:ARG:CZ	2.60	0.49
1:AA:1799:G:H5''	4:AD:264:LYS:HZ3	1.76	0.49
4:AD:79:VAL:HG12	4:AD:81:ALA:HA	1.94	0.49
5:AE:32:PRO:HB3	5:AE:35:GLN:HE22	1.76	0.49
7:AG:26:GLN:CD	7:AG:29:TRP:HE3	2.16	0.49
1:AA:2312:U:O4'	7:AG:43:LEU:HD13	2.12	0.49
7:AG:96:ARG:O	7:AG:99:MET:CB	2.54	0.49
1:AA:2745:C:HO2'	8:AH:143:GLN:HG3	1.78	0.49
8:AH:69:ARG:CG	8:AH:69:ARG:NH2	2.74	0.49
8:AH:76:VAL:O	8:AH:78:GLY:N	2.46	0.49
32:AJ:115:LEU:HD22	32:AJ:116:ASN:H	1.78	0.49
1:AA:557:U:O3'	9:AK:112:LEU:CD2	2.61	0.49
9:AK:96:GLU:HG2	9:AK:97:ARG:HD3	1.94	0.49
10:AL:57:VAL:CG2	10:AL:58:VAL:N	2.72	0.49
10:AL:77:ILE:HG21	15:AQ:65:LYS:CE	2.29	0.49
11:AM:80:TYR:CE2	11:AM:85:LEU:HD22	2.46	0.49
12:AN:112:GLU:HA	12:AN:115:MET:HB2	1.95	0.49
13:AO:58:GLY:CA	13:AO:80:PHE:CZ	2.94	0.49
5:AE:8:LYS:HG3	15:AQ:6:LEU:HD11	1.92	0.49
19:AU:88:LYS:O	19:AU:89:ILE:HB	2.12	0.49
20:AV:52:SER:O	20:AV:53:PRO:C	2.48	0.49
12:AN:61:GLY:HA2	21:AW:178:GLU:HG3	1.94	0.49
21:AW:25:PRO:HG2	21:AW:84:GLU:O	2.12	0.49
22:AX:54:GLY:C	22:AX:56:ASP:N	2.66	0.49
34:BA:1053:G:C2	34:BA:1199:U:C4	3.01	0.49
34:BA:1068:G:O2'	34:BA:1069:C:C5'	2.55	0.49
34:BA:1215:G:H2'	34:BA:1215:G:N3	2.28	0.49
34:BA:1284:C:C6	34:BA:1285:A:N7	2.81	0.49
34:BA:1299:A:N7	34:BA:1301:U:N1	2.61	0.49
34:BA:1313:U:C4	34:BA:1325:C:N3	2.80	0.49
34:BA:1338:G:C2	34:BA:1339:A:C5	3.01	0.49
34:BA:1340:A:H2'	34:BA:1341:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1388:C:O2'	34:BA:1389:C:H5'	2.13	0.49
34:BA:152:A:C8	34:BA:152:A:H3'	2.46	0.49
34:BA:264:U:O2	34:BA:265:G:O4'	2.31	0.49
34:BA:295:C:N4	34:BA:303:A:C2	2.80	0.49
34:BA:465:A:H61	49:BT:82:GLN:HE22	1.58	0.49
34:BA:850:U:C2	34:BA:851:G:N7	2.80	0.49
34:BA:986:A:C1'	52:BW:55:LYS:HG2	2.42	0.49
56:BE:72:C:C3'	56:BE:73:A:C5'	2.91	0.49
35:BF:60:ASP:CB	35:BF:64:ARG:NH1	2.74	0.49
36:BG:110:ASN:ND2	36:BG:144:SER:OG	2.46	0.49
36:BG:176:HIS:O	36:BG:178:LEU:N	2.46	0.49
36:BG:28:GLN:C	36:BG:30:ARG:HD3	2.33	0.49
36:BG:66:VAL:HB	36:BG:99:VAL:HG21	1.95	0.49
36:BG:8:ILE:HG13	36:BG:16:ARG:HD2	1.95	0.49
37:BH:80:GLU:O	37:BH:81:GLU:C	2.51	0.49
38:BI:91:LEU:HD12	38:BI:118:ILE:HG23	1.94	0.49
38:BI:149:GLU:O	38:BI:150:ARG:C	2.51	0.49
39:BJ:1:MET:HB3	39:BJ:67:MET:O	2.12	0.49
40:BK:79:ARG:NE	40:BK:84:ASN:HB3	2.27	0.49
41:BL:126:LYS:HZ1	41:BL:127:LEU:HD23	1.75	0.49
41:BL:14:ARG:CA	41:BL:17:THR:OG1	2.54	0.49
41:BL:46:LYS:HZ2	41:BL:64:LYS:CA	2.18	0.49
41:BL:84:ARG:O	41:BL:135:CYS:SG	2.69	0.49
41:BL:89:PRO:HA	41:BL:92:ARG:NE	2.28	0.49
42:BM:47:LEU:O	42:BM:50:LEU:HB3	2.13	0.49
42:BM:78:LYS:HD3	42:BM:79:LEU:CD2	2.41	0.49
44:BO:73:MET:CG	44:BO:103:LEU:HD13	2.37	0.49
44:BO:114:VAL:CG2	44:BO:115:PRO:N	2.74	0.49
46:BQ:14:ARG:HH21	46:BQ:42:ALA:CB	2.24	0.49
46:BQ:90:LEU:HD21	46:BQ:93:ARG:CZ	2.43	0.49
46:BQ:97:PRO:CG	46:BQ:101:GLN:HB2	2.42	0.49
47:BR:13:THR:C	47:BR:15:LYS:N	2.66	0.49
47:BR:26:ARG:HB3	47:BR:43:CYS:CB	2.43	0.49
48:BS:53:HIS:O	48:BS:57:LEU:CD1	2.56	0.49
50:BU:88:TYR:HA	50:BU:91:ARG:HE	1.77	0.49
51:BV:25:THR:HG22	51:BV:42:ARG:NE	2.28	0.49
51:BV:74:ARG:CA	51:BV:79:LEU:HD21	2.42	0.49
52:BW:33:THR:OG1	52:BW:49:ILE:HD12	2.12	0.49
52:BW:19:VAL:HG22	52:BW:43:GLU:OE2	2.12	0.49
52:BW:29:ARG:HG2	52:BW:48:THR:CB	2.42	0.49
53:BX:59:ALA:O	53:BX:61:SER:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:229:GLY:O	57:BZ:266:ASP:O	2.31	0.49
57:BZ:491:ASN:OD1	57:BZ:536:ASN:OD1	2.31	0.49
1:AA:888:C:C2	1:AA:889:C:N3	2.81	0.49
1:AA:1510:A:C5'	1:AA:1511:A:OP2	2.60	0.49
45:BP:126:LYS:NZ	45:BP:128:ALA:N	2.57	0.49
57:BZ:476:ARG:HD3	57:BZ:477:PRO:N	2.28	0.49
1:AA:1058:G:H1'	32:AJ:116:ASN:CB	2.42	0.49
1:AA:1109:C:H2'	1:AA:1110:G:C1'	2.43	0.49
1:AA:1143:A:O2'	1:AA:1144:G:C5'	2.61	0.49
1:AA:1154:G:O2'	1:AA:1155:A:C5'	2.61	0.49
1:AA:1157:G:OP2	1:AA:1158:C:OP2	2.30	0.49
1:AA:1175:U:H3'	1:AA:1176:G:O4'	2.13	0.49
1:AA:1223:C:C5	1:AA:1227:A:N1	2.80	0.49
1:AA:1238:G:C2	1:AA:1239:G:N9	2.81	0.49
1:AA:1256:G:O2'	1:AA:1257:C:H5'	2.13	0.49
1:AA:1257:C:H2'	1:AA:1258:C:C6	2.48	0.49
1:AA:1314:C:O5'	1:AA:1314:C:C6	2.65	0.49
1:AA:1364:G:C8	1:AA:1364:G:P	3.06	0.49
1:AA:1500:G:O2'	1:AA:1501:C:H5'	2.12	0.49
1:AA:1471:A:N7	1:AA:1519:G:C6	2.81	0.49
1:AA:1595:G:N2	1:AA:1596:A:H1'	2.27	0.49
1:AA:1657:C:OP1	5:AE:136:ARG:O	2.30	0.49
1:AA:1729:A:H5''	1:AA:1730:U:C5	2.47	0.49
1:AA:1753:G:C8	1:AA:1753:G:C3'	2.95	0.49
1:AA:1801:G:H8	1:AA:1801:G:OP1	1.96	0.49
1:AA:1816:G:O3'	1:AA:1817:G:H8	1.96	0.49
1:AA:1893:C:C2'	1:AA:1894:C:H5'	2.43	0.49
1:AA:1924:C:N1	1:AA:1925:C:H5	2.10	0.49
1:AA:1937:A:N7	1:AA:1939:U:C4	2.81	0.49
1:AA:2024:G:C4	1:AA:2025:C:C6	3.01	0.49
1:AA:2114:A:H61	1:AA:2170:A:H61	1.59	0.49
1:AA:2265:U:C2'	1:AA:2266:A:OP1	2.60	0.49
1:AA:2358:G:N2	1:AA:2359:C:C1'	2.75	0.49
1:AA:2405:G:C2'	1:AA:2406:U:OP2	2.60	0.49
1:AA:245:G:C5	1:AA:246:C:C5	2.96	0.49
1:AA:2469:A:H2'	1:AA:2470:G:H5'	1.95	0.49
1:AA:2486:G:N2	1:AA:2487:G:C4	2.81	0.49
1:AA:2507:C:C4	1:AA:2508:G:N7	2.80	0.49
1:AA:2638:G:O2'	1:AA:2639:A:C8	2.65	0.49
1:AA:2532:G:C2'	1:AA:2664:G:O2'	2.59	0.49
1:AA:2707:G:H2'	1:AA:2708:G:O5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2752:C:N3	1:AA:2753:A:C8	2.81	0.49
1:AA:2787:C:H2'	1:AA:2788:C:C5	2.48	0.49
1:AA:279:C:H2'	1:AA:280:C:C5	2.48	0.49
1:AA:2841:C:O2	1:AA:2842:G:C8	2.66	0.49
1:AA:2866:U:O2	1:AA:2868:A:C1'	2.61	0.49
1:AA:493:G:C2	1:AA:494:G:N9	2.81	0.49
1:AA:583:G:C2'	1:AA:584:C:O5'	2.61	0.49
1:AA:870:A:H2'	1:AA:871:U:O4'	2.13	0.49
1:AA:897:C:C3'	1:AA:898:C:H5	2.25	0.49
1:AA:917:A:C3'	1:AA:918:A:C5'	2.79	0.49
1:AA:947:G:C2	1:AA:948:G:C8	3.01	0.49
3:AC:102:LYS:HZ1	3:AC:107:TRP:HB2	1.77	0.49
4:AD:166:GLN:O	4:AD:167:GLY:O	2.31	0.49
4:AD:177:LEU:HD23	4:AD:177:LEU:N	2.23	0.49
4:AD:172:TYR:CD2	4:AD:186:HIS:N	2.80	0.49
4:AD:40:THR:HG21	4:AD:43:ARG:HE	1.77	0.49
4:AD:46:GLN:HE22	4:AD:51:VAL:HG23	1.78	0.49
4:AD:46:GLN:O	4:AD:47:GLY:C	2.50	0.49
4:AD:53:PHE:C	4:AD:54:ARG:O	2.50	0.49
4:AD:85:ASP:HB2	4:AD:87:ASN:ND2	2.23	0.49
5:AE:103:ASP:C	5:AE:104:VAL:CG2	2.81	0.49
1:AA:2680:C:H4'	5:AE:188:VAL:HB	1.95	0.49
1:AA:247:G:N1	5:AE:8:LYS:HD2	120.53	0.49
5:AE:93:VAL:O	5:AE:94:GLU:HG2	2.13	0.49
6:AF:136:THR:O	6:AF:139:PHE:HB3	2.13	0.49
6:AF:201:VAL:HG12	6:AF:205:ARG:HH21	1.73	0.49
6:AF:34:TRP:O	6:AF:38:ARG:HD2	2.13	0.49
8:AH:33:LEU:HD22	8:AH:75:ALA:HB2	1.94	0.49
1:AA:1137:G:O2'	9:AK:102:ALA:HA	2.13	0.49
9:AK:30:ILE:C	9:AK:33:LEU:HB3	2.33	0.49
9:AK:55:VAL:O	9:AK:56:ASN:C	2.50	0.49
10:AL:68:GLU:CA	10:AL:104:ARG:NH1	2.65	0.49
10:AL:39:ILE:CA	10:AL:59:LYS:HZ1	2.25	0.49
10:AL:64:ARG:CZ	10:AL:67:LYS:N	2.76	0.49
10:AL:69:VAL:H	10:AL:104:ARG:HH22	1.58	0.49
11:AM:126:VAL:HB	11:AM:146:VAL:CB	2.43	0.49
1:AA:832:G:OP1	11:AM:36:LYS:CE	2.61	0.49
12:AN:44:ALA:O	12:AN:48:GLU:OE2	2.31	0.49
13:AO:10:LEU:CB	13:AO:17:ARG:NH1	2.76	0.49
13:AO:14:SER:CA	13:AO:17:ARG:HG2	2.42	0.49
13:AO:39:PRO:HA	13:AO:42:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:61:HIS:CE1	13:AO:64:ARG:NH2	2.81	0.49
14:AP:30:ARG:HD2	14:AP:91:PRO:CG	2.42	0.49
15:AQ:21:GLU:O	15:AQ:23:ARG:CD	2.53	0.49
15:AQ:24:PRO:CG	15:AQ:25:GLY:N	2.73	0.49
15:AQ:67:SER:HA	15:AQ:75:ILE:HG22	1.95	0.49
17:AS:60:GLU:OE1	17:AS:101:GLY:CA	2.60	0.49
17:AS:72:VAL:HG12	17:AS:73:SER:N	2.26	0.49
20:AV:32:PRO:HB2	20:AV:34:LYS:CD	2.43	0.49
20:AV:97:ARG:CZ	20:AV:101:LYS:CG	2.90	0.49
21:AW:129:SER:CB	21:AW:133:ILE:HG22	2.36	0.49
21:AW:171:ILE:HG23	21:AW:172:ALA:N	2.28	0.49
22:AX:46:LYS:CG	22:AX:78:TYR:CD2	2.96	0.49
23:AY:12:SER:N	23:AY:15:GLU:OE1	2.45	0.49
2:AB:83:G:H5'	24:AZ:52:HIS:CE1	2.48	0.49
34:BA:1045:C:C2'	34:BA:1046:A:H8	2.19	0.49
34:BA:1080:A:N7	34:BA:1081:G:H1'	2.28	0.49
34:BA:1085:U:O2	34:BA:1094:G:C6	2.66	0.49
34:BA:1285:A:C4'	34:BA:1286:A:C8	2.95	0.49
34:BA:251:G:C5'	34:BA:252:U:OP1	2.61	0.49
34:BA:294:U:H2'	34:BA:295:C:C6	2.48	0.49
34:BA:325:A:H2'	34:BA:326:G:O5'	2.13	0.49
34:BA:442:C:O2	34:BA:442:C:C2'	2.61	0.49
34:BA:593:G:H2'	34:BA:594:G:O4'	2.13	0.49
34:BA:686:U:C4'	34:BA:686:U:OP1	2.60	0.49
34:BA:714:G:O2'	34:BA:777:A:N6	2.46	0.49
34:BA:723:U:O2	34:BA:723:U:H2'	2.12	0.49
34:BA:826:C:C2	34:BA:827:U:C5	3.01	0.49
34:BA:874:G:C2	34:BA:875:C:C6	3.00	0.49
34:BA:888:G:H3'	34:BA:889:A:H8	1.78	0.49
34:BA:1229:A:O3'	56:BE:30:G:OP1	2.30	0.49
56:BE:4:C:O2	56:BE:6:G:C8	2.62	0.49
35:BF:169:LYS:HE2	35:BF:170:GLU:HA	1.95	0.49
35:BF:35:GLU:HG2	35:BF:39:ILE:C	2.33	0.49
35:BF:76:GLN:O	35:BF:211:ILE:CD1	2.61	0.49
36:BG:46:GLU:HB3	36:BG:47:LEU:CD2	2.38	0.49
36:BG:6:HIS:O	36:BG:8:ILE:N	2.45	0.49
37:BH:128:VAL:HG21	37:BH:133:VAL:HG23	1.94	0.49
37:BH:148:VAL:HG13	37:BH:152:SER:OG	2.13	0.49
39:BJ:53:ALA:O	39:BJ:55:ASP:OD1	2.31	0.49
39:BJ:86:ARG:O	39:BJ:87:ARG:HG2	2.12	0.49
40:BK:106:GLN:O	40:BK:109:ASN:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:17:VAL:HG13	40:BK:17:VAL:O	2.12	0.49
40:BK:57:GLU:HB3	40:BK:58:PRO:HD2	1.94	0.49
40:BK:71:PRO:C	40:BK:96:GLN:HE21	2.16	0.49
41:BL:119:LEU:HB3	41:BL:123:GLU:CD	2.31	0.49
41:BL:36:LEU:HD12	41:BL:48:TYR:CD1	2.48	0.49
41:BL:44:PHE:O	41:BL:64:LYS:HD2	2.12	0.49
41:BL:96:GLY:O	41:BL:97:VAL:C	2.51	0.49
34:BA:1152:A:P	43:BN:13:HIS:NE2	2.82	0.49
34:BA:972:C:P	43:BN:57:LYS:NZ	2.86	0.49
44:BO:79:SER:HA	44:BO:104:GLN:HE21	1.76	0.49
44:BO:85:ARG:NE	44:BO:113:PRO:HD3	2.28	0.49
34:BA:684:A:O2'	44:BO:39:PRO:O	2.30	0.49
45:BP:33:ARG:HG2	45:BP:60:LEU:CD2	2.43	0.49
45:BP:59:ARG:HE	45:BP:65:GLU:CG	2.26	0.49
47:BR:35:ARG:C	47:BR:37:PHE:N	2.67	0.49
47:BR:51:GLY:C	47:BR:53:LEU:N	2.62	0.49
34:BA:580:U:C4'	48:BS:58:MET:HG2	2.42	0.49
48:BS:63:ARG:NH2	48:BS:87:ILE:HD13	2.26	0.49
49:BT:21:VAL:HG22	49:BT:36:ILE:HD13	1.95	0.49
49:BT:74:LEU:HD22	49:BT:79:VAL:CG2	2.42	0.49
50:BU:20:THR:O	50:BU:21:VAL:HG13	2.13	0.49
50:BU:28:PRO:CB	50:BU:33:GLY:O	2.59	0.49
51:BV:46:GLU:N	51:BV:49:LYS:HZ1	2.07	0.49
34:BA:1455:G:H3'	53:BX:31:SER:OG	2.00	0.49
53:BX:45:GLN:NE2	53:BX:91:LEU:HB3	2.28	0.49
57:BZ:93:ASP:HA	57:BZ:121:LEU:HD22	1.95	0.49
57:BZ:128:ASN:C	57:BZ:130:VAL:H	2.14	0.49
57:BZ:137:PRO:CB	57:BZ:164:TYR:CE2	2.94	0.49
57:BZ:204:PRO:O	57:BZ:229:GLY:HA3	2.13	0.49
57:BZ:253:LYS:CG	57:BZ:262:ARG:HG3	2.43	0.49
57:BZ:55:THR:CA	57:BZ:56:ILE:HD12	2.42	0.49
57:BZ:580:VAL:CB	57:BZ:585:ILE:CD1	2.91	0.49
57:BZ:6:ARG:NE	57:BZ:195:PRO:C	2.66	0.49
57:BZ:95:VAL:O	57:BZ:124:ILE:N	2.46	0.49
1:AA:884:C:C1'	1:AA:885:C:P	3.00	0.49
57:BZ:32:PHE:CG	57:BZ:33:ASP:N	2.80	0.49
32:AJ:64:SER:CB	32:AJ:65:PHE:CB	2.86	0.49
57:BZ:601:ASN:HA	57:BZ:602:ARG:C	2.23	0.49
55:BC:12:U:H2'	55:BC:13:C:O4'	2.13	0.49
1:AA:1563:G:C4	1:AA:1564:C:C5	3.00	0.49
1:AA:1563:G:C6	1:AA:1564:C:N4	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1025:G:H8	1:AA:1134:G:H1'	1.78	0.49
1:AA:1027:A:C6	1:AA:1126:A:N3	2.81	0.49
1:AA:1176:G:H8	1:AA:1177:A:O4'	1.95	0.49
1:AA:974:G:H1'	1:AA:1186:G:C5	2.48	0.49
1:AA:1235:G:C2	1:AA:1236:G:N2	2.80	0.49
1:AA:1240:U:O2	1:AA:1240:U:C2'	2.61	0.49
1:AA:749:C:H4'	1:AA:1271:G:N3	2.28	0.49
1:AA:187:G:C2'	1:AA:1365:A:C2	2.95	0.49
1:AA:1479:G:N2	1:AA:1515:C:N3	2.61	0.49
1:AA:1529:A:H3'	1:AA:1530:G:C8	2.46	0.49
1:AA:1539:G:N7	1:AA:1540:G:C8	2.81	0.49
1:AA:751:A:OP1	1:AA:1614:A:OP1	2.30	0.49
1:AA:1324:G:C1'	1:AA:1616:A:H62	2.24	0.49
1:AA:1633:G:C5	1:AA:1635:G:N1	2.81	0.49
1:AA:1636:C:C1'	1:AA:1761:C:H1'	2.41	0.49
1:AA:1903:G:C2'	1:AA:1904:G:H8	2.11	0.49
1:AA:2075:U:O2	1:AA:2076:U:O5'	2.31	0.49
1:AA:2115:G:H1	1:AA:2118:U:H5''	1.77	0.49
1:AA:2169:A:N3	1:AA:2169:A:H2'	2.28	0.49
1:AA:2343:C:O2	1:AA:2344:U:C6	2.65	0.49
1:AA:2358:G:C2	1:AA:2359:C:C6	3.01	0.49
1:AA:2373:G:C5	1:AA:2374:C:N4	2.81	0.49
1:AA:2377:A:N3	1:AA:2378:A:C8	2.81	0.49
1:AA:2377:A:C2	1:AA:2378:A:N7	2.81	0.49
1:AA:245:G:C6	1:AA:246:C:N4	2.80	0.49
1:AA:2508:G:H5'	56:BD:75:C:N4	2.28	0.49
1:AA:2520:C:C2	1:AA:2521:C:C5	3.01	0.49
1:AA:2520:C:H2'	1:AA:2521:C:C6	2.48	0.49
1:AA:245:G:H21	1:AA:254:G:H1'	1.75	0.49
1:AA:2553:G:C2	1:AA:2554:U:H1'	2.39	0.49
1:AA:2560:C:H2'	1:AA:2561:A:H5'	1.95	0.49
1:AA:2576:G:O2'	1:AA:2612:C:N4	2.46	0.49
1:AA:2632:A:C6	1:AA:2787:C:N4	2.81	0.49
1:AA:270(K):C:H3'	1:AA:270(L):U:C6	2.45	0.49
1:AA:2720:U:C3'	1:AA:2721:A:C8	2.96	0.49
1:AA:2734:A:H3'	1:AA:2735:G:O4'	2.13	0.49
1:AA:2745:C:C4	1:AA:2746:U:C5	3.00	0.49
1:AA:2773:C:OP1	5:AE:164:ARG:NH2	2.46	0.49
1:AA:30:G:OP1	16:AR:8:VAL:CG1	2.61	0.49
1:AA:348:G:C2	1:AA:349:G:N7	2.81	0.49
1:AA:387:U:H2'	1:AA:387:U:O2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:393:C:C2'	1:AA:394:A:H5'	2.43	0.49
1:AA:447:A:HO2'	1:AA:448:U:C5'	2.25	0.49
1:AA:468:G:C8	1:AA:469:G:C8	3.01	0.49
1:AA:483:A:H2'	1:AA:484:C:H5'	1.95	0.49
1:AA:476:G:O4'	1:AA:505:A:C2	2.65	0.49
1:AA:556:G:P	1:AA:556:G:H8	2.35	0.49
1:AA:585:G:O2'	1:AA:586:A:C8	2.57	0.49
1:AA:5:A:C2	1:AA:2899:G:N9	2.80	0.49
1:AA:260:G:O4'	1:AA:621:A:O4'	2.31	0.49
1:AA:629:G:N2	1:AA:635:C:C2	2.81	0.49
1:AA:671:C:N4	1:AA:672:C:H41	2.11	0.49
1:AA:715:G:C2'	1:AA:716:A:O5'	2.61	0.49
1:AA:776:G:N3	1:AA:793:A:C6	2.81	0.49
1:AA:800:A:N9	1:AA:802:A:H5'	2.27	0.49
1:AA:814:C:H2'	1:AA:815:C:H6	1.77	0.49
1:AA:92:G:O2'	1:AA:93:C:H5'	2.13	0.49
2:AB:83:G:H5'	24:AZ:52:HIS:NE2	2.27	0.49
2:AB:86:G:C2	2:AB:91:C:C2	3.01	0.49
3:AC:211:SER:HA	3:AC:223:ARG:HE	1.78	0.49
3:AC:213:TYR:HB3	3:AC:223:ARG:CA	2.23	0.49
1:AA:764:A:OP1	4:AD:211:ARG:HB3	2.12	0.49
4:AD:63:ARG:CG	4:AD:65:ILE:HG12	2.43	0.49
5:AE:104:VAL:HG22	5:AE:198:VAL:HA	1.95	0.49
5:AE:55:ASN:HA	5:AE:58:ARG:HH22	1.78	0.49
5:AE:60:ASN:O	5:AE:63:LEU:N	2.46	0.49
6:AF:119:ARG:CZ	6:AF:119:ARG:HB2	2.40	0.49
6:AF:123:LEU:HB2	6:AF:193:VAL:HA	1.95	0.49
6:AF:110:LEU:HG	6:AF:183:VAL:N	2.28	0.49
6:AF:23:ASP:O	6:AF:24:LEU:HD23	2.13	0.49
6:AF:31:HIS:ND1	11:AM:11:GLY:CA	2.72	0.49
32:AJ:12:LEU:CB	32:AJ:13:PRO:CD	2.90	0.49
9:AK:99:LEU:HD12	9:AK:100:GLU:HA	1.95	0.49
9:AK:42:TRP:C	9:AK:43:THR:OG1	2.51	0.49
9:AK:74:ARG:HG2	9:AK:76:SER:CB	2.43	0.49
9:AK:95:PRO:HG2	9:AK:124:ALA:HB2	1.94	0.49
10:AL:16:ALA:C	10:AL:18:LYS:N	2.57	0.49
11:AM:76:LYS:HB3	11:AM:113:LYS:O	2.13	0.49
12:AN:16:ARG:N	12:AN:16:ARG:HD3	2.28	0.49
12:AN:25:ASP:HB3	12:AN:102:VAL:CG1	2.35	0.49
12:AN:80:GLU:O	12:AN:81:VAL:O	2.31	0.49
14:AP:103:GLU:C	14:AP:106:ARG:HB3	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:17:THR:CB	15:AQ:20:PRO:CD	2.85	0.49
15:AQ:30:VAL:CG2	15:AQ:32:TYR:HE2	2.24	0.49
16:AR:105:VAL:HG13	16:AR:106:PHE:N	2.27	0.49
17:AS:73:SER:HG	17:AS:89:GLN:CB	2.22	0.49
18:AT:33:ARG:O	18:AT:34:ASN:C	2.51	0.49
19:AU:36:LYS:HB2	19:AU:36:LYS:NZ	2.28	0.49
22:AX:21:LEU:CG	22:AX:22:GLY:H	2.21	0.49
19:AU:7:VAL:HG23	23:AY:28:MET:CE	2.43	0.49
24:AZ:23:LEU:HA	24:AZ:26:LEU:CD2	2.43	0.49
34:BA:1065:U:O2'	34:BA:1066:C:P	2.71	0.49
34:BA:1084:G:H2'	34:BA:1085:U:H6	1.77	0.49
34:BA:1269:A:H2'	34:BA:1270:C:C4'	2.09	0.49
34:BA:1284:C:N1	34:BA:1285:A:N7	2.61	0.49
34:BA:1305:G:O4'	34:BA:1305:G:P	2.71	0.49
34:BA:1347:G:H22	34:BA:1373:G:H3'	1.78	0.49
34:BA:1371:G:O2'	34:BA:1372:U:H5'	2.13	0.49
34:BA:136:C:H2'	34:BA:137:C:H6	1.77	0.49
34:BA:1469:G:N2	34:BA:1470:G:C4	2.81	0.49
34:BA:1524:C:H5''	44:BO:120:ARG:HH22	1.78	0.49
34:BA:166:G:H2'	34:BA:167:G:O5'	2.13	0.49
34:BA:16:A:O4'	38:BI:17:ALA:HB3	2.12	0.49
34:BA:186(A):C:N4	34:BA:191:G:C6	2.80	0.49
34:BA:198:G:C2'	34:BA:199:G:O5'	2.61	0.49
34:BA:262:A:C5	34:BA:263:A:N6	2.81	0.49
34:BA:293:G:C8	34:BA:293:G:OP2	2.66	0.49
34:BA:375:U:C2'	34:BA:376:G:H5'	2.43	0.49
34:BA:41:G:C4	34:BA:42:G:N7	2.81	0.49
34:BA:430:A:N7	34:BA:431:A:N7	2.60	0.49
34:BA:451:A:OP1	34:BA:481:G:N2	2.40	0.49
34:BA:50:A:C2	34:BA:360:A:O2'	2.64	0.49
34:BA:818:G:N2	34:BA:820:U:C5	2.81	0.49
56:BE:5:G:C5'	56:BE:6:G:N2	2.76	0.49
35:BF:178:ARG:O	41:BL:71:GLY:O	2.30	0.49
35:BF:91:PRO:CG	35:BF:155:LEU:HD23	2.42	0.49
35:BF:78:GLN:NE2	35:BF:96:ARG:NH1	2.57	0.49
36:BG:124:ILE:HG23	36:BG:130:VAL:CG2	2.43	0.49
36:BG:110:ASN:CG	36:BG:144:SER:OG	2.51	0.49
36:BG:179:ARG:HG2	36:BG:206:GLU:OE1	2.13	0.49
36:BG:28:GLN:HA	36:BG:30:ARG:NH1	2.27	0.49
37:BH:127:THR:O	37:BH:146:ILE:CG2	2.59	0.49
38:BI:145:LYS:O	38:BI:148:VAL:CB	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:40:ARG:CA	38:BI:68:GLU:OE1	2.61	0.49
40:BK:15:ASP:OD2	40:BK:23:VAL:HG11	2.12	0.49
40:BK:27:ILE:HG12	40:BK:43:PHE:CG	2.48	0.49
40:BK:70:LYS:O	40:BK:138:LYS:CE	2.61	0.49
42:BM:2:GLU:O	42:BM:21:PRO:HD2	2.13	0.49
42:BM:97:LYS:HZ2	42:BM:102:LEU:HD22	1.77	0.49
43:BN:43:ARG:O	43:BN:66:ARG:CB	2.47	0.49
44:BO:120:ARG:HE	44:BO:126:ARG:HH21	1.60	0.49
44:BO:18:ARG:HD3	44:BO:18:ARG:N	2.28	0.49
44:BO:42:TRP:CE3	44:BO:43:SER:N	2.81	0.49
34:BA:552:U:H4'	45:BP:87:GLY:O	2.13	0.49
46:BQ:64:TRP:CH2	46:BQ:66:LEU:HD13	2.48	0.49
46:BQ:5:ALA:CB	46:BQ:67:GLU:OE1	2.61	0.49
47:BR:22:THR:HG22	47:BR:33:VAL:HG23	1.94	0.49
48:BS:55:GLY:O	48:BS:56:LEU:C	2.51	0.49
48:BS:62:GLN:N	48:BS:65:ARG:HH12	2.10	0.49
49:BT:14:ASN:CA	49:BT:42:ARG:NH2	2.76	0.49
50:BU:32:TYR:O	50:BU:34:LYS:N	2.46	0.49
57:BZ:102:PHE:HA	57:BZ:135:ALA:CB	2.42	0.49
57:BZ:250:LYS:C	57:BZ:273:ILE:HD11	2.27	0.49
57:BZ:231:VAL:N	57:BZ:265:THR:O	2.41	0.49
57:BZ:309:MET:CE	57:BZ:370:ILE:HD11	2.43	0.49
56:BD:67:C:O5'	56:BD:67:C:H6	1.96	0.49
57:BZ:514:HIS:HA	57:BZ:516:ALA:N	2.27	0.49
1:AA:1578:U:O2'	1:AA:1579:A:H5'	2.13	0.49
1:AA:1767:C:C2	1:AA:1768:U:C6	3.00	0.49
1:AA:1095:A:N7	1:AA:1097:U:O4	2.45	0.48
1:AA:1022:G:C5	1:AA:1139:G:N1	2.81	0.48
1:AA:1196:C:H2'	1:AA:1197:G:C1'	2.42	0.48
1:AA:1267:U:H3'	1:AA:1267:U:C6	2.47	0.48
1:AA:1304:C:C4	1:AA:1305:C:C5	3.01	0.48
1:AA:1638:C:H4'	1:AA:2710:C:H1'	1.94	0.48
1:AA:1655:A:H5''	5:AE:114:ALA:CA	2.42	0.48
1:AA:1678:G:H8	1:AA:1678:G:O5'	1.97	0.48
1:AA:1747:G:C2	1:AA:1748:G:C8	3.01	0.48
1:AA:1747:G:H2'	1:AA:1748:G:H8	1.77	0.48
1:AA:1815:A:N3	1:AA:1817:G:C6	2.81	0.48
1:AA:1942:C:C5	1:AA:1943:U:C4	3.00	0.48
1:AA:1936:A:C4	1:AA:1945:G:C5	3.00	0.48
1:AA:1996:C:C2'	1:AA:1997:G:H4'	2.38	0.48
1:AA:2021:C:OP1	1:AA:2021:C:O4'	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2056:G:O5'	1:AA:2057:A:P	2.71	0.48
1:AA:2076:U:H2'	1:AA:2076:U:O2	2.12	0.48
1:AA:2349:G:C4	1:AA:2369:A:C2	3.01	0.48
1:AA:249:C:C5	1:AA:2395:C:OP1	2.66	0.48
1:AA:411:G:O4'	1:AA:2407:G:OP2	2.31	0.48
1:AA:2415:G:C2	1:AA:2416:C:C2	3.00	0.48
1:AA:2416:C:OP1	11:AM:59:LEU:C	2.52	0.48
1:AA:2418:A:C2	1:AA:2419:U:C2	3.00	0.48
1:AA:2078:C:H4'	1:AA:2433:A:O2'	2.12	0.48
1:AA:250:G:C2'	1:AA:251:A:O5'	2.61	0.48
1:AA:239:U:C1'	1:AA:259:G:N2	2.67	0.48
1:AA:24:G:C4	1:AA:25:U:C5	3.01	0.48
1:AA:2014:A:H2	1:AA:2613:U:C2	2.29	0.48
1:AA:2626:C:C2'	1:AA:2627:G:O4'	2.61	0.48
1:AA:2656:U:C2'	1:AA:2657:A:H5''	2.40	0.48
1:AA:2827:C:H2'	1:AA:2828:C:C5'	2.43	0.48
1:AA:2872:G:C2	1:AA:2873:A:C6	3.00	0.48
1:AA:3:U:O5'	1:AA:3:U:H6	1.96	0.48
1:AA:415:A:C2	1:AA:416:C:H1'	2.47	0.48
1:AA:532:A:OP1	1:AA:532:A:C4'	2.57	0.48
1:AA:588:U:O4'	6:AF:90:PHE:CD1	2.66	0.48
1:AA:604:G:O2'	1:AA:605:C:O5'	2.31	0.48
1:AA:642:G:C3'	1:AA:642:G:C8	2.96	0.48
1:AA:678:C:C2	1:AA:679:C:C6	3.00	0.48
1:AA:684:G:N1	1:AA:775:G:C5	2.81	0.48
1:AA:700:G:C6	1:AA:701:G:N7	2.80	0.48
1:AA:746:A:O2'	1:AA:747:U:OP1	2.30	0.48
1:AA:800:A:O2'	1:AA:801:G:O5'	2.31	0.48
1:AA:868:U:C4	1:AA:869:G:N7	2.80	0.48
1:AA:917:A:C8	1:AA:918:A:H5'	2.48	0.48
1:AA:917:A:N6	1:AA:918:A:N1	2.60	0.48
1:AA:980:A:N3	1:AA:2037:G:O2'	2.42	0.48
2:AB:100:G:H2'	2:AB:101:A:O4'	2.13	0.48
2:AB:15:A:C5'	2:AB:16:G:O5'	2.61	0.48
1:AA:1825:A:O2'	4:AD:252:TRP:CZ3	2.64	0.48
5:AE:108:SER:OG	5:AE:163:GLU:O	2.31	0.48
5:AE:37:ARG:O	5:AE:39:PRO:CD	2.60	0.48
5:AE:55:ASN:HA	5:AE:58:ARG:NH2	2.28	0.48
6:AF:103:LYS:HA	6:AF:106:ARG:CD	2.42	0.48
6:AF:33:LEU:HD23	6:AF:112:MET:SD	2.52	0.48
6:AF:52:LYS:NZ	6:AF:88:VAL:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:111:LEU:HD23	7:AG:178:PHE:HD2	1.77	0.48
7:AG:35:GLU:HG2	7:AG:36:LYS:N	2.28	0.48
7:AG:9:ARG:HH11	7:AG:9:ARG:CG	2.25	0.48
1:AA:1046:A:C2	31:AI:11:ALA:HB3	2.47	0.48
32:AJ:37:PHE:CZ	32:AJ:63:ARG:NE	2.79	0.48
32:AJ:79:ARG:NH1	32:AJ:84:LEU:CD2	2.49	0.48
10:AL:78:ARG:H	10:AL:78:ARG:HD2	1.78	0.48
11:AM:97:PRO:HD3	11:AM:102:ARG:NH1	2.28	0.48
11:AM:123:LEU:HD12	11:AM:130:PHE:CZ	2.48	0.48
12:AN:16:ARG:O	12:AN:17:LEU:HD12	2.12	0.48
13:AO:67:LEU:HD22	13:AO:67:LEU:O	2.13	0.48
15:AQ:76:PHE:CZ	15:AQ:78:LEU:CD1	2.94	0.48
16:AR:99:ALA:HB2	16:AR:106:PHE:CD1	2.48	0.48
17:AS:52:VAL:O	17:AS:55:ALA:N	2.46	0.48
19:AU:73:ARG:HH22	19:AU:74:PRO:C	2.16	0.48
21:AW:18:LEU:HB3	21:AW:23:LYS:C	2.32	0.48
21:AW:60:GLU:HG3	21:AW:69:THR:HG22	1.95	0.48
12:AN:85:LYS:HZ1	22:AX:10:THR:HG21	1.77	0.48
22:AX:44:ARG:O	22:AX:77:ARG:HG3	2.13	0.48
22:AX:53:MET:HE3	22:AX:58:THR:C	2.33	0.48
24:AZ:50:VAL:HG13	24:AZ:53:LEU:CB	2.42	0.48
34:BA:1110:A:C2'	34:BA:1111:A:H5'	2.31	0.48
34:BA:1213:A:C5	34:BA:1215:G:C6	3.01	0.48
34:BA:1274:G:H21	34:BA:1275:A:H62	1.59	0.48
34:BA:1309:G:H21	34:BA:1328:C:C2'	2.22	0.48
34:BA:136:C:C1'	49:BT:1:MET:HE1	2.43	0.48
34:BA:1400:C:C6	34:BA:1400:C:OP1	2.66	0.48
34:BA:1480:G:H2'	34:BA:1481:U:C5'	2.43	0.48
34:BA:156:G:C6	34:BA:157:G:N7	2.80	0.48
34:BA:366:C:HO2'	34:BA:367:U:P	2.36	0.48
34:BA:423:G:N2	34:BA:424:G:C4	2.80	0.48
34:BA:570:G:O3'	34:BA:819:A:H2'	2.13	0.48
34:BA:60:A:H62	34:BA:110:C:N4	2.10	0.48
34:BA:611:A:H2'	34:BA:612:C:C6	2.46	0.48
34:BA:819:A:C5'	34:BA:820:U:OP2	2.54	0.48
56:BE:5:G:H1'	56:BE:7:A:C4'	2.42	0.48
35:BF:104:ASN:O	35:BF:104:ASN:OD1	2.31	0.48
35:BF:131:PRO:C	35:BF:133:LYS:N	2.64	0.48
35:BF:69:LEU:CD2	35:BF:91:PRO:CB	2.90	0.48
35:BF:80:ILE:HB	35:BF:208:ILE:CD1	2.42	0.48
36:BG:108:ASN:ND2	36:BG:111:LEU:CD1	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:11:ARG:HH22	36:BG:178:LEU:HA	1.77	0.48
36:BG:17:ASP:O	36:BG:18:TRP:C	2.51	0.48
37:BH:118:ARG:HA	37:BH:136:PRO:HB3	1.95	0.48
37:BH:148:VAL:HG21	37:BH:162:LEU:HD21	1.93	0.48
37:BH:125:HIS:CB	37:BH:152:SER:HB2	2.36	0.48
37:BH:144:ASP:O	37:BH:184:LYS:HA	2.13	0.48
37:BH:187:ARG:HG3	37:BH:188:LEU:N	2.28	0.48
38:BI:145:LYS:HA	38:BI:148:VAL:HG21	1.94	0.48
38:BI:54:ALA:O	38:BI:57:LYS:HB3	2.13	0.48
39:BJ:41:GLU:O	39:BJ:42:GLU:CB	2.60	0.48
39:BJ:57:GLN:NE2	39:BJ:57:GLN:O	2.45	0.48
39:BJ:76:ALA:C	39:BJ:80:ARG:CZ	2.81	0.48
40:BK:71:PRO:CG	40:BK:96:GLN:HG3	2.40	0.48
40:BK:94:ARG:O	40:BK:97:GLN:HB3	2.13	0.48
40:BK:99:LEU:CD2	40:BK:99:LEU:O	2.61	0.48
41:BL:92:ARG:N	41:BL:92:ARG:CD	2.75	0.48
42:BM:116:LYS:HD3	42:BM:116:LYS:N	2.27	0.48
42:BM:9:ARG:HD2	42:BM:14:VAL:CG1	2.43	0.48
42:BM:85:LEU:HD12	42:BM:89:ASN:ND2	2.28	0.48
43:BN:49:VAL:O	43:BN:60:ARG:HA	2.12	0.48
44:BO:102:GLY:O	44:BO:104:GLN:O	2.31	0.48
34:BA:675:A:N3	44:BO:116:HIS:CB	2.76	0.48
44:BO:29:ILE:HG22	44:BO:44:SER:OG	2.13	0.48
44:BO:84:VAL:O	44:BO:85:ARG:HD3	2.13	0.48
45:BP:42:THR:CA	45:BP:55:VAL:HG23	2.42	0.48
46:BQ:36:LYS:NZ	46:BQ:59:TYR:CB	2.73	0.48
48:BS:8:LYS:HE2	48:BS:9:GLN:HE22	1.77	0.48
49:BT:6:LEU:CG	49:BT:17:TYR:HD2	2.26	0.48
49:BT:26:ARG:HB3	49:BT:30:GLY:HA3	1.95	0.48
34:BA:277:C:P	50:BU:68:ARG:HH12	2.36	0.48
34:BA:1014:A:C2'	52:BW:34:TRP:CZ3	2.96	0.48
52:BW:30:LEU:CD1	52:BW:59:PRO:HB3	2.43	0.48
57:BZ:106:MET:HB3	57:BZ:108:GLN:CD	2.34	0.48
57:BZ:11:ILE:HG13	57:BZ:112:VAL:HG12	1.93	0.48
57:BZ:27:GLN:N	57:BZ:29:SER:H	2.10	0.48
57:BZ:390:ARG:CB	57:BZ:391:GLU:CB	2.89	0.48
57:BZ:363:GLU:CD	57:BZ:453:SER:OG	2.52	0.48
56:BD:1:G:C5	56:BD:2:C:C4	3.01	0.48
1:AA:2103:C:C2	1:AA:2104:G:C8	3.01	0.48
1:AA:1511:A:H3'	1:AA:1512:G:H5''	1.95	0.48
37:BH:191:ARG:CD	37:BH:191:ARG:C	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:152:ARG:CG	8:AH:152:ARG:HH21	2.26	0.48
1:AA:980:A:N6	1:AA:1135:C:H4'	2.28	0.48
1:AA:1148:A:N6	1:AA:1149:G:O6	2.46	0.48
1:AA:1161:C:O2'	1:AA:1162:G:H5'	2.14	0.48
1:AA:1189:A:C3'	1:AA:1190:G:H5'	2.43	0.48
1:AA:1250:G:O3'	1:AA:1251:C:C4'	2.61	0.48
1:AA:1277:G:HO2'	13:AO:24:GLN:HG2	1.78	0.48
1:AA:1284:A:C5	1:AA:1285:G:N1	2.81	0.48
1:AA:1284:A:C2	1:AA:1285:G:N2	2.81	0.48
1:AA:1326:U:O4	1:AA:1648:C:O2'	2.31	0.48
1:AA:1343:G:H2'	1:AA:1384:A:C2	2.48	0.48
1:AA:137(A):G:C6	1:AA:138:G:O6	2.67	0.48
1:AA:1401:G:O5'	1:AA:1401:G:H8	1.95	0.48
1:AA:1472:A:C2'	1:AA:1473:G:O5'	2.61	0.48
1:AA:149:A:H2'	1:AA:150:C:C5'	2.41	0.48
1:AA:14:A:C8	1:AA:15:G:O4'	2.66	0.48
1:AA:1524:G:C4	1:AA:1525:G:N7	2.82	0.48
1:AA:1624:G:N3	1:AA:1625:C:N4	2.60	0.48
1:AA:1746:G:C2'	1:AA:1747:G:O4'	2.61	0.48
1:AA:1762:A:H5'	1:AA:1763:G:OP2	2.13	0.48
1:AA:1797:C:N3	1:AA:1798:U:O4	2.47	0.48
1:AA:182:A:O2'	1:AA:183:C:O4'	2.29	0.48
1:AA:1869:G:N3	1:AA:1878:G:O6	2.47	0.48
1:AA:1970:A:HO2'	1:AA:1971:A:P	2.33	0.48
1:AA:2019:A:C6	1:AA:2020:A:C4	3.01	0.48
1:AA:2041:U:C6	1:AA:2041:U:OP2	2.66	0.48
1:AA:2048:G:N2	1:AA:2049:G:C4	2.82	0.48
1:AA:2051:A:O2'	1:AA:2052:G:P	2.71	0.48
1:AA:2053:G:N1	1:AA:2054:A:C5	2.80	0.48
1:AA:2093:G:C2'	1:AA:2094:G:O5'	2.61	0.48
1:AA:2113:U:N3	1:AA:2169:A:N6	2.60	0.48
1:AA:2176:A:O5'	3:AC:221:SER:N	2.44	0.48
1:AA:2213:U:C3'	1:AA:2213:U:C2	2.96	0.48
1:AA:2216:G:H21	4:AD:150:LYS:HZ3	1.59	0.48
1:AA:2322:A:OP1	1:AA:2322:A:O4'	2.31	0.48
1:AA:2346:A:C5'	1:AA:2383:G:O4'	2.60	0.48
1:AA:2258:C:C4	1:AA:2426:A:O4'	2.66	0.48
1:AA:243:U:C4	1:AA:244:A:C8	3.00	0.48
1:AA:245:G:C4	1:AA:246:C:C5	2.95	0.48
1:AA:2573:C:P	1:AA:2574:G:OP1	2.71	0.48
1:AA:2588:G:C5	1:AA:2589:A:N7	2.80	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2044:C:C4	1:AA:2625:G:C2	3.01	0.48
1:AA:2648:C:C2	1:AA:2649:U:C4	3.01	0.48
1:AA:2656:U:N3	1:AA:2665:A:N6	2.61	0.48
1:AA:2705:A:H2'	1:AA:2706:G:O5'	2.13	0.48
1:AA:2728:U:H2'	1:AA:2729:G:H8	1.79	0.48
1:AA:2753:A:C2'	1:AA:2754:U:O5'	2.61	0.48
1:AA:2771:C:H2'	1:AA:2772:C:H6	1.75	0.48
1:AA:2799:A:C1'	1:AA:2802:G:N1	2.76	0.48
1:AA:2818:G:H4'	1:AA:2837:G:C4'	2.43	0.48
1:AA:292:C:O5'	1:AA:293:U:O4	2.31	0.48
1:AA:2:G:C5	1:AA:2902:C:C5	2.74	0.48
1:AA:247:G:C4'	1:AA:386:G:C2	2.95	0.48
1:AA:583:G:H2'	1:AA:584:C:O5'	2.14	0.48
1:AA:600:G:C1'	6:AF:105:VAL:HG21	2.43	0.48
1:AA:616:A:H1'	6:AF:180:GLY:CA	2.42	0.48
1:AA:715:G:C4	1:AA:716:A:C6	3.01	0.48
1:AA:734:A:C2	1:AA:735:A:N9	2.80	0.48
1:AA:918:A:H2	1:AA:919:G:C4	2.30	0.48
1:AA:820:A:C2	1:AA:943:U:H2'	2.48	0.48
1:AA:956:G:OP1	12:AN:87:LYS:HG3	2.13	0.48
1:AA:997:G:H2'	1:AA:998:C:H5	1.75	0.48
2:AB:112:G:C2'	2:AB:112:G:N3	2.74	0.48
2:AB:81:G:C5	2:AB:82:G:N7	2.80	0.48
2:AB:8:U:O2'	2:AB:9:G:O4'	2.27	0.48
3:AC:117:PRO:HD3	3:AC:146:GLY:O	2.13	0.48
1:AA:2125:G:C4	3:AC:218:MET:N	2.31	0.48
3:AC:42:GLU:O	3:AC:214:VAL:O	2.26	0.48
3:AC:49:ILE:HG13	3:AC:50:ASP:N	2.26	0.48
4:AD:92:ILE:CD1	4:AD:104:TYR:CD1	2.96	0.48
4:AD:65:ILE:HG23	4:AD:104:TYR:O	2.14	0.48
4:AD:23:GLU:OE1	4:AD:24:ILE:O	2.30	0.48
4:AD:9:TYR:CE1	4:AD:25:THR:HG21	2.48	0.48
4:AD:24:ILE:CG2	4:AD:25:THR:N	2.76	0.48
5:AE:67:PHE:O	5:AE:68:ALA:C	2.51	0.48
5:AE:81:ILE:CG2	5:AE:82:ARG:HG2	2.40	0.48
6:AF:110:LEU:HD21	6:AF:186:ILE:HD11	1.95	0.48
1:AA:675:A:C5'	6:AF:67:GLN:NE2	2.76	0.48
1:AA:1077:A:H2	32:AJ:133:SER:CA	2.27	0.48
32:AJ:44:ALA:CB	32:AJ:66:THR:CG2	2.88	0.48
32:AJ:55:VAL:CB	32:AJ:56:GLU:HA	2.28	0.48
9:AK:9:VAL:O	9:AK:11:PRO:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:23:LEU:HB2	9:AK:63:THR:HG23	1.94	0.48
10:AL:12:ASP:O	10:AL:94:ARG:NH2	2.46	0.48
12:AN:122:GLY:O	12:AN:124:LYS:N	2.46	0.48
12:AN:42:ILE:HD13	12:AN:43:THR:O	2.13	0.48
13:AO:116:LEU:HD23	13:AO:116:LEU:H	1.77	0.48
15:AQ:108:ARG:N	15:AQ:108:ARG:HH11	2.10	0.48
15:AQ:51:ARG:NH1	15:AQ:114:LEU:CD1	2.76	0.48
15:AQ:54:ARG:H	15:AQ:64:ARG:CB	2.25	0.48
10:AL:122:LEU:HB2	15:AQ:71:GLY:HA3	1.95	0.48
16:AR:108:GLU:CA	16:AR:111:GLU:HG2	2.43	0.48
16:AR:69:CYS:SG	16:AR:70:ARG:N	2.85	0.48
16:AR:96:ALA:O	16:AR:100:VAL:HG23	2.12	0.48
17:AS:67:GLY:HA2	17:AS:93:GLU:C	2.34	0.48
17:AS:20:LEU:HB2	17:AS:93:GLU:OE2	2.12	0.48
18:AT:21:VAL:CG2	18:AT:75:TYR:HD2	2.25	0.48
18:AT:76:VAL:HG22	18:AT:102:HIS:O	2.13	0.48
20:AV:97:ARG:CA	20:AV:101:LYS:CG	2.89	0.48
20:AV:53:PRO:HG2	20:AV:55:TYR:O	2.12	0.48
21:AW:102:LEU:HB2	21:AW:124:ILE:CA	2.41	0.48
21:AW:37:VAL:C	21:AW:38:TYR:HD2	2.16	0.48
21:AW:39:VAL:CG2	21:AW:44:PHE:CE2	2.87	0.48
1:AA:2352:A:H2	22:AX:33:ALA:O	1.96	0.48
34:BA:1251:A:C2	34:BA:1252:A:C6	3.01	0.48
34:BA:1300:G:C2'	34:BA:1301:U:OP2	2.61	0.48
34:BA:138:G:C2	34:BA:226:G:C4	3.01	0.48
34:BA:1399:C:O2	34:BA:1401:G:C5	2.66	0.48
34:BA:1431:C:H2'	34:BA:1432:G:C4'	2.42	0.48
34:BA:1512:U:O2'	34:BA:1513:A:H5'	2.13	0.48
34:BA:68:G:H21	34:BA:152:A:H1'	1.78	0.48
34:BA:173:U:C5'	34:BA:197:A:H1'	2.43	0.48
34:BA:181:G:C2'	34:BA:182:U:OP2	2.59	0.48
34:BA:186(B):C:H4'	53:BX:89:ARG:CZ	2.42	0.48
34:BA:186(A):C:C2'	34:BA:186(B):C:H5'	2.44	0.48
34:BA:262:A:C2	34:BA:263:A:C6	3.01	0.48
34:BA:123:C:O2'	34:BA:290:C:H1'	2.13	0.48
34:BA:328:C:O2'	34:BA:329:A:OP2	2.31	0.48
34:BA:345:C:H5'	34:BA:346:G:C4	2.48	0.48
34:BA:685:G:H2'	34:BA:686:U:H6	1.76	0.48
34:BA:701:C:H4'	34:BA:702:A:OP2	2.12	0.48
34:BA:745:C:H2'	34:BA:746:A:H8	1.77	0.48
34:BA:769:G:O2'	34:BA:770:C:C5'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:852:G:C6	34:BA:853:G:N7	2.81	0.48
34:BA:84:U:H2'	34:BA:85:U:C1'	2.43	0.48
34:BA:901:A:N3	34:BA:902:G:C1'	2.74	0.48
35:BF:135:GLN:C	35:BF:139:LYS:NZ	2.59	0.48
35:BF:213:LEU:HD23	35:BF:217:ARG:HD3	1.95	0.48
35:BF:77:ALA:O	35:BF:78:GLN:C	2.51	0.48
35:BF:95:GLN:HG3	35:BF:148:TYR:HB2	1.91	0.48
36:BG:179:ARG:CD	36:BG:206:GLU:OE1	2.61	0.48
36:BG:29:TYR:HD2	36:BG:29:TYR:C	2.15	0.48
36:BG:48:TYR:CD2	36:BG:48:TYR:C	2.87	0.48
36:BG:64:VAL:O	36:BG:64:VAL:HG12	2.13	0.48
37:BH:135:LEU:CD1	37:BH:138:TYR:HB2	2.39	0.48
37:BH:54:TYR:O	37:BH:56:VAL:N	2.46	0.48
38:BI:107:ARG:O	38:BI:108:ALA:C	2.50	0.48
38:BI:74:GLY:O	38:BI:115:VAL:CG1	2.60	0.48
39:BJ:7:ASN:O	39:BJ:89:MET:O	2.30	0.48
40:BK:10:ARG:NH1	40:BK:10:ARG:CB	2.76	0.48
40:BK:123:GLU:O	40:BK:124:LEU:C	2.50	0.48
41:BL:123:GLU:O	41:BL:124:ALA:C	2.51	0.48
41:BL:35:ILE:O	41:BL:36:LEU:C	2.52	0.48
42:BM:75:ASP:O	42:BM:78:LYS:HB3	2.13	0.48
43:BN:48:THR:HG23	43:BN:61:GLU:C	2.33	0.48
44:BO:22:HIS:HD2	44:BO:23:ALA:N	2.11	0.48
44:BO:31:THR:HG22	44:BO:32:ILE:N	2.27	0.48
46:BQ:14:ARG:CZ	46:BQ:42:ALA:HA	2.43	0.48
47:BR:48:ALA:O	47:BR:51:GLY:N	2.46	0.48
50:BU:18:THR:O	50:BU:19:VAL:HG13	2.13	0.48
50:BU:44:ALA:HB2	50:BU:59:ILE:HD13	1.95	0.48
57:BZ:134:GLY:O	57:BZ:135:ALA:HB2	2.12	0.48
57:BZ:233:PRO:HB3	57:BZ:235:GLN:O	2.13	0.48
57:BZ:394:GLY:O	57:BZ:395:ARG:HB3	2.13	0.48
57:BZ:407:VAL:CA	57:BZ:436:ARG:NH1	2.77	0.48
57:BZ:562:ARG:CG	57:BZ:563:MET:N	2.75	0.48
56:BD:67:C:C3'	56:BD:68:C:C5'	2.86	0.48
57:BZ:35:ARG:N	57:BZ:36:ALA:HB3	2.28	0.48
1:AA:2186:G:C2	1:AA:2187:G:C5	3.01	0.48
1:AA:1036:G:C2	1:AA:1120:G:C2	3.02	0.48
1:AA:1044:G:O2'	1:AA:1046:A:H5'	2.14	0.48
1:AA:1047:G:H2'	1:AA:1047:G:N3	2.20	0.48
1:AA:1139:G:OP1	9:AK:23:LEU:HB2	2.13	0.48
1:AA:1169:G:H2'	1:AA:1170:G:C1'	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1210:A:C1'	1:AA:1212:G:H21	2.25	0.48
1:AA:1277:G:O2'	13:AO:24:GLN:NE2	2.41	0.48
1:AA:1288:U:C2	1:AA:1327:C:O2	2.66	0.48
1:AA:1342:A:C4	1:AA:1397:U:H1'	2.48	0.48
1:AA:1343:G:H1'	1:AA:1597:A:N1	2.28	0.48
1:AA:1394:U:H5''	1:AA:1603:A:O3'	2.13	0.48
1:AA:1408:C:C2	1:AA:1409:C:C5	3.01	0.48
1:AA:1456:G:N3	1:AA:1457:A:C8	2.82	0.48
1:AA:1759:A:N1	1:AA:1760:A:C2	2.80	0.48
1:AA:1790:C:H4'	4:AD:213:ARG:CZ	2.40	0.48
1:AA:1853:A:H2'	1:AA:1854:A:O4'	2.13	0.48
1:AA:1890:A:H8	1:AA:1890:A:O5'	1.96	0.48
1:AA:1897:G:C6	1:AA:1898:U:C2	3.01	0.48
1:AA:1921:G:H2'	1:AA:1922:G:C8	2.48	0.48
1:AA:2126:A:N1	1:AA:2162:G:O2'	2.40	0.48
1:AA:2157:G:H4'	1:AA:2158:A:OP1	2.13	0.48
1:AA:2163:C:OP1	1:AA:2172:U:C5	2.67	0.48
1:AA:2168:G:N9	1:AA:2170:A:OP2	2.46	0.48
1:AA:215:G:HO2'	1:AA:216:A:P	2.36	0.48
1:AA:2305:A:H1'	7:AG:155:MET:N	2.28	0.48
1:AA:2307:G:O4'	1:AA:2307:G:OP2	2.31	0.48
1:AA:2354:G:H1'	22:AX:34:GLY:O	2.14	0.48
1:AA:2406:U:O5'	1:AA:2407:G:OP1	2.32	0.48
1:AA:2526:G:C2'	1:AA:2527:C:O5'	2.61	0.48
1:AA:2573:C:H3'	1:AA:2573:C:C6	2.48	0.48
1:AA:2051:A:H3'	1:AA:2578:G:C5'	2.43	0.48
1:AA:2619:C:C5'	5:AE:152:LYS:CA	2.90	0.48
1:AA:2532:G:H2'	1:AA:2664:G:HO2'	1.79	0.48
1:AA:2693:A:O2'	1:AA:2848:G:C5'	2.61	0.48
1:AA:2777:G:H8	1:AA:2777:G:O5'	1.93	0.48
1:AA:2787:C:C2	5:AE:61:ARG:CZ	2.96	0.48
1:AA:2788:C:N3	1:AA:2789:C:C5	2.69	0.48
1:AA:283:A:H2'	1:AA:284:U:H5'	1.93	0.48
1:AA:344:G:C8	1:AA:344:G:H3'	2.48	0.48
1:AA:425:G:C2	1:AA:426:C:C5	3.01	0.48
1:AA:578:A:H2	16:AR:34:LYS:NZ	2.03	0.48
1:AA:613:U:C5	1:AA:614:U:O2	2.64	0.48
1:AA:656:G:C5	1:AA:657:U:C4	3.01	0.48
1:AA:66:C:N4	1:AA:67:U:O4	2.47	0.48
1:AA:209:C:C5'	1:AA:681:G:H4'	2.41	0.48
1:AA:692:C:HO2'	1:AA:693:C:H5'	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:717:G:N2	1:AA:718:A:H1'	2.27	0.48
1:AA:193:U:H4'	1:AA:803:U:C5'	2.42	0.48
2:AB:100:G:C2'	2:AB:101:A:C8	2.88	0.48
2:AB:99:A:N6	2:AB:100:G:C6	2.82	0.48
4:AD:9:TYR:O	4:AD:10:THR:CB	2.61	0.48
4:AD:131:LEU:HA	4:AD:190:TYR:CE2	2.47	0.48
4:AD:147:LEU:O	4:AD:154:LYS:HE3	2.14	0.48
4:AD:77:ALA:O	4:AD:116:GLN:HA	2.13	0.48
4:AD:89:SER:HB2	4:AD:202:LYS:NZ	2.26	0.48
5:AE:136:ARG:NH1	5:AE:137:HIS:HA	2.28	0.48
5:AE:85:ASN:C	5:AE:87:GLU:N	2.67	0.48
6:AF:30:PRO:HG2	6:AF:31:HIS:H	1.78	0.48
6:AF:35:GLU:HA	6:AF:38:ARG:HD2	1.94	0.48
7:AG:107:LEU:HD12	7:AG:111:LEU:HD22	1.94	0.48
7:AG:72:ARG:HA	7:AG:88:ILE:HD11	1.95	0.48
8:AH:54:ARG:C	8:AH:56:SER:H	2.16	0.48
32:AJ:17:ALA:HB3	32:AJ:42:ASN:CB	2.43	0.48
32:AJ:27:LEU:HD11	32:AJ:57:ILE:HG22	1.95	0.48
32:AJ:56:GLU:O	32:AJ:57:ILE:HG23	2.13	0.48
32:AJ:76:TYR:CD2	32:AJ:80:LYS:CE	2.96	0.48
9:AK:21:LYS:HD3	9:AK:26:LEU:HD22	1.96	0.48
9:AK:7:LYS:HD3	9:AK:39:ARG:NH2	2.28	0.48
9:AK:42:TRP:O	9:AK:43:THR:CB	2.61	0.48
9:AK:82:LEU:O	9:AK:83:LYS:C	2.50	0.48
11:AM:114:ILE:N	11:AM:129:ALA:O	2.45	0.48
11:AM:18:ARG:O	11:AM:20:GLY:N	2.42	0.48
11:AM:86:LYS:HZ1	11:AM:99:LEU:HD11	1.77	0.48
12:AN:134:ARG:CZ	12:AN:137:TYR:N	2.62	0.48
12:AN:15:GLY:HA2	12:AN:73:PRO:HG2	1.96	0.48
1:AA:2496:C:OP1	12:AN:83:MET:HE1	2.13	0.48
14:AP:19:LYS:HD3	14:AP:20:ARG:N	2.29	0.48
14:AP:38:GLN:CD	14:AP:40:ILE:HD11	2.33	0.48
14:AP:5:THR:HG22	14:AP:6:ALA:N	2.29	0.48
15:AQ:51:ARG:HH12	15:AQ:114:LEU:CD1	2.26	0.48
16:AR:5:LYS:O	16:AR:7:GLY:N	2.46	0.48
16:AR:93:LYS:O	17:AS:6:LYS:NZ	2.32	0.48
16:AR:47:TYR:CE2	17:AS:75:PHE:HB3	2.48	0.48
18:AT:20:VAL:CG1	18:AT:21:VAL:H	2.23	0.48
18:AT:25:ARG:O	18:AT:27:LYS:N	2.46	0.48
19:AU:58:HIS:NE2	19:AU:77:LYS:NZ	2.56	0.48
19:AU:73:ARG:NH1	19:AU:74:PRO:O	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AU:8:ILE:C	19:AU:9:LEU:CG	2.76	0.48
20:AV:15:VAL:HG12	20:AV:16:ALA:H	1.77	0.48
20:AV:37:VAL:HG13	20:AV:39:VAL:CG2	2.42	0.48
21:AW:151:HIS:CD2	21:AW:170:THR:HA	2.48	0.48
21:AW:44:PHE:O	21:AW:48:PHE:CD1	2.67	0.48
23:AY:32:PHE:HB2	23:AY:33:GLN:NE2	2.28	0.48
23:AY:33:GLN:O	23:AY:36:ILE:HG22	2.13	0.48
34:BA:1157:A:H4'	34:BA:1158:C:O5'	2.13	0.48
34:BA:186(D):C:H2'	34:BA:186(E):C:C5	2.46	0.48
34:BA:295:C:C4	34:BA:303:A:C2	3.01	0.48
34:BA:297:G:O2'	34:BA:299:G:N7	2.37	0.48
34:BA:41:G:N3	34:BA:42:G:C8	2.81	0.48
34:BA:467:G:C2	34:BA:468:A:C5	3.01	0.48
34:BA:50:A:N1	34:BA:360:A:O2'	2.31	0.48
34:BA:527:G:H2'	34:BA:528:C:H6	1.78	0.48
34:BA:52:G:C2'	34:BA:53:A:O4'	2.59	0.48
34:BA:609:A:H2'	34:BA:610:G:O4'	2.13	0.48
34:BA:595:G:N7	34:BA:641:U:C4	2.80	0.48
34:BA:683:G:H2'	34:BA:684:A:C8	2.48	0.48
34:BA:705:U:C4	34:BA:706:A:N7	2.81	0.48
34:BA:85:U:C2'	34:BA:86:U:H5'	2.43	0.48
34:BA:890:G:O2'	34:BA:891:U:O5'	2.31	0.48
34:BA:936:C:H2'	34:BA:937:A:H5'	1.95	0.48
56:BE:3:C:H6	56:BE:3:C:O5'	1.97	0.48
35:BF:115:LEU:CD2	35:BF:149:LEU:HD22	2.36	0.48
36:BG:11:ARG:NH2	36:BG:178:LEU:HA	2.27	0.48
34:BA:1191:A:O5'	36:BG:4:LYS:NZ	2.46	0.48
37:BH:106:TYR:CE2	37:BH:113:SER:HA	2.48	0.48
37:BH:62:GLN:CA	37:BH:62:GLN:HE21	2.26	0.48
34:BA:9:G:C8	38:BI:126:ARG:CZ	2.95	0.48
38:BI:48:ALA:HB1	38:BI:53:LEU:CD1	2.40	0.48
39:BJ:68:PRO:O	39:BJ:69:GLU:C	2.51	0.48
40:BK:36:LYS:HZ2	40:BK:36:LYS:HA	1.75	0.48
41:BL:114:THR:OG1	41:BL:119:LEU:CD2	2.61	0.48
41:BL:26:VAL:CG1	41:BL:27:PRO:N	2.74	0.48
42:BM:41:VAL:O	42:BM:44:VAL:HG22	2.13	0.48
42:BM:85:LEU:HD11	42:BM:92:TYR:CE1	2.48	0.48
42:BM:53:VAL:HG21	42:BM:92:TYR:CD1	2.48	0.48
43:BN:12:ASP:HB3	43:BN:15:THR:CG2	2.43	0.48
43:BN:56:HIS:O	43:BN:58:ASP:N	2.42	0.48
44:BO:44:SER:N	44:BO:47:VAL:CG2	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:94:ALA:O	44:BO:98:LEU:HG	2.13	0.48
45:BP:24:VAL:HG13	45:BP:26:ALA:H	1.77	0.48
45:BP:34:ARG:HB2	45:BP:105:TYR:HH	1.79	0.48
46:BQ:97:PRO:HB3	46:BQ:101:GLN:HE21	1.77	0.48
46:BQ:95:GLY:O	46:BQ:110:ARG:HB3	2.12	0.48
47:BR:3:ARG:HG3	47:BR:3:ARG:O	2.13	0.48
49:BT:14:ASN:C	49:BT:14:ASN:OD1	2.51	0.48
51:BV:26:LEU:HD23	51:BV:29:PHE:HB2	1.93	0.48
53:BX:51:GLU:HA	53:BX:54:LYS:HG3	1.94	0.48
53:BX:54:LYS:N	53:BX:100:ILE:HD11	2.28	0.48
57:BZ:25:LEU:O	57:BZ:28:GLN:CD	2.49	0.48
57:BZ:309:MET:HG2	57:BZ:366:LEU:HD13	1.94	0.48
57:BZ:383:SER:OG	57:BZ:385:PRO:HD3	2.12	0.48
31:AI:52:PHE:C	31:AI:86:PRO:CA	2.79	0.48
31:AI:54:ALA:CB	31:AI:83:TYR:CB	2.91	0.48
56:BD:16:U:H2'	56:BD:17:C:H5'	1.94	0.48
56:BD:15:G:N2	56:BD:59:U:O2	2.46	0.48
56:BD:72:C:C2	56:BD:73:A:C2	3.01	0.48
7:AG:91:ARG:CG	7:AG:91:ARG:HH21	2.25	0.48
32:AJ:64:SER:HB2	32:AJ:65:PHE:CB	2.42	0.48
37:BH:159:ARG:HD2	37:BH:163:GLU:OE2	2.12	0.48
1:AA:1057:A:O2'	31:AI:38:HIS:CB	2.62	0.48
1:AA:1064:C:N4	1:AA:1065:U:N3	2.61	0.48
1:AA:1083:U:C6	1:AA:1085:A:N7	2.80	0.48
1:AA:1005:C:C5	1:AA:1143:A:P	3.07	0.48
1:AA:1241:A:C2'	1:AA:1242:A:OP1	2.60	0.48
1:AA:1287:A:OP1	13:AO:105:ARG:HB2	2.14	0.48
1:AA:1296:G:O2'	1:AA:1297:C:O5'	2.30	0.48
1:AA:1340:U:C6	19:AU:57:LEU:HD11	2.48	0.48
1:AA:1353:A:O2'	1:AA:1354:A:O4'	2.30	0.48
1:AA:1432:C:C2	1:AA:1433:U:C2	3.02	0.48
1:AA:1525:G:C2'	1:AA:1526:G:O5'	2.62	0.48
1:AA:1575:C:C4	1:AA:1576:U:N3	2.82	0.48
1:AA:1689:A:H2'	1:AA:1690:A:H8	1.77	0.48
1:AA:1777:U:C2'	1:AA:1778:U:H5'	2.42	0.48
1:AA:1812:A:C5	1:AA:1813:G:C8	3.01	0.48
1:AA:1829:A:H2'	1:AA:1829:A:N3	2.28	0.48
1:AA:1834:U:C4'	1:AA:1834:U:OP1	2.61	0.48
1:AA:189:G:N2	1:AA:206:U:H5	2.12	0.48
1:AA:1907:G:N2	1:AA:1908:C:C2	2.81	0.48
1:AA:1965:C:H5'	1:AA:1966:A:H3'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2026:C:N3	1:AA:2027:G:C8	2.81	0.48
1:AA:2048:G:C2'	1:AA:2049:G:O5'	2.61	0.48
1:AA:218:A:N1	1:AA:235:U:H4'	2.29	0.48
1:AA:2235:G:N2	1:AA:2236:C:C2	2.81	0.48
1:AA:2080:G:C6	1:AA:2241:A:C6	3.00	0.48
1:AA:2251:G:C2	1:AA:2450:A:H1'	2.49	0.48
1:AA:2270:G:H2'	1:AA:2271:G:O4'	2.13	0.48
1:AA:2307:G:N9	1:AA:2308:G:H1'	2.27	0.48
1:AA:2320:A:P	1:AA:2320:A:H8	2.36	0.48
1:AA:2245:U:C2	1:AA:2435:A:C8	3.01	0.48
1:AA:2456:C:C2'	1:AA:2457:U:H5'	2.44	0.48
1:AA:2471:C:H4'	57:BZ:529:ARG:HH21	1.53	0.48
1:AA:2682:U:C4	5:AE:21:VAL:HG11	2.49	0.48
1:AA:2691:C:O4'	1:AA:2872:G:C6	2.67	0.48
1:AA:297:C:C5'	20:AV:83:THR:HG21	2.43	0.48
1:AA:30:G:C2'	1:AA:31:C:O4'	2.54	0.48
1:AA:546:C:C2	1:AA:547:A:C6	3.01	0.48
1:AA:625:G:O2'	1:AA:656:G:O3'	2.30	0.48
1:AA:696:G:C2	1:AA:697:C:C6	3.01	0.48
1:AA:744:G:H5'	1:AA:1659:U:OP1	2.12	0.48
2:AB:2:C:H2'	2:AB:3:C:O5'	2.13	0.48
2:AB:42:C:H2'	2:AB:43:C:C6	2.48	0.48
3:AC:190:ARG:O	3:AC:193:ILE:HB	2.14	0.48
4:AD:106:ILE:HG13	4:AD:108:PRO:CD	2.37	0.48
4:AD:5:LYS:CA	4:AD:28:GLU:HB2	2.42	0.48
4:AD:97:TYR:HB3	4:AD:99:ASP:OD1	2.12	0.48
5:AE:104:VAL:CG1	5:AE:105:THR:H	2.23	0.48
5:AE:110:GLY:O	13:AO:4:LEU:HD13	2.13	0.48
5:AE:116:VAL:HG12	5:AE:120:TRP:NE1	2.27	0.48
5:AE:12:THR:HA	5:AE:21:VAL:HG23	1.96	0.48
5:AE:97:LYS:HG3	5:AE:100:GLU:CD	2.33	0.48
6:AF:162:LEU:HA	6:AF:165:ARG:HB3	1.95	0.48
6:AF:37:VAL:O	6:AF:184:TYR:CZ	2.66	0.48
7:AG:35:GLU:OE1	7:AG:36:LYS:HB3	2.14	0.48
7:AG:4:ASP:HB3	7:AG:104:GLU:CG	2.43	0.48
7:AG:68:PRO:CG	7:AG:90:LEU:HD21	2.43	0.48
7:AG:53:LEU:HD21	7:AG:72:ARG:N	2.28	0.48
32:AJ:83:GLY:C	32:AJ:85:GLU:H	2.16	0.48
9:AK:127:ASP:O	9:AK:128:HIS:C	2.50	0.48
9:AK:17:ASP:OD1	9:AK:19:GLU:O	2.31	0.48
9:AK:87:LEU:HD23	9:AK:88:GLU:CD	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:64:ARG:NH2	10:AL:78:ARG:HH11	2.12	0.48
10:AL:81:ASP:C	10:AL:82:ASN:OD1	2.51	0.48
11:AM:60:MET:N	11:AM:60:MET:SD	2.86	0.48
12:AN:99:PRO:O	12:AN:100:GLY:O	2.32	0.48
13:AO:56:LYS:C	13:AO:58:GLY:N	2.66	0.48
13:AO:75:LEU:O	13:AO:78:LYS:HB3	2.11	0.48
14:AP:12:PHE:CG	14:AP:13:ARG:N	2.80	0.48
1:AA:2320:A:C6	14:AP:4:LEU:HD13	2.48	0.48
14:AP:73:LEU:CD1	14:AP:73:LEU:N	2.74	0.48
2:AB:48:A:OP1	14:AP:92:TYR:CD2	2.66	0.48
16:AR:52:ARG:HB2	16:AR:55:ARG:HD3	1.94	0.48
9:AK:42:TRP:CZ3	16:AR:71:GLN:NE2	2.82	0.48
16:AR:74:LEU:CG	16:AR:78:THR:HG21	2.43	0.48
17:AS:15:GLU:OE1	17:AS:16:PRO:HD3	2.13	0.48
17:AS:28:GLU:HB3	17:AS:94:LEU:CD1	2.25	0.48
17:AS:6:LYS:CE	17:AS:10:LYS:HB3	2.44	0.48
18:AT:64:MET:HB3	18:AT:109:GLU:HG3	1.94	0.48
18:AT:33:ARG:NH1	18:AT:48:ALA:HB2	2.21	0.48
20:AV:85:VAL:O	20:AV:87:LYS:N	2.47	0.48
21:AW:20:ARG:HB2	21:AW:20:ARG:NH1	2.28	0.48
2:AB:105:G:H4'	21:AW:32:HIS:ND1	2.29	0.48
2:AB:12:C:O5'	22:AX:74:ARG:NE	2.46	0.48
23:AY:22:GLU:O	23:AY:25:ARG:HB2	2.13	0.48
24:AZ:38:GLU:O	24:AZ:40:THR:N	2.47	0.48
34:BA:1003:G:H2'	34:BA:1004:A:H4'	1.96	0.48
34:BA:1119:C:H2'	34:BA:1120:G:N7	2.27	0.48
34:BA:1181:G:N7	34:BA:1182:G:C2	2.80	0.48
34:BA:1117:G:N9	34:BA:1184:G:N2	2.61	0.48
34:BA:1318:A:H3'	52:BW:37:ARG:CB	2.09	0.48
34:BA:1321:C:C5	34:BA:1322:C:C3'	2.97	0.48
34:BA:1454:G:O2'	34:BA:1455:G:C8	2.55	0.48
34:BA:1484:C:N4	34:BA:1485:U:C4	2.81	0.48
34:BA:190:G:HO2'	34:BA:191(A):G:P	2.36	0.48
34:BA:194:C:O2'	34:BA:195:A:H4'	2.13	0.48
34:BA:250:A:C2	34:BA:274:A:N1	2.81	0.48
34:BA:341:C:C2'	34:BA:342:C:O5'	2.61	0.48
34:BA:34:C:H2'	34:BA:35:G:C8	2.43	0.48
34:BA:497:U:O2'	34:BA:498:A:H5'	2.13	0.48
34:BA:537:G:H5''	45:BP:113:ARG:NH1	2.28	0.48
34:BA:539:A:OP2	45:BP:115:LYS:CE	2.58	0.48
34:BA:543:C:C2	34:BA:544:G:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:28:G:C6	34:BA:556:C:N4	2.81	0.48
34:BA:610:G:H2'	34:BA:611:A:H5'	1.92	0.48
34:BA:621:A:H2'	34:BA:622:A:H8	1.77	0.48
34:BA:68:G:C4'	34:BA:171:A:H1'	2.43	0.48
34:BA:707:C:H2'	34:BA:708:C:O5'	2.13	0.48
34:BA:739:C:H2'	34:BA:740:U:H5'	1.93	0.48
34:BA:755:G:N3	41:BL:1:MET:HE1	2.27	0.48
34:BA:572:A:C2	34:BA:916:G:N2	2.81	0.48
34:BA:924:C:C2'	34:BA:925:G:O5'	2.61	0.48
34:BA:983:A:N3	34:BA:983:A:C2'	2.76	0.48
56:BE:2:C:C4	56:BE:3:C:N4	2.81	0.48
34:BA:1158:C:H4'	35:BF:133:LYS:HD2	1.95	0.48
35:BF:170:GLU:C	35:BF:174:VAL:HG23	2.34	0.48
35:BF:189:ASP:CG	35:BF:205:ASP:CG	2.71	0.48
35:BF:15:VAL:HG21	35:BF:209:ARG:CB	2.42	0.48
35:BF:32:ILE:HG22	35:BF:32:ILE:O	2.14	0.48
35:BF:58:ILE:O	35:BF:59:GLU:C	2.51	0.48
36:BG:120:VAL:HG21	36:BG:137:ALA:HB2	1.96	0.48
36:BG:88:ARG:HG3	36:BG:99:VAL:O	2.13	0.48
37:BH:128:VAL:CG1	37:BH:129:ASN:N	2.75	0.48
37:BH:82:ALA:CB	37:BH:92:VAL:HB	2.39	0.48
38:BI:133:TYR:HA	38:BI:136:MET:HG2	1.96	0.48
38:BI:77:PRO:HG2	38:BI:78:HIS:CD2	2.49	0.48
40:BK:65:ALA:HA	40:BK:128:ALA:N	2.28	0.48
40:BK:46:ALA:O	40:BK:49:ILE:N	2.46	0.48
40:BK:47:CYS:O	40:BK:51:GLN:HG2	2.12	0.48
40:BK:5:ARG:HH11	40:BK:5:ARG:CB	2.26	0.48
40:BK:71:PRO:CA	40:BK:138:LYS:HE3	2.43	0.48
41:BL:102:ARG:CB	41:BL:102:ARG:NH1	2.77	0.48
41:BL:49:GLU:OE2	41:BL:51:VAL:HG23	2.14	0.48
41:BL:82:HIS:CE1	41:BL:84:ARG:HG3	2.48	0.48
41:BL:89:PRO:HA	41:BL:92:ARG:HE	1.78	0.48
42:BM:97:LYS:HZ2	42:BM:102:LEU:HB3	1.79	0.48
44:BO:95:ILE:CG2	44:BO:98:LEU:HD12	2.41	0.48
45:BP:86:ARG:HH22	45:BP:119:LYS:CD	2.26	0.48
45:BP:24:VAL:O	45:BP:24:VAL:HG12	2.12	0.48
45:BP:46:LYS:HZ3	45:BP:94:PRO:CG	2.26	0.48
46:BQ:74:VAL:HA	46:BQ:77:ASN:OD1	2.12	0.48
51:BV:39:VAL:O	51:BV:43:PHE:HE1	1.95	0.48
52:BW:34:TRP:NE1	52:BW:52:TYR:CD2	2.81	0.48
57:BZ:127:ILE:HB	57:BZ:164:TYR:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:316:SER:HB2	57:BZ:317:PRO:HD2	1.94	0.48
57:BZ:381:ALA:CB	57:BZ:577:LEU:CB	2.77	0.48
57:BZ:407:VAL:HG23	57:BZ:436:ARG:HA	1.95	0.48
18:AT:95:ILE:HD12	18:AT:95:ILE:N	2.15	0.48
34:BA:73:G:C6	34:BA:74:C:N4	2.82	0.48
57:BZ:489:ILE:HD12	57:BZ:533:LEU:O	2.13	0.48
1:AA:1013:C:H2'	1:AA:1014:U:C6	2.49	0.48
1:AA:1053:C:N4	1:AA:1054:A:N6	2.62	0.48
1:AA:1078:U:OP1	32:AJ:137:GLU:CD	2.43	0.48
1:AA:1083:U:O2'	1:AA:1084:A:H8	1.95	0.48
1:AA:1097:U:H2'	1:AA:1098:A:O4'	2.14	0.48
1:AA:128:C:C4	1:AA:129:C:N4	2.81	0.48
1:AA:1305:C:H2'	1:AA:1306:C:H6	1.78	0.48
1:AA:1391:U:C2'	1:AA:1391:U:O2	2.61	0.48
1:AA:1469:A:H8	1:AA:1469:A:H3'	1.76	0.48
1:AA:1542:G:C2'	1:AA:1543:A:C5	2.96	0.48
1:AA:1635:G:O5'	1:AA:1635:G:C8	2.67	0.48
1:AA:1637:A:H2'	1:AA:1638:C:H6	1.78	0.48
1:AA:1664:A:C2'	1:AA:1665:A:C8	2.92	0.48
1:AA:1667:G:O5'	10:AL:7:TYR:CD1	2.66	0.48
1:AA:1676:A:O2'	1:AA:1677:A:H5'	2.13	0.48
1:AA:1857:G:H2'	1:AA:1858:G:C4	2.48	0.48
1:AA:188:G:O4'	1:AA:1365:A:C2	2.66	0.48
1:AA:1908:C:H42	58:AA:3001:NMY:H92	0.58	0.48
1:AA:1935:G:C2	1:AA:1962:C:C2	3.02	0.48
1:AA:2048:G:N1	1:AA:2049:G:C5	2.81	0.48
1:AA:2094:G:C5	1:AA:2095:C:C4	3.01	0.48
1:AA:2133:G:C6	1:AA:2157:G:H1'	2.49	0.48
1:AA:2306:C:N3	7:AG:42:GLY:O	2.46	0.48
1:AA:2357:U:H6	1:AA:2357:U:P	2.36	0.48
1:AA:2371:G:N2	1:AA:2372:G:C4	2.82	0.48
1:AA:2259:G:O4'	1:AA:2427:C:C5	2.66	0.48
1:AA:2244:U:O4'	1:AA:2434:A:N6	2.47	0.48
1:AA:957:A:H2	1:AA:2459:A:OP1	1.95	0.48
1:AA:2476:A:N7	1:AA:2477:C:C5	2.82	0.48
1:AA:2509:G:H2'	1:AA:2510:C:O4'	2.13	0.48
1:AA:2564:A:N6	1:AA:2647:U:O4'	2.47	0.48
1:AA:2618:G:H2'	1:AA:2619:C:H6	1.77	0.48
1:AA:2627:G:N2	1:AA:2628:C:C6	2.81	0.48
1:AA:2701:C:H5'	1:AA:2701:C:H6	1.78	0.48
1:AA:2731:G:H22	1:AA:2732:G:N2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2733:A:H2'	1:AA:2734:A:C4'	2.43	0.48
1:AA:2897:U:H2'	1:AA:2898:U:C6	2.48	0.48
1:AA:350:U:H2'	1:AA:351:G:OP1	2.13	0.48
1:AA:374:A:N6	1:AA:401:A:H1'	2.27	0.48
1:AA:462:C:C4	1:AA:468:G:N2	2.82	0.48
1:AA:478:A:N6	1:AA:480:A:N1	2.61	0.48
1:AA:533:G:C5	1:AA:534:U:C2	3.01	0.48
1:AA:588:U:C4	1:AA:589:C:N4	2.81	0.48
1:AA:637:A:C2	1:AA:651:G:O3'	2.67	0.48
1:AA:692:C:H2'	1:AA:693:C:O5'	2.13	0.48
1:AA:721:C:O2'	1:AA:722:A:H5'	2.13	0.48
1:AA:733:G:N7	1:AA:761:A:N6	2.61	0.48
1:AA:733:G:C5	1:AA:761:A:C5	3.01	0.48
1:AA:781:A:O2'	4:AD:222:ARG:NH1	2.46	0.48
1:AA:869:G:C3'	1:AA:870:A:H5''	2.43	0.48
1:AA:908:C:C2'	1:AA:909:A:O5'	2.61	0.48
1:AA:979:G:C8	1:AA:981:A:OP2	2.66	0.48
2:AB:100:G:C6	2:AB:101:A:N6	2.82	0.48
2:AB:43:C:N3	7:AG:95:ARG:NH2	2.59	0.48
2:AB:16:G:H22	2:AB:69:G:H1'	1.77	0.48
1:AA:2217:G:C1'	4:AD:150:LYS:HZ2	2.27	0.48
4:AD:89:SER:C	4:AD:159:ALA:HB2	2.34	0.48
4:AD:201:HIS:CD2	4:AD:202:LYS:CE	2.93	0.48
4:AD:183:ARG:NE	4:AD:268:ARG:HD2	2.29	0.48
4:AD:85:ASP:CB	4:AD:87:ASN:ND2	2.77	0.48
1:AA:2053:G:O4'	5:AE:149:ARG:HA	2.13	0.48
1:AA:2773:C:H5''	5:AE:165:VAL:HG13	1.95	0.48
5:AE:4:ILE:HG23	5:AE:30:PRO:HG3	1.91	0.48
6:AF:116:ASP:HA	6:AF:119:ARG:HD2	1.96	0.48
2:AB:57:A:O4'	7:AG:29:TRP:CZ3	2.67	0.48
8:AH:23:ARG:NE	8:AH:34:GLU:HB3	2.27	0.48
8:AH:43:VAL:CG1	8:AH:44:VAL:H	2.25	0.48
8:AH:45:VAL:HG13	8:AH:50:VAL:CG1	2.44	0.48
32:AJ:87:GLY:C	32:AJ:89:HIS:H	2.16	0.48
9:AK:126:PRO:HB2	9:AK:127:ASP:OD2	2.13	0.48
9:AK:17:ASP:OD1	9:AK:17:ASP:C	2.51	0.48
9:AK:30:ILE:O	9:AK:31:ALA:O	2.31	0.48
9:AK:30:ILE:HG22	9:AK:34:LEU:HD11	1.96	0.48
9:AK:38:HIS:O	9:AK:42:TRP:CZ3	2.67	0.48
9:AK:44:PRO:HG2	9:AK:45:ASN:H	1.77	0.48
9:AK:23:LEU:CG	9:AK:61:ARG:O	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:70:LYS:HD3	9:AK:86:PRO:HA	1.94	0.48
10:AL:86:ILE:CG2	10:AL:90:GLN:HA	2.43	0.48
10:AL:99:PHE:CA	10:AL:122:LEU:O	2.61	0.48
11:AM:7:ARG:H	11:AM:8:PRO:HD2	1.79	0.48
13:AO:102:GLU:HG3	13:AO:103:ARG:N	2.26	0.48
13:AO:17:ARG:O	13:AO:18:LEU:C	2.52	0.48
13:AO:54:LEU:CD1	13:AO:54:LEU:H	2.27	0.48
13:AO:88:ARG:O	13:AO:89:ASP:HB3	2.13	0.48
14:AP:49:VAL:HB	14:AP:80:LEU:HD12	1.95	0.48
2:AB:48:A:OP1	14:AP:92:TYR:CG	2.66	0.48
16:AR:14:HIS:O	16:AR:15:LYS:C	2.50	0.48
16:AR:61:TRP:CZ3	16:AR:93:LYS:C	2.87	0.48
18:AT:78:GLU:OE2	18:AT:101:SER:N	2.46	0.48
19:AU:85:PRO:HG2	19:AU:87:GLN:CG	2.31	0.48
21:AW:60:GLU:CG	21:AW:69:THR:HG22	2.44	0.48
21:AW:78:LYS:CE	21:AW:84:GLU:OE2	2.55	0.48
22:AX:7:LEU:HD12	56:BE:75:C:N4	2.28	0.48
23:AY:27:LEU:HD12	23:AY:27:LEU:H	1.77	0.48
24:AZ:55:ARG:CZ	24:AZ:55:ARG:CA	2.90	0.48
34:BA:1042:G:O2'	34:BA:1043:C:H5'	2.12	0.48
34:BA:1132:C:H2'	34:BA:1133:G:C8	2.47	0.48
34:BA:1171:G:H2'	34:BA:1172:C:H6	1.78	0.48
34:BA:134:A:P	34:BA:134:A:H8	2.36	0.48
34:BA:949:A:H4'	34:BA:1364:U:O4	2.13	0.48
34:BA:1387:G:C4	34:BA:1388:C:C5	3.02	0.48
34:BA:1428:A:C4	34:BA:1429:C:C5	3.01	0.48
34:BA:1496:C:C6	34:BA:1497:G:N7	2.80	0.48
34:BA:176:C:O2'	34:BA:177:C:H5'	2.12	0.48
34:BA:21:G:N2	34:BA:916:G:C6	2.80	0.48
34:BA:279:A:H5''	34:BA:280:C:H3'	1.93	0.48
34:BA:445:G:H2'	34:BA:446:G:H8	1.77	0.48
34:BA:458:C:H3'	34:BA:464:G:C8	2.48	0.48
34:BA:521:G:C6	34:BA:529:G:N2	2.81	0.48
34:BA:559:A:C3'	34:BA:560:U:H5'	2.43	0.48
34:BA:644:G:H2'	34:BA:645:C:H5'	1.96	0.48
34:BA:752:G:C2'	34:BA:753:A:OP2	2.61	0.48
34:BA:580:U:O4	34:BA:761:G:O6	2.31	0.48
34:BA:965:A:O2'	34:BA:966:G:O5'	2.24	0.48
34:BA:967:C:OP2	34:BA:968:A:H3'	2.13	0.48
34:BA:982:U:H1'	34:BA:983:A:H62	1.77	0.48
56:BE:15:G:N3	56:BE:16:U:C5	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BE:18:G:N2	56:BE:58:A:C4'	2.69	0.48
35:BF:36:ARG:HE	35:BF:36:ARG:HA	1.79	0.48
36:BG:11:ARG:O	36:BG:12:LEU:C	2.52	0.48
36:BG:77:ILE:HG22	36:BG:81:GLY:HA2	1.95	0.48
37:BH:121:VAL:O	37:BH:134:ASP:CB	2.61	0.48
37:BH:14:ARG:CZ	37:BH:14:ARG:O	2.62	0.48
37:BH:181:MET:HB2	37:BH:181:MET:HE3	1.70	0.48
37:BH:59:ARG:HB3	37:BH:63:LYS:NZ	2.29	0.48
37:BH:98:GLU:OE2	37:BH:107:ARG:HG3	2.12	0.48
38:BI:109:ILE:CG2	38:BI:110:LEU:N	2.75	0.48
38:BI:69:VAL:HG12	38:BI:76:ILE:HD11	1.96	0.48
39:BJ:49:ALA:HB3	51:BV:79:LEU:N	2.28	0.48
40:BK:15:ASP:N	40:BK:20:ASP:H	2.09	0.48
41:BL:114:THR:CG2	41:BL:119:LEU:HD23	2.41	0.48
41:BL:36:LEU:C	41:BL:39:LEU:HB2	2.33	0.48
35:BF:181:PHE:HE1	41:BL:70:GLN:NE2	2.11	0.48
34:BA:1179:A:O3'	42:BM:103:THR:OG1	2.32	0.48
42:BM:27:THR:CG2	42:BM:62:TYR:CE1	2.96	0.48
43:BN:60:ARG:CA	43:BN:60:ARG:NH1	2.76	0.48
44:BO:80:VAL:N	44:BO:104:GLN:NE2	2.56	0.48
44:BO:63:LEU:CD2	44:BO:63:LEU:C	2.81	0.48
44:BO:84:VAL:HB	51:BV:88:LYS:HZ3	1.78	0.48
46:BQ:70:LEU:HD12	46:BQ:74:VAL:HG23	1.95	0.48
34:BA:137:C:H1'	49:BT:62:VAL:HA	1.96	0.48
41:BL:91:ARG:CG	50:BU:34:LYS:HB2	2.27	0.48
50:BU:60:ILE:O	50:BU:62:SER:OG	2.26	0.48
50:BU:81:ARG:HG3	50:BU:84:LEU:HG	1.93	0.48
52:BW:31:ILE:O	52:BW:33:THR:N	2.46	0.48
52:BW:81:ARG:HH11	52:BW:81:ARG:HB2	1.78	0.48
57:BZ:128:ASN:CA	57:BZ:164:TYR:O	2.60	0.48
57:BZ:173:GLY:CA	57:BZ:174:LEU:O	2.61	0.48
55:BC:38:A:C3'	55:BC:39:U:C5'	2.87	0.48
45:BP:126:LYS:HD2	45:BP:126:LYS:O	2.14	0.48
37:BH:193:ASP:C	37:BH:194:LEU:HD22	2.34	0.48
57:BZ:99:VAL:HG13	57:BZ:104:GLY:C	2.34	0.48
57:BZ:99:VAL:HG13	57:BZ:105:PRO:CA	2.44	0.48
34:BA:76:G:H2'	34:BA:77:C:C6	2.48	0.48
1:AA:1043:C:H6	1:AA:1043:C:H3'	1.78	0.48
1:AA:1109:C:H2'	1:AA:1110:G:H1'	1.95	0.48
1:AA:1156:A:OP1	16:AR:55:ARG:NH2	2.45	0.48
1:AA:1223:C:H2'	1:AA:1223:C:O2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1266:G:C4	18:AT:15:ARG:NH1	2.82	0.48
1:AA:1428:C:O2'	1:AA:1429:G:P	2.72	0.48
1:AA:1515:C:H6	1:AA:1515:C:P	2.37	0.48
1:AA:151:C:C2'	1:AA:152:G:C8	2.96	0.48
1:AA:1613:G:N2	1:AA:1619:G:C8	2.76	0.48
1:AA:1746:G:P	1:AA:1746:G:H3'	2.54	0.48
1:AA:1782:C:O5'	1:AA:1783:A:OP2	2.32	0.48
1:AA:1829:A:C6	1:AA:1830:C:H1'	2.49	0.48
1:AA:1882:C:C4	1:AA:1883:G:H1'	2.48	0.48
1:AA:1837:C:C4	1:AA:1899:G:O6	2.67	0.48
1:AA:2014:A:N3	1:AA:2015:A:C2	2.81	0.48
1:AA:2057:A:C2'	1:AA:2058:A:H8	2.23	0.48
1:AA:226:G:H21	1:AA:228:A:N6	2.11	0.48
1:AA:2287:A:N1	1:AA:2346:A:C6	2.82	0.48
1:AA:2305:A:H3'	1:AA:2306:C:C5'	2.43	0.48
1:AA:2333:A:H1'	1:AA:2335:A:C2	2.41	0.48
1:AA:2405:G:O5'	1:AA:2405:G:H8	1.97	0.48
1:AA:2472:G:C2	1:AA:2475:C:C2	3.02	0.48
1:AA:2487:G:N3	1:AA:2488:A:C8	2.81	0.48
1:AA:2551:C:H2'	1:AA:2552:U:O4'	2.14	0.48
1:AA:24:G:C6	1:AA:25:U:O4	2.66	0.48
1:AA:2625:G:N1	1:AA:2777:G:N2	2.61	0.48
1:AA:2696:U:H2'	1:AA:2697:G:H8	1.79	0.48
1:AA:2699:C:H2'	1:AA:2700:C:H5'	1.95	0.48
1:AA:270(G):C:H2'	1:AA:270(H):C:C5	2.48	0.48
1:AA:2740:A:C4	1:AA:2741:A:N7	2.82	0.48
1:AA:354:G:O2'	1:AA:355:G:O4'	2.31	0.48
1:AA:270(C):C:OP1	1:AA:365:C:C1'	2.61	0.48
1:AA:386:G:O2'	1:AA:387:U:OP2	2.31	0.48
1:AA:410:G:C3'	1:AA:411:G:C8	2.96	0.48
1:AA:443:A:OP1	6:AF:46:ARG:O	2.32	0.48
1:AA:548:A:H3'	1:AA:549:G:C4'	2.44	0.48
1:AA:572:A:N6	1:AA:2029:G:H1'	2.27	0.48
1:AA:662:G:H5''	11:AM:19:VAL:CG1	2.40	0.48
1:AA:673:C:H2'	1:AA:674:G:O5'	2.12	0.48
1:AA:689:A:C2'	1:AA:690:G:O5'	2.62	0.48
1:AA:728:G:C1'	1:AA:729:G:H8	2.25	0.48
1:AA:912:C:C2'	1:AA:913:U:H5'	2.44	0.48
1:AA:852:G:C5	1:AA:926:A:C2	3.01	0.48
1:AA:942:G:C6	1:AA:943:U:C4	3.01	0.48
1:AA:973:A:H1'	1:AA:1188:U:C4	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:977:G:C6	1:AA:987:G:C5	3.02	0.48
2:AB:6:C:H5'	2:AB:27:C:H2'	1.95	0.48
2:AB:85:G:C2	2:AB:86:G:C4	3.01	0.48
3:AC:120:MET:CE	3:AC:138:PRO:HB2	2.43	0.48
3:AC:59:ARG:HB2	3:AC:164:ARG:HG2	1.96	0.48
3:AC:97:GLU:HG2	3:AC:122:ALA:CB	2.34	0.48
4:AD:45:ASN:C	4:AD:46:GLN:CG	2.81	0.48
4:AD:72:LYS:HZ2	4:AD:75:ILE:HD12	1.78	0.48
4:AD:79:VAL:HG12	4:AD:81:ALA:CA	2.43	0.48
1:AA:1655:A:C5'	5:AE:113:PHE:C	2.82	0.48
5:AE:148:GLY:O	5:AE:149:ARG:HB3	2.12	0.48
1:AA:2680:C:H5"	5:AE:188:VAL:O	2.13	0.48
5:AE:40:GLU:OE2	5:AE:41:LYS:HE2	2.13	0.48
5:AE:80:GLU:O	5:AE:83:ASP:OD2	2.31	0.48
5:AE:91:VAL:HG23	5:AE:180:ASN:CG	2.34	0.48
5:AE:91:VAL:HG22	5:AE:92:THR:N	2.28	0.48
7:AG:170:ARG:HH11	7:AG:170:ARG:HG2	1.77	0.48
7:AG:1:MET:HB3	7:AG:2:PRO:HD2	1.95	0.48
7:AG:47:LYS:HB3	7:AG:72:ARG:CB	2.44	0.48
8:AH:137:ASP:O	8:AH:141:VAL:HG23	2.13	0.48
8:AH:154:PRO:O	8:AH:155:SER:CB	2.54	0.48
8:AH:11:VAL:HG22	8:AH:76:VAL:HG11	1.94	0.48
32:AJ:53:VAL:HG22	32:AJ:71:THR:O	2.13	0.48
32:AJ:10:LEU:N	32:AJ:56:GLU:HG2	2.28	0.48
9:AK:58:ASP:O	9:AK:59:LYS:C	2.52	0.48
10:AL:106:LEU:CD1	10:AL:107:ARG:N	2.75	0.48
10:AL:11:ALA:HB3	10:AL:97:ARG:NH2	2.28	0.48
10:AL:92:GLU:CD	10:AL:113:LYS:HB3	2.34	0.48
11:AM:97:PRO:CA	11:AM:102:ARG:NE	2.75	0.48
12:AN:42:ILE:C	12:AN:94:VAL:HG21	2.34	0.48
13:AO:72:ASP:OD2	13:AO:74:LYS:HB2	2.14	0.48
14:AP:92:TYR:CE2	14:AP:93:LYS:HB3	2.48	0.48
15:AQ:70:VAL:CB	15:AQ:74:ARG:HH11	2.14	0.48
1:AA:2848:G:O5'	15:AQ:99:LEU:HG	2.13	0.48
1:AA:2021:C:N4	16:AR:28:ARG:HH12	2.12	0.48
1:AA:2021:C:H41	16:AR:28:ARG:HH22	1.60	0.48
17:AS:78:LYS:HB2	17:AS:84:LYS:CB	2.42	0.48
18:AT:5:ALA:O	18:AT:105:VAL:CG1	2.61	0.48
18:AT:21:VAL:HG22	18:AT:75:TYR:CD2	2.47	0.48
18:AT:88:ARG:CA	18:AT:88:ARG:HE	2.26	0.48
18:AT:87:PRO:C	18:AT:94:ASP:OD1	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AU:12:VAL:C	19:AU:14:SER:N	2.65	0.48
19:AU:23:GLU:C	19:AU:23:GLU:OE1	2.51	0.48
19:AU:84:ALA:CB	19:AU:85:PRO:HD3	2.40	0.48
22:AX:27:GLU:N	22:AX:69:PHE:CZ	2.82	0.48
22:AX:50:ASN:O	22:AX:81:VAL:HG21	2.13	0.48
24:AZ:29:ARG:HB2	24:AZ:30:ARG:HH21	1.72	0.48
34:BA:1103:C:HO2'	35:BF:111:ARG:HD2	1.77	0.48
34:BA:1177:G:H8	34:BA:1177:G:O5'	1.96	0.48
34:BA:1054:C:OP2	34:BA:1197:G:OP2	2.30	0.48
34:BA:1225:A:C3'	52:BW:80:TYR:HB2	2.43	0.48
34:BA:1261:A:H5'	34:BA:1284:C:OP1	2.14	0.48
34:BA:1311:G:C4	34:BA:1327:C:H1'	2.46	0.48
34:BA:1353:G:C2	34:BA:1370:G:C2	3.01	0.48
34:BA:1354:C:H2'	34:BA:1355:G:C8	2.48	0.48
34:BA:1402:C:H2'	34:BA:1403:C:C6	2.45	0.48
34:BA:1483:A:H2'	34:BA:1484:C:O4'	2.13	0.48
34:BA:15:G:C2	34:BA:16:A:C5	3.01	0.48
34:BA:191(C):G:C2'	34:BA:191(D):U:O4'	2.59	0.48
34:BA:225:C:O2	34:BA:226:G:O4'	2.32	0.48
34:BA:228:A:O2'	34:BA:229:U:H5'	2.12	0.48
34:BA:298:A:N6	34:BA:299:G:C2	2.82	0.48
34:BA:372:C:N4	34:BA:389:A:N6	2.61	0.48
34:BA:428:G:O2'	34:BA:429:U:OP2	2.30	0.48
34:BA:432:A:C8	34:BA:433:C:C6	3.01	0.48
34:BA:451:A:O2'	34:BA:452:A:C8	2.65	0.48
34:BA:536:C:O5'	34:BA:536:C:H6	1.96	0.48
34:BA:538:G:O2'	34:BA:539:A:H5'	2.14	0.48
34:BA:59:A:H4'	34:BA:388:G:O5'	2.13	0.48
34:BA:666:G:N1	34:BA:741:G:C4	2.82	0.48
34:BA:812:C:O4'	34:BA:813:U:H5	1.95	0.48
34:BA:874:G:N1	34:BA:875:C:C4	2.81	0.48
35:BF:59:GLU:HB2	35:BF:225:ALA:HB2	1.94	0.48
35:BF:74:LYS:O	35:BF:75:LYS:C	2.50	0.48
35:BF:85:ALA:O	35:BF:86:GLU:C	2.50	0.48
35:BF:73:THR:CG2	35:BF:95:GLN:O	2.59	0.48
36:BG:14:ILE:HG13	36:BG:178:LEU:CD1	2.43	0.48
36:BG:189:ALA:HB3	36:BG:196:LEU:N	2.12	0.48
36:BG:25:GLY:N	36:BG:28:GLN:NE2	2.61	0.48
37:BH:152:SER:O	37:BH:154:ASN:ND2	2.45	0.48
37:BH:63:LYS:CG	37:BH:64:LEU:N	2.77	0.48
38:BI:71:LEU:HD23	38:BI:72:GLN:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:113:GLU:CB	40:BK:118:VAL:CG1	2.91	0.48
40:BK:47:CYS:HA	40:BK:50:ILE:CG1	2.43	0.48
40:BK:72:ARG:HG2	40:BK:142:GLU:CD	2.33	0.48
41:BL:41:ARG:C	41:BL:41:ARG:HH11	2.17	0.48
42:BM:37:PHE:O	42:BM:40:LEU:HB2	2.13	0.48
45:BP:100:ILE:H	45:BP:100:ILE:CD1	2.21	0.48
34:BA:529:G:C6	45:BP:49:ASN:ND2	2.81	0.48
34:BA:1226:C:C5	46:BQ:104:ARG:CA	2.96	0.48
34:BA:136:C:H4'	49:BT:65:GLN:NE2	2.29	0.48
34:BA:376:G:OP1	49:BT:6:LEU:CD1	2.62	0.48
51:BV:25:THR:HG22	51:BV:42:ARG:CZ	2.43	0.48
51:BV:31:LEU:HD23	51:BV:65:ILE:HG13	1.95	0.48
52:BW:40:ILE:O	52:BW:68:GLY:CA	2.59	0.48
52:BW:5:LEU:HD23	52:BW:41:VAL:HG12	1.94	0.48
53:BX:40:ALA:HB2	53:BX:55:ILE:HG22	1.95	0.48
57:BZ:325:PHE:HD2	57:BZ:330:GLN:HG2	1.79	0.48
1:AA:888:C:C2	1:AA:889:C:N4	2.78	0.48
1:AA:1413:G:N2	1:AA:1590:U:H1'	2.29	0.48
1:AA:1414:G:N2	1:AA:1415:U:C2	2.81	0.48
57:BZ:189:ALA:HA	57:BZ:193:HIS:CD2	2.48	0.48
1:AA:1000:A:C2	1:AA:1155:A:N3	2.81	0.48
1:AA:1011:G:H5'	1:AA:1012:U:OP2	2.13	0.48
1:AA:1050:A:N6	1:AA:2751:G:C5	2.81	0.48
1:AA:1114:G:H21	1:AA:1115:G:H1'	1.69	0.48
1:AA:1029:A:N6	1:AA:1125:G:C2	2.81	0.48
1:AA:1011:G:C6	1:AA:1151:G:C6	3.01	0.48
1:AA:1153:C:N1	1:AA:1154:G:N7	2.62	0.48
1:AA:1275:A:O2'	1:AA:1276:A:O5'	2.17	0.48
1:AA:1298:C:C4'	1:AA:1302:A:N6	2.76	0.48
1:AA:1313:U:C2	1:AA:1314:C:C5	3.02	0.48
1:AA:1334:G:C6	1:AA:1335:U:C4	3.01	0.48
1:AA:1540:G:H3'	1:AA:1541:U:O4'	2.12	0.48
1:AA:1655:A:H4'	5:AE:114:ALA:HA	1.96	0.48
1:AA:1916:A:H3'	1:AA:1916:A:P	2.54	0.48
1:AA:2096:U:C2	1:AA:2097:C:C5	3.01	0.48
1:AA:2114:A:H8	1:AA:2114:A:P	2.36	0.48
1:AA:2126:A:O2'	1:AA:2127:G:P	2.72	0.48
1:AA:2160:G:C2	1:AA:2161:C:C2	3.01	0.48
1:AA:215:G:O2'	1:AA:216:A:OP2	2.30	0.48
1:AA:2232:U:C2'	1:AA:2233:U:C5'	2.92	0.48
1:AA:2259:G:C5	1:AA:2260:C:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2350:C:O2'	1:AA:2351:G:P	2.71	0.48
1:AA:411:G:N3	1:AA:2408:U:C4	2.81	0.48
1:AA:2449:U:O4'	1:AA:2449:U:P	2.72	0.48
1:AA:2505:G:H3'	1:AA:2505:G:H8	1.78	0.48
1:AA:2507:C:C1'	59:AA:3002:8AN:N9	2.33	0.48
1:AA:2512:C:C3'	1:AA:2512:C:C6	2.97	0.48
1:AA:2528:U:C2	1:AA:2536:G:N2	2.82	0.48
1:AA:2528:U:O2	1:AA:2536:G:N2	2.47	0.48
1:AA:253:C:C2'	1:AA:254:G:O5'	2.62	0.48
1:AA:2597:G:C6	1:AA:2598:A:C6	3.02	0.48
1:AA:270(T):G:N3	1:AA:270(T):G:H2'	2.29	0.48
1:AA:2741:A:H2'	1:AA:2742:C:H6	1.78	0.48
1:AA:2756:U:C4	1:AA:2758:A:C6	3.00	0.48
1:AA:2850:A:C2'	1:AA:2851:A:O5'	2.61	0.48
1:AA:371:A:C2	1:AA:372:G:C6	3.02	0.48
1:AA:393:C:O2'	1:AA:394:A:H5'	2.14	0.48
1:AA:462:C:C6	1:AA:468:G:N2	2.82	0.48
1:AA:514:A:C2'	1:AA:515:A:H5'	2.44	0.48
1:AA:61:G:C2	1:AA:62:C:C2	3.02	0.48
1:AA:63:U:O2'	1:AA:64:A:N7	2.40	0.48
1:AA:720:C:O2'	1:AA:721:C:C5'	2.61	0.48
1:AA:729:G:O2'	1:AA:730:C:O3'	2.30	0.48
1:AA:742:G:O2'	1:AA:743:G:H5'	2.13	0.48
1:AA:850:C:H5''	24:AZ:18:ASP:CB	2.43	0.48
1:AA:663:G:C2'	1:AA:940:G:H4'	2.43	0.48
1:AA:956:G:P	12:AN:87:LYS:HG3	2.53	0.48
2:AB:103:U:H5''	2:AB:103:U:H6	1.79	0.48
2:AB:31:C:N4	2:AB:32:C:H41	2.12	0.48
2:AB:61:G:C4	2:AB:62:C:C5	3.02	0.48
2:AB:75:G:N2	21:AW:87:ASP:OD1	2.46	0.48
3:AC:18:LYS:O	3:AC:20:TYR:CE1	2.66	0.48
4:AD:117:VAL:C	4:AD:118:VAL:CG2	2.81	0.48
4:AD:147:LEU:H	4:AD:154:LYS:CG	2.27	0.48
4:AD:6:PHE:C	4:AD:28:GLU:OE1	2.52	0.48
4:AD:33:LEU:CD1	4:AD:61:LEU:HD11	2.44	0.48
5:AE:149:ARG:HH11	5:AE:151:TYR:CA	2.26	0.48
5:AE:197:ILE:CD1	5:AE:197:ILE:N	2.60	0.48
5:AE:49:LEU:HD11	5:AE:51:PHE:HD1	1.78	0.48
6:AF:18:ARG:CG	6:AF:18:ARG:NH1	2.72	0.48
6:AF:202:PHE:CD2	6:AF:205:ARG:HD2	2.48	0.48
6:AF:35:GLU:CA	6:AF:38:ARG:HD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1255:U:O2	6:AF:72:ARG:HB3	2.14	0.48
7:AG:163:ALA:CB	7:AG:169:ALA:HA	2.25	0.48
7:AG:107:LEU:HD21	7:AG:173:LEU:HD21	1.95	0.48
7:AG:21:ARG:O	7:AG:22:ARG:C	2.52	0.48
8:AH:136:ILE:H	8:AH:141:VAL:HG21	1.78	0.48
8:AH:155:SER:O	8:AH:158:HIS:O	2.32	0.48
9:AK:66:LYS:C	9:AK:69:GLN:OE1	2.52	0.48
9:AK:74:ARG:O	9:AK:74:ARG:CG	2.50	0.48
10:AL:6:THR:HA	10:AL:7:TYR:CE1	2.49	0.48
10:AL:9:GLU:OE1	10:AL:9:GLU:HA	2.13	0.48
11:AM:117:GLU:N	11:AM:117:GLU:CD	2.67	0.48
1:AA:1244:G:C5'	11:AM:9:ASN:CB	2.81	0.48
12:AN:11:LYS:HZ3	12:AN:73:PRO:HB3	1.77	0.48
13:AO:96:ARG:O	13:AO:114:VAL:HA	2.13	0.48
13:AO:96:ARG:NE	13:AO:117:VAL:HG23	2.28	0.48
14:AP:26:LEU:O	14:AP:88:ASP:CB	2.53	0.48
14:AP:29:PHE:C	14:AP:30:ARG:HG2	2.34	0.48
15:AQ:30:VAL:HG23	15:AQ:31:SER:H	1.77	0.48
15:AQ:70:VAL:HG23	15:AQ:74:ARG:HD3	1.89	0.48
10:AL:122:LEU:CA	15:AQ:74:ARG:NH1	2.68	0.48
15:AQ:85:LYS:HG3	15:AQ:88:ILE:HG12	1.95	0.48
16:AR:33:ARG:C	16:AR:35:ALA:N	2.66	0.48
16:AR:33:ARG:NH1	16:AR:33:ARG:HB2	2.28	0.48
1:AA:445:C:H5''	16:AR:3:ARG:HG2	1.95	0.48
16:AR:74:LEU:C	16:AR:78:THR:OG1	2.52	0.48
17:AS:13:ARG:C	17:AS:14:VAL:CG2	2.82	0.48
16:AR:50:ARG:NE	17:AS:75:PHE:CD2	2.74	0.48
18:AT:25:ARG:CZ	18:AT:74:ALA:O	2.62	0.48
20:AV:26:LYS:CE	20:AV:36:ALA:HB3	2.44	0.48
20:AV:81:LYS:CG	20:AV:96:ILE:HG23	2.38	0.48
22:AX:27:GLU:HA	22:AX:67:VAL:HG11	1.96	0.48
22:AX:40:GLN:HG2	22:AX:45:PHE:CD1	2.48	0.48
1:AA:856:C:C1'	22:AX:69:PHE:CD1	2.96	0.48
24:AZ:6:VAL:CG2	24:AZ:35:ARG:NH2	2.77	0.48
24:AZ:9:VAL:HG13	24:AZ:54:VAL:CA	2.37	0.48
34:BA:1025:U:OP1	34:BA:1025:U:H4'	2.13	0.48
34:BA:1212:U:O4'	34:BA:1212:U:OP2	2.32	0.48
34:BA:1287:A:H2'	34:BA:1288:A:N7	2.28	0.48
34:BA:1323:G:C2	34:BA:1324:A:C5	3.02	0.48
34:BA:1405:G:C2	34:BA:1406:U:C5	3.01	0.48
34:BA:1422:G:O2'	34:BA:1423:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1454:G:OP2	53:BX:39:LYS:NZ	2.45	0.48
34:BA:1502:A:C6	34:BA:1504:G:C2	3.01	0.48
34:BA:293:G:C4	34:BA:294:U:C5	3.02	0.48
34:BA:292:G:OP2	34:BA:293:G:N7	2.47	0.48
34:BA:323:U:H5	34:BA:324:G:N9	2.11	0.48
34:BA:342:C:C2	34:BA:343:U:C5	3.02	0.48
34:BA:409:G:C4	34:BA:410:G:C8	3.02	0.48
34:BA:430:A:C5	34:BA:431:A:C8	3.01	0.48
34:BA:786:G:N2	34:BA:787:A:H1'	2.28	0.48
34:BA:946:A:C2'	34:BA:947:G:H8	2.21	0.48
34:BA:960:U:O2'	34:BA:961:U:P	2.72	0.48
35:BF:168:THR:CB	35:BF:192:SER:HA	2.43	0.48
35:BF:208:ILE:HA	35:BF:211:ILE:CD1	2.42	0.48
35:BF:59:GLU:CA	35:BF:221:LEU:HD21	2.43	0.48
35:BF:81:VAL:HB	35:BF:94:ASN:OD1	2.14	0.48
36:BG:58:GLU:HB2	36:BG:65:ALA:CB	2.44	0.48
38:BI:77:PRO:HG2	38:BI:78:HIS:H	1.79	0.48
38:BI:7:GLU:HG2	38:BI:112:LEU:CD2	2.41	0.48
39:BJ:12:PRO:HG2	39:BJ:13:ASN:ND2	2.28	0.48
40:BK:102:ARG:O	40:BK:105:VAL:N	2.47	0.48
40:BK:37:ASN:O	40:BK:39:ALA:N	2.47	0.48
40:BK:44:TYR:O	40:BK:45:ASP:C	2.52	0.48
40:BK:65:ALA:CB	40:BK:124:LEU:HD23	2.43	0.48
41:BL:3:THR:HB	41:BL:4:ASP:OD1	2.14	0.48
41:BL:25:ASP:HA	41:BL:59:LEU:O	2.14	0.48
42:BM:82:ALA:CB	42:BM:101:PHE:CE1	2.97	0.48
42:BM:113:LYS:O	42:BM:115:GLY:N	2.38	0.48
43:BN:31:GLY:CA	43:BN:81:THR:OG1	2.62	0.48
45:BP:106:ASP:O	45:BP:107:ALA:C	2.51	0.48
45:BP:102:ARG:CZ	45:BP:109:GLY:C	2.82	0.48
45:BP:24:VAL:CG1	45:BP:26:ALA:H	2.26	0.48
43:BN:46:ARG:NH1	47:BR:59:ALA:CB	2.77	0.48
48:BS:63:ARG:HH12	48:BS:87:ILE:HD13	1.76	0.48
49:BT:53:VAL:HA	49:BT:79:VAL:HG22	1.95	0.48
51:BV:36:ASN:O	51:BV:37:VAL:C	2.52	0.48
51:BV:52:PRO:O	51:BV:55:ARG:N	2.40	0.48
51:BV:62:GLU:C	51:BV:66:LEU:HG	2.31	0.48
57:BZ:158:LEU:CA	57:BZ:159:ASP:CB	2.88	0.48
57:BZ:212:LEU:HD11	57:BZ:220:VAL:HG11	1.95	0.48
57:BZ:236:GLN:CA	57:BZ:247:ARG:CA	2.53	0.48
1:AA:2660:A:N3	57:BZ:457:THR:N	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BC:26:A:C6	55:BC:27:G:C5	3.01	0.48
23:AY:6:GLU:CD	23:AY:6:GLU:N	2.66	0.48
1:AA:1578:U:C2'	1:AA:1579:A:O5'	2.61	0.48
34:BA:443:C:C2	34:BA:492:G:C2	3.02	0.48
37:BH:159:ARG:HD2	37:BH:163:GLU:CD	2.34	0.48
31:AI:136:ALA:C	31:AI:138:LEU:H	2.15	0.48
56:BD:38:A:H2'	56:BD:39:U:O4'	2.14	0.48
1:AA:1008:C:O2'	1:AA:1009:A:P	2.71	0.48
1:AA:1119:C:O2	1:AA:1119:C:H2'	2.13	0.48
1:AA:116:C:C2'	1:AA:117:G:O5'	2.62	0.48
1:AA:1221:C:C2	1:AA:1229:G:C2	3.02	0.48
1:AA:1234:U:H2'	1:AA:1235:G:O4'	2.14	0.48
1:AA:1267:U:C5	1:AA:1268:A:N7	2.82	0.48
1:AA:1457:A:H2'	1:AA:1458:C:H5'	1.94	0.48
1:AA:149:A:C8	1:AA:150:C:N1	2.81	0.48
1:AA:1620:G:C2	1:AA:1621:U:C2	3.01	0.48
1:AA:1697:G:O6	1:AA:1698:A:N1	2.47	0.48
1:AA:1775:U:C1'	4:AD:208:LYS:NZ	2.76	0.48
1:AA:1800:C:C4	1:AA:1818:U:C2	3.02	0.48
1:AA:1802:A:H5'	1:AA:1803:A:P	2.54	0.48
1:AA:1864:U:O2'	1:AA:1869:G:H5'	2.12	0.48
1:AA:1958:C:H2'	1:AA:1959:G:O5'	2.13	0.48
1:AA:2053:G:C2	1:AA:2054:A:C8	3.02	0.48
1:AA:2058:A:N1	1:AA:2059:A:N6	2.52	0.48
1:AA:2346:A:H2	1:AA:2383:G:C2	2.32	0.48
1:AA:2387:U:H6	1:AA:2387:U:O5'	1.97	0.48
1:AA:2398:U:H2'	1:AA:2399:G:C8	2.45	0.48
1:AA:2423:U:C6	1:AA:2425:A:C5	3.02	0.48
1:AA:2440:C:H2'	1:AA:2441:C:O5'	2.13	0.48
1:AA:2471:C:H2'	1:AA:2472:G:C5'	2.44	0.48
1:AA:2543:G:N2	1:AA:2765:A:N3	2.61	0.48
1:AA:270(J):G:N1	1:AA:270(K):C:C2	2.82	0.48
1:AA:2723:C:OP2	5:AE:109:LYS:NZ	2.46	0.48
1:AA:2872:G:C2	1:AA:2873:A:N6	2.82	0.48
1:AA:2877:G:N2	1:AA:2878:U:C2	2.82	0.48
1:AA:289:A:C4	1:AA:351:G:C6	3.01	0.48
1:AA:307:G:H21	1:AA:330:A:N6	2.12	0.48
1:AA:332:A:C8	1:AA:335:C:C4	3.01	0.48
1:AA:323:G:C2	1:AA:333:G:H1'	2.49	0.48
1:AA:278:A:N7	1:AA:359:A:H2	2.12	0.48
1:AA:400:G:C3'	1:AA:400:G:C8	2.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:408:G:O5'	1:AA:408:G:C8	2.64	0.48
1:AA:484:C:C2'	1:AA:485:C:H6	2.13	0.48
1:AA:498:G:C8	1:AA:498:G:O5'	2.61	0.48
1:AA:501:A:N7	1:AA:502:A:N6	2.61	0.48
1:AA:531:C:C5'	1:AA:532:A:N3	2.77	0.48
1:AA:573:G:C2'	1:AA:574:C:C5'	2.91	0.48
1:AA:627:A:N6	1:AA:637:A:H1'	2.26	0.48
1:AA:697:C:C3'	1:AA:698:C:H5''	2.43	0.48
1:AA:735:A:C8	1:AA:735:A:O5'	2.57	0.48
1:AA:878:A:H2'	1:AA:879:G:C8	2.47	0.48
1:AA:954:G:C6	1:AA:955:C:C2	3.02	0.48
2:AB:45:A:C6	2:AB:46:A:C4	3.02	0.48
2:AB:75:G:N2	21:AW:87:ASP:CG	2.66	0.48
3:AC:155:GLU:OE1	3:AC:155:GLU:HA	2.13	0.48
3:AC:158:ALA:C	3:AC:159:GLY:HA3	2.34	0.48
1:AA:2173:A:N9	3:AC:218:MET:HE3	2.29	0.48
3:AC:21:THR:HG1	3:AC:24:GLU:CD	2.17	0.48
4:AD:159:ALA:HB1	4:AD:198:ASN:O	2.14	0.48
4:AD:226:MET:HB3	4:AD:227:ASN:H	1.36	0.48
4:AD:251:GLY:HA2	4:AD:255:LYS:HZ2	1.77	0.48
4:AD:79:VAL:HG12	4:AD:81:ALA:N	2.28	0.48
5:AE:102:VAL:CA	5:AE:202:LYS:HZ2	2.27	0.48
5:AE:128:SER:OG	5:AE:129:HIS:CD2	2.67	0.48
5:AE:59:VAL:O	5:AE:62:PRO:HD2	2.14	0.48
5:AE:60:ASN:OD1	5:AE:61:ARG:N	2.47	0.48
5:AE:61:ARG:CB	5:AE:62:PRO:HD3	2.44	0.48
5:AE:52:LEU:CB	5:AE:73:GLU:O	2.57	0.48
5:AE:91:VAL:O	5:AE:92:THR:CB	2.62	0.48
6:AF:106:ARG:CB	6:AF:106:ARG:HH21	2.27	0.48
6:AF:119:ARG:HD3	6:AF:120:GLU:OE1	2.14	0.48
6:AF:80:ALA:HB1	6:AF:81:PRO:HD2	1.95	0.48
7:AG:57:ALA:HA	7:AG:67:LYS:CA	2.44	0.48
8:AH:71:LEU:O	8:AH:74:ASN:CB	2.61	0.48
8:AH:9:ILE:HD13	8:AH:73:ALA:HB1	1.95	0.48
1:AA:1056:G:P	31:AI:34:ALA:H	2.37	0.48
1:AA:1067:A:C4'	32:AJ:21:PRO:CB	2.91	0.48
9:AK:78:TYR:O	9:AK:80:GLY:N	2.46	0.48
10:AL:1:MET:HG3	10:AL:2:ILE:N	2.28	0.48
10:AL:64:ARG:NH2	10:AL:78:ARG:NH1	2.61	0.48
1:AA:1665:A:C4'	10:AL:66:LYS:HB2	2.43	0.48
10:AL:70:LYS:CB	10:AL:72:PRO:HD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:603:A:H5''	11:AM:100:LEU:HD21	1.95	0.48
11:AM:101:VAL:HG23	11:AM:101:VAL:O	2.12	0.48
11:AM:113:LYS:HZ2	11:AM:115:LEU:CD1	2.24	0.48
12:AN:134:ARG:CG	12:AN:134:ARG:HH11	2.26	0.48
13:AO:74:LYS:N	13:AO:77:ARG:NH2	2.61	0.48
13:AO:75:LEU:HD23	13:AO:75:LEU:HA	1.46	0.48
14:AP:14:VAL:CG1	14:AP:15:ARG:N	2.64	0.48
14:AP:49:VAL:CG2	14:AP:50:SER:N	2.76	0.48
15:AQ:65:LYS:NZ	15:AQ:75:ILE:HD13	2.28	0.48
15:AQ:50:ILE:CG2	15:AQ:68:TYR:HB2	2.44	0.48
16:AR:32:PHE:O	16:AR:36:ARG:HG2	2.14	0.48
17:AS:4:ILE:N	17:AS:4:ILE:CD1	2.73	0.48
20:AV:22:GLY:HA3	20:AV:73:ARG:CZ	2.38	0.48
20:AV:84:ARG:HG2	20:AV:85:VAL:N	2.28	0.48
22:AX:14:ARG:N	22:AX:14:ARG:HD3	2.29	0.48
24:AZ:16:PRO:O	24:AZ:19:GLN:N	2.47	0.48
24:AZ:39:ASP:C	24:AZ:44:ARG:HD3	2.32	0.48
34:BA:1081:G:H2'	34:BA:1082:G:C8	2.48	0.48
34:BA:1138:G:C2	34:BA:1140:C:C5	3.02	0.48
34:BA:1142:G:H2'	34:BA:1143:G:C8	2.41	0.48
34:BA:1181:G:H2'	34:BA:1182:G:C4'	2.44	0.48
34:BA:1237:C:C4'	34:BA:1334:G:N2	2.76	0.48
34:BA:1325:C:C2	34:BA:1326:C:C5	3.01	0.48
34:BA:1338:G:N2	56:BE:29:G:H22	2.12	0.48
34:BA:1414:U:C2'	34:BA:1415:G:H8	2.23	0.48
34:BA:22:G:P	34:BA:561:U:O2	2.72	0.48
34:BA:247:G:N2	34:BA:282:A:C2	2.77	0.48
34:BA:30:U:O2'	34:BA:31:G:P	2.71	0.48
34:BA:48:C:C5	34:BA:364:A:H2	2.32	0.48
34:BA:432:A:C8	34:BA:433:C:C5	3.02	0.48
34:BA:729:A:C2'	34:BA:730:G:O5'	2.62	0.48
34:BA:744:C:H2'	34:BA:745:C:C6	2.48	0.48
34:BA:761:G:H1'	50:BU:103:GLY:O	2.13	0.48
34:BA:878:G:O2'	34:BA:879:C:H5'	2.13	0.48
56:BE:4:C:H2'	56:BE:6:G:C8	2.48	0.48
56:BE:7:A:C1'	56:BE:49:C:OP2	2.62	0.48
35:BF:181:PHE:CE1	41:BL:70:GLN:NE2	2.82	0.48
35:BF:187:LEU:HD23	35:BF:201:ILE:O	2.14	0.48
35:BF:207:ALA:O	35:BF:209:ARG:N	2.46	0.48
35:BF:209:ARG:HD2	35:BF:209:ARG:C	2.33	0.48
35:BF:218:ALA:O	35:BF:219:VAL:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:114:PRO:O	36:BG:117:ALA:HB3	2.14	0.48
36:BG:57:ILE:HG23	36:BG:66:VAL:HG22	1.96	0.48
37:BH:201:GLN:O	37:BH:202:LEU:C	2.52	0.48
37:BH:87:GLY:O	37:BH:88:VAL:C	2.51	0.48
34:BA:430:A:P	37:BH:9:CYS:H	2.36	0.48
38:BI:76:ILE:CG2	38:BI:142:LEU:HD13	2.44	0.48
38:BI:72:GLN:HE22	38:BI:144:THR:HG23	1.74	0.48
38:BI:144:THR:HG22	38:BI:146:ALA:CB	2.44	0.48
38:BI:34:VAL:CG2	38:BI:62:ALA:CB	2.91	0.48
39:BJ:69:GLU:HB2	39:BJ:70:ASP:H	1.43	0.48
40:BK:123:GLU:OE1	40:BK:134:ALA:CB	2.62	0.48
41:BL:85:ARG:CD	41:BL:134:ILE:O	2.59	0.48
42:BM:17:VAL:CG2	42:BM:77:ILE:HG23	2.44	0.48
42:BM:4:TYR:HB3	42:BM:87:GLN:HB2	1.95	0.48
44:BO:85:ARG:CZ	44:BO:111:ASP:OD2	2.61	0.48
44:BO:91:ARG:CD	44:BO:95:ILE:HD11	2.44	0.48
44:BO:99:GLN:HA	44:BO:105:VAL:CG2	2.44	0.48
45:BP:82:VAL:HB	45:BP:106:ASP:OD2	2.13	0.48
45:BP:26:ALA:C	45:BP:27:LEU:O	2.52	0.48
45:BP:59:ARG:CA	45:BP:64:TYR:O	2.51	0.48
45:BP:79:GLU:O	45:BP:81:SER:N	2.43	0.48
45:BP:86:ARG:HD3	45:BP:101:VAL:HG11	1.96	0.48
46:BQ:108:ARG:HH12	46:BQ:111:LYS:HB3	1.75	0.48
49:BT:71:ARG:NH1	49:BT:71:ARG:HB2	2.29	0.48
51:BV:87:ARG:HH11	51:BV:87:ARG:HG2	1.79	0.48
52:BW:68:GLY:O	52:BW:69:HIS:ND1	2.46	0.48
57:BZ:158:LEU:HD12	57:BZ:158:LEU:N	2.29	0.48
57:BZ:240:ILE:HG22	57:BZ:241:ASP:H	1.78	0.48
57:BZ:311:PHE:O	57:BZ:356:PHE:N	2.45	0.48
57:BZ:401:GLU:HB3	57:BZ:467:SER:CB	2.42	0.48
57:BZ:443:ILE:CD1	57:BZ:447:GLY:O	2.61	0.48
57:BZ:382:VAL:HG23	57:BZ:569:LEU:HG	1.92	0.48
57:BZ:64:ILE:CB	57:BZ:65:LYS:HA	2.42	0.48
57:BZ:61:THR:HG21	57:BZ:65:LYS:HB3	1.90	0.48
57:BZ:73:VAL:HB	57:BZ:74:ASP:O	2.14	0.48
1:AA:1488:G:H3'	1:AA:1489:U:C5'	2.44	0.48
1:AA:1588:C:C2'	1:AA:1589:C:O5'	2.62	0.48
34:BA:1031:G:C6	34:BA:1032:A:C6	3.01	0.48
1:AA:276:A:H2'	1:AA:276:A:N3	2.28	0.48
1:AA:1066:U:O3'	1:AA:1068:G:OP2	2.31	0.48
1:AA:107:C:H2'	1:AA:108:U:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1115:G:N2	1:AA:1116:C:O2	2.47	0.48
1:AA:1129:A:HO2'	1:AA:2515:C:H1'	1.79	0.48
1:AA:1144:G:O2'	1:AA:1145:C:H5'	2.13	0.48
1:AA:1165:U:O2'	1:AA:1166:C:O4'	2.32	0.48
1:AA:1238:G:N1	1:AA:1239:G:C5	2.82	0.48
1:AA:1281:G:C4	1:AA:1282:U:C5	3.01	0.48
1:AA:1299:G:O3'	1:AA:1300:U:C6	2.67	0.48
1:AA:1348:G:C2'	1:AA:1349:A:O5'	2.62	0.48
1:AA:1359:A:C4	1:AA:1373:A:C2	3.02	0.48
1:AA:141:A:N3	1:AA:1596:A:O2'	2.41	0.48
1:AA:1453:A:N7	13:AO:73:VAL:CG1	2.77	0.48
1:AA:1475:G:C2	1:AA:1476:C:H6	2.31	0.48
1:AA:1513:C:H2'	1:AA:1514:U:H5	1.79	0.48
1:AA:1609:A:N6	1:AA:1616:A:H2	2.04	0.48
1:AA:1645:G:H8	1:AA:1645:G:OP2	1.97	0.48
1:AA:1651:G:H5''	1:AA:1652:A:OP1	2.13	0.48
1:AA:1703:G:C2'	1:AA:1704:G:H5'	2.44	0.48
1:AA:1761:C:H5''	1:AA:1762:A:C2	2.49	0.48
1:AA:740:U:O4'	1:AA:1784:A:C6	2.67	0.48
1:AA:1859:A:O5'	1:AA:1859:A:H8	1.96	0.48
1:AA:1949:G:O2'	1:AA:1950:G:C5'	2.59	0.48
1:AA:2020:A:H2'	1:AA:2021:C:C5'	2.34	0.48
1:AA:2072:G:C6	1:AA:2073:C:C4	3.02	0.48
1:AA:215:G:C4'	1:AA:216:A:H4'	2.44	0.48
1:AA:2324:C:C2'	1:AA:2325:G:OP1	2.61	0.48
1:AA:2373:G:O2'	1:AA:2374:C:C6	2.61	0.48
1:AA:2397:G:C2	1:AA:2420:C:C2	3.02	0.48
1:AA:2415:G:C2	1:AA:2416:C:C4	3.01	0.48
1:AA:253:C:C2'	1:AA:254:G:C5'	2.91	0.48
1:AA:2585:U:C2'	1:AA:2586:C:OP2	2.62	0.48
1:AA:2601:C:C2	1:AA:2603:G:N7	2.82	0.48
1:AA:2604:U:H2'	1:AA:2605:U:C6	2.49	0.48
1:AA:2623:G:N2	1:AA:2624:G:C4	2.81	0.48
1:AA:2630:G:C2	1:AA:2789:C:N3	2.80	0.48
1:AA:2640:G:C4	1:AA:2641:G:C8	3.01	0.48
1:AA:2787:C:H1'	5:AE:61:ARG:CZ	2.43	0.48
1:AA:2799:A:C4'	1:AA:2802:G:C2	2.96	0.48
1:AA:2828:C:H2'	1:AA:2829:C:H6	1.78	0.48
1:AA:2847:U:H5'	1:AA:2848:G:OP2	2.13	0.48
1:AA:352:G:C2	1:AA:353:G:H1'	2.48	0.48
1:AA:606:U:OP2	1:AA:606:U:C5	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:628:G:N1	1:AA:629:G:C6	2.81	0.48
1:AA:729:G:OP1	4:AD:19:ALA:HB1	2.14	0.48
1:AA:768:G:H8	1:AA:768:G:O5'	1.96	0.48
1:AA:83:G:C6	1:AA:102:G:N3	2.81	0.48
1:AA:936:C:C2	1:AA:937:U:C5	3.02	0.48
2:AB:61:G:C2	2:AB:62:C:C2	3.01	0.48
3:AC:43:VAL:CB	3:AC:224:ILE:CD1	2.85	0.48
4:AD:105:ILE:CD1	4:AD:106:ILE:N	2.70	0.48
4:AD:149:PRO:HG3	4:AD:189:CYS:SG	2.54	0.48
4:AD:38:LYS:H	4:AD:38:LYS:HD2	1.78	0.48
1:AA:1569:A:O3'	4:AD:39:LYS:HE2	2.13	0.48
4:AD:6:PHE:O	4:AD:28:GLU:OE1	2.31	0.48
4:AD:95:LEU:CD2	4:AD:96:HIS:N	2.70	0.48
4:AD:9:TYR:CE1	4:AD:25:THR:CG2	2.96	0.48
5:AE:121:ASN:O	5:AE:122:PHE:C	2.52	0.48
5:AE:37:ARG:CB	5:AE:40:GLU:HB2	2.43	0.48
5:AE:8:LYS:CE	5:AE:8:LYS:CA	2.78	0.48
5:AE:8:LYS:CE	15:AQ:3:ARG:HG3	2.44	0.48
6:AF:132:VAL:HG23	6:AF:135:LYS:HB2	1.96	0.48
6:AF:169:ASN:ND2	6:AF:171:PRO:O	2.47	0.48
1:AA:323:G:H2'	6:AF:170:LEU:CG	2.42	0.48
1:AA:2465:C:O3'	6:AF:5:ALA:HB3	120.36	0.48
7:AG:148:MET:HB3	7:AG:151:ALA:CB	2.40	0.48
7:AG:94:LEU:N	7:AG:94:LEU:CD1	2.76	0.48
8:AH:118:PRO:CG	8:AH:144:VAL:HG21	2.37	0.48
8:AH:32:GLU:O	8:AH:33:LEU:C	2.52	0.48
1:AA:1080:C:O2'	32:AJ:125:ARG:HB3	2.12	0.48
9:AK:107:LEU:HD11	9:AK:113:GLY:C	2.33	0.48
9:AK:12:ARG:CD	9:AK:50:ASP:OD1	2.62	0.48
11:AM:46:LYS:HZ1	11:AM:50:ARG:NH1	2.12	0.48
1:AA:2406:U:O2'	11:AM:67:MET:CG	2.62	0.48
14:AP:57:LYS:HD2	14:AP:65:VAL:HA	1.95	0.48
15:AQ:85:LYS:H	15:AQ:85:LYS:HZ3	1.61	0.48
17:AS:22:VAL:O	17:AS:93:GLU:OE1	2.31	0.48
18:AT:59:VAL:HG21	18:AT:66:GLU:HG3	1.94	0.48
21:AW:95:PRO:HG2	21:AW:131:ARG:CD	2.44	0.48
21:AW:75:ASN:O	21:AW:84:GLU:N	2.45	0.48
22:AX:21:LEU:HA	22:AX:39:ARG:HB2	1.96	0.48
22:AX:56:ASP:CG	22:AX:58:THR:HB	2.34	0.48
24:AZ:35:ARG:NH1	24:AZ:47:VAL:CG2	2.74	0.48
34:BA:1087:G:N2	34:BA:1099:G:C4	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1134:G:C6	34:BA:1141:C:N4	2.82	0.48
34:BA:1181:G:H2'	34:BA:1182:G:H5'	1.96	0.48
34:BA:1261:A:H2'	34:BA:1261:A:N3	2.28	0.48
34:BA:1274:G:H21	34:BA:1275:A:N6	2.11	0.48
34:BA:1370:G:H5''	42:BM:12:GLU:CG	2.44	0.48
34:BA:1455:G:H5''	53:BX:31:SER:CB	2.40	0.48
34:BA:1495:U:C2'	34:BA:1496:C:H5'	2.38	0.48
34:BA:20:U:H5	34:BA:916:G:H1	1.61	0.48
34:BA:22:G:C4'	34:BA:885:G:O4'	2.62	0.48
34:BA:124:G:N2	34:BA:238:G:H1'	2.28	0.48
34:BA:439:A:C2	34:BA:496:A:H1'	2.49	0.48
34:BA:439:A:H3'	34:BA:440:A:C8	2.45	0.48
34:BA:502:G:O2'	34:BA:503:C:H5'	2.13	0.48
34:BA:521:G:N2	34:BA:522:C:C2	2.81	0.48
34:BA:541:G:OP2	34:BA:541:G:C8	2.67	0.48
34:BA:690:G:H3'	34:BA:691:G:C8	2.49	0.48
34:BA:778:G:C2	34:BA:779:C:C6	3.02	0.48
34:BA:842:C:H5'	34:BA:848:C:O2	2.13	0.48
34:BA:862:C:N3	34:BA:863:U:H5	2.12	0.48
34:BA:872:A:C4	34:BA:874:G:N7	2.82	0.48
34:BA:87:A:N7	34:BA:88:C:C5	2.81	0.48
34:BA:821:G:O6	34:BA:880:C:N4	2.46	0.48
34:BA:22:G:O4'	34:BA:885:G:H1'	2.14	0.48
34:BA:891:U:C5	34:BA:906:G:N2	2.82	0.48
35:BF:124:SER:C	35:BF:126:GLU:N	2.67	0.48
35:BF:144:ARG:O	35:BF:147:LYS:CB	2.60	0.48
35:BF:115:LEU:HD23	35:BF:149:LEU:HD13	1.94	0.48
35:BF:168:THR:HG21	35:BF:192:SER:HA	1.96	0.48
36:BG:116:VAL:HG13	36:BG:119:ARG:HD3	1.96	0.48
36:BG:16:ARG:O	36:BG:17:ASP:OD1	2.31	0.48
36:BG:114:PRO:HD3	36:BG:183:ASP:CG	2.34	0.48
36:BG:29:TYR:CD1	47:BR:36:PHE:HZ	2.32	0.48
37:BH:104:VAL:CG2	37:BH:105:VAL:N	2.76	0.48
37:BH:128:VAL:HB	37:BH:132:ARG:HA	1.95	0.48
37:BH:14:ARG:HD3	37:BH:15:GLU:OE1	2.14	0.48
37:BH:75:PHE:HE1	37:BH:97:LEU:CD2	2.27	0.48
38:BI:91:LEU:HA	38:BI:119:LEU:O	2.14	0.48
38:BI:96:PRO:C	38:BI:98:THR:H	2.17	0.48
40:BK:49:ILE:CG2	40:BK:121:ALA:HB1	2.33	0.48
41:BL:18:ARG:HH12	41:BL:78:GLN:CD	2.16	0.48
41:BL:68:ARG:CD	41:BL:69:ARG:N	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:5:TYR:HD2	42:BM:6:GLY:H	1.62	0.48
42:BM:79:LEU:O	42:BM:82:ALA:HB3	2.12	0.48
42:BM:85:LEU:HD11	42:BM:92:TYR:HE1	1.77	0.48
36:BG:5:ILE:CG2	43:BN:51:ARG:HH22	2.27	0.48
43:BN:63:PHE:HA	47:BR:59:ALA:N	2.28	0.48
43:BN:74:ILE:HD11	43:BN:85:LEU:HD21	1.96	0.48
44:BO:60:ALA:O	44:BO:63:LEU:N	2.47	0.48
44:BO:85:ARG:HD3	44:BO:85:ARG:HA	1.56	0.48
45:BP:53:ARG:CZ	45:BP:92:ASP:OD2	2.62	0.48
48:BS:17:ARG:HH11	48:BS:77:ARG:HD3	1.72	0.48
50:BU:36:ILE:H	50:BU:36:ILE:HD13	1.74	0.48
51:BV:63:GLN:HA	51:BV:66:LEU:HD21	1.94	0.48
34:BA:1226:C:P	52:BW:80:TYR:HB3	2.54	0.48
34:BA:261:U:O4	53:BX:79:ARG:NH2	2.46	0.48
57:BZ:11:ILE:CG2	57:BZ:112:VAL:CG2	2.88	0.48
57:BZ:230:LYS:HD2	57:BZ:230:LYS:C	2.33	0.48
57:BZ:578:VAL:HG13	57:BZ:587:ILE:CG1	2.24	0.48
60:BZ:701:GCP:H8	60:BZ:701:GCP:O5'	2.14	0.48
57:BZ:74:ASP:C	57:BZ:75:THR:HG1	2.15	0.48
57:BZ:18:LYS:HG3	57:BZ:76:PRO:HB3	1.43	0.48
57:BZ:95:VAL:O	57:BZ:124:ILE:HB	2.14	0.48
37:BH:47:ARG:NH2	37:BH:48:ALA:O	2.46	0.48
57:BZ:258:LEU:HD23	57:BZ:259:GLY:HA3	1.95	0.48
1:AA:363(B):G:O2'	1:AA:363(C):G:O5'	2.31	0.48
34:BA:1011:G:C2	34:BA:1012:U:H1'	2.49	0.48
1:AA:1002:G:H2'	1:AA:1003:G:O5'	2.13	0.48
1:AA:1024:G:O6	1:AA:1134:G:H1'	2.14	0.48
1:AA:1078:U:H1'	1:AA:1088:A:N3	2.29	0.48
1:AA:1084:A:C5	1:AA:1085:A:C2	3.02	0.48
1:AA:1091:G:N1	1:AA:1101:U:O4	2.47	0.48
1:AA:1223:C:C2	1:AA:1225:C:H5''	2.49	0.48
1:AA:128:C:N4	1:AA:129:C:H41	2.12	0.48
1:AA:1294:U:H2'	1:AA:1295:C:H5'	1.96	0.48
1:AA:1310:G:N7	1:AA:1311:G:C2	2.81	0.48
1:AA:1334:G:C2'	1:AA:1335:U:O5'	2.62	0.48
1:AA:1355:G:H22	1:AA:1377:G:C1'	2.26	0.48
1:AA:1351:C:C4	1:AA:1381:G:C6	3.02	0.48
1:AA:1392:A:N6	1:AA:1393:A:N6	2.62	0.48
1:AA:1433:U:C6	1:AA:1433:U:H3'	2.49	0.48
1:AA:1466:G:O4'	1:AA:1545(A):A:H2	1.97	0.48
1:AA:1528:A:H8	1:AA:1529:A:C4	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1607:C:C2'	1:AA:1608:A:OP2	2.62	0.48
1:AA:1684:C:O2	1:AA:1685:C:C6	2.67	0.48
1:AA:740:U:O5'	1:AA:1784:A:C2	2.67	0.48
1:AA:1819:A:C5	4:AD:179:SER:HB3	2.49	0.48
1:AA:1936:A:N3	1:AA:1940:U:C2	2.82	0.48
1:AA:1968:G:H2'	1:AA:1969:A:OP2	2.14	0.48
1:AA:2025:C:C2'	1:AA:2026:C:H6	2.23	0.48
1:AA:2298:A:C2'	1:AA:2299:G:H8	2.27	0.48
1:AA:2312:U:H2'	1:AA:2313:C:H6	1.78	0.48
1:AA:2289:G:N2	1:AA:2344:U:C6	2.82	0.48
1:AA:2371:G:O2'	1:AA:2372:G:O4'	2.31	0.48
1:AA:2482:G:C5	1:AA:2483:C:C5	3.02	0.48
1:AA:2505:G:O2'	1:AA:2506:U:H5''	2.14	0.48
1:AA:2579:C:O2'	1:AA:2580:U:H5'	2.14	0.48
1:AA:2607:G:C6	1:AA:2608:G:C2	3.01	0.48
1:AA:270(B):A:C1'	1:AA:270(C):C:C5	2.92	0.48
1:AA:270(W):G:N7	1:AA:270(X):G:N7	2.61	0.48
1:AA:2793:G:C6	1:AA:2794:C:C5	3.02	0.48
1:AA:285:C:H2'	1:AA:286:C:H6	1.78	0.48
1:AA:295:G:N2	1:AA:296:C:C2	2.82	0.48
1:AA:29:U:C2	1:AA:30:G:O6	2.67	0.48
1:AA:454:A:C8	1:AA:454:A:H3'	2.49	0.48
1:AA:468:G:H2'	1:AA:469:G:C4'	2.43	0.48
1:AA:48:G:O5'	1:AA:48:G:H8	1.97	0.48
1:AA:500:G:O2'	1:AA:501:A:H3'	2.14	0.48
1:AA:531:C:C2'	1:AA:532:A:OP1	2.62	0.48
1:AA:600:G:H4'	6:AF:105:VAL:HG13	1.96	0.48
1:AA:616:A:O3'	1:AA:617:G:O4'	2.32	0.48
1:AA:617:G:P	6:AF:40:GLN:OE1	2.71	0.48
1:AA:638:G:H2'	1:AA:639:U:C4'	2.44	0.48
1:AA:786:C:H2'	1:AA:787:U:O4'	2.14	0.48
1:AA:791:C:H5'	1:AA:792:G:OP1	2.14	0.48
1:AA:775:G:O2'	1:AA:794:G:C8	2.61	0.48
1:AA:819:A:C2	1:AA:820:A:C5	3.02	0.48
1:AA:892:G:C2	1:AA:893:C:C4	3.02	0.48
1:AA:7:G:H2'	1:AA:8:A:C8	2.47	0.48
1:AA:949:C:H2'	1:AA:950:G:C8	2.34	0.48
1:AA:954:G:O2'	1:AA:955:C:H5'	2.14	0.48
2:AB:73:A:N7	2:AB:104:A:C5	2.81	0.48
2:AB:85:G:C4	2:AB:92:G:C2	3.02	0.48
3:AC:161:ILE:O	3:AC:161:ILE:CG1	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:46:LYS:CD	3:AC:210:ARG:CB	2.77	0.48
4:AD:233:HIS:HD1	4:AD:233:HIS:N	2.11	0.48
4:AD:34:VAL:C	4:AD:36:PRO:HD2	2.34	0.48
5:AE:136:ARG:C	5:AE:137:HIS:CG	2.86	0.48
1:AA:2619:C:H5'	5:AE:151:TYR:O	2.13	0.48
5:AE:8:LYS:HB3	5:AE:24:THR:CG2	2.43	0.48
6:AF:22:ALA:HB1	6:AF:115:ALA:CB	2.43	0.48
6:AF:11:VAL:HB	6:AF:17:ARG:HH12	1.78	0.48
6:AF:156:LEU:HD23	6:AF:156:LEU:N	2.29	0.48
6:AF:181:LEU:O	6:AF:182:ASN:HB3	2.13	0.48
6:AF:163:VAL:HG21	6:AF:195:ASP:OD2	2.14	0.48
7:AG:151:ALA:C	7:AG:152:LEU:CG	2.80	0.48
7:AG:174:GLU:OE2	7:AG:175:LEU:CG	2.61	0.48
8:AH:103:LEU:H	8:AH:115:VAL:H	1.62	0.48
8:AH:41:MET:HE1	8:AH:68:THR:CG2	2.43	0.48
1:AA:2751:G:O4'	8:AH:6:ARG:NH2	2.47	0.48
11:AM:16:ARG:HG2	11:AM:19:VAL:CG1	2.39	0.48
12:AN:56:ARG:C	12:AN:56:ARG:HD2	2.33	0.48
12:AN:63:LYS:NZ	12:AN:64:ILE:HG13	2.29	0.48
12:AN:66:ILE:HG22	12:AN:67:ARG:O	2.14	0.48
13:AO:103:ARG:HB2	13:AO:108:GLY:O	2.14	0.48
14:AP:79:ALA:O	14:AP:81:GLY:N	2.47	0.48
15:AQ:55:ASN:O	15:AQ:57:PHE:CE2	2.66	0.48
15:AQ:71:GLY:N	15:AQ:74:ARG:HH12	2.12	0.48
16:AR:105:VAL:O	16:AR:108:GLU:OE2	2.32	0.48
16:AR:112:ARG:O	16:AR:115:ALA:N	2.47	0.48
17:AS:61:VAL:O	17:AS:99:ILE:O	2.32	0.48
17:AS:78:LYS:CA	17:AS:83:ARG:O	2.61	0.48
17:AS:64:HIS:CG	17:AS:96:ILE:HG22	2.49	0.48
18:AT:13:SER:CB	18:AT:16:LYS:HE2	2.43	0.48
18:AT:28:SER:O	18:AT:31:GLU:OE1	2.32	0.48
18:AT:53:SER:O	18:AT:54:ALA:C	2.49	0.48
18:AT:59:VAL:HA	18:AT:63:ASP:O	2.14	0.48
19:AU:35:THR:O	19:AU:38:GLU:CB	2.62	0.48
20:AV:2:ARG:HD2	20:AV:3:VAL:CG2	2.44	0.48
20:AV:39:VAL:HG12	20:AV:39:VAL:O	2.13	0.48
20:AV:53:PRO:O	20:AV:54:LYS:C	2.51	0.48
20:AV:75:ILE:CD1	20:AV:75:ILE:O	2.62	0.48
21:AW:122:ARG:NH2	21:AW:169:GLU:OE1	2.47	0.48
21:AW:169:GLU:O	21:AW:170:THR:HB	2.13	0.48
21:AW:68:PRO:O	21:AW:90:VAL:CA	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AY:30:LEU:O	23:AY:31:ARG:C	2.52	0.48
1:AA:851:U:H1'	24:AZ:46:ASN:HB2	1.96	0.48
34:BA:1034:G:N3	34:BA:1035:A:N7	2.61	0.48
34:BA:1084:G:O2'	34:BA:1085:U:OP1	2.32	0.48
34:BA:1075:C:C4'	34:BA:1101:A:N6	2.71	0.48
34:BA:1104:G:H2'	34:BA:1105:A:O4'	2.13	0.48
34:BA:1111:A:O2'	34:BA:1112:C:H5'	2.14	0.48
34:BA:1237:C:O4'	34:BA:1334:G:N2	2.42	0.48
34:BA:13:U:H6	34:BA:13:U:C5'	2.27	0.48
34:BA:1407:C:O5'	34:BA:1407:C:H6	1.97	0.48
34:BA:174:C:N3	34:BA:175:C:C5	2.82	0.48
34:BA:230:G:N1	34:BA:231:G:C4	2.82	0.48
34:BA:344:A:HO2'	34:BA:345:C:P	2.35	0.48
34:BA:49:U:O4	34:BA:362:G:N2	2.47	0.48
34:BA:44:G:C5	34:BA:45:U:C6	3.02	0.48
34:BA:515:G:C2	34:BA:537:G:C2	3.02	0.48
34:BA:566:G:H4'	34:BA:567:G:C5'	2.43	0.48
34:BA:687:A:C2	34:BA:704:A:C6	3.01	0.48
34:BA:68:G:C2	34:BA:69:G:H1'	2.49	0.48
34:BA:824:C:C1'	41:BL:1:MET:N	2.77	0.48
34:BA:859:A:C2'	34:BA:860:A:O4'	2.58	0.48
34:BA:904:C:H2'	34:BA:905:U:C6	2.49	0.48
34:BA:20:U:H5	34:BA:916:G:N1	2.12	0.48
34:BA:95:G:N2	34:BA:96:G:H1'	2.29	0.48
34:BA:997:U:C6	34:BA:997:U:OP2	2.67	0.48
56:BE:15:G:N1	56:BE:16:U:C4	2.82	0.48
35:BF:112:VAL:CG1	35:BF:149:LEU:HD21	2.44	0.48
36:BG:6:HIS:HA	36:BG:7:PRO:HD2	1.78	0.48
37:BH:8:VAL:C	37:BH:10:ARG:H	2.15	0.48
37:BH:51:PRO:O	37:BH:52:SER:C	2.50	0.48
38:BI:112:LEU:O	38:BI:113:ALA:C	2.52	0.48
40:BK:69:VAL:HG11	40:BK:104:LEU:HD21	1.94	0.48
40:BK:139:GLU:O	40:BK:143:ARG:HG3	2.14	0.48
40:BK:38:LEU:C	40:BK:41:ARG:HB2	2.34	0.48
41:BL:104:ARG:O	41:BL:105:ARG:C	2.51	0.48
41:BL:112:LEU:HG	41:BL:113:SER:N	2.28	0.48
41:BL:6:ILE:HD12	41:BL:85:ARG:CZ	2.44	0.48
42:BM:5:TYR:HD2	42:BM:6:GLY:N	2.10	0.48
43:BN:9:ARG:HG3	43:BN:9:ARG:O	2.14	0.48
44:BO:40:ILE:CD1	44:BO:40:ILE:N	2.61	0.48
44:BO:23:ALA:CB	44:BO:88:GLY:CA	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:48:PRO:HG3	45:BP:92:ASP:OD1	2.14	0.48
45:BP:5:PRO:HB3	45:BP:10:LEU:CD1	2.40	0.48
48:BS:81:LEU:O	48:BS:85:LEU:HD12	2.14	0.48
49:BT:60:LEU:O	49:BT:61:SER:C	2.53	0.48
53:BX:22:ARG:C	53:BX:26:ASN:OD1	2.52	0.48
53:BX:67:ALA:O	53:BX:68:LYS:C	2.52	0.48
57:BZ:281:GLU:O	57:BZ:282:LEU:HB2	2.14	0.48
57:BZ:446:ARG:CB	57:BZ:480:VAL:HG11	2.40	0.48
57:BZ:558:VAL:HG12	57:BZ:559:PRO:CD	2.44	0.48
57:BZ:560:PRO:C	57:BZ:562:ARG:H	2.17	0.48
57:BZ:381:ALA:HA	57:BZ:578:VAL:C	2.34	0.48
57:BZ:59:LYS:CB	57:BZ:66:TRP:HH2	2.27	0.48
57:BZ:67:ASP:H	57:BZ:68:TYR:CB	2.27	0.48
57:BZ:556:VAL:O	57:BZ:557:LEU:HG	2.13	0.48
57:BZ:504:LEU:HD22	57:BZ:507:ARG:CZ	2.44	0.48
55:BC:53:G:O2'	55:BC:54:U:H5'	2.13	0.48
1:AA:1142(A):A:H3'	1:AA:1143:A:H5'	1.94	0.47
1:AA:1326:U:C3'	1:AA:1327:C:H5'	2.41	0.47
1:AA:1345:C:C2'	1:AA:1346:G:H5'	2.44	0.47
1:AA:1444(A):A:N6	1:AA:1461:G:H5''	2.29	0.47
1:AA:1689:A:C6	1:AA:1700:A:C2	3.02	0.47
1:AA:1709:U:H6	1:AA:1709:U:C5'	2.25	0.47
1:AA:48:G:N2	1:AA:177:G:N7	2.62	0.47
1:AA:1782:C:C2	1:AA:2609:U:C6	3.01	0.47
1:AA:1786:A:C5'	1:AA:1938:A:H61	2.26	0.47
1:AA:1826:G:H21	1:AA:1970:A:H2	1.61	0.47
1:AA:1852:C:OP1	55:BC:72:C:H4'	2.14	0.47
1:AA:2051:A:N3	1:AA:2614:A:N6	2.61	0.47
1:AA:2063:C:H2'	1:AA:2064:C:O4'	2.13	0.47
1:AA:2065:C:C5	1:AA:2066:C:C5	3.02	0.47
1:AA:1801:G:C6	1:AA:2207:C:O4'	2.67	0.47
1:AA:2219:G:C2'	1:AA:2224:G:O5'	2.61	0.47
1:AA:2255:G:C4	1:AA:2256:G:C8	3.01	0.47
1:AA:225:A:N3	1:AA:225:A:H2'	2.29	0.47
1:AA:2309:A:C5	1:AA:2310:A:C5	3.02	0.47
1:AA:2416:C:N3	1:AA:2417:C:C5	2.82	0.47
1:AA:2458:G:N7	1:AA:2490:G:C5	2.82	0.47
1:AA:2460:U:H3'	1:AA:2461:C:C6	2.48	0.47
1:AA:2470:G:C2	1:AA:2471:C:C5	3.01	0.47
1:AA:14:A:H2	1:AA:2625:G:O2'	1.97	0.47
1:AA:2666:C:H2'	1:AA:2667:C:H5'	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2668:G:N2	1:AA:2669:G:C6	2.82	0.47
1:AA:2670:A:N1	1:AA:2671:A:C6	2.82	0.47
1:AA:270(Z):U:O2	1:AA:271(B):G:OP1	2.32	0.47
1:AA:2645:G:O2'	1:AA:2732:G:O3'	2.29	0.47
1:AA:2801:A:C3'	1:AA:2801:A:P	3.02	0.47
1:AA:2813:A:O2'	1:AA:2814:C:H5'	2.14	0.47
1:AA:2822:G:N7	13:AO:4:LEU:CD2	2.77	0.47
1:AA:2858:C:C5'	1:AA:2859:G:OP2	2.61	0.47
1:AA:2854:G:C2	1:AA:2864:G:C5	3.02	0.47
1:AA:28:A:N3	1:AA:29:U:C4'	2.77	0.47
1:AA:2507:C:C5'	59:AA:3002:8AN:O5'	2.62	0.47
1:AA:332:A:O2'	1:AA:333:G:O5'	2.31	0.47
1:AA:349:G:C2'	1:AA:350:U:H6	2.24	0.47
1:AA:537:C:H2'	1:AA:539:G:H8	1.79	0.47
1:AA:569:U:OP1	1:AA:945:A:N1	2.47	0.47
1:AA:597:U:C2	1:AA:598:G:N7	2.82	0.47
1:AA:936:C:O2'	1:AA:937:U:O5'	2.32	0.47
2:AB:103:U:C3'	2:AB:104:A:H5'	2.42	0.47
2:AB:68:C:H3'	2:AB:69:G:C8	2.37	0.47
3:AC:68:LEU:HD23	3:AC:69:GLY:CA	2.44	0.47
3:AC:75:LEU:HG	3:AC:77:ILE:HG12	1.96	0.47
1:AA:764:A:N3	4:AD:214:TRP:HD1	2.12	0.47
4:AD:75:ILE:O	4:AD:76:PRO:O	2.32	0.47
5:AE:136:ARG:NH2	5:AE:137:HIS:HA	2.29	0.47
5:AE:196:VAL:HG13	5:AE:197:ILE:H	1.77	0.47
5:AE:58:ARG:HG2	5:AE:63:LEU:HD21	1.92	0.47
6:AF:37:VAL:O	6:AF:41:LEU:HG	2.14	0.47
1:AA:37:C:O2'	6:AF:50:SER:OG	2.21	0.47
7:AG:103:LEU:O	7:AG:103:LEU:HD12	2.13	0.47
7:AG:19:LEU:N	7:AG:19:LEU:CD1	2.76	0.47
7:AG:3:LEU:HD22	7:AG:4:ASP:OD2	2.14	0.47
1:AA:2746:U:H5'	8:AH:138:LYS:O	2.14	0.47
32:AJ:17:ALA:CA	32:AJ:38:VAL:O	2.56	0.47
9:AK:26:LEU:O	9:AK:30:ILE:CG1	2.60	0.47
10:AL:80:ASP:CG	10:AL:82:ASN:OD1	2.53	0.47
10:AL:9:GLU:CB	10:AL:81:ASP:O	2.62	0.47
11:AM:16:ARG:CG	11:AM:19:VAL:CG2	2.92	0.47
12:AN:99:PRO:HD2	12:AN:101:ARG:CZ	2.44	0.47
13:AO:90:ARG:HH22	13:AO:117:VAL:HG13	1.78	0.47
13:AO:96:ARG:CZ	13:AO:117:VAL:HG23	2.44	0.47
14:AP:58:LEU:HD23	14:AP:62:LYS:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AP:75:GLU:HA	14:AP:78:LEU:CB	2.38	0.47
15:AQ:109:GLU:CD	15:AQ:110:ILE:H	2.17	0.47
15:AQ:33:LYS:CA	15:AQ:46:GLU:O	2.35	0.47
16:AR:15:LYS:O	16:AR:16:LYS:C	2.52	0.47
16:AR:83:LEU:CD1	16:AR:83:LEU:H	2.16	0.47
17:AS:5:VAL:CG1	17:AS:37:VAL:CG2	2.90	0.47
18:AT:13:SER:N	18:AT:101:SER:OG	2.47	0.47
19:AU:47:PHE:O	19:AU:48:LYS:O	2.31	0.47
20:AV:96:ILE:HB	20:AV:102:CYS:O	2.13	0.47
20:AV:46:LYS:HZ1	20:AV:49:VAL:CG2	2.27	0.47
21:AW:39:VAL:HG22	21:AW:44:PHE:CZ	2.48	0.47
21:AW:48:PHE:CB	21:AW:54:HIS:CE1	2.91	0.47
23:AY:17:GLU:O	23:AY:21:ARG:HG2	2.14	0.47
1:AA:94:G:O2'	23:AY:39:LEU:HD22	2.14	0.47
1:AA:96:G:H4'	23:AY:43:HIS:NE2	2.29	0.47
24:AZ:28:LEU:HA	24:AZ:33:GLN:OE1	2.13	0.47
34:BA:1057:G:H2'	34:BA:1058:G:O5'	2.14	0.47
34:BA:1086:U:H2'	34:BA:1087:G:C8	2.49	0.47
34:BA:1124:G:N2	34:BA:1126:U:N3	2.40	0.47
34:BA:1092:A:N7	34:BA:1183:A:N7	2.62	0.47
34:BA:1184:G:N1	34:BA:1185:G:C6	2.82	0.47
34:BA:1068:G:N2	34:BA:1191:A:N3	2.50	0.47
34:BA:1193:G:O2'	34:BA:1194:U:H5'	2.13	0.47
34:BA:1318:A:H2'	52:BW:37:ARG:HB2	0.80	0.47
34:BA:1314:C:H42	34:BA:1323:G:H1	1.61	0.47
34:BA:1338:G:H2'	34:BA:1339:A:H8	1.75	0.47
34:BA:1342:C:H2'	34:BA:1343:G:C8	2.48	0.47
34:BA:1372:U:H2'	34:BA:1373:G:O4'	2.13	0.47
34:BA:1447:G:N2	34:BA:1459:C:C2	2.65	0.47
34:BA:1480:G:H2'	34:BA:1481:U:O5'	2.14	0.47
34:BA:290:C:H2'	34:BA:291:C:C5'	2.44	0.47
34:BA:160:A:O4'	34:BA:344:A:N7	2.47	0.47
34:BA:588:G:H1'	34:BA:753:A:C6	2.49	0.47
34:BA:673:G:C2	34:BA:674:G:N1	2.82	0.47
34:BA:696:A:C2'	34:BA:697:U:H5'	2.44	0.47
34:BA:748:C:O2'	34:BA:749:C:H5'	2.14	0.47
34:BA:769:G:H22	34:BA:811:C:H1'	1.77	0.47
34:BA:832:C:C4	34:BA:833:U:O4	2.66	0.47
34:BA:813:U:OP1	34:BA:904:C:H5'	2.14	0.47
34:BA:909:A:C2	34:BA:910:C:C1'	2.97	0.47
34:BA:932:C:O2	34:BA:932:C:H2'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:15:VAL:O	35:BF:16:HIS:CB	2.61	0.47
35:BF:45:GLN:O	35:BF:49:GLU:OE2	2.32	0.47
35:BF:52:GLU:O	35:BF:53:ARG:C	2.52	0.47
35:BF:53:ARG:NE	35:BF:199:TYR:CE2	2.82	0.47
35:BF:71:VAL:HG22	35:BF:93:VAL:N	2.28	0.47
36:BG:55:VAL:HG12	36:BG:57:ILE:HG13	1.94	0.47
37:BH:102:ASP:HB2	37:BH:136:PRO:CA	2.44	0.47
38:BI:37:ARG:HG2	38:BI:111:GLU:O	2.14	0.47
39:BJ:33:TYR:CZ	39:BJ:75:LEU:HA	2.49	0.47
39:BJ:81:ILE:HG22	39:BJ:82:ARG:H	1.74	0.47
39:BJ:95:GLU:N	39:BJ:96:PRO:CD	2.64	0.47
41:BL:119:LEU:CD2	41:BL:119:LEU:N	2.72	0.47
41:BL:97:VAL:HG13	41:BL:98:LYS:HZ2	1.79	0.47
42:BM:79:LEU:HD22	42:BM:101:PHE:CD2	2.48	0.47
34:BA:1179:A:C4'	42:BM:103:THR:OG1	2.50	0.47
43:BN:24:VAL:HG13	43:BN:34:VAL:HG11	1.95	0.47
43:BN:60:ARG:H	43:BN:60:ARG:CD	2.21	0.47
43:BN:78:ASN:O	43:BN:79:ARG:C	2.51	0.47
34:BA:37:U:P	45:BP:123:LYS:HB3	2.53	0.47
46:BQ:19:LEU:HD12	46:BQ:20:THR:H	1.78	0.47
48:BS:49:ASP:O	48:BS:50:HIS:C	2.53	0.47
53:BX:37:SER:OG	53:BX:38:LYS:N	2.47	0.47
53:BX:98:PRO:O	53:BX:99:LEU:O	2.32	0.47
57:BZ:236:GLN:HB2	57:BZ:247:ARG:CA	2.44	0.47
57:BZ:437:VAL:HG13	57:BZ:437:VAL:O	2.14	0.47
57:BZ:374:ARG:HE	57:BZ:584:SER:H	1.59	0.47
57:BZ:69:ARG:CA	57:BZ:70:ILE:CB	2.90	0.47
55:BC:76:A:H3'	55:BC:76:A:OP2	2.14	0.47
1:AA:1011:G:H2'	1:AA:1013:C:H5''	1.95	0.47
1:AA:1080:C:H2'	1:AA:1081:U:N1	2.29	0.47
1:AA:1139:G:OP1	9:AK:63:THR:HG21	2.14	0.47
1:AA:1152:C:O2'	1:AA:1153:C:H5'	2.13	0.47
1:AA:1197:G:C6	1:AA:1198:U:C5	3.01	0.47
1:AA:120:U:H2'	1:AA:121:G:OP2	2.14	0.47
1:AA:1258:C:C2	1:AA:1259:G:C8	3.02	0.47
1:AA:1426:G:H3'	1:AA:1427:A:H5''	1.95	0.47
1:AA:142:G:H2'	1:AA:143:C:C5	2.49	0.47
1:AA:1477:A:H2	1:AA:1516:U:O2	1.96	0.47
1:AA:1449:A:OP1	1:AA:1543:A:C2	2.66	0.47
1:AA:700:G:H4'	1:AA:1633:G:H4'	1.95	0.47
1:AA:1299:G:N3	1:AA:1640:C:H5	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1689:A:N3	1:AA:1690:A:N7	2.62	0.47
1:AA:1775:U:O4'	4:AD:208:LYS:NZ	2.45	0.47
1:AA:1826:G:N2	1:AA:1827:C:H1'	2.29	0.47
1:AA:1844:C:N3	1:AA:1845:G:N7	2.62	0.47
1:AA:1941:C:C6	1:AA:1965:C:C4	3.02	0.47
1:AA:1992:G:H1'	1:AA:1993:U:O4	2.11	0.47
1:AA:2085:C:O2'	1:AA:2086:U:H5'	2.14	0.47
1:AA:2217:G:O4'	4:AD:150:LYS:NZ	2.42	0.47
1:AA:221:A:C2'	1:AA:222:A:OP2	2.63	0.47
1:AA:2324:C:O2'	1:AA:2325:G:P	2.72	0.47
1:AA:2282:G:O2'	1:AA:2390:U:O4	2.21	0.47
1:AA:2435:A:H2'	1:AA:2436:G:O5'	2.14	0.47
1:AA:2545:G:O2'	1:AA:2546:U:H5'	2.14	0.47
1:AA:2584:U:H6	1:AA:2584:U:C3'	2.22	0.47
1:AA:265:A:H2'	1:AA:266:G:C1'	2.44	0.47
1:AA:2674:G:H4'	10:AL:26:LYS:CE	2.43	0.47
1:AA:270(N):G:C8	1:AA:270(O):U:C6	3.02	0.47
1:AA:2711:A:N6	1:AA:2714:G:C4	2.82	0.47
1:AA:271:G:C5	1:AA:404:C:N4	2.82	0.47
1:AA:270(X):G:C4'	1:AA:273:G:H5'	2.44	0.47
1:AA:2755:C:O2'	1:AA:2756:U:C6	2.53	0.47
1:AA:2864:G:C2	1:AA:2865:U:C2	3.02	0.47
1:AA:6:A:N1	1:AA:2897:U:N1	2.58	0.47
1:AA:322:A:C4'	1:AA:341:G:H5'	2.44	0.47
1:AA:410:G:N2	1:AA:2407:G:N7	2.62	0.47
1:AA:448:U:O4	1:AA:583:G:C1'	2.60	0.47
1:AA:532:A:O2'	16:AR:28:ARG:HD3	2.14	0.47
1:AA:572:A:H61	1:AA:2029:G:C1'	2.26	0.47
1:AA:601:C:C2'	1:AA:601:C:O2	2.62	0.47
1:AA:60:G:N7	1:AA:63:U:C4	2.82	0.47
1:AA:679:C:O2	1:AA:680:G:C8	2.67	0.47
1:AA:685:A:N3	1:AA:688:U:N3	2.62	0.47
1:AA:690:G:C6	1:AA:691:C:C4	3.02	0.47
1:AA:71:A:C3'	1:AA:72:U:H5''	2.40	0.47
1:AA:740:U:C5	1:AA:741:G:N7	2.82	0.47
1:AA:805:G:N7	1:AA:2068:U:OP1	2.47	0.47
1:AA:959:A:N6	1:AA:960:A:N6	2.61	0.47
2:AB:13:A:H2	2:AB:69:G:N2	2.04	0.47
2:AB:77:U:C2'	2:AB:78:A:H8	2.25	0.47
3:AC:74:VAL:CG1	3:AC:114:VAL:HG22	2.43	0.47
3:AC:137:LEU:HD23	3:AC:138:PRO:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:80:ALA:O	4:AD:81:ALA:CB	2.62	0.47
4:AD:90:ALA:C	4:AD:91:ARG:HH11	2.17	0.47
6:AF:135:LYS:HD3	6:AF:136:THR:N	2.29	0.47
6:AF:136:THR:O	6:AF:137:LYS:C	2.52	0.47
6:AF:38:ARG:O	6:AF:42:ALA:HB2	2.15	0.47
6:AF:77:ASP:OD1	6:AF:77:ASP:C	2.52	0.47
8:AH:163:TYR:CB	8:AH:166:GLY:HA2	2.40	0.47
8:AH:94:TYR:CD2	8:AH:95:ARG:N	2.82	0.47
32:AJ:23:VAL:C	32:AJ:35:MET:SD	2.75	0.47
32:AJ:81:ALA:C	32:AJ:99:ILE:HG21	2.35	0.47
9:AK:112:LEU:C	9:AK:114:ARG:N	2.63	0.47
9:AK:47:ALA:O	9:AK:48:MET:O	2.33	0.47
9:AK:67:LEU:O	9:AK:68:GLU:HG3	2.14	0.47
1:AA:2040:C:H4'	9:AK:72:TYR:HE2	1.79	0.47
10:AL:39:ILE:CD1	10:AL:59:LYS:HE3	2.44	0.47
10:AL:58:VAL:O	10:AL:86:ILE:HB	2.14	0.47
10:AL:8:LEU:HD13	10:AL:82:ASN:HA	1.95	0.47
10:AL:97:ARG:C	10:AL:97:ARG:CD	2.80	0.47
11:AM:108:LYS:HD3	11:AM:109:GLY:N	2.20	0.47
11:AM:117:GLU:CG	11:AM:118:GLY:H	2.22	0.47
13:AO:116:LEU:CD2	13:AO:116:LEU:H	2.25	0.47
13:AO:5:LYS:CA	13:AO:5:LYS:CE	2.92	0.47
13:AO:71:GLN:O	13:AO:72:ASP:HB2	2.14	0.47
15:AQ:56:GLY:C	15:AQ:57:PHE:CD2	2.87	0.47
16:AR:57:PHE:HD2	16:AR:61:TRP:HE1	1.62	0.47
16:AR:72:HIS:CD2	16:AR:110:VAL:HG21	2.49	0.47
16:AR:80:ILE:O	16:AR:81:HIS:C	2.52	0.47
16:AR:89:GLU:CB	17:AS:51:VAL:HB	2.44	0.47
17:AS:20:LEU:HB2	17:AS:95:LEU:CD2	2.31	0.47
17:AS:88:ARG:CG	17:AS:89:GLN:N	2.76	0.47
1:AA:518:G:C4'	18:AT:18:ARG:NH1	2.76	0.47
18:AT:25:ARG:HA	18:AT:71:VAL:CG2	2.44	0.47
20:AV:9:LYS:HD2	20:AV:110:GLU:HG3	1.96	0.47
20:AV:15:VAL:HG12	20:AV:16:ALA:N	2.30	0.47
21:AW:100:VAL:HG23	21:AW:102:LEU:HD23	1.96	0.47
21:AW:127:LYS:CA	21:AW:164:ALA:H	2.23	0.47
21:AW:28:MET:C	21:AW:28:MET:SD	2.92	0.47
2:AB:78:A:H5'	21:AW:78:LYS:HE3	1.94	0.47
22:AX:50:ASN:O	22:AX:62:LEU:CB	2.57	0.47
34:BA:1065:U:H2'	34:BA:1066:C:OP2	2.13	0.47
34:BA:1067:A:O2'	34:BA:1068:G:O5'	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:109:A:O4'	34:BA:109:A:N3	2.46	0.47
34:BA:1206:G:H2'	34:BA:1207:G:C8	2.49	0.47
34:BA:1314:C:C4	34:BA:1324:A:N1	2.82	0.47
34:BA:1317:C:C2	34:BA:1318:A:H1'	2.45	0.47
34:BA:1318:A:C2'	52:BW:37:ARG:C	2.81	0.47
34:BA:1224:G:O6	34:BA:1322:C:H4'	2.14	0.47
34:BA:1327:C:H5''	54:BY:20:LYS:NZ	2.28	0.47
34:BA:145:G:C2	34:BA:178:C:C2	3.01	0.47
34:BA:152:A:N7	34:BA:153:C:C5	2.83	0.47
34:BA:184:G:O4'	34:BA:224:C:H4'	2.14	0.47
34:BA:276:G:O2'	34:BA:277:C:H5'	2.14	0.47
34:BA:290:C:C6	34:BA:290:C:H3'	2.49	0.47
34:BA:333:G:C4'	53:BX:16:HIS:HD2	2.25	0.47
34:BA:383:A:H2'	34:BA:384:G:C4'	2.44	0.47
34:BA:414:A:H62	34:BA:430:A:N6	2.12	0.47
34:BA:47:C:C5	34:BA:365:U:H2'	2.49	0.47
34:BA:519:C:O2'	34:BA:520:A:H5'	2.14	0.47
34:BA:682:G:C6	34:BA:709:G:C6	3.02	0.47
34:BA:69:G:H2'	34:BA:69:G:N3	2.28	0.47
34:BA:706:A:C4'	44:BO:29:ILE:HD13	2.44	0.47
34:BA:718:G:N7	34:BA:719:C:N4	2.62	0.47
34:BA:818:G:N2	34:BA:820:U:C2	2.82	0.47
34:BA:859:A:H2'	34:BA:860:A:C4'	2.44	0.47
55:BC:59:U:H2'	55:BC:60:U:H5'	1.96	0.47
36:BG:127:ARG:C	36:BG:128:PHE:HD1	2.18	0.47
37:BH:106:TYR:CE1	37:BH:112:VAL:C	2.87	0.47
37:BH:133:VAL:HG11	37:BH:135:LEU:HD12	1.95	0.47
37:BH:173:TRP:CD1	37:BH:185:PHE:CE2	3.02	0.47
37:BH:83:SER:N	37:BH:89:THR:HG23	2.29	0.47
37:BH:79:PHE:HA	37:BH:93:PHE:CD1	2.48	0.47
38:BI:121:LYS:CE	38:BI:122:GLU:N	2.77	0.47
39:BJ:14:LEU:HD11	39:BJ:19:LEU:CA	2.43	0.47
39:BJ:45:LEU:HD23	39:BJ:59:TYR:CB	2.44	0.47
40:BK:155:ARG:O	40:BK:156:TRP:HE3	1.97	0.47
40:BK:22:LEU:HG	40:BK:63:LYS:HZ2	1.79	0.47
40:BK:78:ARG:C	40:BK:84:ASN:HA	2.25	0.47
41:BL:78:GLN:O	41:BL:79:VAL:C	2.52	0.47
34:BA:1342:C:C5'	42:BM:125:TYR:HB2	2.44	0.47
42:BM:50:LEU:HD21	42:BM:55:ALA:O	2.14	0.47
44:BO:114:VAL:HG23	44:BO:115:PRO:HD2	1.96	0.47
44:BO:119:CYS:O	44:BO:120:ARG:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:81:ASP:HA	44:BO:107:SER:O	2.14	0.47
46:BQ:14:ARG:HG3	46:BQ:17:VAL:CG2	2.38	0.47
46:BQ:70:LEU:HD12	46:BQ:74:VAL:CG2	2.44	0.47
46:BQ:73:GLU:O	46:BQ:77:ASN:HB3	2.14	0.47
46:BQ:88:ARG:CA	52:BW:73:GLU:OE1	2.62	0.47
48:BS:59:MET:O	48:BS:63:ARG:HG2	2.14	0.47
50:BU:65:ILE:CG2	50:BU:69:LYS:HD2	2.40	0.47
51:BV:17:SER:CB	51:BV:54:ARG:NH1	2.78	0.47
34:BA:721:G:OP2	51:BV:63:GLN:HG2	2.15	0.47
51:BV:86:VAL:O	51:BV:87:ARG:CB	2.59	0.47
52:BW:3:ARG:CG	52:BW:3:ARG:HH21	2.26	0.47
53:BX:11:SER:O	53:BX:12:ALA:HB2	2.13	0.47
53:BX:42:GLN:O	53:BX:45:GLN:N	2.47	0.47
53:BX:49:ALA:O	53:BX:53:LEU:HG	2.14	0.47
53:BX:43:LEU:HB2	53:BX:55:ILE:CD1	2.44	0.47
57:BZ:119:TYR:CE2	57:BZ:121:LEU:HD11	2.49	0.47
57:BZ:125:VAL:HB	57:BZ:162:ILE:H	1.79	0.47
57:BZ:17:GLY:C	57:BZ:20:THR:HG21	2.34	0.47
57:BZ:234:ASN:HA	57:BZ:235:GLN:O	2.14	0.47
57:BZ:91:MET:CE	57:BZ:269:GLU:O	2.62	0.47
57:BZ:274:VAL:O	57:BZ:276:ILE:HG13	2.13	0.47
57:BZ:547:ARG:CD	57:BZ:548:ALA:HB2	2.37	0.47
57:BZ:565:LEU:H	57:BZ:566:GLU:HG3	1.56	0.47
1:AA:1582:C:N3	1:AA:1583:A:N7	2.62	0.47
1:AA:2110:G:OP2	1:AA:2110:G:H8	1.96	0.47
1:AA:2110:G:C2'	1:AA:2120:G:H5'	2.45	0.47
34:BA:511:C:O2'	34:BA:512:U:O5'	2.32	0.47
1:AA:2795:G:C2'	1:AA:2795:G:N3	2.73	0.47
34:BA:1029:G:C4	34:BA:1032(A):G:N1	2.82	0.47
56:BD:11:C:H2'	56:BD:12:U:C6	2.49	0.47
1:AA:1030:G:C2	1:AA:1031:G:C4	3.02	0.47
1:AA:1062:G:C8	1:AA:1063:G:C8	3.02	0.47
1:AA:1063:G:OP1	32:AJ:76:TYR:OH	2.31	0.47
1:AA:1137:G:H2'	1:AA:1138:G:O4'	2.15	0.47
1:AA:1174:A:C2	1:AA:1176:G:O5'	2.67	0.47
1:AA:1203:G:N2	1:AA:1206:G:N1	2.62	0.47
1:AA:1212:G:H3'	1:AA:1212:G:H8	1.77	0.47
1:AA:1216:G:OP1	16:AR:11:ARG:HD2	2.14	0.47
1:AA:1241:A:C4	1:AA:1241:A:C3'	2.98	0.47
1:AA:1251:C:C5'	16:AR:10:ARG:HE	2.26	0.47
1:AA:1265:A:C1'	1:AA:1267:U:N3	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1402:C:N4	1:AA:1403:C:N4	2.62	0.47
1:AA:1448:G:C2'	1:AA:1449:A:H8	2.27	0.47
1:AA:1558:A:H1'	1:AA:1559:G:O6	2.13	0.47
1:AA:1656:C:O3'	5:AE:136:ARG:NH2	2.47	0.47
1:AA:1689:A:H2'	1:AA:1690:A:C8	2.49	0.47
1:AA:1725:G:N1	1:AA:1726:G:C8	2.82	0.47
1:AA:1748:G:H2'	1:AA:1749:A:H8	1.73	0.47
1:AA:1680:U:O2	1:AA:1764:G:O5'	2.33	0.47
1:AA:1769:G:H2'	1:AA:1770:G:H8	1.79	0.47
1:AA:1799:G:C6	1:AA:1819:A:C8	3.03	0.47
1:AA:1882:C:C2	1:AA:1883:G:H1'	2.49	0.47
1:AA:1901:A:O3'	4:AD:244:ARG:NH2	2.47	0.47
1:AA:1936:A:O4'	1:AA:1940:U:O4	2.32	0.47
1:AA:1936:A:C4	1:AA:1945:G:C6	3.02	0.47
1:AA:2057:A:N7	1:AA:2058:A:N7	2.62	0.47
1:AA:2081:C:C2'	1:AA:2082:A:H5'	2.44	0.47
1:AA:2152:G:C5'	3:AC:2:LYS:C	2.83	0.47
1:AA:962:G:H21	1:AA:2250:G:N2	2.12	0.47
1:AA:2312:U:O4'	7:AG:43:LEU:HD22	2.15	0.47
1:AA:2350:C:O2'	1:AA:2351:G:OP1	2.32	0.47
1:AA:2371:G:O2'	1:AA:2372:G:C1'	2.62	0.47
1:AA:236:C:C2'	1:AA:237:C:O5'	2.62	0.47
1:AA:2414:G:C2	1:AA:2415:G:C8	3.01	0.47
1:AA:2450:A:OP1	1:AA:2497:A:C8	2.67	0.47
1:AA:2562:U:N3	1:AA:2563:U:C6	2.82	0.47
1:AA:2617:C:C6	1:AA:2617:C:OP2	2.67	0.47
1:AA:2807:G:N2	1:AA:2892:A:C6	2.68	0.47
1:AA:2817:G:C5	1:AA:2818:G:N7	2.82	0.47
1:AA:301:G:C8	1:AA:317:G:N2	2.83	0.47
1:AA:37:C:H5'	1:AA:451:C:H5''	1.95	0.47
1:AA:401:A:C4	1:AA:402:A:H8	2.33	0.47
1:AA:403:U:C5'	1:AA:404:C:OP1	2.62	0.47
1:AA:531:C:O2	16:AR:28:ARG:NE	2.48	0.47
1:AA:577:G:H2'	1:AA:578:A:O4'	2.14	0.47
1:AA:589:C:O2'	1:AA:590:A:H5'	2.13	0.47
1:AA:66:C:C2'	1:AA:67:U:O5'	2.60	0.47
1:AA:724:U:H2'	1:AA:725:G:O4'	2.13	0.47
1:AA:586:A:H61	1:AA:810:U:H5'	1.78	0.47
1:AA:879:G:O6	1:AA:897:C:O2'	2.29	0.47
1:AA:955:C:H5''	12:AN:87:LYS:HD2	1.95	0.47
1:AA:979:G:N7	1:AA:981:A:OP2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:77:U:H3'	2:AB:77:U:C6	2.47	0.47
3:AC:127:LEU:HB3	3:AC:131:LEU:HD11	1.96	0.47
1:AA:2152:G:H4'	3:AC:2:LYS:HB2	1.94	0.47
4:AD:224:ALA:O	4:AD:226:MET:N	2.47	0.47
4:AD:84:TYR:HA	4:AD:92:ILE:HG23	1.96	0.47
5:AE:104:VAL:HG22	5:AE:198:VAL:CB	2.44	0.47
5:AE:84:PHE:C	5:AE:85:ASN:ND2	2.64	0.47
6:AF:12:LEU:O	6:AF:14:PRO:N	2.48	0.47
6:AF:41:LEU:C	6:AF:41:LEU:HD12	2.35	0.47
1:AA:443:A:C5	6:AF:45:ARG:NH2	2.82	0.47
1:AA:673:C:O4'	6:AF:82:ILE:HG21	2.14	0.47
6:AF:9:ILE:CG2	6:AF:10:PRO:N	2.77	0.47
7:AG:11:TYR:O	7:AG:15:VAL:CG1	2.57	0.47
7:AG:74:LYS:O	7:AG:75:LYS:CB	2.63	0.47
7:AG:8:LYS:O	7:AG:9:ARG:C	2.52	0.47
8:AH:105:LEU:CG	8:AH:113:VAL:HG11	2.44	0.47
8:AH:13:LYS:CG	8:AH:15:VAL:HB	2.44	0.47
8:AH:6:ARG:C	8:AH:7:LEU:HD23	2.34	0.47
8:AH:8:PRO:HB3	8:AH:51:ARG:NH1	2.17	0.47
9:AK:104:LYS:O	9:AK:105:GLY:C	2.52	0.47
9:AK:48:MET:C	9:AK:50:ASP:N	2.67	0.47
10:AL:47:ILE:HD12	10:AL:52:VAL:HG13	1.95	0.47
10:AL:68:GLU:HB2	10:AL:104:ARG:CD	2.44	0.47
1:AA:625:G:C6	11:AM:100:LEU:HB3	2.49	0.47
11:AM:137:LYS:HZ2	11:AM:137:LYS:N	2.12	0.47
11:AM:46:LYS:HZ1	11:AM:50:ARG:HH11	1.63	0.47
11:AM:86:LYS:NZ	11:AM:91:PHE:CE2	2.82	0.47
12:AN:16:ARG:HG3	12:AN:72:LYS:CB	2.41	0.47
12:AN:79:LEU:O	12:AN:80:GLU:CB	2.63	0.47
13:AO:102:GLU:HA	13:AO:102:GLU:OE2	2.15	0.47
13:AO:17:ARG:HG3	13:AO:18:LEU:HD22	1.95	0.47
13:AO:5:LYS:HZ1	13:AO:6:SER:N	2.10	0.47
13:AO:74:LYS:N	13:AO:77:ARG:HH22	2.12	0.47
14:AP:103:GLU:CA	14:AP:106:ARG:HB3	2.44	0.47
14:AP:13:ARG:O	14:AP:16:ASN:OD1	2.32	0.47
14:AP:30:ARG:HD2	14:AP:91:PRO:CB	2.43	0.47
14:AP:24:LEU:HD11	14:AP:41:ASP:CB	2.43	0.47
14:AP:89:ARG:NE	14:AP:90:GLY:O	2.44	0.47
15:AQ:29:ARG:HG2	15:AQ:51:ARG:CB	2.44	0.47
15:AQ:64:ARG:HH12	15:AQ:78:LEU:H	1.60	0.47
18:AT:24:ILE:HG21	18:AT:36:LEU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:36:LEU:HD21	18:AT:48:ALA:N	2.28	0.47
18:AT:8:ARG:NH2	18:AT:102:HIS:CE1	2.83	0.47
19:AU:49:VAL:HG23	19:AU:50:LYS:N	2.29	0.47
19:AU:7:VAL:HG23	23:AY:28:MET:HE2	1.96	0.47
21:AW:153:SER:H	21:AW:168:GLU:HB2	1.79	0.47
21:AW:29:TYR:CD2	21:AW:89:PHE:CE2	3.01	0.47
23:AY:14:VAL:O	23:AY:18:LYS:HG2	2.12	0.47
1:AA:95:G:OP1	23:AY:39:LEU:HD13	2.14	0.47
34:BA:1006:C:O2	34:BA:1006:C:C2'	2.61	0.47
34:BA:1052:U:OP2	34:BA:1200:C:O2	2.32	0.47
34:BA:1085:U:H5''	34:BA:1086:U:H5	1.78	0.47
34:BA:115:G:O2'	34:BA:116:A:P	2.72	0.47
34:BA:1158:C:C5	34:BA:1160:G:H1'	2.48	0.47
34:BA:1200:C:C5'	34:BA:1202:G:OP1	2.62	0.47
34:BA:1259:C:C2	34:BA:1283:G:H1'	2.49	0.47
34:BA:1323:G:C6	34:BA:1324:A:N6	2.82	0.47
34:BA:1358:U:H5''	34:BA:1359:C:OP2	2.13	0.47
34:BA:258:G:C4	34:BA:259:G:N7	2.82	0.47
34:BA:393:A:N6	34:BA:394:G:O6	2.47	0.47
34:BA:552:U:C2	34:BA:553:A:C8	3.02	0.47
34:BA:579:G:C4	34:BA:580:U:C5	3.01	0.47
34:BA:57:G:C6	34:BA:58:C:C4	3.02	0.47
34:BA:62:U:C2	34:BA:63:C:C5	3.02	0.47
34:BA:658:G:C6	34:BA:749:C:N4	2.81	0.47
34:BA:691:G:O6	44:BO:26:ASN:O	2.33	0.47
34:BA:695:A:C2	34:BA:696:A:C4	3.02	0.47
34:BA:849:C:O2'	34:BA:850:U:H5'	2.14	0.47
34:BA:873:A:N3	34:BA:873:A:H2'	2.28	0.47
34:BA:978:A:N6	34:BA:1318:A:H61	2.12	0.47
34:BA:997:U:C4	34:BA:998:G:N7	2.83	0.47
35:BF:23:ARG:CZ	35:BF:23:ARG:HB2	2.44	0.47
36:BG:71:ALA:CA	36:BG:105:GLU:HG3	2.42	0.47
36:BG:48:TYR:HD2	36:BG:48:TYR:C	2.17	0.47
36:BG:71:ALA:HB2	36:BG:106:VAL:HG23	1.95	0.47
37:BH:32:ALA:O	37:BH:37:PRO:HA	2.14	0.47
37:BH:205:GLU:CD	38:BI:100:VAL:H	2.16	0.47
38:BI:37:ARG:O	38:BI:38:GLN:HG3	2.13	0.47
39:BJ:25:ILE:O	39:BJ:26:ILE:C	2.52	0.47
39:BJ:34:GLY:HA3	39:BJ:68:PRO:CG	2.43	0.47
41:BL:17:THR:CB	41:BL:18:ARG:NH2	2.77	0.47
34:BA:1371:G:OP2	42:BM:11:LYS:HE3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:30:SER:HB3	43:BN:80:LYS:CG	2.37	0.47
44:BO:110:ASP:HB2	51:BV:88:LYS:HB3	1.95	0.47
46:BQ:14:ARG:NE	46:BQ:42:ALA:HA	2.30	0.47
47:BR:23:ARG:CD	47:BR:30:ALA:HB2	2.44	0.47
43:BN:47:PHE:CE2	47:BR:37:PHE:CZ	3.02	0.47
36:BG:18:TRP:CZ2	47:BR:55:GLY:O	2.67	0.47
34:BA:667:G:H4'	48:BS:51:HIS:CG	2.49	0.47
49:BT:67:THR:HG22	49:BT:68:ASP:N	2.30	0.47
34:BA:237:C:OP1	50:BU:40:LYS:CE	2.62	0.47
57:BZ:180:ALA:CB	57:BZ:181:GLU:CA	2.92	0.47
57:BZ:240:ILE:HD11	57:BZ:297:LEU:CD1	1.95	0.47
57:BZ:397:GLN:CB	57:BZ:472:TYR:CB	2.73	0.47
57:BZ:77:GLY:HA2	57:BZ:78:HIS:C	2.34	0.47
57:BZ:575:ASP:O	57:BZ:589:LYS:HA	2.14	0.47
43:BN:3:LYS:N	43:BN:3:LYS:CD	2.77	0.47
34:BA:1539:C:O5'	34:BA:1539:C:H6	1.96	0.47
43:BN:17:ASP:O	43:BN:21:GLN:HB3	2.14	0.47
1:AA:1212:G:C8	1:AA:1235:G:N1	2.83	0.47
1:AA:1277:G:C2'	1:AA:1278:A:H5'	2.43	0.47
1:AA:1324:G:O3'	1:AA:1325:G:H4'	2.14	0.47
1:AA:1390:U:H6	1:AA:1390:U:O5'	1.96	0.47
1:AA:1467:C:C4'	1:AA:1467:C:OP1	2.62	0.47
1:AA:153:C:H2'	1:AA:154:G:C8	2.50	0.47
1:AA:1613:G:C2'	1:AA:1614:A:OP1	2.62	0.47
1:AA:162:U:O4	1:AA:163:U:N3	2.46	0.47
1:AA:1699:G:C2'	1:AA:1700:A:OP1	2.62	0.47
1:AA:1891:G:H3'	1:AA:1892:C:H6	1.79	0.47
1:AA:197:A:H5''	1:AA:2068:U:O4	2.14	0.47
1:AA:2000:G:OP2	13:AO:2:ARG:CD	2.63	0.47
1:AA:1135:C:HO2'	1:AA:2038:G:HO2'	1.56	0.47
1:AA:2041:U:O2'	1:AA:2042:A:O4'	2.21	0.47
1:AA:2345:G:H21	1:AA:2381:C:H3'	1.79	0.47
1:AA:2365:G:OP1	22:AX:55:ARG:CG	2.62	0.47
1:AA:2392:A:C2'	1:AA:2393:A:C5'	2.93	0.47
1:AA:249:C:H5	1:AA:2395:C:OP1	1.97	0.47
1:AA:246:C:N3	1:AA:252:G:N1	2.57	0.47
1:AA:2487:G:H2'	1:AA:2488:A:O5'	2.15	0.47
1:AA:2031:A:N6	1:AA:2498:C:H1'	2.25	0.47
1:AA:2549:G:C2'	1:AA:2550:G:H5'	2.45	0.47
1:AA:2523:G:O2'	1:AA:2765:A:N7	2.43	0.47
1:AA:2816:C:H1'	1:AA:2831:G:N2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2817:G:N2	1:AA:2830:G:H1'	2.29	0.47
1:AA:2823:A:O5'	1:AA:2824:C:OP2	2.32	0.47
1:AA:2838:G:C6	1:AA:2839:G:N7	2.82	0.47
1:AA:2848:G:C8	15:AQ:99:LEU:HD13	2.47	0.47
1:AA:2857:G:N1	1:AA:2861:G:C6	2.82	0.47
1:AA:2812:G:N2	1:AA:2889:C:C2	2.83	0.47
1:AA:3:U:O4	1:AA:2900:A:C6	2.68	0.47
1:AA:297:C:C3'	1:AA:298:G:C8	2.98	0.47
1:AA:312:G:N3	1:AA:312:G:C2'	2.73	0.47
1:AA:341:G:C2'	1:AA:342:G:O4'	2.63	0.47
1:AA:345:A:OP1	1:AA:345:A:H4'	2.14	0.47
1:AA:416:C:C5	1:AA:417:C:C4	3.03	0.47
1:AA:4:C:N3	1:AA:2900:A:C5	2.83	0.47
1:AA:603:A:N6	1:AA:624:C:H41	2.06	0.47
1:AA:643:A:O2'	1:AA:644:A:P	2.73	0.47
1:AA:743:G:H2'	1:AA:744:G:H8	1.79	0.47
1:AA:774:A:C1'	1:AA:775:G:C8	2.95	0.47
1:AA:781:A:O2'	4:AD:222:ARG:CZ	2.62	0.47
1:AA:783:A:C2'	1:AA:784:A:C5'	2.92	0.47
1:AA:673:C:N3	1:AA:808:G:N2	2.62	0.47
1:AA:814:C:C3'	1:AA:1224:G:H22	2.28	0.47
1:AA:820:A:C2	1:AA:943:U:O2'	2.62	0.47
1:AA:853:G:O2'	1:AA:854:G:O4'	2.25	0.47
1:AA:919:G:H2'	1:AA:920:G:O5'	2.14	0.47
1:AA:957:A:N1	1:AA:2459:A:C5'	2.77	0.47
1:AA:969:U:N3	1:AA:970:C:C6	2.82	0.47
2:AB:116:G:H5'	14:AP:53:SER:CB	2.44	0.47
2:AB:16:G:C5	2:AB:17:C:C5	3.03	0.47
2:AB:85:G:C2	2:AB:86:G:C8	3.02	0.47
4:AD:5:LYS:HA	4:AD:29:PRO:HD3	1.96	0.47
4:AD:57:GLY:N	4:AD:217:ARG:CD	2.73	0.47
5:AE:142:GLY:C	5:AE:143:ASN:CG	2.71	0.47
5:AE:172:VAL:CA	5:AE:184:VAL:HG12	2.43	0.47
5:AE:81:ILE:CG2	5:AE:82:ARG:H	2.25	0.47
6:AF:26:ALA:O	6:AF:112:MET:SD	2.72	0.47
6:AF:188:ARG:HH21	6:AF:188:ARG:CG	2.23	0.47
6:AF:35:GLU:HA	6:AF:38:ARG:CD	2.44	0.47
7:AG:115:ARG:HG3	7:AG:115:ARG:HH21	1.80	0.47
7:AG:125:PHE:CD1	7:AG:131:TYR:C	2.88	0.47
8:AH:29:PRO:CD	8:AH:30:LYS:H	2.28	0.47
8:AH:9:ILE:O	8:AH:50:VAL:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:18:ALA:O	9:AK:21:LYS:HB2	2.14	0.47
9:AK:74:ARG:CG	9:AK:76:SER:OG	2.63	0.47
10:AL:23:ARG:H	10:AL:40:VAL:CG1	2.26	0.47
10:AL:64:ARG:HE	10:AL:67:LYS:CA	2.27	0.47
10:AL:97:ARG:O	10:AL:97:ARG:CD	2.62	0.47
11:AM:7:ARG:N	11:AM:8:PRO:CD	2.77	0.47
11:AM:95:VAL:C	11:AM:97:PRO:CD	2.79	0.47
12:AN:16:ARG:C	12:AN:17:LEU:HD12	2.35	0.47
13:AO:90:ARG:HB2	13:AO:94:TYR:CE2	2.49	0.47
15:AQ:99:LEU:O	15:AQ:102:ILE:HG23	2.13	0.47
15:AQ:85:LYS:N	15:AQ:85:LYS:HZ3	2.11	0.47
15:AQ:9:LEU:O	15:AQ:10:VAL:C	2.51	0.47
1:AA:1152:C:OP1	16:AR:81:HIS:ND1	2.47	0.47
17:AS:20:LEU:CD1	17:AS:68:LYS:HG3	2.44	0.47
17:AS:92:THR:OG1	17:AS:93:GLU:N	2.47	0.47
18:AT:82:LEU:H	18:AT:98:LYS:HZ3	1.60	0.47
20:AV:49:VAL:N	20:AV:56:PRO:HG3	2.29	0.47
20:AV:67:LEU:HD11	20:AV:71:LYS:HE2	1.95	0.47
21:AW:104:PHE:CZ	21:AW:120:ILE:CG2	2.91	0.47
21:AW:153:SER:O	21:AW:154:ASP:C	2.52	0.47
23:AY:33:GLN:NE2	23:AY:33:GLN:H	2.11	0.47
34:BA:99:C:O2'	34:BA:101:A:OP1	2.33	0.47
34:BA:1027:C:OP2	34:BA:1028:C:OP2	2.32	0.47
34:BA:109:A:N6	34:BA:326:G:N1	2.63	0.47
34:BA:1144:G:N2	34:BA:1146:A:N7	2.62	0.47
34:BA:1148:U:O2	34:BA:1149:C:O4'	2.31	0.47
34:BA:1214:C:H4'	34:BA:1215:G:OP2	2.12	0.47
34:BA:937:A:H1'	34:BA:1379:G:H22	1.77	0.47
34:BA:1410:G:C2	34:BA:1411:C:C4	3.01	0.47
34:BA:20:U:O4	34:BA:21:G:C6	2.68	0.47
34:BA:285:G:C5	34:BA:286:G:N7	2.83	0.47
34:BA:290:C:C6	34:BA:290:C:C3'	2.98	0.47
34:BA:292:G:H3'	34:BA:293:G:H8	1.80	0.47
34:BA:295:C:O2	34:BA:296:U:C1'	2.62	0.47
34:BA:406:G:N2	34:BA:437:U:O2	2.47	0.47
34:BA:493:G:HO2'	34:BA:494:U:H6	1.61	0.47
34:BA:538:G:O3'	45:BP:114:LYS:CD	2.52	0.47
34:BA:584:G:C2'	34:BA:585:G:O5'	2.62	0.47
34:BA:68:G:O5'	34:BA:68:G:H8	1.98	0.47
34:BA:721:G:H1'	34:BA:722:A:N1	2.30	0.47
34:BA:769:G:O2'	34:BA:770:C:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:784:C:H2'	34:BA:785:G:O4'	2.13	0.47
34:BA:766:A:C8	34:BA:814:A:N6	2.82	0.47
34:BA:832:C:N3	34:BA:833:U:C4	2.82	0.47
34:BA:996:A:C2	34:BA:997:U:C4	3.02	0.47
35:BF:115:LEU:CB	35:BF:145:LEU:HG	2.44	0.47
36:BG:8:ILE:CD1	36:BG:16:ARG:HD2	2.44	0.47
36:BG:85:ARG:HH21	36:BG:89:GLU:CA	2.28	0.47
37:BH:59:ARG:HH22	37:BH:66:ARG:NH1	2.07	0.47
37:BH:64:LEU:O	37:BH:67:ILE:HG13	2.14	0.47
37:BH:205:GLU:OE1	38:BI:100:VAL:HB	2.14	0.47
38:BI:107:ARG:NH1	38:BI:107:ARG:HB2	2.29	0.47
40:BK:129:GLU:OE1	40:BK:131:LYS:HD3	2.14	0.47
40:BK:43:PHE:CD2	40:BK:44:TYR:CE2	2.99	0.47
40:BK:95:ARG:O	40:BK:97:GLN:N	2.47	0.47
41:BL:109:ILE:O	41:BL:109:ILE:HG13	2.14	0.47
41:BL:14:ARG:CZ	41:BL:15:ASN:ND2	2.78	0.47
41:BL:48:TYR:HB3	41:BL:61:VAL:HG22	1.94	0.47
34:BA:1368:G:P	42:BM:112:LYS:O	2.73	0.47
42:BM:5:TYR:OH	42:BM:16:ARG:HG3	2.14	0.47
43:BN:9:ARG:HB3	43:BN:9:ARG:NH1	2.30	0.47
40:BK:153:HIS:CE1	44:BO:58:PRO:HD2	2.42	0.47
45:BP:42:THR:HA	45:BP:55:VAL:HG23	1.95	0.47
45:BP:34:ARG:N	45:BP:84:LEU:HD12	2.30	0.47
49:BT:10:GLY:HA3	49:BT:14:ASN:O	2.14	0.47
51:BV:18:ARG:HH22	51:BV:21:LYS:HD3	1.79	0.47
51:BV:74:ARG:NH1	51:BV:81:PHE:CB	2.78	0.47
44:BO:110:ASP:OD2	51:BV:88:LYS:HD2	2.13	0.47
52:BW:62:ILE:HD11	52:BW:67:VAL:CB	2.44	0.47
53:BX:31:SER:O	53:BX:32:ALA:C	2.53	0.47
53:BX:86:ARG:CG	53:BX:87:LYS:N	2.77	0.47
57:BZ:18:LYS:O	57:BZ:19:THR:HG22	2.14	0.47
57:BZ:368:VAL:O	57:BZ:372:ASN:ND2	2.47	0.47
57:BZ:390:ARG:CB	57:BZ:391:GLU:HA	2.45	0.47
57:BZ:51:GLU:OE1	57:BZ:52:ARG:HB2	2.14	0.47
1:AA:1509:C:OP1	1:AA:1510:A:C8	2.57	0.47
18:AT:85:VAL:HG23	18:AT:85:VAL:O	2.13	0.47
57:BZ:258:LEU:CD1	57:BZ:260:LEU:HD22	2.39	0.47
1:AA:2142:C:C2	1:AA:2143:C:C5	3.02	0.47
57:BZ:507:ARG:O	57:BZ:528:SER:OG	2.24	0.47
34:BA:1015:A:H2'	34:BA:1016:A:H8	1.76	0.47
1:AA:1019:U:H6	1:AA:1019:U:C5'	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1181:C:N4	1:AA:1182:A:N6	2.62	0.47
1:AA:1188:U:H2'	1:AA:1189:A:C5'	2.43	0.47
1:AA:1248:G:O2'	1:AA:1249:U:P	2.73	0.47
1:AA:1259:G:C4	1:AA:1260:G:C8	3.03	0.47
1:AA:1284:A:C6	1:AA:1285:G:N1	2.82	0.47
1:AA:1449:A:H2	1:AA:1449(A):G:H1'	1.79	0.47
1:AA:1464:C:O2'	1:AA:1465:G:H5'	2.14	0.47
1:AA:1517:G:H2'	1:AA:1518:C:O4'	2.14	0.47
1:AA:1613:G:C8	1:AA:1617:C:N4	2.82	0.47
1:AA:1631:A:C6	1:AA:1632:A:N1	2.83	0.47
1:AA:1639:U:C2'	1:AA:1640:C:H5''	2.42	0.47
1:AA:1693:U:O4	1:AA:1977:A:C5	2.67	0.47
1:AA:1735:C:C2	1:AA:1741:C:C5	3.00	0.47
1:AA:1806:C:C2	1:AA:1807:G:H8	2.31	0.47
1:AA:1853:A:C1'	1:AA:2234:G:H5'	2.43	0.47
1:AA:1916:A:C2	1:AA:1917:U:C4	3.03	0.47
1:AA:1958:C:O2'	1:AA:1959:G:C5'	2.58	0.47
1:AA:2013:A:C6	1:AA:2014:A:C6	3.03	0.47
1:AA:200:U:C4	1:AA:201:C:C1'	2.96	0.47
1:AA:2118:U:H5	1:AA:2147:G:N7	2.10	0.47
1:AA:2168:G:N3	1:AA:2170:A:H8	2.11	0.47
1:AA:2183:C:C2	1:AA:2184:G:C8	3.02	0.47
1:AA:2213:U:H3'	1:AA:2213:U:C2	2.47	0.47
1:AA:2261:C:C6	1:AA:2261:C:O5'	2.67	0.47
1:AA:2264:C:H2'	1:AA:2265:U:O5'	2.15	0.47
1:AA:2285:C:H1'	1:AA:2288:A:C5	2.49	0.47
1:AA:230:U:C2'	1:AA:231:C:O4'	2.62	0.47
1:AA:2350:C:C2'	1:AA:2351:G:O5'	2.61	0.47
1:AA:2513:G:H2'	1:AA:2514:U:C5	2.50	0.47
1:AA:2645:G:H8	1:AA:2645:G:H5''	1.78	0.47
1:AA:2652:C:N4	1:AA:2669:G:C2	2.83	0.47
1:AA:2674:G:C2'	1:AA:2675:A:H8	2.01	0.47
1:AA:270(R):G:C2	1:AA:270(S):G:C4	3.03	0.47
1:AA:2858:C:H5''	1:AA:2859:G:N7	2.30	0.47
1:AA:287:C:C2'	1:AA:288:C:H5	2.15	0.47
1:AA:2808:U:N1	1:AA:2892:A:N6	2.62	0.47
1:AA:318:C:C2	1:AA:334:C:N3	2.82	0.47
1:AA:383:U:C2	1:AA:385:C:C4	3.02	0.47
1:AA:417:C:O2'	1:AA:418:G:H5'	2.14	0.47
1:AA:35:G:O4'	1:AA:454:A:C1'	2.62	0.47
1:AA:799:G:H8	1:AA:799:G:OP2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:837:C:H2'	1:AA:838:C:O5'	2.14	0.47
1:AA:860:U:O2	1:AA:860:U:H3'	2.15	0.47
1:AA:893:C:C4	1:AA:894:C:C4	3.02	0.47
1:AA:903:C:H1'	21:AW:169:GLU:OE2	2.14	0.47
1:AA:909:A:O2'	1:AA:911:A:OP2	2.28	0.47
2:AB:2:C:C2'	2:AB:3:C:O5'	2.63	0.47
2:AB:71:C:O2	2:AB:72:G:H4'	2.13	0.47
3:AC:74:VAL:CG2	3:AC:112:ALA:HB3	2.33	0.47
1:AA:2121:G:O2'	3:AC:166:ASP:OD2	2.22	0.47
3:AC:180:PHE:HA	3:AC:181:PRO:HA	1.91	0.47
4:AD:106:ILE:CG1	4:AD:108:PRO:HD3	2.36	0.47
4:AD:149:PRO:HD3	4:AD:186:HIS:CE1	2.49	0.47
5:AE:176:ILE:CD1	5:AE:179:GLU:N	2.78	0.47
5:AE:47:VAL:HG13	5:AE:78:LEU:C	2.34	0.47
5:AE:61:ARG:O	5:AE:62:PRO:C	2.51	0.47
5:AE:64:LYS:O	5:AE:65:GLY:C	2.50	0.47
5:AE:69:LYS:O	5:AE:70:ALA:O	2.32	0.47
5:AE:50:GLY:CA	5:AE:76:ARG:HE	2.24	0.47
6:AF:107:LYS:O	6:AF:108:LYS:C	2.51	0.47
1:AA:675:A:C4'	6:AF:67:GLN:NE2	2.64	0.47
7:AG:113:ARG:O	7:AG:114:ILE:CB	2.63	0.47
7:AG:121:ASN:CG	7:AG:133:LEU:HD21	2.34	0.47
8:AH:11:VAL:HB	8:AH:50:VAL:HG22	1.97	0.47
1:AA:2745:C:C1'	8:AH:143:GLN:HG2	2.42	0.47
8:AH:161:GLY:C	8:AH:163:TYR:HE1	2.18	0.47
8:AH:97:ARG:HB3	8:AH:97:ARG:CZ	2.44	0.47
32:AJ:51:ALA:HB1	32:AJ:77:LEU:HA	1.97	0.47
32:AJ:72:PRO:CG	32:AJ:77:LEU:CB	2.54	0.47
9:AK:25:ARG:HH21	9:AK:26:LEU:HB2	1.80	0.47
9:AK:30:ILE:H	9:AK:30:ILE:HG13	1.49	0.47
9:AK:18:ALA:CB	9:AK:55:VAL:O	2.56	0.47
1:AA:2040:C:H4'	9:AK:72:TYR:CE2	2.50	0.47
9:AK:99:LEU:HD21	9:AK:122:VAL:CG2	2.40	0.47
10:AL:10:VAL:C	10:AL:17:ARG:CG	2.80	0.47
10:AL:34:THR:O	10:AL:61:VAL:CG1	2.54	0.47
10:AL:48:PRO:O	10:AL:49:ARG:C	2.52	0.47
10:AL:63:VAL:CG2	10:AL:81:ASP:CA	2.90	0.47
10:AL:64:ARG:NH2	10:AL:65:THR:H	2.12	0.47
11:AM:80:TYR:CE1	11:AM:85:LEU:HD13	2.50	0.47
12:AN:120:ILE:O	12:AN:124:LYS:HG2	2.14	0.47
12:AN:134:ARG:NE	12:AN:137:TYR:N	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:45:GLN:C	12:AN:47:ILE:N	2.65	0.47
1:AA:1287:A:H8	13:AO:104:ARG:NH1	2.12	0.47
13:AO:118:GLU:HA	13:AO:118:GLU:OE2	2.14	0.47
13:AO:22:ARG:O	13:AO:26:LYS:HG3	2.15	0.47
1:AA:2822:G:C8	13:AO:4:LEU:HD21	2.49	0.47
13:AO:67:LEU:HD21	13:AO:71:GLN:HA	1.97	0.47
14:AP:92:TYR:CE1	14:AP:93:LYS:HB3	2.49	0.47
9:AK:4:TYR:HB3	16:AR:64:ARG:NH2	2.28	0.47
17:AS:3:ALA:CA	17:AS:44:LYS:HZ2	2.28	0.47
17:AS:3:ALA:CA	17:AS:44:LYS:NZ	2.78	0.47
18:AT:34:ASN:CG	18:AT:37:ARG:HH11	2.17	0.47
20:AV:35:TYR:HE2	20:AV:67:LEU:HD13	1.78	0.47
21:AW:145:GLU:HB3	21:AW:146:ILE:H	1.31	0.47
21:AW:15:PRO:O	21:AW:19:ARG:HD2	2.14	0.47
21:AW:171:ILE:HD12	21:AW:171:ILE:C	2.35	0.47
21:AW:30:ASN:HB2	21:AW:90:VAL:CG2	2.28	0.47
21:AW:59:LEU:HD11	21:AW:66:SER:OG	2.15	0.47
22:AX:37:LEU:CD2	22:AX:60:PHE:HA	2.43	0.47
22:AX:76:GLY:O	22:AX:78:TYR:CD1	2.67	0.47
1:AA:95:G:C2'	23:AY:43:HIS:NE2	2.72	0.47
24:AZ:26:LEU:HG	24:AZ:35:ARG:HH12	1.73	0.47
34:BA:1149:C:OP1	42:BM:9:ARG:NH2	2.47	0.47
34:BA:1239:A:N3	34:BA:1239:A:C2'	2.74	0.47
34:BA:1288:A:H1'	34:BA:1352:C:O2'	2.14	0.47
34:BA:1390:U:C2	34:BA:1391:U:C5	3.03	0.47
34:BA:141:A:H2'	34:BA:142:G:O4'	2.14	0.47
34:BA:1447:G:C6	34:BA:1460:A:C6	3.03	0.47
34:BA:1476:G:C4	34:BA:1477:C:C5	3.02	0.47
34:BA:1517:G:C2	34:BA:1518:A:C4	3.03	0.47
34:BA:161:A:C6	34:BA:162:A:C6	3.03	0.47
34:BA:67:C:OP1	34:BA:199:G:H5''	2.14	0.47
34:BA:208:U:H2'	34:BA:208:U:O2	2.14	0.47
34:BA:279:A:H4'	34:BA:280:C:O5'	2.14	0.47
34:BA:282:A:H2'	34:BA:282:A:N3	2.29	0.47
34:BA:332:G:O2'	34:BA:333:G:C5'	2.63	0.47
34:BA:414:A:N7	34:BA:430:A:N6	2.62	0.47
34:BA:474:G:OP2	34:BA:474:G:H8	1.97	0.47
34:BA:517:G:N7	34:BA:531:U:C2	2.82	0.47
34:BA:528:C:O4'	34:BA:535:A:C6	2.68	0.47
34:BA:556:C:C2'	34:BA:557:G:H5'	2.43	0.47
34:BA:558:G:C4'	34:BA:559:A:H5''	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:628:G:C2'	34:BA:629:G:H8	2.21	0.47
34:BA:666:G:H22	34:BA:741:G:H1'	1.78	0.47
34:BA:742:G:C2	34:BA:743:U:H1'	2.49	0.47
34:BA:870:U:C5'	34:BA:871:U:OP1	2.61	0.47
34:BA:933:G:H8	34:BA:933:G:O5'	1.98	0.47
34:BA:945:G:C6	34:BA:1337:G:C5	3.03	0.47
34:BA:947:G:H2'	34:BA:948:C:H6	1.79	0.47
56:BE:2:C:C5	56:BE:71:G:C6	3.02	0.47
35:BF:61:LEU:O	35:BF:64:ARG:HD2	2.15	0.47
36:BG:148:GLY:HA3	36:BG:172:ARG:O	2.14	0.47
36:BG:182:ILE:CD1	36:BG:203:PHE:CD1	2.97	0.47
37:BH:104:VAL:O	37:BH:105:VAL:C	2.52	0.47
37:BH:120:LEU:CG	37:BH:121:VAL:N	2.77	0.47
37:BH:61:LYS:HZ1	37:BH:72:GLU:CD	2.18	0.47
38:BI:31:LEU:O	38:BI:31:LEU:HD23	2.14	0.47
38:BI:53:LEU:O	38:BI:54:ALA:C	2.53	0.47
38:BI:65:ASN:CG	38:BI:65:ASN:O	2.53	0.47
38:BI:95:ALA:C	38:BI:96:PRO:O	2.53	0.47
39:BJ:41:GLU:N	39:BJ:63:TYR:HD1	2.11	0.47
39:BJ:65:VAL:O	39:BJ:67:MET:CE	2.63	0.47
39:BJ:76:ALA:CB	39:BJ:80:ARG:CZ	2.92	0.47
40:BK:125:MET:O	40:BK:126:ASP:C	2.52	0.47
40:BK:87:VAL:CG1	40:BK:152:ALA:HA	2.31	0.47
40:BK:15:ASP:OD1	40:BK:18:TYR:N	2.47	0.47
40:BK:15:ASP:HB2	40:BK:23:VAL:CB	2.45	0.47
41:BL:127:LEU:C	41:BL:127:LEU:HD13	2.35	0.47
41:BL:63:LEU:HB2	41:BL:65:TYR:HE1	1.79	0.47
43:BN:15:THR:HG21	43:BN:93:GLY:O	2.14	0.47
43:BN:10:GLY:HA3	43:BN:16:LEU:CD2	2.42	0.47
43:BN:33:GLN:C	43:BN:34:VAL:HG23	2.35	0.47
43:BN:16:LEU:HB3	43:BN:70:ARG:HG3	1.96	0.47
44:BO:18:ARG:HB2	44:BO:20:TYR:CE1	2.44	0.47
44:BO:31:THR:OG1	44:BO:42:TRP:CB	2.63	0.47
44:BO:46:GLY:HA2	44:BO:55:LYS:HD2	1.93	0.47
44:BO:48:ILE:HD12	44:BO:63:LEU:CD2	2.22	0.47
46:BQ:22:ILE:HG22	46:BQ:23:TYR:H	1.80	0.47
46:BQ:66:LEU:H	46:BQ:70:LEU:CB	2.26	0.47
47:BR:29:ARG:HB2	47:BR:40:CYS:HB3	1.96	0.47
48:BS:56:LEU:O	48:BS:59:MET:HB3	2.14	0.47
34:BA:625:G:H4'	49:BT:16:HIS:CG	2.50	0.47
49:BT:55:ARG:O	49:BT:56:ALA:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:18:THR:HG22	50:BU:43:LEU:CD2	2.31	0.47
53:BX:85:MET:CA	53:BX:88:VAL:HG23	2.39	0.47
53:BX:88:VAL:O	53:BX:92:LEU:HG	2.14	0.47
54:BY:14:TRP:O	54:BY:15:ARG:C	2.52	0.47
57:BZ:127:ILE:N	57:BZ:164:TYR:HA	2.29	0.47
57:BZ:398:GLU:O	57:BZ:472:TYR:HA	2.14	0.47
57:BZ:419:LEU:HD12	57:BZ:441:TYR:CB	2.44	0.47
56:BD:7:A:C2	56:BD:67:C:C2	2.90	0.47
14:AP:59:LYS:CE	14:AP:59:LYS:H	2.28	0.47
34:BA:73:G:C2	34:BA:74:C:C2	3.02	0.47
1:AA:1050:A:C1'	1:AA:2752:C:C4	2.89	0.47
1:AA:1111:A:O3'	1:AA:1112:G:O4'	2.33	0.47
1:AA:1181:C:H2'	1:AA:1182:A:O4'	2.14	0.47
1:AA:1241:A:HO2'	1:AA:1242:A:H8	1.63	0.47
1:AA:1247:A:O2'	1:AA:1248:G:O5'	2.30	0.47
1:AA:1342:A:H8	1:AA:1342:A:P	2.37	0.47
1:AA:149:A:C5	1:AA:150:C:C5	3.01	0.47
1:AA:1575:C:C4	1:AA:1576:U:C4	3.02	0.47
1:AA:1591:G:C6	1:AA:1592:C:C4	3.03	0.47
1:AA:162:U:O5'	1:AA:162:U:H6	1.98	0.47
1:AA:1703:G:N2	1:AA:1704:G:C1'	2.78	0.47
1:AA:1727:U:H2'	1:AA:1728:G:OP1	2.15	0.47
1:AA:1741:C:H2'	1:AA:1742:C:C1'	2.44	0.47
1:AA:1757:U:H2'	1:AA:1758:G:OP1	2.15	0.47
1:AA:783:A:H2	1:AA:1779:U:C4'	2.27	0.47
1:AA:1803:A:H5''	4:AD:257:LEU:HB3	1.97	0.47
1:AA:1364:G:H5''	1:AA:1809:A:N3	2.29	0.47
1:AA:1817:G:P	4:AD:88:ARG:NH1	2.76	0.47
1:AA:1818:U:C4	4:AD:156:ALA:HB2	2.49	0.47
1:AA:1858:G:HO2'	1:AA:1859:A:H8	1.56	0.47
1:AA:2011:U:H3'	1:AA:2012:G:H8	1.79	0.47
1:AA:2037:G:H2'	1:AA:2038:G:H8	1.74	0.47
1:AA:2123:G:C2'	3:AC:44:HIS:CE1	2.97	0.47
1:AA:2126:A:C4'	1:AA:2127:G:O5'	2.62	0.47
1:AA:184:C:N3	1:AA:213:A:N6	2.62	0.47
1:AA:2168:G:N2	1:AA:2171:A:C8	2.82	0.47
1:AA:2175:C:C6	3:AC:219:GLY:C	2.76	0.47
1:AA:2226:C:C2'	1:AA:2227:A:H5'	2.44	0.47
1:AA:2246:G:N2	1:AA:2247:A:C2	2.83	0.47
1:AA:2288:A:H5'	1:AA:2289:G:OP2	2.15	0.47
1:AA:228:A:C2'	1:AA:229:A:H5'	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2317:C:H2'	1:AA:2318:G:C8	2.50	0.47
1:AA:245:G:C6	1:AA:246:C:C5	3.03	0.47
1:AA:2654:A:N1	1:AA:2665:A:H5''	2.30	0.47
1:AA:270(W):G:C4	1:AA:270(X):G:H8	2.32	0.47
1:AA:2758:A:P	1:AA:2759:G:OP2	2.73	0.47
1:AA:2638:G:N1	1:AA:2776:A:OP2	2.37	0.47
1:AA:2812:G:C4	1:AA:2813:A:N7	2.83	0.47
1:AA:298:G:O6	1:AA:338:G:O4'	2.32	0.47
1:AA:364:C:C2	1:AA:365:C:C5	3.03	0.47
1:AA:427:U:O2'	1:AA:428:A:C1'	2.62	0.47
1:AA:483:A:H62	1:AA:497:A:H2	1.60	0.47
1:AA:496:G:C6	1:AA:497:A:C5	3.03	0.47
1:AA:532:A:O3'	16:AR:28:ARG:HD2	2.14	0.47
1:AA:55:G:N3	1:AA:56:A:C8	2.83	0.47
1:AA:72:U:O4	1:AA:112:U:C1'	2.59	0.47
1:AA:949:C:N3	1:AA:950:G:N7	2.62	0.47
1:AA:955:C:H5''	12:AN:87:LYS:CD	2.44	0.47
1:AA:983:A:C2'	1:AA:984:A:C8	2.97	0.47
2:AB:2:C:OP2	2:AB:2:C:H6	1.97	0.47
3:AC:131:LEU:CD1	3:AC:137:LEU:HA	2.42	0.47
3:AC:48:GLY:N	3:AC:210:ARG:HD3	2.30	0.47
4:AD:37:LEU:CD2	4:AD:63:ARG:HE	2.26	0.47
4:AD:55:GLY:HA2	4:AD:218:ARG:HD3	1.96	0.47
5:AE:176:ILE:HG22	5:AE:181:LEU:C	2.34	0.47
5:AE:49:LEU:CD1	5:AE:51:PHE:H	2.26	0.47
6:AF:9:ILE:HG22	6:AF:10:PRO:N	2.28	0.47
6:AF:125:LEU:HB2	6:AF:194:MET:O	2.14	0.47
6:AF:65:TRP:CE3	6:AF:65:TRP:HA	2.49	0.47
7:AG:59:GLU:CB	7:AG:152:LEU:HD13	2.44	0.47
7:AG:16:ARG:HD2	7:AG:20:ILE:CD1	2.44	0.47
8:AH:104:GLU:C	8:AH:105:LEU:HG	2.33	0.47
8:AH:31:GLY:HA2	8:AH:136:ILE:HD11	1.96	0.47
1:AA:2746:U:OP1	8:AH:142:GLY:HA3	2.14	0.47
8:AH:157:TYR:HD1	8:AH:157:TYR:C	2.18	0.47
9:AK:127:ASP:O	9:AK:130:HIS:HB2	2.14	0.47
9:AK:89:LYS:HG2	9:AK:90:MET:H	1.75	0.47
11:AM:114:ILE:HD11	11:AM:123:LEU:CG	2.44	0.47
11:AM:127:ALA:HB3	11:AM:130:PHE:HE2	1.80	0.47
11:AM:130:PHE:C	11:AM:131:SER:O	2.53	0.47
11:AM:18:ARG:C	11:AM:20:GLY:H	2.17	0.47
14:AP:73:LEU:HA	14:AP:76:LYS:CD	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:107:ASP:HB2	15:AQ:108:ARG:HH11	1.79	0.47
15:AQ:79:HIS:HB2	15:AQ:82:LEU:CB	2.42	0.47
16:AR:37:GLU:O	16:AR:39:LEU:N	2.47	0.47
17:AS:69:LYS:CA	17:AS:92:THR:HB	2.44	0.47
17:AS:22:VAL:O	17:AS:93:GLU:CB	2.62	0.47
18:AT:11:ARG:HB3	18:AT:11:ARG:CZ	2.43	0.47
1:AA:64:A:H4'	19:AU:73:ARG:H	1.79	0.47
20:AV:10:GLY:N	20:AV:110:GLU:OE2	2.48	0.47
20:AV:12:THR:CB	20:AV:71:LYS:HA	2.45	0.47
21:AW:111:VAL:HG21	21:AW:117:LEU:HG	1.92	0.47
21:AW:152:ALA:HB3	21:AW:168:GLU:H	1.80	0.47
21:AW:40:ASP:O	21:AW:44:PHE:HD1	1.96	0.47
23:AY:28:MET:HA	23:AY:31:ARG:CG	2.37	0.47
23:AY:33:GLN:HA	23:AY:36:ILE:HG22	1.97	0.47
24:AZ:23:LEU:HA	24:AZ:28:LEU:HD11	1.95	0.47
24:AZ:31:LEU:HB3	24:AZ:32:GLN:HE22	1.74	0.47
24:AZ:4:LEU:C	24:AZ:4:LEU:HD23	2.35	0.47
24:AZ:23:LEU:HD12	24:AZ:50:VAL:CG2	2.44	0.47
24:AZ:52:HIS:ND1	24:AZ:53:LEU:HG	2.29	0.47
34:BA:1109:C:C2'	34:BA:1110:A:C8	2.86	0.47
34:BA:1142:G:O2'	34:BA:1143:G:C5'	2.61	0.47
34:BA:1166:G:H2'	34:BA:1169:A:OP2	2.15	0.47
34:BA:1164:G:C4	34:BA:1173:G:C2	3.03	0.47
34:BA:1185:G:H2'	34:BA:1186:G:C5'	2.45	0.47
34:BA:1240:U:N1	40:BK:32:ARG:NH2	2.63	0.47
34:BA:1261:A:H3'	34:BA:1262:C:C6	2.48	0.47
34:BA:1302:U:C3'	34:BA:1303:C:H5'	2.45	0.47
34:BA:1323:G:H4'	34:BA:1362(A):C:N4	2.29	0.47
34:BA:1335:C:H5''	34:BA:1336:C:H5'	1.95	0.47
34:BA:1507:A:C2'	34:BA:1508:G:C5'	2.92	0.47
34:BA:19:C:O2	34:BA:572:A:C2	2.62	0.47
34:BA:309:G:O2'	34:BA:310:G:O4'	2.22	0.47
34:BA:375:U:O3'	49:BT:6:LEU:CD2	2.52	0.47
34:BA:485:G:HO2'	34:BA:486:U:H6	1.59	0.47
34:BA:494:U:H2'	34:BA:495:A:H5'	1.96	0.47
34:BA:536:C:O5'	34:BA:536:C:C6	2.68	0.47
34:BA:573:A:C2	34:BA:574:A:N1	2.82	0.47
34:BA:587:G:N2	34:BA:754:C:OP2	2.48	0.47
34:BA:665:A:C2	34:BA:732:C:C4	3.02	0.47
34:BA:832:C:N3	34:BA:855:G:C6	2.83	0.47
34:BA:896:C:N3	34:BA:897:C:C5	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:949:A:OP1	46:BQ:101:GLN:OE1	2.33	0.47
55:BC:21:A:C8	55:BC:21:A:H5'	2.49	0.47
35:BF:101:MET:HA	35:BF:104:ASN:OD1	2.15	0.47
36:BG:172:ARG:CB	36:BG:172:ARG:CZ	2.93	0.47
38:BI:40:ARG:HB2	38:BI:68:GLU:OE1	2.14	0.47
39:BJ:3:ARG:CA	39:BJ:67:MET:CE	2.84	0.47
40:BK:106:GLN:HE21	40:BK:106:GLN:N	2.12	0.47
40:BK:45:ASP:HB2	40:BK:117:ALA:CB	2.44	0.47
40:BK:66:VAL:HG12	40:BK:70:LYS:CE	2.43	0.47
41:BL:10:LEU:O	41:BL:83:ILE:HD13	2.14	0.47
41:BL:114:THR:H	41:BL:119:LEU:CD2	2.26	0.47
41:BL:24:THR:H	41:BL:60:ARG:CD	2.26	0.47
43:BN:24:VAL:HG13	43:BN:34:VAL:CG1	2.44	0.47
43:BN:49:VAL:O	43:BN:60:ARG:CB	2.62	0.47
45:BP:115:LYS:O	45:BP:116:SER:O	2.33	0.47
45:BP:57:LYS:CG	45:BP:67:THR:HG22	2.28	0.47
46:BQ:10:PRO:CG	46:BQ:45:VAL:HG13	2.21	0.47
34:BA:230:G:H5'	49:BT:23:ASP:OD2	2.14	0.47
49:BT:4:ILE:HG12	49:BT:66:PRO:CA	2.44	0.47
51:BV:51:LEU:HA	51:BV:52:PRO:HD2	1.48	0.47
52:BW:22:LEU:HA	52:BW:25:LYS:HZ1	1.80	0.47
52:BW:36:ARG:HA	52:BW:71:LEU:HD13	1.97	0.47
34:BA:1220:G:C4	52:BW:54:GLY:O	2.60	0.47
53:BX:85:MET:O	53:BX:86:ARG:C	2.52	0.47
57:BZ:172:ALA:N	57:BZ:179:MET:CG	2.75	0.47
57:BZ:234:ASN:OD1	57:BZ:236:GLN:HA	2.14	0.47
57:BZ:419:LEU:HD12	57:BZ:441:TYR:HB2	1.96	0.47
57:BZ:403:VAL:C	57:BZ:465:LEU:HB2	2.31	0.47
57:BZ:518:VAL:HG23	57:BZ:519:TYR:N	2.30	0.47
55:BC:29:G:H2'	55:BC:30:G:H8	1.75	0.47
1:AA:1182:A:OP2	1:AA:1182:A:O4'	2.32	0.47
1:AA:1221:C:C2'	1:AA:1222:C:O5'	2.63	0.47
1:AA:1225:C:C4	1:AA:1226:G:N1	2.82	0.47
1:AA:122:G:C2	1:AA:130:C:C2	3.03	0.47
1:AA:1229:G:C5	1:AA:1230:C:C2	3.03	0.47
1:AA:1250:G:HO2'	1:AA:1251:C:P	2.36	0.47
1:AA:1295:C:C2	1:AA:1296:G:N7	2.82	0.47
1:AA:1339:G:H1'	1:AA:1393:A:C2	2.50	0.47
1:AA:1372:U:C6	1:AA:1372:U:C3'	2.97	0.47
1:AA:1381:G:O6	1:AA:1382:G:C6	2.67	0.47
1:AA:1425:G:C6	1:AA:1426:G:O6	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1427:A:O2'	1:AA:1428:C:C6	2.61	0.47
1:AA:1513:C:H5''	1:AA:1513:C:H6	1.79	0.47
1:AA:1519:G:H3'	1:AA:1520:U:C1'	2.45	0.47
1:AA:1619:G:N1	1:AA:1620:G:C5	2.83	0.47
1:AA:1665:A:C2	1:AA:1666:G:C4	3.03	0.47
1:AA:1684:C:H2'	1:AA:1685:C:H6	1.77	0.47
1:AA:1690:A:H2'	1:AA:1691:C:C5'	2.44	0.47
1:AA:1826:G:OP1	4:AD:233:HIS:CD2	2.68	0.47
1:AA:1878:G:C6	1:AA:1879:C:C4	3.02	0.47
1:AA:188:G:H2'	1:AA:189:G:C8	2.49	0.47
1:AA:1906:G:N1	1:AA:1929:G:C6	2.81	0.47
1:AA:1954:G:C2'	1:AA:1956:U:O4	2.62	0.47
1:AA:530:G:N2	1:AA:2021:C:C2'	2.78	0.47
1:AA:961:C:N4	1:AA:2031:A:H1'	2.29	0.47
1:AA:204:A:C4	1:AA:206:U:N3	2.83	0.47
1:AA:2051:A:N1	1:AA:2614:A:C6	2.82	0.47
1:AA:2127:G:C5	1:AA:2162:G:N1	2.82	0.47
1:AA:2325:G:N7	1:AA:2326:C:C5	2.83	0.47
1:AA:233:A:C5	1:AA:234:C:C6	3.03	0.47
1:AA:2383:G:C2	1:AA:2384:G:C4	3.03	0.47
1:AA:2420:C:H5''	5:AE:35:GLN:NE2	137.21	0.47
1:AA:2435:A:C2	1:AA:2436:G:N9	2.82	0.47
1:AA:246:C:N4	1:AA:252:G:N1	2.63	0.47
1:AA:2530:A:H2'	1:AA:2531:A:H5''	1.96	0.47
1:AA:2607:G:N1	1:AA:2608:G:N3	2.62	0.47
1:AA:2740:A:C6	1:AA:2741:A:C6	3.03	0.47
1:AA:281:G:N3	1:AA:281:G:C2'	2.72	0.47
1:AA:2824:C:C4	1:AA:2825:C:C2	3.03	0.47
1:AA:2827:C:C2'	1:AA:2828:C:H5'	2.44	0.47
1:AA:2884:U:O2'	1:AA:2885:C:H5'	2.15	0.47
1:AA:342:G:H2'	1:AA:343:C:O4'	2.15	0.47
1:AA:295:G:N2	1:AA:344:G:C1'	2.77	0.47
1:AA:35:G:H21	1:AA:450:G:H21	1.58	0.47
1:AA:361:G:H2'	1:AA:362:U:H6	1.78	0.47
1:AA:183:C:C1'	1:AA:433:C:H1'	2.29	0.47
1:AA:29:U:O4	1:AA:447:A:H5''	2.14	0.47
1:AA:455:C:H5'	1:AA:456:C:OP1	2.14	0.47
1:AA:514:A:C2	1:AA:515:A:C1'	2.94	0.47
1:AA:638:G:O6	1:AA:639:U:N3	2.48	0.47
1:AA:587:C:C6	1:AA:671:C:H1'	2.50	0.47
1:AA:689:A:C4	1:AA:690:G:C8	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:730:C:H2'	1:AA:731:C:H6	1.73	0.47
1:AA:763:G:H2'	1:AA:764:A:C5'	2.44	0.47
1:AA:780:G:H2'	1:AA:782:A:C5	2.47	0.47
1:AA:783:A:O2'	1:AA:784:A:H5'	2.15	0.47
1:AA:799:G:OP1	1:AA:800:A:H3'	2.15	0.47
1:AA:90:U:H5'	1:AA:91:A:OP1	2.15	0.47
1:AA:958:U:O2'	1:AA:959:A:O5'	2.33	0.47
2:AB:110:G:C6	2:AB:111:U:C2	3.03	0.47
2:AB:40:U:H3'	2:AB:41:U:H5'	1.96	0.47
2:AB:5:C:H2'	2:AB:6:C:C5	2.50	0.47
3:AC:160:ARG:O	3:AC:161:ILE:HG13	2.14	0.47
1:AA:2123:G:C5'	3:AC:172:HIS:CE1	2.98	0.47
3:AC:68:LEU:HG	3:AC:69:GLY:H	1.79	0.47
4:AD:226:MET:O	4:AD:227:ASN:C	2.53	0.47
1:AA:783:A:H8	4:AD:227:ASN:ND2	2.13	0.47
4:AD:34:VAL:O	4:AD:36:PRO:CD	2.62	0.47
5:AE:7:VAL:O	5:AE:193:GLY:N	2.47	0.47
5:AE:80:GLU:N	5:AE:80:GLU:CD	2.67	0.47
6:AF:154:VAL:HG23	6:AF:156:LEU:CD2	2.45	0.47
6:AF:157:VAL:O	6:AF:157:VAL:CG2	2.62	0.47
6:AF:31:HIS:ND1	11:AM:14:LYS:CE	2.75	0.47
7:AG:125:PHE:CB	7:AG:131:TYR:O	2.60	0.47
8:AH:101:ARG:HA	8:AH:101:ARG:NE	2.29	0.47
8:AH:17:VAL:O	8:AH:17:VAL:HG13	2.14	0.47
8:AH:65:HIS:O	8:AH:66:GLY:C	2.53	0.47
8:AH:74:ASN:HB2	8:AH:138:LYS:HZ1	1.78	0.47
32:AJ:36:GLU:C	32:AJ:38:VAL:H	2.16	0.47
9:AK:104:LYS:O	9:AK:106:MET:N	2.47	0.47
9:AK:113:GLY:O	9:AK:116:LEU:N	2.48	0.47
9:AK:13:TRP:CD2	9:AK:51:PHE:HB2	2.50	0.47
10:AL:99:PHE:HA	10:AL:122:LEU:O	2.14	0.47
10:AL:9:GLU:O	10:AL:82:ASN:CA	2.62	0.47
11:AM:96:THR:CB	11:AM:102:ARG:HD3	2.44	0.47
11:AM:114:ILE:O	11:AM:116:GLY:N	2.41	0.47
11:AM:24:GLY:O	11:AM:25:SER:C	2.52	0.47
12:AN:130:LYS:HZ1	12:AN:132:VAL:HG22	1.78	0.47
12:AN:51:ARG:HD3	12:AN:52:VAL:HG23	1.97	0.47
15:AQ:2:ASN:OD1	15:AQ:3:ARG:N	2.36	0.47
18:AT:5:ALA:CB	18:AT:105:VAL:O	2.55	0.47
1:AA:2010:G:P	18:AT:41:LYS:NZ	2.88	0.47
18:AT:25:ARG:NH2	18:AT:74:ALA:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:86:LEU:HB3	18:AT:87:PRO:CD	2.44	0.47
20:AV:54:LYS:C	20:AV:56:PRO:HD3	2.35	0.47
21:AW:119:GLU:O	21:AW:119:GLU:HG3	2.15	0.47
21:AW:151:HIS:CD2	21:AW:170:THR:N	2.83	0.47
23:AY:46:ARG:HE	23:AY:50:ARG:HH22	1.63	0.47
24:AZ:8:LEU:CB	24:AZ:33:GLN:HB3	2.44	0.47
34:BA:1079:G:N2	34:BA:1080:A:N1	2.62	0.47
34:BA:108:G:C5	53:BX:15:ARG:NE	2.82	0.47
34:BA:1105:A:C2	34:BA:1106:G:C8	3.03	0.47
34:BA:1157:A:N6	34:BA:1180:A:C6	2.83	0.47
34:BA:1163:C:N4	34:BA:1174:G:C6	2.83	0.47
34:BA:115:G:O2'	34:BA:116:A:N7	2.47	0.47
34:BA:1268:A:C2	34:BA:1327:C:H1'	2.50	0.47
34:BA:1309:G:N7	34:BA:1330:U:N3	2.62	0.47
34:BA:1357:A:C5	34:BA:1358:U:O4	2.67	0.47
34:BA:1371:G:OP2	42:BM:11:LYS:CE	2.62	0.47
34:BA:1428:A:N6	34:BA:1473:A:N6	2.62	0.47
34:BA:1475:G:C2'	34:BA:1476:G:O5'	2.63	0.47
34:BA:1485:U:O2'	34:BA:1486:G:H8	1.97	0.47
34:BA:1513:A:C2	34:BA:1523:G:C6	3.03	0.47
34:BA:193:C:O2'	34:BA:194:C:H5'	2.14	0.47
34:BA:59:A:H1'	34:BA:354:G:C2	2.49	0.47
34:BA:601:C:O2'	34:BA:602:A:H5'	2.14	0.47
34:BA:611:A:C5	34:BA:612:C:C5	3.03	0.47
34:BA:717:C:O2'	34:BA:718:G:OP2	2.33	0.47
34:BA:715:A:H4'	34:BA:777:A:H61	1.79	0.47
34:BA:817:C:C5	34:BA:819:A:O4'	2.68	0.47
34:BA:843:U:H3'	34:BA:848:C:C4'	2.44	0.47
34:BA:862:C:C2	34:BA:863:U:C5	3.02	0.47
34:BA:889:A:H4'	34:BA:890:G:C5'	2.44	0.47
34:BA:89:U:C2	34:BA:90:C:C5	3.03	0.47
34:BA:901:A:H2'	34:BA:902:G:O5'	2.15	0.47
34:BA:915:A:C2'	34:BA:916:G:C5'	2.84	0.47
34:BA:995:C:O2	47:BR:4:LYS:NZ	2.47	0.47
56:BD:55:U:C5	56:BD:57:G:C5'	2.97	0.47
35:BF:221:LEU:CD1	35:BF:221:LEU:C	2.75	0.47
36:BG:11:ARG:N	36:BG:11:ARG:HE	2.13	0.47
36:BG:33:LEU:CD2	36:BG:36:ASP:OD1	2.63	0.47
37:BH:27:TYR:CD2	37:BH:27:TYR:O	2.68	0.47
37:BH:35:ARG:O	37:BH:36:ARG:C	2.53	0.47
38:BI:94:ALA:HB3	38:BI:117:ASP:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:109:ILE:HG12	38:BI:139:LEU:HD11	1.97	0.47
38:BI:32:VAL:C	38:BI:43:LEU:HG	2.35	0.47
40:BK:15:ASP:HB3	40:BK:19:GLY:N	2.30	0.47
40:BK:75:VAL:HG13	40:BK:87:VAL:C	2.35	0.47
41:BL:111:ILE:CD1	41:BL:136:GLU:HA	2.44	0.47
41:BL:126:LYS:NZ	41:BL:127:LEU:CD2	2.73	0.47
41:BL:15:ASN:HD22	41:BL:15:ASN:H	1.61	0.47
41:BL:40:ALA:HB2	41:BL:45:ILE:HG23	1.95	0.47
41:BL:21:LYS:O	41:BL:63:LEU:HD13	2.13	0.47
41:BL:67:PRO:N	41:BL:76:PRO:HB3	2.29	0.47
41:BL:6:ILE:CD1	41:BL:85:ARG:CZ	2.93	0.47
41:BL:70:GLN:NE2	41:BL:70:GLN:CA	2.76	0.47
50:BU:31:LEU:CG	50:BU:31:LEU:O	2.59	0.47
51:BV:71:LYS:O	51:BV:73:ALA:N	2.46	0.47
52:BW:30:LEU:HA	52:BW:48:THR:O	2.14	0.47
52:BW:68:GLY:O	52:BW:69:HIS:CG	2.67	0.47
57:BZ:137:PRO:CB	57:BZ:164:TYR:HE2	2.28	0.47
57:BZ:165:ALA:HB1	57:BZ:171:ILE:HG21	1.79	0.47
57:BZ:551:ALA:CB	57:BZ:552:ASP:CB	2.86	0.47
57:BZ:71:ASN:C	57:BZ:72:ILE:HG13	2.34	0.47
1:AA:1022:G:C3'	1:AA:1025:G:O6	2.61	0.47
1:AA:1062:G:C6	1:AA:1063:G:C5	3.03	0.47
1:AA:120:U:H1'	1:AA:149:A:C4	2.49	0.47
1:AA:1228:G:C6	1:AA:1229:G:C5	3.03	0.47
1:AA:1350:C:H2'	1:AA:1351:C:O5'	2.15	0.47
1:AA:1439:A:C8	1:AA:1440:G:C8	3.02	0.47
1:AA:1544:C:C2'	1:AA:1545:A:O4'	2.62	0.47
1:AA:1667:G:OP1	10:AL:7:TYR:CD1	2.67	0.47
1:AA:1669:A:N3	1:AA:1669:A:C2'	2.77	0.47
1:AA:1684:C:C2	1:AA:1685:C:C5	3.03	0.47
1:AA:1688:U:N3	1:AA:1700:A:C5'	2.77	0.47
1:AA:179:G:C4	1:AA:180:G:C8	3.03	0.47
1:AA:1847:A:N6	1:AA:1890:A:OP2	2.48	0.47
1:AA:1973:G:C4	1:AA:1974:C:C5	3.03	0.47
1:AA:1831:G:C6	1:AA:1975:G:C6	3.03	0.47
1:AA:1655:A:N6	1:AA:2005:A:C2'	2.78	0.47
1:AA:2081:C:N3	1:AA:2082:A:C8	2.82	0.47
1:AA:1889:A:O4'	1:AA:2087:G:C4'	2.62	0.47
1:AA:2127:G:N2	1:AA:2128:C:C2	2.83	0.47
1:AA:397:G:HO2'	1:AA:2231:C:H1'	1.80	0.47
1:AA:2254:C:C2'	1:AA:2255:G:C5'	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2364:C:N4	1:AA:2365:G:C6	2.83	0.47
1:AA:2380:C:N4	1:AA:2381:C:N4	2.62	0.47
1:AA:2402:C:C5'	1:AA:2403:C:OP1	2.57	0.47
1:AA:2459:A:H3'	1:AA:2460:U:C6	2.50	0.47
1:AA:2558:C:H2'	1:AA:2559:C:O5'	2.15	0.47
1:AA:2562:U:H2'	1:AA:2563:U:C5'	2.45	0.47
1:AA:2606:C:N3	1:AA:2607:G:N7	2.62	0.47
1:AA:2630:G:C4	1:AA:2790:A:C2	3.02	0.47
1:AA:2640:G:H4'	9:AK:75:TYR:CZ	2.50	0.47
1:AA:270(K):C:H5''	1:AA:270(L):U:C5	2.49	0.47
1:AA:2750:A:C8	1:AA:2753:A:N6	2.83	0.47
1:AA:2811:G:H2'	1:AA:2812:G:O4'	2.15	0.47
1:AA:2826:A:C5	1:AA:2827:C:C5	3.03	0.47
1:AA:2826:A:H2'	1:AA:2827:C:O5'	2.15	0.47
1:AA:2838:G:C5	1:AA:2839:G:C8	3.02	0.47
1:AA:282:A:C6	1:AA:283:A:H4'	2.49	0.47
1:AA:2876:G:H5'	15:AQ:1:MET:N	2.29	0.47
1:AA:364:C:N3	1:AA:365:C:N4	2.62	0.47
1:AA:443:A:H61	6:AF:41:LEU:HD12	1.76	0.47
1:AA:500:G:H2'	1:AA:501:A:C3'	2.43	0.47
1:AA:499:U:C6	1:AA:503:A:N6	2.83	0.47
1:AA:511:U:C5	1:AA:512:G:C4	3.03	0.47
1:AA:661:C:H2'	1:AA:662:G:O4'	2.14	0.47
1:AA:675:A:N6	1:AA:804:A:C4	2.83	0.47
1:AA:729:G:H2'	1:AA:730:C:C2'	2.44	0.47
1:AA:774:A:C5	1:AA:775:G:C6	3.03	0.47
1:AA:782:A:H4'	1:AA:783:A:N7	2.30	0.47
1:AA:790:C:H6	1:AA:790:C:H3'	1.79	0.47
1:AA:669:G:C5	1:AA:801:G:C6	3.03	0.47
1:AA:812:C:C2	1:AA:813:U:C5	3.03	0.47
1:AA:848:G:C3'	1:AA:848:G:C8	2.98	0.47
2:AB:110:G:C2'	2:AB:111:U:O5'	2.58	0.47
2:AB:118:G:H2'	2:AB:119:A:H8	1.80	0.47
2:AB:16:G:O2'	2:AB:17:C:O4'	2.24	0.47
2:AB:49:C:H2'	2:AB:50:G:O4'	2.15	0.47
2:AB:7:G:C6	2:AB:8:U:N3	2.83	0.47
3:AC:49:ILE:CD1	3:AC:51:PRO:HD3	2.45	0.47
4:AD:143:HIS:CA	4:AD:145:VAL:HG23	2.44	0.47
4:AD:91:ARG:NH1	4:AD:198:ASN:ND2	2.63	0.47
5:AE:113:PHE:C	5:AE:158:GLY:HA2	2.35	0.47
5:AE:169:ASN:C	5:AE:170:LEU:HD23	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:53:PRO:HG2	5:AE:75:VAL:HG13	1.97	0.47
5:AE:82:ARG:NE	5:AE:82:ARG:HA	2.30	0.47
6:AF:104:LYS:C	6:AF:108:LYS:NZ	2.68	0.47
1:AA:37:C:O2'	6:AF:50:SER:HA	2.14	0.47
7:AG:107:LEU:HD12	7:AG:111:LEU:CD1	2.39	0.47
7:AG:29:TRP:HB2	7:AG:31:VAL:HG23	1.97	0.47
1:AA:2748:A:C4	8:AH:67:LEU:HD21	2.41	0.47
8:AH:85:LYS:O	8:AH:133:VAL:O	2.33	0.47
32:AJ:109:LYS:HE2	32:AJ:109:LYS:HB3	1.63	0.47
32:AJ:24:GLY:C	32:AJ:26:ALA:N	2.68	0.47
32:AJ:52:ILE:HD12	32:AJ:73:PRO:HB2	1.96	0.47
9:AK:127:ASP:H	9:AK:129:PRO:CD	2.19	0.47
9:AK:70:LYS:HZ3	9:AK:86:PRO:HB3	1.76	0.47
10:AL:122:LEU:CA	15:AQ:71:GLY:HA3	2.43	0.47
11:AM:137:LYS:CA	11:AM:137:LYS:CE	2.92	0.47
1:AA:831:G:H5'	11:AM:35:HIS:HB3	1.97	0.47
11:AM:47:ASP:CB	11:AM:48:PRO:HD3	2.44	0.47
11:AM:78:PRO:HD2	11:AM:115:LEU:O	2.14	0.47
11:AM:81:GLN:C	11:AM:86:LYS:CG	2.83	0.47
12:AN:42:ILE:CD1	12:AN:46:GLN:NE2	2.78	0.47
13:AO:96:ARG:HH21	13:AO:117:VAL:HG23	1.80	0.47
13:AO:52:ILE:C	13:AO:52:ILE:HD13	2.35	0.47
15:AQ:26:ASP:OD2	15:AQ:100:TYR:CE2	2.68	0.47
15:AQ:28:VAL:HG23	15:AQ:93:ARG:C	2.34	0.47
15:AQ:40:THR:O	15:AQ:41:ARG:C	2.53	0.47
15:AQ:92:GLY:HA2	15:AQ:93:ARG:NH2	2.29	0.47
1:AA:1755:A:N7	15:AQ:98:LYS:NZ	2.63	0.47
16:AR:30:LYS:CD	16:AR:30:LYS:N	2.75	0.47
16:AR:33:ARG:O	16:AR:35:ALA:N	2.48	0.47
16:AR:84:LYS:NZ	16:AR:90:VAL:HG11	2.29	0.47
17:AS:5:VAL:HG11	17:AS:37:VAL:CG2	2.45	0.47
17:AS:43:GLU:C	17:AS:44:LYS:CD	2.83	0.47
17:AS:67:GLY:CA	17:AS:94:LEU:HA	2.44	0.47
18:AT:13:SER:HG	18:AT:14:PRO:HD2	1.74	0.47
18:AT:32:ALA:HA	18:AT:35:ILE:HG22	1.96	0.47
18:AT:41:LYS:HB3	18:AT:41:LYS:HZ2	1.78	0.47
1:AA:519:U:H5''	18:AT:75:TYR:HB2	1.96	0.47
1:AA:493:G:O2'	18:AT:7:ALA:HB1	2.15	0.47
19:AU:84:ALA:N	19:AU:85:PRO:CD	2.78	0.47
19:AU:83:VAL:HG21	19:AU:86:GLY:HA2	1.97	0.47
19:AU:47:PHE:CZ	19:AU:92:LEU:HD11	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:151:HIS:HB3	21:AW:170:THR:CA	2.44	0.47
21:AW:45:ASP:HA	21:AW:48:PHE:HD1	1.79	0.47
21:AW:48:PHE:CA	21:AW:54:HIS:CE1	2.98	0.47
21:AW:74:VAL:HG22	21:AW:87:ASP:H	1.79	0.47
22:AX:21:LEU:HD13	22:AX:41:ARG:CG	2.39	0.47
22:AX:32:ARG:O	22:AX:35:ASN:CB	2.58	0.47
22:AX:51:VAL:CG1	22:AX:59:LEU:HD22	2.45	0.47
22:AX:28:GLY:C	22:AX:67:VAL:HB	2.35	0.47
34:BA:1067:A:H2	34:BA:1068:G:C4	2.32	0.47
34:BA:1074:G:O2'	34:BA:1075:C:H5'	2.14	0.47
34:BA:1145:C:O2'	34:BA:1146:A:O5'	2.32	0.47
34:BA:1147:C:C2	34:BA:1148:U:C5	3.02	0.47
34:BA:954:G:H21	34:BA:1227:A:H62	1.62	0.47
34:BA:1267:C:C2'	34:BA:1267:C:O2	2.55	0.47
34:BA:1301:U:O4	34:BA:1303:C:C2	2.68	0.47
34:BA:1317:C:OP1	34:BA:1317:C:C5	2.68	0.47
34:BA:1224:G:O6	34:BA:1322:C:C4'	2.63	0.47
34:BA:1358:U:OP1	47:BR:34:TYR:CA	2.63	0.47
34:BA:1371:G:H5''	42:BM:68:GLY:O	2.15	0.47
34:BA:142:G:N1	34:BA:143:A:C5	2.82	0.47
34:BA:1489:G:C2	34:BA:1490:C:C2	3.03	0.47
34:BA:152:A:C8	34:BA:153:C:C6	3.02	0.47
34:BA:160:A:H1'	34:BA:344:A:N7	2.29	0.47
34:BA:186(B):C:C2	34:BA:186(C):G:C8	3.03	0.47
34:BA:19:C:C2	34:BA:20:U:C5	3.03	0.47
34:BA:261:U:H5''	34:BA:262:A:OP2	2.15	0.47
34:BA:294:U:H2'	34:BA:295:C:C5	2.49	0.47
34:BA:25:C:H4'	34:BA:524:G:N2	2.30	0.47
34:BA:533:A:H3'	34:BA:534:U:H5''	1.96	0.47
34:BA:293:G:H5'	34:BA:609:A:N1	2.30	0.47
34:BA:695:A:C4	34:BA:696:A:C8	3.02	0.47
34:BA:715:A:H2'	34:BA:716:A:O4'	2.14	0.47
34:BA:728:A:N6	34:BA:729:A:C6	2.83	0.47
34:BA:729:A:N6	48:BS:51:HIS:CD2	2.82	0.47
34:BA:745:C:N4	34:BA:746:A:H62	2.13	0.47
34:BA:767:A:C6	34:BA:768:A:C5	3.03	0.47
34:BA:779:C:H2'	34:BA:780:A:O4'	2.15	0.47
34:BA:880:C:P	45:BP:9:GLN:HE21	2.38	0.47
34:BA:922:G:C2	34:BA:923:A:C4	3.02	0.47
34:BA:993:G:N1	34:BA:1046:A:C6	2.83	0.47
55:BC:63:G:H2'	55:BC:64:A:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BE:73:A:N3	56:BE:73:A:C5'	2.73	0.47
35:BF:219:VAL:HA	35:BF:222:ILE:CG1	2.45	0.47
35:BF:84:GLU:CD	35:BF:234:PRO:HD2	2.34	0.47
36:BG:122:GLU:O	36:BG:125:GLU:N	2.48	0.47
37:BH:155:LEU:CB	37:BH:158:ILE:HG12	2.33	0.47
37:BH:30:LYS:N	37:BH:34:GLU:CB	2.72	0.47
37:BH:72:GLU:O	37:BH:75:PHE:HB3	2.14	0.47
38:BI:103:GLY:O	38:BI:104:ALA:C	2.52	0.47
38:BI:102:ALA:O	38:BI:107:ARG:NH2	2.48	0.47
38:BI:49:PRO:O	38:BI:50:GLU:HG2	2.14	0.47
34:BA:933:G:OP2	40:BK:3:ARG:HG2	2.15	0.47
41:BL:5:PRO:O	41:BL:6:ILE:O	2.32	0.47
42:BM:113:LYS:HZ2	42:BM:119:ALA:HA	1.80	0.47
44:BO:121:PRO:HB2	44:BO:125:PHE:CD1	2.49	0.47
44:BO:21:ILE:HG12	44:BO:83:ILE:O	2.15	0.47
44:BO:28:THR:CG2	44:BO:29:ILE:H	2.28	0.47
34:BA:551:U:C5'	45:BP:119:LYS:NZ	2.61	0.47
45:BP:36:VAL:HG13	45:BP:36:VAL:O	2.14	0.47
45:BP:85:ILE:HD12	45:BP:99:HIS:O	2.15	0.47
36:BG:22:TRP:CZ2	47:BR:54:PRO:HG2	2.50	0.47
34:BA:43:C:O5'	49:BT:12:LYS:HG2	2.15	0.47
51:BV:22:VAL:O	51:BV:24:ALA:N	2.48	0.47
52:BW:35:SER:C	52:BW:37:ARG:H	2.18	0.47
53:BX:12:ALA:C	53:BX:14:LYS:N	2.68	0.47
53:BX:30:LYS:HB2	53:BX:30:LYS:NZ	2.29	0.47
57:BZ:10:ILE:HA	57:BZ:96:LEU:HB2	1.97	0.47
57:BZ:205:PHE:H	57:BZ:290:ASP:CG	2.09	0.47
56:BD:51:U:H3'	56:BD:52:G:H8	1.79	0.47
57:BZ:495:LYS:HA	57:BZ:516:ALA:O	2.15	0.47
55:BC:34:G:H3'	55:BC:35:A:H5'	1.96	0.47
1:AA:1416:G:H2'	1:AA:1417:C:C5	2.49	0.47
1:AA:1417:C:H1'	1:AA:1587:A:N3	2.30	0.47
37:BH:195:ALA:O	37:BH:196:LEU:O	2.33	0.47
1:AA:2110:G:H4'	1:AA:2111:C:OP1	2.07	0.47
14:AP:59:LYS:CD	14:AP:59:LYS:H	2.28	0.47
34:BA:443:C:C6	34:BA:492:G:N2	2.83	0.47
9:AK:139:GLU:O	9:AK:140:VAL:HG22	2.13	0.47
35:BF:230:VAL:HG12	35:BF:231:GLU:N	2.29	0.47
1:AA:1022:G:O6	9:AK:65:LYS:NZ	2.43	0.47
1:AA:1024:G:N1	1:AA:1025:G:N7	2.63	0.47
1:AA:1213:A:OP2	1:AA:1235:G:N2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1312:U:H2'	1:AA:1313:U:C4'	2.41	0.47
1:AA:1338:G:C2'	1:AA:1339:G:H5'	2.45	0.47
1:AA:1382:G:C4	1:AA:1383:C:C5	3.03	0.47
1:AA:1429:G:H2'	1:AA:1430:C:O4'	2.14	0.47
1:AA:1479:G:C2'	1:AA:1480:G:H8	2.19	0.47
1:AA:1685:C:C2'	1:AA:1686:C:O5'	2.63	0.47
1:AA:1685:C:O2'	1:AA:1686:C:C5'	2.60	0.47
1:AA:1729:A:C8	1:AA:1730:U:O4'	2.67	0.47
1:AA:1727:U:C4	1:AA:1730:U:C4	3.03	0.47
1:AA:1753:G:N2	1:AA:1756:G:N3	2.63	0.47
1:AA:1829:A:C2	1:AA:1830:C:O4'	2.68	0.47
1:AA:1857:G:H2'	1:AA:1858:G:C8	2.49	0.47
1:AA:1966:A:C2'	1:AA:1967:C:OP2	2.63	0.47
1:AA:196:A:N3	1:AA:2068:U:H5	2.12	0.47
1:AA:1993:U:C3'	1:AA:1993:U:H6	2.24	0.47
1:AA:2161:C:C2	1:AA:2162:G:C8	3.02	0.47
1:AA:2278:A:C2	1:AA:2279:G:C4	3.03	0.47
1:AA:244:A:O2'	11:AM:66:GLY:CA	2.58	0.47
1:AA:2482:G:H2'	1:AA:2483:C:O4'	2.14	0.47
1:AA:2496:C:OP1	12:AN:82:ARG:CG	2.39	0.47
1:AA:2546:U:O4'	1:AA:2565:A:C2	2.68	0.47
1:AA:2606:C:C5'	1:AA:2606:C:H6	2.20	0.47
1:AA:2629:A:N7	1:AA:2896:C:O5'	2.47	0.47
1:AA:2642:G:C6	1:AA:2643:G:C5	3.03	0.47
1:AA:265:A:H2	1:AA:281:G:O5'	1.97	0.47
1:AA:2659:G:H1'	1:AA:2663:G:C2	2.49	0.47
1:AA:2857:G:H8	1:AA:2857:G:O5'	1.97	0.47
1:AA:2892:A:O2'	1:AA:2894:G:OP2	2.32	0.47
1:AA:419:C:H2'	1:AA:420:C:C6	2.50	0.47
1:AA:473:G:N1	1:AA:474:G:C6	2.83	0.47
1:AA:548:A:H61	1:AA:549:G:H21	1.62	0.47
1:AA:573:G:H2'	1:AA:574:C:H3'	1.97	0.47
1:AA:656:G:OP2	1:AA:656:G:C8	2.67	0.47
1:AA:703:U:C3'	1:AA:704:G:O4'	2.63	0.47
1:AA:730:C:C5'	1:AA:761:A:OP1	2.63	0.47
1:AA:815:C:O2'	1:AA:816:C:C5'	2.62	0.47
1:AA:822:U:OP2	1:AA:945:A:C3'	2.63	0.47
1:AA:831:G:H2'	1:AA:831:G:N3	2.29	0.47
1:AA:994:C:O2	1:AA:996:A:C8	2.68	0.47
3:AC:124:GLY:O	3:AC:128:GLY:HA3	2.15	0.47
3:AC:156:ILE:C	3:AC:159:GLY:C	2.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:56:GLN:HG2	3:AC:201:PRO:HG3	1.97	0.47
3:AC:44:HIS:CA	3:AC:213:TYR:CB	2.85	0.47
3:AC:75:LEU:HD21	3:AC:99:ILE:CG2	2.45	0.47
4:AD:175:LEU:CD1	4:AD:175:LEU:C	2.77	0.47
4:AD:208:LYS:CE	4:AD:211:ARG:NE	2.78	0.47
4:AD:62:TYR:N	4:AD:63:ARG:HH22	2.13	0.47
4:AD:75:ILE:HD13	4:AD:99:ASP:OD1	2.15	0.47
5:AE:113:PHE:HB3	5:AE:158:GLY:HA2	1.97	0.47
5:AE:21:VAL:O	5:AE:185:LYS:HB2	2.14	0.47
5:AE:109:LYS:CG	5:AE:191:PRO:HG3	2.25	0.47
1:AA:2830:G:H5'	5:AE:57:LYS:HZ2	1.79	0.47
1:AA:2637:U:O5'	5:AE:81:ILE:HD11	2.15	0.47
5:AE:2:LYS:CE	5:AE:83:ASP:HB2	2.45	0.47
6:AF:194:MET:SD	6:AF:197:ASP:HB3	2.54	0.47
6:AF:194:MET:HE1	6:AF:200:GLU:HG2	1.94	0.47
6:AF:88:VAL:O	6:AF:89:VAL:O	2.32	0.47
6:AF:98:SER:O	6:AF:99:TYR:CB	2.58	0.47
7:AG:103:LEU:CD2	7:AG:176:LEU:HD11	2.42	0.47
7:AG:14:GLU:O	7:AG:17:PRO:HG2	2.15	0.47
7:AG:49:ASP:H	7:AG:53:LEU:HD13	1.80	0.47
8:AH:146:ALA:O	8:AH:147:ASN:C	2.52	0.47
8:AH:24:VAL:HG21	8:AH:72:ILE:HD13	1.97	0.47
9:AK:103:VAL:HG23	9:AK:117:PHE:HE2	1.80	0.47
9:AK:112:LEU:O	9:AK:115:ARG:N	2.48	0.47
9:AK:134:ARG:N	9:AK:135:PRO:CD	2.78	0.47
9:AK:22:THR:CG2	9:AK:61:ARG:NH1	2.77	0.47
9:AK:99:LEU:O	9:AK:100:GLU:C	2.53	0.47
10:AL:9:GLU:CA	10:AL:17:ARG:O	2.57	0.47
10:AL:1:MET:SD	10:AL:2:ILE:HG12	2.55	0.47
10:AL:23:ARG:HH11	10:AL:23:ARG:CG	2.28	0.47
11:AM:73:GLY:C	11:AM:107:LYS:HE3	2.35	0.47
11:AM:122:PRO:CA	11:AM:134:ALA:HA	2.45	0.47
11:AM:33:ARG:O	11:AM:35:HIS:N	2.48	0.47
11:AM:46:LYS:CB	11:AM:49:ARG:NH1	2.78	0.47
5:AE:13:ARG:NE	11:AM:56:SER:OG	124.29	0.47
12:AN:119:ARG:O	12:AN:123:HIS:HB3	2.15	0.47
12:AN:130:LYS:HE3	12:AN:131:ILE:O	2.15	0.47
12:AN:130:LYS:CE	12:AN:131:ILE:N	2.74	0.47
13:AO:50:HIS:O	13:AO:53:HIS:CB	2.59	0.47
13:AO:87:TYR:HD1	13:AO:94:TYR:CG	2.32	0.47
15:AQ:108:ARG:O	15:AQ:109:GLU:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:109:GLU:O	15:AQ:110:ILE:CB	2.59	0.47
15:AQ:30:VAL:CG2	15:AQ:89:VAL:O	2.54	0.47
16:AR:25:TRP:HE3	16:AR:25:TRP:C	2.18	0.47
16:AR:55:ARG:HA	16:AR:58:ARG:NE	2.30	0.47
17:AS:10:LYS:C	17:AS:12:TYR:H	2.18	0.47
18:AT:16:LYS:CE	18:AT:16:LYS:H	2.28	0.47
18:AT:16:LYS:H	18:AT:16:LYS:NZ	2.07	0.47
1:AA:495:G:O4'	18:AT:57:ASN:CG	2.53	0.47
20:AV:9:LYS:HD2	20:AV:110:GLU:CD	2.35	0.47
21:AW:111:VAL:HA	21:AW:116:VAL:O	2.15	0.47
12:AN:137:TYR:HE2	21:AW:124:ILE:CD1	2.22	0.47
21:AW:152:ALA:C	21:AW:155:LEU:HD22	2.34	0.47
21:AW:19:ARG:HH21	21:AW:84:GLU:HA	1.80	0.47
21:AW:36:LYS:HB3	21:AW:38:TYR:CE2	2.50	0.47
22:AX:25:ARG:HD2	22:AX:29:GLN:HE22	1.79	0.47
22:AX:72:ARG:HD2	22:AX:75:LEU:HD22	1.95	0.47
22:AX:83:PRO:O	22:AX:84:LEU:C	2.53	0.47
34:BA:1124:G:N2	34:BA:1127:G:C4	2.83	0.47
34:BA:1124:G:H2'	34:BA:1126:U:O4	2.15	0.47
34:BA:1178:G:N2	34:BA:1180:A:O5'	2.47	0.47
34:BA:1115:C:N1	34:BA:1186:G:N1	2.61	0.47
34:BA:1239:A:H4'	34:BA:1240:U:O5'	2.15	0.47
34:BA:1275:A:O2'	34:BA:1276:G:H5'	2.14	0.47
34:BA:1298:C:C2'	34:BA:1298:C:O2	2.59	0.47
34:BA:1305:G:N2	34:BA:1331:G:N3	2.63	0.47
34:BA:1396:A:H4'	34:BA:1398:A:O4'	2.15	0.47
34:BA:1416:G:C6	34:BA:1485:U:O2	2.68	0.47
34:BA:1433:A:N1	34:BA:1434:A:C2	2.82	0.47
34:BA:1476:G:H2'	34:BA:1477:C:C5	2.50	0.47
34:BA:1483:A:H3'	34:BA:1484:C:C6	2.49	0.47
34:BA:148:G:C2	34:BA:175:C:C4	3.03	0.47
34:BA:258:G:C5	34:BA:259:G:N7	2.83	0.47
34:BA:379:C:C2'	34:BA:380:G:H5'	2.42	0.47
34:BA:432:A:C3'	34:BA:432:A:C8	2.97	0.47
34:BA:410:G:N3	34:BA:432:A:C6	2.83	0.47
34:BA:52:G:C4	34:BA:53:A:C8	3.02	0.47
34:BA:560:U:C2'	34:BA:561:U:OP2	2.63	0.47
34:BA:657:G:N2	34:BA:750:G:C8	2.83	0.47
34:BA:728:A:C6	34:BA:729:A:C5	3.03	0.47
34:BA:654:G:H1	34:BA:754:C:N4	2.12	0.47
34:BA:587:G:N2	34:BA:755:G:C4	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:792:A:C2	34:BA:794:A:N1	2.83	0.47
34:BA:767:A:N6	34:BA:813:U:C2	2.83	0.47
55:BC:18:G:O2'	55:BC:57:G:O6	2.30	0.47
35:BF:114:ARG:NH1	35:BF:141:GLU:HG3	2.29	0.47
35:BF:57:PHE:CD1	35:BF:199:TYR:HE1	2.32	0.47
35:BF:76:GLN:O	35:BF:77:ALA:CB	2.62	0.47
36:BG:64:VAL:O	36:BG:99:VAL:CG1	2.62	0.47
36:BG:6:HIS:CB	47:BR:49:HIS:ND1	2.77	0.47
37:BH:133:VAL:HG21	37:BH:138:TYR:CE1	2.50	0.47
37:BH:3:ARG:HG3	37:BH:118:ARG:NE	2.30	0.47
38:BI:47:LYS:O	38:BI:57:LYS:HE2	2.15	0.47
38:BI:9:LYS:HD2	38:BI:112:LEU:HD23	1.96	0.47
39:BJ:70:ASP:O	39:BJ:73:ASN:ND2	2.48	0.47
40:BK:106:GLN:NE2	40:BK:109:ASN:ND2	2.62	0.47
34:BA:1240:U:C2	40:BK:32:ARG:NE	2.83	0.47
41:BL:122:ARG:O	41:BL:125:ARG:HB3	2.14	0.47
41:BL:63:LEU:CG	41:BL:65:TYR:HE1	2.27	0.47
41:BL:6:ILE:HG23	41:BL:85:ARG:NH1	2.30	0.47
42:BM:22:GLY:O	42:BM:58:HIS:O	2.33	0.47
42:BM:28:VAL:C	42:BM:30:GLY:N	2.64	0.47
42:BM:42:ARG:O	42:BM:43:ALA:C	2.53	0.47
42:BM:46:ALA:HB1	42:BM:77:ILE:HG22	1.97	0.47
43:BN:24:VAL:CG2	43:BN:34:VAL:HG11	2.42	0.47
43:BN:9:ARG:CB	43:BN:9:ARG:NH1	2.78	0.47
44:BO:33:THR:HB	44:BO:38:ASN:O	2.14	0.47
45:BP:119:LYS:O	45:BP:120:TYR:HB2	2.15	0.47
45:BP:23:LYS:HA	45:BP:23:LYS:CE	2.21	0.47
46:BQ:13:LYS:CG	46:BQ:17:VAL:HG11	2.44	0.47
46:BQ:27:LYS:O	46:BQ:28:ALA:HB3	2.14	0.47
46:BQ:34:LEU:HD23	46:BQ:39:ILE:CD1	2.42	0.47
47:BR:27:CYS:SG	47:BR:42:ILE:HG13	2.54	0.47
49:BT:19:ILE:HB	49:BT:36:ILE:O	2.15	0.47
49:BT:19:ILE:O	49:BT:36:ILE:HG13	2.15	0.47
34:BA:376:G:H4'	49:BT:28:ARG:CB	2.44	0.47
50:BU:34:LYS:HD2	50:BU:35:VAL:N	2.30	0.47
50:BU:38:ARG:HA	50:BU:38:ARG:HE	1.80	0.47
50:BU:40:LYS:NZ	50:BU:42:TYR:HE1	2.12	0.47
50:BU:75:ARG:NH1	50:BU:76:LEU:O	2.48	0.47
51:BV:74:ARG:H	51:BV:74:ARG:CD	2.27	0.47
53:BX:17:ARG:O	53:BX:20:LEU:CB	2.60	0.47
53:BX:51:GLU:CA	53:BX:54:LYS:CE	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:188:GLN:C	57:BZ:190:ILE:H	2.17	0.47
57:BZ:205:PHE:CE1	57:BZ:226:ILE:CD1	2.79	0.47
57:BZ:54:ILE:HD11	57:BZ:211:GLN:CD	2.35	0.47
57:BZ:233:PRO:HB3	57:BZ:234:ASN:HB2	1.95	0.47
57:BZ:246:THR:C	57:BZ:247:ARG:HG3	2.34	0.47
57:BZ:251:VAL:HG11	57:BZ:273:ILE:HB	1.52	0.47
57:BZ:344:ALA:HB1	57:BZ:361:ARG:HG3	1.97	0.47
57:BZ:310:PHE:N	57:BZ:385:PRO:HG3	2.29	0.47
57:BZ:402:ASN:O	57:BZ:403:VAL:HG22	2.15	0.47
57:BZ:69:ARG:HA	57:BZ:70:ILE:C	2.35	0.47
57:BZ:40:GLU:OE1	57:BZ:41:ARG:HG3	2.15	0.47
1:AA:1484:G:C6	1:AA:1485:G:C5	3.03	0.47
56:BD:42:C:C3'	56:BD:43:C:H5''	2.45	0.47
46:BQ:46:LYS:O	46:BQ:46:LYS:HG3	2.15	0.47
57:BZ:452:ARG:CD	57:BZ:452:ARG:H	2.28	0.47
1:AA:1158:C:H5'	24:AZ:31:LEU:HB2	1.94	0.47
1:AA:1168:G:C6	1:AA:1169:G:C5	3.03	0.47
1:AA:1167:U:C2	1:AA:1183:G:N2	2.83	0.47
1:AA:1227:A:C8	1:AA:1227:A:C3'	2.97	0.47
1:AA:1256:G:C2'	1:AA:1257:C:O5'	2.62	0.47
1:AA:1289:C:N3	1:AA:1290:C:C5	2.83	0.47
1:AA:1296:G:C2	1:AA:1297:C:C5	3.02	0.47
1:AA:1422:G:C4	1:AA:1423:G:C8	3.03	0.47
1:AA:1434:A:N1	1:AA:1435:G:C4	2.83	0.47
1:AA:1540:G:OP1	1:AA:1540:G:C4'	2.62	0.47
1:AA:1570:A:C6	1:AA:1571:A:N7	2.83	0.47
1:AA:1727:U:C5	1:AA:1730:U:O4	2.68	0.47
1:AA:1741:C:O3'	1:AA:1742:C:O4'	2.33	0.47
1:AA:1799:G:O2'	1:AA:1800:C:C4'	2.63	0.47
1:AA:1811:G:H2'	1:AA:1812:A:C8	2.50	0.47
1:AA:1816:G:O3'	1:AA:1817:G:C8	2.68	0.47
1:AA:1853:A:H2	1:AA:2087:G:N3	2.12	0.47
1:AA:1899:G:N2	1:AA:1902:C:N4	2.61	0.47
1:AA:1924:C:N1	1:AA:1925:C:C5	2.83	0.47
1:AA:195:A:O5'	1:AA:195:A:H8	1.97	0.47
1:AA:2014:A:C8	1:AA:2014:A:O5'	2.61	0.47
1:AA:2095:C:C2'	1:AA:2096:U:H5'	2.45	0.47
1:AA:2194:G:C2'	1:AA:2195:C:H5	2.28	0.47
1:AA:919:G:H21	1:AA:2268:A:H5''	1.77	0.47
1:AA:2305:A:C2'	7:AG:154:GLY:CA	2.89	0.47
1:AA:2325:G:N7	1:AA:2326:C:H5	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2400:G:C6	1:AA:2401:U:C2	3.03	0.47
1:AA:2485:G:O2'	1:AA:2486:G:C5'	2.62	0.47
1:AA:2528:U:OP1	6:AF:30:PRO:HG2	122.92	0.47
1:AA:2554:U:C5	1:AA:2556:C:C4	3.03	0.47
1:AA:2553:G:C5'	1:AA:2554:U:OP2	2.63	0.47
1:AA:2559:C:H2'	1:AA:2560:C:H6	1.79	0.47
1:AA:2685:G:OP2	1:AA:2685:G:H8	1.98	0.47
1:AA:2687:U:O2	1:AA:2688:U:C6	2.59	0.47
1:AA:2688:U:O4	1:AA:2719:G:H3'	2.15	0.47
1:AA:1638:C:C4'	1:AA:2710:C:H1'	2.45	0.47
1:AA:2780:G:N2	9:AK:97:ARG:CZ	2.77	0.47
1:AA:2892:A:H2'	1:AA:2893:G:C1'	2.45	0.47
1:AA:291:C:C5	1:AA:292:C:C5	3.03	0.47
1:AA:295:G:H1'	1:AA:345:A:C2	2.50	0.47
1:AA:359:A:O3'	1:AA:360:G:C8	2.68	0.47
1:AA:428:A:C2'	1:AA:428:A:N3	2.78	0.47
1:AA:468:G:H2'	1:AA:469:G:C5'	2.45	0.47
1:AA:483:A:H1'	20:AV:45:VAL:O	2.15	0.47
1:AA:516:C:HO2'	1:AA:517:C:H5'	1.79	0.47
1:AA:645:C:H4'	1:AA:646:A:C8	2.49	0.47
1:AA:718:A:H3'	1:AA:719:C:O4'	2.14	0.47
1:AA:744:G:H2'	1:AA:745:G:H8	1.78	0.47
1:AA:906:G:N3	1:AA:906:G:C2'	2.77	0.47
2:AB:103:U:O2'	21:AW:72:ARG:HB2	2.15	0.47
2:AB:55:U:O2'	2:AB:56:G:C5'	2.57	0.47
2:AB:56:G:O2'	2:AB:57:A:H5'	2.15	0.47
2:AB:68:C:H2'	2:AB:69:G:C8	2.50	0.47
2:AB:88:C:O5'	2:AB:88:C:H6	1.97	0.47
3:AC:190:ARG:NH1	3:AC:190:ARG:HG3	2.29	0.47
3:AC:66:HIS:N	3:AC:67:GLY:N	2.55	0.47
4:AD:10:THR:H	4:AD:23:GLU:CD	2.14	0.47
4:AD:23:GLU:O	4:AD:204:ILE:HD11	2.15	0.47
4:AD:21:PHE:O	4:AD:205:VAL:HG13	2.14	0.47
4:AD:181:GLU:OE2	4:AD:272:ALA:HA	2.15	0.47
5:AE:136:ARG:HD3	5:AE:136:ARG:C	2.34	0.47
5:AE:33:VAL:HG22	5:AE:47:VAL:C	2.35	0.47
5:AE:54:GLN:OE1	5:AE:56:PRO:HD2	2.15	0.47
5:AE:8:LYS:HG3	5:AE:24:THR:HG21	1.97	0.47
6:AF:12:LEU:HD22	6:AF:142:TRP:CZ3	2.50	0.47
6:AF:18:ARG:CG	6:AF:19:GLU:N	2.78	0.47
7:AG:37:VAL:CB	7:AG:99:MET:SD	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:98:LEU:HD22	8:AH:100:GLY:H	1.80	0.47
31:AI:152:VAL:O	31:AI:155:GLY:CA	2.62	0.47
9:AK:12:ARG:HD3	9:AK:50:ASP:OD1	2.15	0.47
10:AL:1:MET:SD	10:AL:2:ILE:CG1	3.02	0.47
12:AN:130:LYS:HB3	12:AN:130:LYS:HE2	1.66	0.47
12:AN:133:ARG:HD2	12:AN:133:ARG:C	2.36	0.47
1:AA:2484:G:H4'	12:AN:46:GLN:HA	1.96	0.47
12:AN:22:LYS:HA	12:AN:99:PRO:HD3	1.96	0.47
13:AO:105:ARG:O	13:AO:107:ASP:N	2.43	0.47
13:AO:96:ARG:C	13:AO:114:VAL:HG13	2.35	0.47
13:AO:55:ALA:HB1	13:AO:79:LEU:HD21	1.94	0.47
15:AQ:87:ASP:O	15:AQ:88:ILE:HG13	2.15	0.47
1:AA:581:C:H5''	16:AR:32:PHE:CD2	2.50	0.47
16:AR:61:TRP:HB3	16:AR:65:ILE:HD11	1.97	0.47
17:AS:78:LYS:HB2	17:AS:83:ARG:O	2.14	0.47
19:AU:35:THR:HG22	19:AU:36:LYS:N	2.29	0.47
22:AX:29:GLN:OE1	22:AX:67:VAL:HG21	2.15	0.47
24:AZ:48:GLU:CG	24:AZ:49:LYS:N	2.78	0.47
34:BA:1061:G:N2	34:BA:1197:G:C4	2.83	0.47
34:BA:1132:C:C2	34:BA:1133:G:C8	3.03	0.47
34:BA:1133:G:C6	34:BA:1142:G:C6	3.03	0.47
34:BA:1192:C:C5	34:BA:1193:G:N7	2.83	0.47
34:BA:1273:G:C3'	34:BA:1274:G:H8	2.26	0.47
34:BA:1336:C:H4'	34:BA:1337:G:N1	2.28	0.47
34:BA:135:C:O2	49:BT:1:MET:HG2	2.14	0.47
34:BA:1479:C:H2'	34:BA:1480:G:C8	2.50	0.47
34:BA:1520:G:O2'	34:BA:1521:G:H8	1.92	0.47
34:BA:175:C:H2'	34:BA:176:C:H6	1.80	0.47
34:BA:141:A:C4'	34:BA:182:U:H1'	2.44	0.47
34:BA:236:G:C3'	34:BA:237:C:C6	2.91	0.47
34:BA:395:C:C2	34:BA:396:G:N7	2.83	0.47
34:BA:408:A:N6	34:BA:409:G:O6	2.48	0.47
34:BA:433:C:N4	34:BA:434:U:O4	2.48	0.47
34:BA:47:C:C5	34:BA:365:U:C2	3.03	0.47
34:BA:498:A:C4'	34:BA:500:G:OP1	2.61	0.47
34:BA:517:G:C4	34:BA:531:U:O4'	2.68	0.47
34:BA:643:C:HO2'	41:BL:132:GLU:CD	2.18	0.47
34:BA:689:C:O3'	34:BA:705:U:O2'	2.32	0.47
34:BA:706:A:H4'	44:BO:22:HIS:ND1	2.30	0.47
34:BA:774:G:C4	34:BA:775:G:C8	3.02	0.47
34:BA:830:G:C6	34:BA:857:C:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:873:A:C5'	34:BA:874:G:OP2	2.60	0.47
34:BA:902:G:C2'	34:BA:903:G:H5'	2.43	0.47
34:BA:888:G:C2	34:BA:909:A:N6	2.80	0.47
56:BE:28:G:O2'	56:BE:29:G:H5'	2.14	0.47
56:BE:18:G:N7	56:BE:58:A:N1	2.63	0.47
59:AA:3003:8AN:C5'	56:BE:75:C:C3'	2.90	0.47
35:BF:73:THR:HA	35:BF:94:ASN:HA	1.96	0.47
36:BG:194:GLY:O	36:BG:196:LEU:HD23	2.15	0.47
37:BH:128:VAL:HG23	37:BH:133:VAL:H	1.78	0.47
37:BH:98:GLU:HG2	37:BH:173:TRP:HE1	1.80	0.47
38:BI:59:GLY:CA	38:BI:63:ARG:HH21	2.27	0.47
39:BJ:46:ARG:HG2	39:BJ:47:ARG:N	2.29	0.47
40:BK:111:ARG:HH12	40:BK:112:PRO:HD2	1.74	0.47
40:BK:129:GLU:HB3	40:BK:131:LYS:HE2	1.97	0.47
34:BA:1374:A:H1'	40:BK:31:MET:HE1	1.97	0.47
42:BM:20:ARG:O	42:BM:21:PRO:C	2.53	0.47
42:BM:4:TYR:CG	42:BM:88:TYR:HB2	2.50	0.47
43:BN:54:PHE:H	47:BR:41:ARG:HH21	1.63	0.47
43:BN:79:ARG:O	43:BN:81:THR:N	2.47	0.47
45:BP:24:VAL:HG13	45:BP:98:TYR:CZ	2.50	0.47
46:BQ:84:ILE:HG13	46:BQ:86:CYS:H	1.80	0.47
36:BG:18:TRP:HZ2	47:BR:57:ARG:HB2	1.80	0.47
48:BS:77:ARG:HH12	48:BS:81:LEU:CA	2.28	0.47
50:BU:57:VAL:CG2	50:BU:58:GLU:N	2.78	0.47
50:BU:5:VAL:O	50:BU:6:LEU:HB3	2.15	0.47
50:BU:91:ARG:HG2	50:BU:92:ARG:N	2.29	0.47
51:BV:56:THR:O	51:BV:57:GLY:C	2.53	0.47
46:BQ:80:ARG:HB2	52:BW:65:ASN:HD22	1.75	0.47
53:BX:38:LYS:O	53:BX:39:LYS:C	2.53	0.47
57:BZ:144:VAL:O	57:BZ:148:PHE:HE1	1.97	0.47
57:BZ:62:ALA:CA	57:BZ:187:TYR:CE2	2.81	0.47
57:BZ:249:ALA:N	57:BZ:276:ILE:CG1	2.77	0.47
57:BZ:468:THR:CG2	57:BZ:469:PHE:H	2.14	0.47
57:BZ:51:GLU:OE1	57:BZ:52:ARG:N	2.47	0.47
57:BZ:551:ALA:CA	57:BZ:552:ASP:HB2	2.44	0.47
31:AI:49:ALA:O	31:AI:90:ALA:CB	2.63	0.47
57:BZ:40:GLU:H	57:BZ:41:ARG:CB	2.27	0.47
20:AV:42:VAL:HB	20:AV:43:ASN:H	1.57	0.47
37:BH:43:HIS:ND1	37:BH:46:LYS:HE3	2.29	0.47
55:BC:5:G:O6	55:BC:69:G:O6	2.33	0.47
1:AA:2191:G:N2	1:AA:2192:G:C4	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:108:U:C2	1:AA:109:G:C8	3.03	0.47
1:AA:1102:C:O2	1:AA:1102:C:C2'	2.63	0.47
1:AA:818:G:H21	1:AA:1189:A:H62	1.63	0.47
1:AA:1202:C:C2'	1:AA:1203:G:H4'	2.36	0.47
1:AA:1264:G:C6	1:AA:1265:A:C6	3.03	0.47
1:AA:1267:U:C3'	1:AA:1267:U:C6	2.97	0.47
1:AA:1270:C:C6	1:AA:1270:C:O5'	2.67	0.47
1:AA:1359:A:N6	1:AA:1360:A:C5	2.83	0.47
1:AA:1360:A:H61	1:AA:1371:G:H1'	1.79	0.47
1:AA:1420:U:O2'	1:AA:1421:G:P	2.73	0.47
1:AA:1424:G:OP2	1:AA:1424:G:O4'	2.32	0.47
1:AA:1449:A:C1'	1:AA:1529:A:C6	2.98	0.47
1:AA:1449:A:H1'	1:AA:1529:A:C5	2.50	0.47
1:AA:1542:G:C1'	1:AA:1543:A:C5	2.98	0.47
1:AA:1568:G:O4'	1:AA:1568:G:N3	2.46	0.47
1:AA:1650:G:O2'	1:AA:1651:G:C5'	2.63	0.47
1:AA:1731:G:H2'	1:AA:1731:G:N3	2.29	0.47
1:AA:1796:U:H2'	1:AA:1797:C:H6	1.80	0.47
1:AA:1936:A:H1'	1:AA:1940:U:C2	2.49	0.47
1:AA:1936:A:N9	1:AA:1940:U:N3	2.63	0.47
1:AA:2087:G:C8	1:AA:2087:G:H5''	2.50	0.47
1:AA:2128:C:C4	1:AA:2129:C:C5	3.03	0.47
1:AA:2207:C:H3'	1:AA:2208:U:C5'	2.38	0.47
1:AA:221:A:N3	1:AA:233:A:H1'	2.30	0.47
1:AA:2199:A:C2	1:AA:2225:A:C2	3.03	0.47
1:AA:2230:G:C2	1:AA:2231:C:C2	3.03	0.47
1:AA:2246:G:H2'	1:AA:2247:A:N7	2.29	0.47
1:AA:2249:U:C2'	1:AA:2250:G:OP1	2.63	0.47
1:AA:2253:G:C2'	1:AA:2254:C:O5'	2.64	0.47
1:AA:2260:C:H2'	1:AA:2261:C:H6	1.80	0.47
1:AA:2306:C:N4	7:AG:45:GLU:HG2	2.30	0.47
1:AA:2346:A:OP2	1:AA:2381:C:O2'	2.32	0.47
1:AA:2353:G:O2'	22:AX:33:ALA:O	2.32	0.47
1:AA:2371:G:O2'	1:AA:2372:G:H1'	2.14	0.47
1:AA:2437:U:H2'	1:AA:2438:U:C5	2.49	0.47
1:AA:2473:U:OP1	1:AA:2474:C:N4	2.41	0.47
1:AA:2505:G:H3'	1:AA:2505:G:C8	2.50	0.47
1:AA:2690:C:O2'	1:AA:2691:C:C5'	2.63	0.47
1:AA:270(H):C:C2	1:AA:270(I):G:C8	3.03	0.47
1:AA:270(X):G:H5''	1:AA:273:G:OP1	2.14	0.47
1:AA:2720:U:C4	1:AA:2873:A:N6	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2745:C:H2'	1:AA:2746:U:H6	1.80	0.47
1:AA:280:C:H3'	1:AA:282:A:P	2.55	0.47
1:AA:2839:G:C5	1:AA:2840:C:C5	3.02	0.47
1:AA:2877:G:H3'	1:AA:2878:U:H6	1.72	0.47
1:AA:4:C:C2	1:AA:2899:G:N1	2.43	0.47
1:AA:28:A:C2	1:AA:29:U:H4'	2.50	0.47
1:AA:2899:G:C6	1:AA:2900:A:N7	2.83	0.47
1:AA:301:G:C8	1:AA:334:C:C2	3.02	0.47
1:AA:467:G:O2'	1:AA:468:G:H5'	2.14	0.47
1:AA:477:A:O2'	1:AA:478:A:H5'	2.15	0.47
1:AA:485:C:C4	1:AA:486:C:C5	3.03	0.47
1:AA:819:A:N3	1:AA:943:U:O2	2.48	0.47
1:AA:851:U:OP1	24:AZ:49:LYS:NZ	2.41	0.47
1:AA:895:U:H6	1:AA:895:U:H3'	1.80	0.47
1:AA:906:G:N2	1:AA:907:U:C2	2.83	0.47
1:AA:933:A:N3	1:AA:934:G:C8	2.83	0.47
1:AA:988:A:H2	1:AA:989:G:N2	2.12	0.47
2:AB:104:A:C3'	2:AB:105:G:O4'	2.63	0.47
2:AB:52:A:H4'	2:AB:52:A:OP1	2.15	0.47
3:AC:108:MET:CE	3:AC:131:LEU:HA	2.44	0.47
3:AC:200:LYS:O	3:AC:200:LYS:CG	2.63	0.47
3:AC:68:LEU:CG	3:AC:69:GLY:N	2.78	0.47
3:AC:6:ARG:C	3:AC:8:ARG:H	2.18	0.47
4:AD:117:VAL:HG13	4:AD:129:ASN:CA	2.45	0.47
4:AD:7:LYS:HB2	4:AD:27:THR:HA	1.97	0.47
1:AA:2731:G:H4'	5:AE:168:MET:HE2	1.97	0.47
6:AF:37:VAL:HG12	6:AF:41:LEU:CD2	2.40	0.47
6:AF:39:TRP:CD2	6:AF:39:TRP:C	2.88	0.47
7:AG:75:LYS:HB3	7:AG:84:LYS:HB2	1.96	0.47
2:AB:42:C:C4	7:AG:93:THR:HB	2.50	0.47
8:AH:101:ARG:HA	8:AH:101:ARG:HE	1.80	0.47
8:AH:11:VAL:HG13	8:AH:15:VAL:HG11	1.95	0.47
8:AH:13:LYS:HD2	8:AH:15:VAL:HA	1.96	0.47
8:AH:7:LEU:CD1	8:AH:65:HIS:NE2	2.73	0.47
32:AJ:23:VAL:CG1	32:AJ:41:PHE:CZ	2.97	0.47
10:AL:112:MET:HA	10:AL:115:VAL:HG23	1.97	0.47
10:AL:22:ILE:CD1	10:AL:40:VAL:HG21	2.45	0.47
10:AL:59:LYS:N	10:AL:59:LYS:CD	2.77	0.47
1:AA:1667:G:O3'	10:AL:7:TYR:CZ	2.68	0.47
11:AM:138:LEU:C	11:AM:138:LEU:HD22	2.35	0.47
11:AM:23:PRO:HB2	11:AM:29:LYS:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:6:LEU:C	11:AM:7:ARG:CG	2.83	0.47
11:AM:96:THR:HG21	11:AM:112:LEU:CD1	2.34	0.47
12:AN:63:LYS:O	12:AN:107:ALA:HA	2.15	0.47
12:AN:137:TYR:C	12:AN:138:ASP:CG	2.70	0.47
12:AN:43:THR:OG1	12:AN:46:GLN:N	2.48	0.47
12:AN:87:LYS:O	12:AN:88:GLY:O	2.33	0.47
12:AN:90:VAL:C	12:AN:91:GLU:OE2	2.54	0.47
13:AO:5:LYS:HZ1	13:AO:6:SER:CA	2.28	0.47
14:AP:106:ARG:HD3	14:AP:107:GLU:CD	2.35	0.47
14:AP:31:SER:C	14:AP:97:ARG:NH2	2.68	0.47
15:AQ:54:ARG:CD	15:AQ:55:ASN:ND2	2.73	0.47
15:AQ:70:VAL:HB	15:AQ:74:ARG:CD	2.44	0.47
15:AQ:64:ARG:CZ	15:AQ:77:PRO:CA	2.92	0.47
16:AR:110:VAL:HG12	16:AR:114:LYS:HZ1	1.80	0.47
16:AR:110:VAL:O	16:AR:113:ALA:N	2.47	0.47
16:AR:12:ARG:O	16:AR:13:LYS:C	2.53	0.47
16:AR:36:ARG:O	16:AR:40:PHE:HD1	1.98	0.47
16:AR:54:LYS:CE	16:AR:54:LYS:CA	2.92	0.47
16:AR:88:ILE:CB	17:AS:52:VAL:HG22	2.45	0.47
18:AT:34:ASN:CA	18:AT:37:ARG:HE	2.16	0.47
1:AA:142:G:C4'	19:AU:35:THR:HG21	2.21	0.47
19:AU:36:LYS:HE3	19:AU:56:THR:OG1	2.14	0.47
20:AV:37:VAL:O	20:AV:37:VAL:HG22	2.15	0.47
20:AV:37:VAL:HG22	20:AV:39:VAL:HG21	1.97	0.47
20:AV:84:ARG:HB2	20:AV:92:ASN:O	2.15	0.47
1:AA:857:C:O2'	22:AX:23:VAL:CB	2.63	0.47
22:AX:50:ASN:C	22:AX:62:LEU:HB3	2.36	0.47
24:AZ:52:HIS:CG	24:AZ:53:LEU:N	2.83	0.47
34:BA:1005:A:C5	34:BA:1026:G:N2	2.82	0.47
34:BA:1084:G:HO2'	34:BA:1085:U:P	2.38	0.47
34:BA:1164:G:H2'	34:BA:1165:C:C6	2.50	0.47
34:BA:1237:C:HO2'	34:BA:1300:G:H22	1.55	0.47
34:BA:1327:C:O2'	34:BA:1328:C:H5'	2.15	0.47
34:BA:1392:G:O2'	34:BA:1393:U:H5'	2.15	0.47
34:BA:1477:C:C4	34:BA:1478:C:C5	3.03	0.47
34:BA:227:G:C6	34:BA:228:A:C6	3.03	0.47
34:BA:119:A:N6	34:BA:287:U:C2	2.78	0.47
34:BA:45:U:O2	34:BA:398:C:N3	2.47	0.47
34:BA:51:A:N1	34:BA:116:A:C4	2.83	0.47
34:BA:524:G:H2'	34:BA:525:C:O4'	2.15	0.47
34:BA:523:A:O2'	34:BA:525:C:H5	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:597:G:C8	34:BA:644:G:N2	2.83	0.47
34:BA:672:U:O2	34:BA:672:U:C2'	2.63	0.47
34:BA:68:G:H5'	34:BA:171:A:C1'	2.45	0.47
34:BA:709:G:C4	34:BA:710:G:C8	3.03	0.47
34:BA:742:G:C2'	34:BA:743:U:H5'	2.45	0.47
34:BA:837:G:N1	34:BA:838:G:C5	2.83	0.47
34:BA:841:U:OP2	34:BA:842:C:N4	2.48	0.47
34:BA:874:G:H2'	34:BA:875:C:O5'	2.15	0.47
34:BA:981:U:C6	34:BA:982:U:C5	3.03	0.47
56:BE:2:C:C6	56:BE:70:G:O6	2.65	0.47
35:BF:95:GLN:CD	35:BF:148:TYR:HB3	2.35	0.47
35:BF:24:TRP:CZ2	35:BF:26:PRO:HA	2.49	0.47
35:BF:55:PHE:O	35:BF:58:ILE:CB	2.63	0.47
36:BG:116:VAL:HG21	36:BG:141:VAL:HG22	1.97	0.47
36:BG:132:ARG:C	36:BG:136:GLN:NE2	2.69	0.47
37:BH:17:VAL:O	37:BH:19:LEU:CD2	2.63	0.47
37:BH:61:LYS:HG2	37:BH:203:VAL:HG13	1.97	0.47
37:BH:4:TYR:HE2	37:BH:8:VAL:HG22	1.80	0.47
38:BI:98:THR:HB	38:BI:117:ASP:HA	1.97	0.47
38:BI:19:MET:SD	38:BI:24:ARG:HG2	2.54	0.47
41:BL:103:VAL:CG1	41:BL:108:GLY:HA3	2.44	0.47
41:BL:41:ARG:CB	41:BL:41:ARG:HH11	2.27	0.47
41:BL:9:MET:HE2	41:BL:13:ILE:HD11	1.96	0.47
34:BA:1341:U:O2'	42:BM:126:SER:O	2.29	0.47
42:BM:37:PHE:HB3	42:BM:40:LEU:HB2	1.96	0.47
42:BM:67:GLY:C	42:BM:73:GLN:NE2	2.69	0.47
43:BN:60:ARG:O	43:BN:61:GLU:HB2	2.15	0.47
44:BO:103:LEU:O	44:BO:104:GLN:CB	2.63	0.47
44:BO:73:MET:C	44:BO:75:TYR:H	2.18	0.47
44:BO:21:ILE:HD11	44:BO:82:VAL:CG1	2.45	0.47
44:BO:85:ARG:HD3	44:BO:112:THR:H	1.80	0.47
45:BP:8:ASN:O	45:BP:9:GLN:C	2.50	0.47
45:BP:24:VAL:HG13	45:BP:98:TYR:OH	2.15	0.47
46:BQ:27:LYS:C	46:BQ:29:ARG:H	2.19	0.47
46:BQ:64:TRP:CZ2	46:BQ:66:LEU:CD1	2.98	0.47
49:BT:53:VAL:HA	49:BT:79:VAL:CG2	2.45	0.47
49:BT:74:LEU:CD2	49:BT:79:VAL:HG21	2.43	0.47
49:BT:8:ARG:HH12	49:BT:11:SER:CA	2.28	0.47
50:BU:29:HIS:ND1	50:BU:30:PRO:N	2.63	0.47
50:BU:84:LEU:O	50:BU:85:VAL:C	2.54	0.47
51:BV:81:PHE:O	51:BV:82:THR:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:14:LYS:O	53:BX:18:GLN:HG3	2.15	0.47
53:BX:38:LYS:O	53:BX:41:ILE:N	2.48	0.47
54:BY:24:ARG:O	54:BY:25:LYS:CB	2.60	0.47
57:BZ:233:PRO:HA	57:BZ:235:GLN:CB	2.40	0.47
57:BZ:305:PRO:CG	57:BZ:306:THR:H	2.28	0.47
57:BZ:314:ASN:C	57:BZ:316:SER:H	2.19	0.47
57:BZ:381:ALA:HB3	57:BZ:577:LEU:HB3	1.88	0.47
57:BZ:586:ARG:HH21	57:BZ:586:ARG:CG	2.27	0.47
57:BZ:59:LYS:HB2	57:BZ:66:TRP:CH2	2.49	0.47
57:BZ:67:ASP:N	57:BZ:68:TYR:CA	2.73	0.47
57:BZ:6:ARG:C	57:BZ:69:ARG:CB	2.74	0.47
23:AY:6:GLU:O	23:AY:10:LYS:HE2	2.15	0.47
23:AY:6:GLU:O	23:AY:9:ARG:N	2.48	0.47
1:AA:1583:A:H4'	1:AA:1583:A:OP1	2.15	0.47
57:BZ:321:LYS:HD3	57:BZ:321:LYS:C	2.35	0.47
8:AH:93:GLY:O	8:AH:107:VAL:CG2	2.63	0.47
55:BC:14:A:H1'	55:BC:22:G:N2	2.29	0.47
40:BK:136:LYS:HE3	40:BK:136:LYS:HB3	1.55	0.47
34:BA:1029:G:C4	34:BA:1032(A):G:C6	3.03	0.47
34:BA:73:G:C4	34:BA:74:C:C5	3.03	0.47
34:BA:1532:U:O5'	34:BA:1532:U:H6	1.98	0.47
1:AA:1001:A:N6	1:AA:1002:G:C2	2.82	0.46
1:AA:1009:A:H4'	16:AR:62:ILE:CG2	2.42	0.46
1:AA:107:C:H2'	1:AA:108:U:H6	1.81	0.46
1:AA:1130:U:O2'	1:AA:1131:G:P	2.73	0.46
1:AA:1213:A:C2	1:AA:1237:A:H1'	2.50	0.46
1:AA:1522:G:H3'	1:AA:1522:G:H8	1.80	0.46
1:AA:1593:G:C4	1:AA:1594:G:C8	3.02	0.46
1:AA:1621:U:H6	1:AA:1621:U:H3'	1.79	0.46
1:AA:1683:C:O5'	1:AA:1683:C:C6	2.68	0.46
1:AA:1813:G:H4'	4:AD:46:GLN:CG	2.42	0.46
1:AA:182:A:C2	1:AA:183:C:N3	2.83	0.46
1:AA:1949:G:N7	1:AA:1950:G:N7	2.63	0.46
1:AA:1952:A:C8	1:AA:1953:A:C4	3.03	0.46
1:AA:1953:A:N6	1:AA:2550:G:C4'	2.77	0.46
1:AA:199:A:N1	1:AA:2433:A:N3	2.63	0.46
1:AA:2004:G:H2'	1:AA:2005:A:H8	1.80	0.46
1:AA:2070:G:O2'	1:AA:2071:A:H5'	2.14	0.46
1:AA:2077:A:H1'	1:AA:2435:A:O4'	2.15	0.46
1:AA:2124:G:O6	3:AC:218:MET:CA	2.53	0.46
1:AA:219:G:H2'	1:AA:220:G:O4'	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2404:C:C4	1:AA:2414:G:C2	3.03	0.46
1:AA:199:A:C6	1:AA:2433:A:N3	2.83	0.46
1:AA:2491:U:H6	1:AA:2492:U:P	2.33	0.46
1:AA:2588:G:O6	1:AA:2589:A:C6	2.68	0.46
1:AA:2074:U:HO2'	1:AA:2598:A:H1'	1.78	0.46
1:AA:2616:C:C2'	1:AA:2617:C:C6	2.97	0.46
1:AA:2633:G:N1	1:AA:2634:G:C5	2.83	0.46
1:AA:2659:G:H1'	1:AA:2663:G:N1	2.29	0.46
1:AA:2709:G:C2'	1:AA:2710:C:C5'	2.87	0.46
1:AA:270(K):C:N4	1:AA:270(M):U:C6	2.83	0.46
1:AA:1050:A:N6	1:AA:2751:G:N9	2.64	0.46
1:AA:2839:G:C5	1:AA:2840:C:C4	3.03	0.46
1:AA:395:U:H6	1:AA:395:U:OP2	1.99	0.46
1:AA:539:G:C2	1:AA:540:G:C5	3.03	0.46
1:AA:580:C:N4	1:AA:581:C:N4	2.63	0.46
1:AA:653:A:C3'	1:AA:654:A:H4'	2.45	0.46
1:AA:704:G:N3	1:AA:704:G:C2'	2.78	0.46
1:AA:730:C:O2	1:AA:731:C:C5	2.68	0.46
1:AA:746:A:N7	1:AA:2612:C:O5'	2.48	0.46
1:AA:466:A:C2	1:AA:796:C:O4'	2.68	0.46
1:AA:801:G:O2'	1:AA:802:A:P	2.73	0.46
1:AA:861:A:H2'	1:AA:862:G:C5'	2.41	0.46
3:AC:87:GLU:HG3	3:AC:94:VAL:HG11	1.97	0.46
4:AD:159:ALA:HA	4:AD:196:VAL:CG1	2.44	0.46
1:AA:1901:A:C4'	4:AD:244:ARG:HH12	2.21	0.46
4:AD:29:PRO:C	4:AD:31:LYS:H	2.17	0.46
5:AE:108:SER:O	5:AE:109:LYS:C	2.53	0.46
1:AA:1656:C:C5'	5:AE:136:ARG:NH1	2.77	0.46
5:AE:198:VAL:HG12	5:AE:199:ARG:N	2.28	0.46
6:AF:135:LYS:HB3	6:AF:138:GLU:OE2	2.15	0.46
6:AF:44:ARG:O	6:AF:45:ARG:O	2.32	0.46
7:AG:135:LEU:HD13	7:AG:137:GLU:H	1.77	0.46
7:AG:151:ALA:HB1	7:AG:152:LEU:HG	1.98	0.46
7:AG:87:PRO:C	7:AG:88:ILE:HG13	2.35	0.46
8:AH:103:LEU:O	8:AH:104:GLU:C	2.53	0.46
8:AH:27:LYS:HZ2	8:AH:32:GLU:HB2	1.79	0.46
10:AL:78:ARG:CZ	10:AL:78:ARG:N	2.78	0.46
10:AL:98:VAL:O	10:AL:99:PHE:HB2	2.14	0.46
11:AM:72:PRO:HB3	11:AM:110:TYR:O	2.13	0.46
11:AM:78:PRO:HG3	11:AM:116:GLY:HA2	1.97	0.46
1:AA:598:G:O2'	11:AM:14:LYS:HE3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:672:C:C6	11:AM:38:GLN:CD	2.88	0.46
11:AM:97:PRO:O	11:AM:98:GLU:C	2.53	0.46
12:AN:16:ARG:O	12:AN:17:LEU:CD1	2.64	0.46
13:AO:66:VAL:O	13:AO:67:LEU:C	2.53	0.46
2:AB:50:G:H5''	14:AP:61:ASN:HA	1.97	0.46
15:AQ:17:THR:HG21	15:AQ:22:PHE:CZ	2.50	0.46
15:AQ:31:SER:HA	15:AQ:32:TYR:CE1	2.49	0.46
16:AR:102:GLU:HA	16:AR:103:PRO:HD2	1.56	0.46
16:AR:34:LYS:O	16:AR:38:THR:OG1	2.32	0.46
16:AR:98:LEU:O	16:AR:99:ALA:C	2.52	0.46
16:AR:40:PHE:HB3	17:AS:78:LYS:CE	2.44	0.46
18:AT:33:ARG:HH12	18:AT:48:ALA:CB	2.22	0.46
18:AT:34:ASN:HA	18:AT:37:ARG:CG	2.45	0.46
18:AT:6:ILE:HD11	18:AT:104:THR:HA	1.97	0.46
19:AU:85:PRO:HG3	19:AU:87:GLN:HG2	1.91	0.46
20:AV:84:ARG:CD	20:AV:84:ARG:C	2.76	0.46
21:AW:102:LEU:HA	21:AW:137:ILE:O	2.15	0.46
21:AW:10:ARG:NH2	21:AW:35:ARG:HG3	2.30	0.46
21:AW:14:LYS:O	21:AW:15:PRO:C	2.53	0.46
21:AW:1:MET:SD	21:AW:2:GLU:N	2.88	0.46
21:AW:20:ARG:CG	21:AW:20:ARG:HH11	2.27	0.46
21:AW:6:LYS:HA	21:AW:37:VAL:HG13	1.97	0.46
21:AW:77:ASP:HB3	21:AW:81:ARG:O	2.15	0.46
21:AW:77:ASP:O	21:AW:78:LYS:C	2.53	0.46
21:AW:95:PRO:HD2	21:AW:130:PRO:CA	2.44	0.46
22:AX:74:ARG:HD2	22:AX:75:LEU:HD12	1.97	0.46
23:AY:54:ARG:CG	23:AY:54:ARG:NH2	2.78	0.46
34:BA:1046:A:H2'	34:BA:1046:A:N3	2.29	0.46
34:BA:1189:C:O5'	34:BA:1189:C:H6	1.99	0.46
34:BA:1189:C:C6	34:BA:1189:C:OP2	2.68	0.46
34:BA:1206:G:C2	34:BA:1207:G:C4	3.03	0.46
34:BA:1229:A:H4'	56:BE:30:G:P	2.55	0.46
34:BA:1319:A:N1	34:BA:1361:G:N2	2.63	0.46
34:BA:1332:A:H3'	34:BA:1333:A:C8	2.51	0.46
34:BA:1361:G:C8	34:BA:1361:G:O5'	2.68	0.46
34:BA:938:A:O2'	34:BA:1376:U:H4'	2.15	0.46
34:BA:1402:C:C5	34:BA:1403:C:C5	3.03	0.46
34:BA:1468:A:C8	34:BA:1469:G:H8	2.33	0.46
34:BA:318:G:O2'	34:BA:1468:A:O2'	2.12	0.46
34:BA:1405:G:H1'	34:BA:1518:A:O2'	2.16	0.46
34:BA:495:A:H4'	34:BA:496:A:OP1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:547:A:H4'	34:BA:548:G:O5'	2.10	0.46
34:BA:625:G:H2'	34:BA:626:U:H6	1.80	0.46
34:BA:763:G:N3	34:BA:764:C:C6	2.83	0.46
34:BA:791:G:C8	34:BA:792:A:C8	3.03	0.46
34:BA:815:A:C6	34:BA:1529:G:C2	3.03	0.46
34:BA:817:C:C6	34:BA:819:A:C4'	2.98	0.46
34:BA:900:A:H62	34:BA:901:A:N6	2.13	0.46
34:BA:914:A:H2'	34:BA:915:A:N7	2.30	0.46
34:BA:913:A:O2'	34:BA:914:A:O5'	2.32	0.46
34:BA:938:A:C6	34:BA:939:G:C5	3.03	0.46
34:BA:949:A:H2'	34:BA:950:U:C5	2.48	0.46
34:BA:964:A:C2	34:BA:965:A:N7	2.83	0.46
34:BA:978:A:C3'	34:BA:978:A:C8	2.98	0.46
35:BF:164:VAL:CG2	35:BF:165:VAL:N	2.77	0.46
34:BA:1057:G:H5'	36:BG:196:LEU:HA	1.97	0.46
36:BG:29:TYR:CG	47:BR:36:PHE:HE1	2.32	0.46
36:BG:5:ILE:HD13	36:BG:10:PHE:CE2	2.50	0.46
37:BH:165:MET:SD	37:BH:168:ARG:NH1	2.89	0.46
37:BH:170:VAL:H	37:BH:176:LEU:CD2	2.16	0.46
37:BH:30:LYS:HA	37:BH:35:ARG:HG2	1.98	0.46
37:BH:82:ALA:C	37:BH:89:THR:HG23	2.35	0.46
38:BI:48:ALA:HB3	38:BI:54:ALA:N	2.30	0.46
39:BJ:21:LEU:O	39:BJ:25:ILE:HG13	2.15	0.46
39:BJ:41:GLU:N	39:BJ:63:TYR:CD1	2.81	0.46
39:BJ:3:ARG:O	39:BJ:93:SER:OG	2.32	0.46
40:BK:113:GLU:OE1	40:BK:119:ARG:N	2.47	0.46
40:BK:69:VAL:HG13	40:BK:135:VAL:N	2.30	0.46
40:BK:143:ARG:HD2	40:BK:144:MET:N	2.18	0.46
40:BK:38:LEU:CA	40:BK:41:ARG:HB2	2.45	0.46
41:BL:39:LEU:HB3	41:BL:45:ILE:CG2	2.38	0.46
44:BO:22:HIS:CD2	44:BO:22:HIS:C	2.87	0.46
45:BP:69:TYR:HB3	45:BP:99:HIS:HB3	1.96	0.46
46:BQ:27:LYS:HA	46:BQ:27:LYS:HD3	1.57	0.46
36:BG:29:TYR:CD1	47:BR:36:PHE:CE1	3.03	0.46
48:BS:18:PHE:O	48:BS:20:GLY:N	2.48	0.46
48:BS:42:HIS:CD2	48:BS:43:LEU:N	2.81	0.46
49:BT:19:ILE:HD11	49:BT:39:TYR:HB3	1.97	0.46
50:BU:4:LYS:CG	50:BU:5:VAL:N	2.77	0.46
50:BU:59:ILE:HG13	50:BU:60:ILE:N	2.29	0.46
51:BV:43:PHE:CD2	51:BV:56:THR:HG22	2.50	0.46
51:BV:69:THR:HA	51:BV:72:ARG:CG	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:10:PHE:N	52:BW:41:VAL:CG2	2.51	0.46
53:BX:23:ARG:CD	53:BX:24:LEU:N	2.78	0.46
54:BY:15:ARG:HB3	54:BY:17:THR:HG23	1.97	0.46
57:BZ:325:PHE:HD2	57:BZ:330:GLN:CG	2.27	0.46
57:BZ:488:LEU:CD1	57:BZ:526:ILE:N	2.77	0.46
57:BZ:18:LYS:CA	60:BZ:701:GCP:PB	3.04	0.46
57:BZ:86:GLU:C	57:BZ:88:VAL:H	2.18	0.46
57:BZ:96:LEU:HD22	57:BZ:126:VAL:HG21	1.97	0.46
1:AA:1589:C:O2'	1:AA:1590:U:H5'	2.15	0.46
1:AA:2110:G:H2'	1:AA:2120:G:H5'	1.96	0.46
9:AK:6:PRO:CB	9:AK:41:ASP:HB3	2.45	0.46
34:BA:1381:U:O2	34:BA:1381:U:H2'	2.14	0.46
34:BA:1382:C:H2'	34:BA:1383:C:C5	2.49	0.46
1:AA:1870:C:O2	1:AA:1870:C:C2'	2.62	0.46
57:BZ:295:GLU:CG	57:BZ:296:ALA:HA	2.45	0.46
53:BX:96:GLY:O	53:BX:97:ALA:HB3	2.15	0.46
1:AA:1004:C:H1'	1:AA:1010:A:H2'	1.96	0.46
1:AA:1022:G:C6	1:AA:1139:G:N1	2.82	0.46
1:AA:1061:U:P	1:AA:1061:U:H6	2.38	0.46
1:AA:1106:G:C2'	1:AA:1107:G:C8	2.86	0.46
1:AA:1182:A:H2'	1:AA:1182:A:N3	2.30	0.46
1:AA:1229:G:C2'	1:AA:1230:C:H5'	2.44	0.46
1:AA:1238:G:N2	1:AA:1239:G:C4	2.83	0.46
1:AA:1265:A:H1'	1:AA:1267:U:N3	2.29	0.46
1:AA:1275:A:N3	13:AO:16:HIS:ND1	2.63	0.46
1:AA:1338:G:N2	1:AA:1339:G:H1'	2.30	0.46
1:AA:1475:G:C8	1:AA:1517:G:N2	2.83	0.46
1:AA:1530:G:H2'	1:AA:1531:C:C5	2.48	0.46
1:AA:1626:G:H5'	1:AA:1627:G:OP1	2.15	0.46
1:AA:1666:G:H5''	1:AA:1667:G:OP2	2.15	0.46
1:AA:1691:C:H2'	1:AA:1692:U:H5'	1.97	0.46
1:AA:175:G:HO2'	1:AA:176:G:H5'	1.77	0.46
1:AA:1847:A:N1	1:AA:1851:U:O4	2.47	0.46
1:AA:1891:G:C5	1:AA:1892:C:C5	3.03	0.46
1:AA:1905:C:N4	1:AA:1930:G:C2	2.82	0.46
1:AA:1947:C:C2'	1:AA:1948:G:H5'	2.44	0.46
1:AA:196:A:H3'	1:AA:197:A:C5'	2.43	0.46
1:AA:1969:A:C4'	1:AA:1970:A:H5'	2.37	0.46
1:AA:197:A:H62	1:AA:248:G:N2	2.00	0.46
1:AA:2046:G:H2'	1:AA:2047:U:C6	2.51	0.46
1:AA:2062:A:C2'	1:AA:2063:C:OP1	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2092:U:OP1	1:AA:2199:A:O2'	2.30	0.46
1:AA:2208:U:HO2'	1:AA:2217:G:N2	2.13	0.46
1:AA:2244:U:O2'	1:AA:2245:U:O5'	2.33	0.46
1:AA:227:A:N6	1:AA:2407:G:H8	2.13	0.46
1:AA:2285:C:C4'	1:AA:2288:A:C6	2.98	0.46
1:AA:2324:C:O2'	1:AA:2325:G:OP1	2.30	0.46
1:AA:2345:G:N2	1:AA:2381:C:H2'	2.30	0.46
1:AA:2367:G:O6	1:AA:2382:G:O6	2.33	0.46
1:AA:2393:A:C5'	11:AM:56:SER:H	2.28	0.46
1:AA:2401:U:H2'	1:AA:2402:C:O4'	2.15	0.46
1:AA:2404:C:N3	1:AA:2414:G:C2	2.83	0.46
1:AA:2462:U:O4	1:AA:2463:C:N4	2.48	0.46
1:AA:2535:G:H5'	1:AA:2536:G:OP2	2.15	0.46
1:AA:2583:G:H5''	1:AA:2584:U:OP2	2.15	0.46
1:AA:2585:U:O4	59:AA:3002:8AN:N7	2.49	0.46
1:AA:2638:G:H2'	1:AA:2639:A:N7	2.31	0.46
1:AA:2734:A:N6	1:AA:2735:G:C2	2.83	0.46
1:AA:273:G:C4	1:AA:273(A):G:N7	2.83	0.46
1:AA:2745:C:N3	1:AA:2746:U:C5	2.83	0.46
1:AA:2751:G:C1'	8:AH:6:ARG:HH22	2.28	0.46
1:AA:2768:C:C2'	1:AA:2769:C:H5'	2.45	0.46
1:AA:2901:C:C2	1:AA:2902:C:C5	3.00	0.46
1:AA:307:G:H2'	1:AA:309:G:H8	1.79	0.46
1:AA:403:U:C4'	1:AA:404:C:OP1	2.62	0.46
1:AA:417:C:O5'	1:AA:417:C:H6	1.98	0.46
1:AA:224:G:N7	1:AA:420:C:H4'	2.30	0.46
1:AA:427:U:O2'	1:AA:428:A:H1'	2.16	0.46
1:AA:464:U:C4	1:AA:465:G:O6	2.68	0.46
1:AA:470:A:O2'	1:AA:471:A:P	2.72	0.46
1:AA:489:G:N2	1:AA:491:G:H1'	2.30	0.46
1:AA:629:G:C5'	1:AA:649:G:N3	2.77	0.46
1:AA:666:G:H3'	1:AA:666:G:P	2.55	0.46
1:AA:702:G:C2	1:AA:731:C:C2	3.02	0.46
1:AA:714:U:P	1:AA:714:U:H6	2.38	0.46
1:AA:720:C:HO2'	1:AA:721:C:H5'	1.79	0.46
1:AA:729:G:C6	1:AA:730:C:C2	3.03	0.46
1:AA:918:A:H2	1:AA:919:G:C8	2.33	0.46
1:AA:945:A:N3	1:AA:945:A:C2'	2.77	0.46
1:AA:963:U:H2'	1:AA:964:C:O5'	2.15	0.46
1:AA:988:A:C2	1:AA:989:G:C2	3.02	0.46
1:AA:997:G:C2	1:AA:998:C:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:188:ASN:O	3:AC:189:ILE:C	2.53	0.46
1:AA:2152:G:C5'	3:AC:2:LYS:O	2.53	0.46
4:AD:54:ARG:HB2	4:AD:218:ARG:HD2	1.96	0.46
4:AD:252:TRP:HA	4:AD:252:TRP:HE3	1.80	0.46
4:AD:60:ARG:CA	4:AD:62:TYR:CZ	2.94	0.46
5:AE:66:HIS:CE1	5:AE:70:ALA:HA	2.50	0.46
6:AF:197:ASP:CA	6:AF:200:GLU:CG	2.71	0.46
6:AF:200:GLU:O	6:AF:204:ASN:OD1	2.33	0.46
6:AF:34:TRP:HB3	6:AF:38:ARG:NE	2.27	0.46
6:AF:3:GLU:O	6:AF:3:GLU:CD	2.54	0.46
7:AG:100:TRP:C	7:AG:102:PHE:N	2.63	0.46
7:AG:116:ASP:CB	7:AG:118:ARG:NH2	2.76	0.46
7:AG:157:ILE:CG1	7:AG:158:ALA:H	2.28	0.46
8:AH:137:ASP:HB3	8:AH:140:LYS:CE	2.46	0.46
10:AL:106:LEU:CG	10:AL:107:ARG:N	2.78	0.46
10:AL:18:LYS:CE	10:AL:44:LYS:CD	2.82	0.46
10:AL:64:ARG:HE	10:AL:67:LYS:C	2.19	0.46
1:AA:1192:G:OP1	11:AM:18:ARG:NH1	2.48	0.46
12:AN:99:PRO:CD	12:AN:101:ARG:NE	2.78	0.46
13:AO:51:LEU:HD21	13:AO:70:LEU:CD2	2.39	0.46
14:AP:43:GLU:C	14:AP:45:GLY:N	2.67	0.46
5:AE:8:LYS:NZ	15:AQ:3:ARG:CG	2.77	0.46
16:AR:98:LEU:HD13	16:AR:101:ARG:HD2	1.97	0.46
16:AR:8:VAL:N	16:AR:11:ARG:NH2	2.62	0.46
16:AR:61:TRP:O	16:AR:65:ILE:CG1	2.62	0.46
16:AR:96:ALA:O	16:AR:99:ALA:N	2.48	0.46
17:AS:6:LYS:HZ3	17:AS:10:LYS:CB	2.20	0.46
18:AT:18:ARG:CG	18:AT:18:ARG:HH21	2.28	0.46
18:AT:58:ALA:CB	18:AT:69:LEU:HD21	2.45	0.46
20:AV:21:LYS:HD2	20:AV:23:ARG:NH2	2.30	0.46
20:AV:27:VAL:O	20:AV:35:TYR:HA	2.15	0.46
20:AV:32:PRO:CB	20:AV:34:LYS:HE3	2.44	0.46
21:AW:161:VAL:O	21:AW:162:GLU:CB	2.56	0.46
22:AX:40:GLN:O	22:AX:57:PHE:CB	2.62	0.46
23:AY:29:GLU:O	23:AY:33:GLN:OE1	2.33	0.46
23:AY:45:ILE:CD1	23:AY:46:ARG:N	2.78	0.46
23:AY:45:ILE:HD12	23:AY:46:ARG:N	2.30	0.46
24:AZ:11:SER:N	24:AZ:12:PRO:CD	2.76	0.46
34:BA:101:A:C5	34:BA:102:G:N7	2.84	0.46
34:BA:1115:C:N1	34:BA:1186:G:N2	2.61	0.46
34:BA:1116:C:N3	34:BA:1117:G:N7	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1182:G:H4'	34:BA:1183:A:C5'	2.45	0.46
34:BA:1267:C:N4	34:BA:1268:A:N1	2.62	0.46
34:BA:1276:G:H1'	34:BA:1282:C:O2'	2.15	0.46
34:BA:1284:C:N3	34:BA:1285:A:C6	2.83	0.46
34:BA:1319:A:H61	34:BA:1361:G:H1'	1.80	0.46
34:BA:1351:U:C2	34:BA:1352:C:C5	3.03	0.46
34:BA:14:U:O2	34:BA:17:U:H5	1.98	0.46
34:BA:185:A:C6	34:BA:186:C:N4	2.84	0.46
34:BA:186(C):G:C6	34:BA:191(E):G:C6	3.03	0.46
34:BA:198:G:C2	34:BA:199:G:C8	3.03	0.46
34:BA:303:A:O2'	34:BA:304:U:H5'	2.15	0.46
34:BA:355:C:H2'	34:BA:356:A:C8	2.50	0.46
34:BA:377:G:OP1	49:BT:3:LYS:HD2	2.15	0.46
34:BA:450:G:H5'	49:BT:43:LYS:NZ	2.30	0.46
34:BA:47:C:O2'	34:BA:48:C:O5'	2.33	0.46
34:BA:518:C:C5	34:BA:530:G:N7	2.83	0.46
34:BA:545:C:O2'	34:BA:546:G:C5'	2.55	0.46
34:BA:501:C:O2'	34:BA:549:C:O2	2.26	0.46
34:BA:622:A:N3	34:BA:623:C:O4'	2.48	0.46
34:BA:625:G:H2'	34:BA:626:U:C6	2.50	0.46
34:BA:629:G:N3	34:BA:630:G:C8	2.84	0.46
34:BA:606:G:H22	34:BA:631:G:H2'	1.79	0.46
34:BA:578:C:C2'	34:BA:728:A:N3	2.78	0.46
34:BA:737:A:H2'	34:BA:738:C:H6	1.80	0.46
34:BA:873:A:O4'	34:BA:873:A:P	2.73	0.46
34:BA:885:G:C2	34:BA:913:A:C2	3.02	0.46
34:BA:88:C:O2'	34:BA:89:U:P	2.74	0.46
34:BA:993:G:O6	34:BA:1046:A:N6	2.48	0.46
1:AA:2507:C:O4'	56:BD:75:C:O2	2.11	0.46
56:BE:12:U:H2'	56:BE:13:C:O4'	2.15	0.46
35:BF:186:ALA:O	35:BF:201:ILE:CD1	2.64	0.46
35:BF:82:ARG:HB3	35:BF:83:MET:HE2	1.97	0.46
36:BG:29:TYR:O	36:BG:29:TYR:CD2	2.60	0.46
36:BG:31:HIS:HA	36:BG:34:LEU:HB3	1.96	0.46
37:BH:101:LEU:O	37:BH:104:VAL:CG2	2.40	0.46
37:BH:121:VAL:HG11	37:BH:136:PRO:CA	2.45	0.46
37:BH:123:HIS:CD2	37:BH:123:HIS:N	2.81	0.46
37:BH:110:PHE:HZ	37:BH:147:ALA:HB1	1.80	0.46
37:BH:31:CYS:C	37:BH:33:MET:H	2.13	0.46
37:BH:38:TYR:CZ	37:BH:45:GLN:NE2	2.83	0.46
37:BH:79:PHE:CD2	37:BH:80:GLU:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:129:ILE:O	38:BI:130:ASN:C	2.54	0.46
38:BI:140:ARG:O	38:BI:141:GLN:C	2.52	0.46
38:BI:41:VAL:O	38:BI:67:VAL:O	2.33	0.46
38:BI:61:TYR:CA	38:BI:64:ARG:HG2	2.45	0.46
38:BI:9:LYS:HB3	38:BI:108:ALA:HB1	1.97	0.46
40:BK:76:ARG:HH11	40:BK:89:MET:CG	2.28	0.46
41:BL:104:ARG:CD	41:BL:107:LEU:HD11	2.45	0.46
41:BL:98:LYS:HZ2	41:BL:98:LYS:CA	2.27	0.46
42:BM:97:LYS:HD2	42:BM:102:LEU:HD22	1.98	0.46
42:BM:121:ARG:CG	42:BM:121:ARG:HH11	2.26	0.46
42:BM:49:PRO:HB2	42:BM:82:ALA:CA	2.46	0.46
45:BP:47:LYS:H	45:BP:48:PRO:HD3	1.77	0.46
34:BA:1227:A:C3'	46:BQ:115:LYS:HZ3	2.28	0.46
46:BQ:22:ILE:HG22	46:BQ:23:TYR:N	2.30	0.46
46:BQ:25:ILE:HA	46:BQ:29:ARG:CG	2.45	0.46
47:BR:24:CYS:SG	47:BR:27:CYS:C	2.94	0.46
47:BR:45:ARG:HG3	47:BR:46:GLU:N	2.31	0.46
48:BS:75:PRO:HA	48:BS:78:TYR:CD1	2.49	0.46
49:BT:63:GLY:O	49:BT:64:ALA:C	2.52	0.46
50:BU:43:LEU:HD11	50:BU:69:LYS:CB	2.45	0.46
51:BV:23:LYS:HD2	51:BV:57:GLY:O	2.15	0.46
51:BV:33:ASP:O	51:BV:69:THR:HG23	2.15	0.46
51:BV:66:LEU:CD1	51:BV:67:ALA:H	2.22	0.46
53:BX:25:ARG:CG	53:BX:25:ARG:HH11	2.26	0.46
53:BX:51:GLU:HB3	53:BX:54:LYS:HZ1	1.76	0.46
57:BZ:509:LYS:HE2	57:BZ:561:ILE:HD13	1.90	0.46
57:BZ:67:ASP:HA	57:BZ:191:VAL:HG13	1.92	0.46
1:AA:1488:G:H3'	1:AA:1489:U:H5'	1.94	0.46
1:AA:2101:G:O2'	1:AA:2102:U:H5'	2.16	0.46
57:BZ:258:LEU:HB3	57:BZ:259:GLY:HA3	1.96	0.46
41:BL:54:ASP:O	41:BL:56:LYS:CD	2.62	0.46
38:BI:73:ASN:C	38:BI:73:ASN:HD22	2.16	0.46
56:BE:37:A:H3'	56:BE:38:A:H8	1.80	0.46
1:AA:1186:G:H2'	1:AA:1187:G:O4'	2.14	0.46
1:AA:1203:G:C2	1:AA:1206:G:N1	2.84	0.46
1:AA:814:C:C2'	1:AA:1224:G:H22	2.29	0.46
1:AA:1283:G:O2'	1:AA:1285:G:O6	2.32	0.46
1:AA:1343:G:O6	1:AA:1404:C:C4	2.68	0.46
1:AA:1433:U:C3'	1:AA:1433:U:C6	2.98	0.46
1:AA:1432:C:N3	1:AA:1433:U:O2	2.48	0.46
1:AA:1438:U:OP2	1:AA:1438:U:H6	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1469:A:C8	1:AA:1469:A:H3'	2.49	0.46
1:AA:1559:G:C2	1:AA:1560:G:O5'	2.69	0.46
1:AA:1596:A:C6	1:AA:1597:A:C6	3.03	0.46
1:AA:1308:A:N6	1:AA:1606:G:H1'	2.30	0.46
1:AA:1743:G:C5	1:AA:1746:G:C8	3.04	0.46
1:AA:1778:U:H2'	1:AA:1779:U:C5	2.48	0.46
1:AA:1935:G:H4'	1:AA:1937:A:C2	2.51	0.46
1:AA:2040:C:N3	1:AA:2041:U:C4	2.83	0.46
1:AA:2128:C:N4	1:AA:2129:C:C4	2.83	0.46
1:AA:218:A:N6	1:AA:219:G:N2	2.64	0.46
1:AA:2225:A:C5'	1:AA:2226:C:O4'	2.52	0.46
1:AA:2304:G:P	7:AG:132:ASN:HD21	2.38	0.46
1:AA:2327:A:C4	1:AA:2328:A:C8	3.03	0.46
1:AA:2366:A:H3'	1:AA:2367:G:H8	1.80	0.46
1:AA:2377:A:C4	1:AA:2378:A:N7	2.83	0.46
1:AA:2443:C:C2	1:AA:2444:G:N7	2.83	0.46
1:AA:2516:G:C6	1:AA:2517:C:N4	2.84	0.46
1:AA:2519:U:C2	1:AA:2542:A:N1	2.83	0.46
1:AA:2538:C:C2	1:AA:2539:C:H5	2.33	0.46
1:AA:2543:G:C2	1:AA:2765:A:N1	2.83	0.46
1:AA:2552:U:H3'	1:AA:2554:U:OP2	2.16	0.46
1:AA:2572:A:H3'	5:AE:144:ARG:HH21	1.80	0.46
1:AA:2673:G:N3	1:AA:2674:G:N7	2.63	0.46
1:AA:270(P):C:O5'	1:AA:270(P):C:H6	1.99	0.46
1:AA:273:G:C5	1:AA:273(A):G:N7	2.83	0.46
1:AA:2754:U:H2'	1:AA:2755:C:C5'	2.35	0.46
1:AA:2868:A:H2'	1:AA:2869:G:O4'	2.14	0.46
1:AA:416:C:C4	1:AA:417:C:C4	3.03	0.46
1:AA:511:U:OP2	1:AA:512:G:C5	2.68	0.46
1:AA:543:C:H2'	1:AA:544:C:C6	2.49	0.46
1:AA:587:C:HO2'	1:AA:588:U:P	2.39	0.46
1:AA:600:G:H22	1:AA:604:G:H4'	1.76	0.46
1:AA:658:C:H2'	1:AA:659:C:C6	2.51	0.46
1:AA:705:A:H2	1:AA:706:A:C1'	2.27	0.46
1:AA:775:G:C1'	1:AA:777:A:C2	2.98	0.46
1:AA:191:A:C2	1:AA:799:G:N2	2.83	0.46
1:AA:836:G:C5	1:AA:837:C:C4	3.03	0.46
1:AA:87:C:H5''	1:AA:88:G:O5'	2.15	0.46
1:AA:930:U:H6	1:AA:930:U:H3'	1.80	0.46
2:AB:113:C:H2'	2:AB:114:G:C8	2.50	0.46
2:AB:55:U:C2'	2:AB:56:G:C5'	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:44:HIS:CB	3:AC:213:TYR:HB2	2.46	0.46
3:AC:49:ILE:CG1	3:AC:51:PRO:HD3	2.45	0.46
3:AC:61:THR:HA	3:AC:163:PHE:CE2	2.50	0.46
4:AD:118:VAL:O	4:AD:129:ASN:CB	2.63	0.46
1:AA:2589:A:OP1	4:AD:226:MET:HG3	2.16	0.46
4:AD:228:PRO:O	4:AD:229:VAL:C	2.53	0.46
4:AD:246:PRO:CG	4:AD:252:TRP:CE3	2.86	0.46
4:AD:256:GLY:O	4:AD:257:LEU:CG	2.64	0.46
4:AD:268:ARG:HG2	4:AD:269:PHE:N	2.31	0.46
1:AA:1567:A:N1	4:AD:85:ASP:HA	2.30	0.46
5:AE:97:LYS:HG3	5:AE:100:GLU:CG	2.45	0.46
5:AE:120:TRP:CD1	5:AE:121:ASN:O	2.68	0.46
1:AA:2619:C:H5''	5:AE:152:LYS:CA	2.45	0.46
5:AE:4:ILE:O	5:AE:27:LEU:HD13	2.14	0.46
5:AE:36:ARG:CD	5:AE:41:LYS:NZ	2.69	0.46
6:AF:124:LEU:CD2	6:AF:197:ASP:OD2	2.63	0.46
6:AF:97:TYR:CD2	6:AF:97:TYR:N	2.78	0.46
32:AJ:51:ALA:CA	32:AJ:76:TYR:CD2	2.76	0.46
9:AK:42:TRP:HE1	16:AR:64:ARG:CG	2.27	0.46
9:AK:53:VAL:HG13	9:AK:121:LYS:O	2.15	0.46
9:AK:88:GLU:CD	9:AK:88:GLU:H	2.17	0.46
10:AL:31:LYS:O	10:AL:32:TYR:CG	2.68	0.46
10:AL:21:CYS:CA	10:AL:40:VAL:O	2.62	0.46
11:AM:70:GLN:O	11:AM:71:VAL:CG2	2.63	0.46
12:AN:68:ILE:CD1	12:AN:97:VAL:HG13	2.45	0.46
13:AO:83:ILE:O	13:AO:84:ALA:C	2.53	0.46
13:AO:87:TYR:O	13:AO:89:ASP:OD1	2.33	0.46
2:AB:7:G:C5'	14:AP:29:PHE:CE2	2.99	0.46
15:AQ:30:VAL:HG11	15:AQ:52:ILE:HD11	1.97	0.46
15:AQ:76:PHE:CE2	15:AQ:78:LEU:HD12	2.49	0.46
15:AQ:28:VAL:HG23	15:AQ:94:ALA:N	2.31	0.46
16:AR:54:LYS:CE	16:AR:54:LYS:HA	2.45	0.46
16:AR:66:ASN:HA	16:AR:76:TYR:CE1	2.51	0.46
16:AR:91:ASP:OD2	17:AS:10:LYS:HD3	2.14	0.46
21:AW:158:PRO:CB	21:AW:159:PRO:CD	2.89	0.46
24:AZ:10:LYS:O	24:AZ:11:SER:OG	2.28	0.46
24:AZ:23:LEU:CA	24:AZ:28:LEU:CD1	2.90	0.46
34:BA:101:A:C2'	34:BA:102:G:H8	2.16	0.46
34:BA:102:G:C5	34:BA:103:C:C5	3.02	0.46
34:BA:1055:A:H2'	34:BA:1056:U:O5'	2.16	0.46
34:BA:104:G:N1	34:BA:105:G:C5	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1062:U:N3	34:BA:1063:C:N4	2.63	0.46
34:BA:1095:U:N3	34:BA:1096:C:C5	2.83	0.46
34:BA:1095:U:P	34:BA:1108:G:H22	2.38	0.46
34:BA:1120:G:N1	34:BA:1154:G:C2	2.83	0.46
34:BA:1053:G:H2'	34:BA:1199:U:H5	1.80	0.46
34:BA:1254:C:OP1	43:BN:45:ARG:HD2	2.15	0.46
34:BA:1312:G:N2	34:BA:1326:C:C6	2.82	0.46
34:BA:1354:C:O5'	34:BA:1354:C:H6	1.98	0.46
34:BA:1411:C:H2'	34:BA:1412:C:C6	2.50	0.46
34:BA:1426:C:O2'	34:BA:1427:U:H5'	2.15	0.46
34:BA:1448:C:H2'	34:BA:1449:C:O5'	2.16	0.46
34:BA:209:U:H5''	34:BA:210:U:OP1	2.15	0.46
34:BA:196:A:H1'	34:BA:222:U:O4'	2.15	0.46
34:BA:59:A:H61	34:BA:331:G:H1'	1.80	0.46
34:BA:541:G:H8	34:BA:541:G:OP2	1.97	0.46
34:BA:648:A:C2	34:BA:649:G:C8	3.03	0.46
34:BA:656:C:H2'	34:BA:657:G:C5'	2.44	0.46
34:BA:711:G:O2'	34:BA:712:A:C5'	2.60	0.46
34:BA:812:C:C2'	34:BA:813:U:OP2	2.62	0.46
34:BA:817:C:H1'	34:BA:819:A:C5'	2.46	0.46
34:BA:867:G:N3	34:BA:868:C:C5	2.83	0.46
34:BA:877:C:H2'	34:BA:878:G:C8	2.50	0.46
34:BA:888:G:H3'	34:BA:889:A:C8	2.50	0.46
34:BA:20:U:C6	34:BA:916:G:N2	2.83	0.46
34:BA:941:G:H2'	34:BA:942:G:O5'	2.15	0.46
34:BA:954:G:H2'	34:BA:955:U:H6	1.80	0.46
1:AA:2169:A:N3	55:BC:56:C:C6	2.83	0.46
35:BF:157:ARG:HG2	35:BF:158:LEU:HD21	1.98	0.46
35:BF:28:PHE:HE1	35:BF:31:TYR:O	1.99	0.46
36:BG:190:ARG:NE	36:BG:190:ARG:CA	2.73	0.46
36:BG:36:ASP:C	36:BG:36:ASP:OD2	2.54	0.46
34:BA:438:G:C5'	37:BH:123:HIS:HB3	2.45	0.46
37:BH:29:PRO:O	37:BH:30:LYS:CB	2.64	0.46
37:BH:3:ARG:NH1	37:BH:118:ARG:CZ	2.78	0.46
39:BJ:14:LEU:HD22	39:BJ:18:GLN:CD	2.35	0.46
39:BJ:1:MET:CA	39:BJ:67:MET:O	2.64	0.46
40:BK:50:ILE:HD13	40:BK:58:PRO:CA	2.45	0.46
41:BL:126:LYS:NZ	41:BL:127:LEU:CB	2.78	0.46
41:BL:114:THR:HA	41:BL:130:GLY:O	2.15	0.46
41:BL:87:SER:HB2	41:BL:91:ARG:O	2.14	0.46
42:BM:108:VAL:HG23	42:BM:108:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:127:LYS:CG	56:BE:31:A:P	3.03	0.46
42:BM:7:THR:HG21	42:BM:9:ARG:NH1	2.30	0.46
43:BN:80:LYS:HD3	43:BN:80:LYS:O	2.15	0.46
46:BQ:13:LYS:HD3	46:BQ:21:TYR:OH	2.16	0.46
46:BQ:65:LYS:HG3	46:BQ:69:GLU:CB	2.46	0.46
47:BR:40:CYS:O	47:BR:41:ARG:C	2.54	0.46
49:BT:1:MET:CB	49:BT:3:LYS:HZ1	2.28	0.46
49:BT:53:VAL:HG23	49:BT:54:GLU:H	1.78	0.46
51:BV:25:THR:HG22	51:BV:42:ARG:NH2	2.31	0.46
52:BW:9:VAL:CG1	52:BW:41:VAL:CB	2.93	0.46
52:BW:30:LEU:HD12	52:BW:59:PRO:CA	2.45	0.46
53:BX:43:LEU:HD23	53:BX:43:LEU:HA	1.73	0.46
54:BY:3:LYS:O	54:BY:14:TRP:HE3	1.98	0.46
57:BZ:131:ASP:CG	57:BZ:166:SER:OG	2.53	0.46
57:BZ:57:LEU:HD23	57:BZ:71:ASN:ND2	2.29	0.46
57:BZ:74:ASP:C	57:BZ:75:THR:OG1	2.52	0.46
56:BD:52:G:N3	56:BD:52:G:H2'	2.30	0.46
56:BD:5:G:N3	56:BD:69:G:N9	2.62	0.46
1:AA:885:C:H42	1:AA:890:A:C5'	2.25	0.46
57:BZ:40:GLU:N	57:BZ:41:ARG:HB2	2.29	0.46
32:AJ:95:LYS:CE	32:AJ:95:LYS:CA	2.86	0.46
1:AA:1511:A:C3'	1:AA:1511:A:C8	2.98	0.46
57:BZ:574:ASP:CG	57:BZ:575:ASP:H	2.19	0.46
37:BH:191:ARG:HB3	37:BH:192:GLU:OE1	2.16	0.46
8:AH:151:ILE:O	8:AH:152:ARG:O	2.34	0.46
1:AA:487:C:H6	1:AA:487:C:H3'	1.80	0.46
1:AA:273(E):U:N1	1:AA:363(B):G:N2	2.63	0.46
34:BA:1015:A:N7	34:BA:1016:A:N6	2.63	0.46
55:BC:8:U:H6	55:BC:8:U:O5'	1.98	0.46
3:AC:54:SER:CB	3:AC:57:ASN:HD22	2.28	0.46
6:AF:146:ALA:CB	6:AF:148:LEU:HD23	2.45	0.46
55:BC:52:G:H2'	55:BC:53:G:C8	2.49	0.46
1:AA:1178:C:N3	1:AA:1179:C:N4	2.63	0.46
1:AA:1339:G:O4'	1:AA:1393:A:C2	2.68	0.46
1:AA:1343:G:C2	1:AA:1405:U:C2	3.03	0.46
1:AA:1373:A:N7	1:AA:1374:G:C5	2.84	0.46
1:AA:1381:G:C6	1:AA:1382:G:C6	3.04	0.46
1:AA:1405:U:C2	1:AA:1406:U:C5	3.04	0.46
1:AA:1405:U:C2'	1:AA:1406:U:C5	2.87	0.46
1:AA:1496:A:C4	1:AA:1577:C:O2'	2.69	0.46
1:AA:1518:C:N3	1:AA:1519:G:H1'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1527:G:C2'	1:AA:1528:A:O4'	2.60	0.46
1:AA:1657:C:C2'	1:AA:1658:C:O4'	2.62	0.46
1:AA:1672:C:C2'	1:AA:1673:U:OP1	2.64	0.46
1:AA:1892:C:N4	1:AA:1893:C:H41	2.13	0.46
1:AA:1949:G:C8	1:AA:1950:G:C8	3.03	0.46
1:AA:1990:C:C4	1:AA:1991:U:C4	3.03	0.46
1:AA:1995:U:O2'	10:AL:31:LYS:HE2	2.15	0.46
1:AA:200:U:C3'	1:AA:201:C:H5'	2.46	0.46
1:AA:204:A:O2'	1:AA:205:G:O5'	2.29	0.46
1:AA:2067:G:C2	1:AA:2069:G:N9	2.83	0.46
1:AA:2088:G:N1	1:AA:2089:U:C2	2.83	0.46
1:AA:2097:C:H2'	1:AA:2098:U:C4'	2.44	0.46
1:AA:2134:A:OP1	1:AA:2134:A:C2	2.68	0.46
1:AA:2136:C:N3	1:AA:2137:C:C5	2.84	0.46
1:AA:2152:G:P	3:AC:2:LYS:O	2.73	0.46
1:AA:2157:G:C2	1:AA:2157:G:OP2	2.69	0.46
1:AA:2176:A:H8	3:AC:221:SER:N	1.81	0.46
1:AA:2199:A:C5	1:AA:2205:C:C5	3.03	0.46
1:AA:2247:A:H8	1:AA:2247:A:O5'	1.97	0.46
1:AA:2285:C:O4'	1:AA:2288:A:C6	2.69	0.46
1:AA:2289:G:N3	1:AA:2289:G:H2'	2.30	0.46
1:AA:233:A:C5	1:AA:234:C:C5	3.03	0.46
1:AA:2407:G:H2'	1:AA:2407:G:N3	2.31	0.46
1:AA:2464:C:N3	1:AA:2465:C:C5	2.84	0.46
1:AA:2459:A:C6	1:AA:2493:U:C4	3.04	0.46
1:AA:2586:C:H3'	1:AA:2586:C:C6	2.51	0.46
1:AA:2596:U:C2'	4:AD:242:ARG:NE	2.75	0.46
1:AA:2646:C:N3	1:AA:2647:U:N3	2.63	0.46
1:AA:270(M):U:C3'	1:AA:270(N):G:H4'	2.44	0.46
1:AA:2759:G:C2	1:AA:2760:C:C6	3.04	0.46
1:AA:2850:A:OP2	1:AA:2866:U:C5	2.68	0.46
1:AA:2813:A:N1	1:AA:2888:C:N3	2.63	0.46
1:AA:2893:G:P	1:AA:2893:G:O4'	2.73	0.46
1:AA:297:C:H5''	20:AV:83:THR:CG2	2.46	0.46
1:AA:52:A:C4	1:AA:53:A:N7	2.83	0.46
1:AA:582:G:C6	1:AA:583:G:O6	2.69	0.46
1:AA:624:C:H6	1:AA:624:C:C5'	2.29	0.46
1:AA:727:A:O2'	1:AA:728:G:OP1	2.24	0.46
1:AA:586:A:C2	1:AA:810:U:O4'	2.69	0.46
1:AA:848:G:C8	1:AA:848:G:H5''	2.50	0.46
1:AA:858:U:O3'	1:AA:859:G:O4'	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:20:C:H2'	2:AB:21:G:O4'	2.15	0.46
2:AB:81:G:O6	2:AB:96:G:O6	2.33	0.46
4:AD:101:GLU:OE1	4:AD:102:LYS:O	2.33	0.46
4:AD:10:THR:O	4:AD:12:SER:OG	2.26	0.46
4:AD:148:GLU:OE1	4:AD:154:LYS:NZ	2.48	0.46
4:AD:183:ARG:NH2	4:AD:268:ARG:HH11	2.13	0.46
4:AD:18:VAL:O	4:AD:18:VAL:HG12	2.15	0.46
4:AD:252:TRP:HB3	4:AD:253:GLN:H	1.41	0.46
4:AD:257:LEU:HA	4:AD:257:LEU:HD23	1.61	0.46
4:AD:6:PHE:O	4:AD:27:THR:CA	2.44	0.46
5:AE:12:THR:HG21	5:AE:19:ARG:CZ	2.46	0.46
5:AE:15:PHE:O	5:AE:16:ARG:O	2.33	0.46
5:AE:199:ARG:O	5:AE:200:GLU:OE1	2.32	0.46
5:AE:102:VAL:CG2	5:AE:200:GLU:OE1	2.61	0.46
5:AE:32:PRO:HG3	5:AE:88:GLY:HA2	1.97	0.46
6:AF:169:ASN:HD22	6:AF:173:VAL:HG12	1.80	0.46
6:AF:123:LEU:CG	6:AF:191:ARG:HD3	2.45	0.46
1:AA:442:G:O4'	6:AF:46:ARG:HD2	2.16	0.46
7:AG:113:ARG:O	7:AG:114:ILE:CG2	2.62	0.46
1:AA:2305:A:C1'	7:AG:154:GLY:C	2.84	0.46
7:AG:19:LEU:O	7:AG:20:ILE:C	2.54	0.46
7:AG:47:LYS:CB	7:AG:53:LEU:HD11	2.35	0.46
7:AG:77:ILE:O	7:AG:78:SER:O	2.33	0.46
32:AJ:12:LEU:CD1	32:AJ:23:VAL:HG22	2.46	0.46
32:AJ:53:VAL:CG2	32:AJ:71:THR:O	2.64	0.46
32:AJ:76:TYR:CE2	32:AJ:80:LYS:CE	2.99	0.46
10:AL:112:MET:O	10:AL:113:LYS:C	2.50	0.46
10:AL:85:VAL:CB	10:AL:93:PRO:HG3	2.46	0.46
11:AM:138:LEU:HD11	11:AM:145:PRO:HG3	1.97	0.46
12:AN:27:VAL:HG13	12:AN:102:VAL:HG21	1.98	0.46
12:AN:56:ARG:NH1	12:AN:57:HIS:HA	2.31	0.46
1:AA:873:G:O2'	12:AN:65:PHE:CZ	2.59	0.46
12:AN:77:LYS:HG3	12:AN:88:GLY:O	2.15	0.46
15:AQ:34:VAL:CG2	15:AQ:36:GLU:HB2	2.45	0.46
15:AQ:48:ILE:CG2	15:AQ:50:ILE:HD11	2.46	0.46
17:AS:99:ILE:O	17:AS:100:ARG:O	2.33	0.46
17:AS:78:LYS:HE2	17:AS:84:LYS:CG	2.45	0.46
18:AT:10:VAL:CB	18:AT:12:ILE:HD11	2.45	0.46
18:AT:13:SER:OG	18:AT:16:LYS:HE3	2.14	0.46
19:AU:15:GLU:HB3	19:AU:16:LYS:HZ1	1.78	0.46
19:AU:29:TRP:CH2	19:AU:78:LYS:HE3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:31:LEU:CB	20:AV:32:PRO:CD	2.88	0.46
20:AV:74:PRO:CD	20:AV:76:CYS:O	2.63	0.46
21:AW:128:VAL:O	21:AW:129:SER:HB2	2.14	0.46
21:AW:18:LEU:HD22	21:AW:23:LYS:HG2	1.97	0.46
21:AW:45:ASP:O	21:AW:47:VAL:N	2.49	0.46
22:AX:37:LEU:HG	22:AX:38:VAL:H	1.81	0.46
22:AX:49:LYS:HB2	22:AX:80:HIS:ND1	2.30	0.46
24:AZ:23:LEU:HD12	24:AZ:50:VAL:HG21	1.97	0.46
34:BA:1128:C:O4'	34:BA:1148:U:O4	2.33	0.46
34:BA:1183:A:H2'	34:BA:1184:G:OP1	2.15	0.46
34:BA:1274:G:H2'	34:BA:1275:A:H8	1.78	0.46
34:BA:1312:G:N7	34:BA:1326:C:N3	2.61	0.46
34:BA:1508:G:O2'	34:BA:1509:C:C5'	2.63	0.46
34:BA:142:G:O2'	34:BA:196:A:C2	2.64	0.46
34:BA:27:G:OP2	34:BA:27:G:H8	1.98	0.46
34:BA:322:C:C2'	34:BA:323:U:H5'	2.46	0.46
34:BA:424:G:C2	34:BA:425:G:C8	3.04	0.46
34:BA:446:G:H2'	34:BA:447:G:H8	1.79	0.46
34:BA:25:C:H4'	34:BA:524:G:H21	1.79	0.46
34:BA:526:C:N4	34:BA:535:A:H2	2.07	0.46
34:BA:544:G:C4	34:BA:545:C:C5	3.03	0.46
34:BA:60:A:H61	34:BA:107:G:HO2'	1.63	0.46
34:BA:622:A:C2	34:BA:623:C:C1'	2.98	0.46
34:BA:593:G:C6	34:BA:647:C:N3	2.83	0.46
34:BA:691:G:N2	44:BO:51:LYS:HZ2	2.13	0.46
34:BA:692:U:O2	34:BA:694:A:H8	1.99	0.46
34:BA:711:G:C2'	34:BA:712:A:O5'	2.63	0.46
34:BA:734:G:H8	34:BA:734:G:OP1	1.99	0.46
34:BA:93:U:H2'	34:BA:95:G:N7	2.31	0.46
34:BA:958:A:H2'	34:BA:959:A:O4'	2.16	0.46
34:BA:981:U:H6	34:BA:981:U:C3'	2.26	0.46
35:BF:168:THR:O	35:BF:169:LYS:HB2	2.15	0.46
36:BG:84:ILE:HG13	36:BG:101:LEU:CG	2.46	0.46
36:BG:88:ARG:N	36:BG:101:LEU:HD12	2.30	0.46
37:BH:98:GLU:O	37:BH:103:ASN:CB	2.63	0.46
39:BJ:11:ASN:HB2	39:BJ:84:ASN:HB3	1.97	0.46
39:BJ:16:GLN:CG	39:BJ:17:SER:H	2.25	0.46
40:BK:113:GLU:HB3	40:BK:118:VAL:HG11	1.98	0.46
40:BK:68:ASN:ND2	40:BK:128:ALA:CA	2.78	0.46
40:BK:38:LEU:O	40:BK:42:ILE:HG13	2.15	0.46
41:BL:101:PRO:O	41:BL:102:ARG:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:114:THR:H	41:BL:119:LEU:HD23	1.81	0.46
41:BL:15:ASN:HD22	41:BL:15:ASN:N	2.13	0.46
41:BL:40:ALA:HB2	41:BL:45:ILE:HD13	1.97	0.46
41:BL:51:VAL:HG21	41:BL:60:ARG:HE	1.81	0.46
41:BL:63:LEU:HD23	41:BL:63:LEU:C	2.36	0.46
41:BL:20:TYR:CE2	41:BL:75:ARG:HD2	2.50	0.46
41:BL:97:VAL:CG1	41:BL:98:LYS:HZ1	2.28	0.46
34:BA:1060:C:C4'	43:BN:52:GLY:HA2	2.45	0.46
43:BN:97:GLU:C	43:BN:98:ILE:HD12	2.36	0.46
44:BO:79:SER:HA	44:BO:104:GLN:NE2	2.31	0.46
44:BO:22:HIS:CD2	44:BO:23:ALA:N	2.83	0.46
45:BP:46:LYS:CE	45:BP:47:LYS:NZ	2.75	0.46
45:BP:86:ARG:HH22	45:BP:119:LYS:HD3	1.80	0.46
46:BQ:96:LEU:HD13	46:BQ:103:THR:CG2	2.45	0.46
46:BQ:65:LYS:HA	46:BQ:66:LEU:C	2.35	0.46
47:BR:16:PHE:C	47:BR:18:VAL:N	2.67	0.46
49:BT:27:LYS:HZ1	49:BT:27:LYS:N	2.13	0.46
50:BU:56:VAL:C	50:BU:57:VAL:HG12	2.36	0.46
50:BU:5:VAL:CG1	50:BU:6:LEU:H	2.27	0.46
50:BU:75:ARG:HG2	50:BU:75:ARG:NH1	2.30	0.46
51:BV:22:VAL:HG22	51:BV:55:ARG:HH12	1.80	0.46
44:BO:84:VAL:HG11	51:BV:88:LYS:HE2	1.98	0.46
52:BW:80:TYR:CE1	52:BW:81:ARG:HG3	2.49	0.46
34:BA:1353:G:OP2	54:BY:3:LYS:NZ	2.47	0.46
57:BZ:10:ILE:O	57:BZ:11:ILE:O	2.34	0.46
57:BZ:132:ARG:CB	57:BZ:133:PRO:CD	2.93	0.46
57:BZ:338:GLU:C	57:BZ:340:VAL:H	2.17	0.46
57:BZ:564:THR:HG22	57:BZ:566:GLU:OE1	2.15	0.46
57:BZ:569:LEU:HA	57:BZ:578:VAL:HG21	1.96	0.46
57:BZ:22:VAL:HB	57:BZ:56:ILE:HG13	1.98	0.46
57:BZ:58:ALA:HB3	57:BZ:60:ASN:HD21	1.80	0.46
20:AV:42:VAL:N	20:AV:61:ILE:CB	2.68	0.46
7:AG:91:ARG:CG	7:AG:91:ARG:NH2	2.78	0.46
57:BZ:574:ASP:OD2	57:BZ:575:ASP:N	2.43	0.46
37:BH:194:LEU:N	37:BH:194:LEU:CD2	2.67	0.46
34:BA:1533:C:H2'	34:BA:1534:A:O5'	2.15	0.46
1:AA:1232:G:C2	1:AA:1233:C:C6	3.04	0.46
34:BA:928:G:H4'	34:BA:1532:U:H5''	1.98	0.46
34:BA:1121:U:C6	34:BA:1121:U:O5'	2.68	0.46
1:AA:1052:C:HO2'	1:AA:1053:C:H5'	1.76	0.46
1:AA:1141:U:H5'	1:AA:1142(A):A:N6	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1140:C:H2'	1:AA:1141:U:OP2	2.15	0.46
1:AA:1221:C:N4	1:AA:1229:G:O6	2.49	0.46
1:AA:122:G:N2	1:AA:130:C:H1'	2.30	0.46
1:AA:1322:A:H2'	1:AA:1323:U:C5'	2.45	0.46
1:AA:1397:U:O2	1:AA:1397:U:H2'	2.15	0.46
1:AA:1410:G:C2	1:AA:1593:G:C2	3.04	0.46
1:AA:1437:C:O2'	1:AA:1516:U:O2'	2.01	0.46
1:AA:1388:G:H4'	1:AA:1524:G:HO2'	1.81	0.46
1:AA:1534:G:N3	1:AA:1536:A:N7	2.63	0.46
1:AA:1556:C:O2'	1:AA:1557:C:H5'	2.16	0.46
1:AA:1683:C:C2'	1:AA:1684:C:O5'	2.64	0.46
1:AA:1700:A:HO2'	1:AA:1701:A:P	2.35	0.46
1:AA:1819:A:H5''	4:AD:178:PRO:HB3	1.95	0.46
1:AA:1827:C:H5'	1:AA:1971:A:H4'	1.97	0.46
1:AA:1878:G:C5	1:AA:1879:C:C5	3.03	0.46
1:AA:1992:G:C2'	1:AA:1993:U:H5	2.27	0.46
1:AA:2107:C:C5'	1:AA:2108:C:O5'	2.63	0.46
1:AA:2125:G:O5'	3:AC:217:THR:OG1	2.34	0.46
1:AA:2133:G:O6	1:AA:2157:G:C8	2.68	0.46
1:AA:2323:G:C4	1:AA:2324:C:C5	3.03	0.46
1:AA:2352:A:C8	1:AA:2366:A:C6	3.04	0.46
1:AA:2371:G:H2'	1:AA:2372:G:C8	2.49	0.46
1:AA:2343:C:H4'	1:AA:2373:G:O3'	2.14	0.46
1:AA:416:C:C2	1:AA:2407:G:O6	2.69	0.46
1:AA:2425:A:OP1	1:AA:2427:C:O4'	2.34	0.46
1:AA:2439:A:C4'	1:AA:2440:C:O5'	2.63	0.46
1:AA:2497:A:C3'	1:AA:2497:A:C8	2.96	0.46
1:AA:2553:G:N3	1:AA:2553:G:H2'	2.31	0.46
1:AA:2599:G:C2'	1:AA:2600:A:H5'	2.46	0.46
1:AA:2670:A:C2'	1:AA:2671:A:H8	2.25	0.46
1:AA:2696:U:O2'	1:AA:2697:G:C5'	2.63	0.46
1:AA:278:A:O2'	1:AA:279:C:C1'	2.63	0.46
1:AA:2825:C:N3	1:AA:2826:A:C5	2.84	0.46
1:AA:2834:G:C3'	1:AA:2834:G:C8	2.99	0.46
1:AA:284:U:H3'	1:AA:284:U:P	2.56	0.46
1:AA:28:A:C2	1:AA:29:U:O2'	2.61	0.46
1:AA:297:C:C5'	20:AV:83:THR:CG2	2.93	0.46
58:AA:3001:NMY:H91	58:AA:3001:NMY:C1	2.29	0.46
1:AA:333:G:C2	1:AA:334:C:C6	3.03	0.46
1:AA:349:G:C6	1:AA:350:U:O4	2.68	0.46
1:AA:270(C):C:P	1:AA:365:C:HO2'	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:473:G:N2	1:AA:474:G:C4	2.83	0.46
1:AA:669:G:C6	1:AA:801:G:C6	3.03	0.46
1:AA:723:G:HO2'	1:AA:724:U:C5'	2.27	0.46
1:AA:813:U:H2'	1:AA:814:C:C6	2.51	0.46
1:AA:880:G:C5	1:AA:897:C:O2	2.67	0.46
1:AA:959:A:C6	1:AA:960:A:C6	3.03	0.46
1:AA:961:C:N4	1:AA:2031:A:C4	2.81	0.46
1:AA:975:G:C2	1:AA:976:C:C6	2.99	0.46
1:AA:986:C:H3'	1:AA:986:C:C6	2.51	0.46
2:AB:15:A:N3	2:AB:109:G:H1'	2.30	0.46
2:AB:75:G:N3	21:AW:85:HIS:CE1	2.84	0.46
2:AB:83:G:H21	2:AB:84:C:C1'	2.29	0.46
3:AC:113:VAL:O	3:AC:144:THR:HG22	2.15	0.46
3:AC:61:THR:HG21	3:AC:160:ARG:CZ	2.46	0.46
3:AC:87:GLU:HG3	3:AC:94:VAL:CB	2.46	0.46
4:AD:120:GLY:H	4:AD:131:LEU:CD1	2.29	0.46
4:AD:61:LEU:O	4:AD:62:TYR:HB2	2.16	0.46
1:AA:2032:G:O2'	5:AE:145:LYS:HD2	2.16	0.46
5:AE:154:LYS:CD	5:AE:154:LYS:C	2.80	0.46
5:AE:187:ALA:O	5:AE:189:PRO:N	2.49	0.46
5:AE:38:THR:HG22	5:AE:39:PRO:CD	2.46	0.46
5:AE:4:ILE:CD1	5:AE:76:ARG:CZ	2.81	0.46
6:AF:12:LEU:HD22	6:AF:128:ALA:HA	1.98	0.46
6:AF:157:VAL:O	6:AF:158:THR:CB	2.63	0.46
8:AH:11:VAL:HG11	8:AH:45:VAL:HG11	1.98	0.46
8:AH:25:LYS:HE3	8:AH:34:GLU:OE2	2.16	0.46
32:AJ:55:VAL:H	32:AJ:56:GLU:CB	2.28	0.46
32:AJ:55:VAL:H	32:AJ:56:GLU:HA	1.79	0.46
9:AK:109:LYS:CE	9:AK:111:PRO:HD2	2.45	0.46
1:AA:637:A:OP2	11:AM:131:SER:HB3	2.16	0.46
1:AA:661:C:C5'	11:AM:15:ARG:HH11	2.26	0.46
11:AM:52:GLU:N	11:AM:55:ARG:HG3	2.31	0.46
12:AN:46:GLN:HG2	12:AN:125:LEU:HD22	1.97	0.46
12:AN:49:ALA:O	12:AN:52:VAL:HB	2.16	0.46
12:AN:97:VAL:CA	12:AN:98:LYS:HE2	2.45	0.46
13:AO:103:ARG:HB2	13:AO:108:GLY:HA2	1.97	0.46
13:AO:53:HIS:C	13:AO:53:HIS:ND1	2.68	0.46
13:AO:26:LYS:NZ	13:AO:70:LEU:O	2.32	0.46
14:AP:49:VAL:HG22	14:AP:50:SER:N	2.31	0.46
17:AS:4:ILE:HD12	17:AS:4:ILE:H	1.77	0.46
17:AS:74:LYS:C	17:AS:75:PHE:CG	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:21:VAL:CG1	18:AT:75:TYR:CD2	2.99	0.46
18:AT:20:VAL:CG2	18:AT:47:VAL:HG11	2.46	0.46
19:AU:57:LEU:C	19:AU:57:LEU:HD23	2.35	0.46
20:AV:12:THR:CG2	20:AV:13:VAL:H	2.05	0.46
20:AV:2:ARG:HE	20:AV:4:LYS:H	1.64	0.46
20:AV:74:PRO:HD2	20:AV:76:CYS:O	2.15	0.46
20:AV:83:THR:HG21	20:AV:84:ARG:NH1	2.30	0.46
21:AW:130:PRO:O	21:AW:132:ASN:N	2.49	0.46
21:AW:102:LEU:CD2	21:AW:137:ILE:HB	2.40	0.46
21:AW:150:LEU:C	21:AW:151:HIS:CG	2.89	0.46
22:AX:50:ASN:CB	22:AX:63:VAL:HG22	2.46	0.46
23:AY:23:LYS:HZ2	23:AY:23:LYS:HB3	1.80	0.46
34:BA:1058:G:H21	43:BN:53:PRO:HG3	1.81	0.46
34:BA:1114:C:N3	34:BA:1115:C:C5	2.84	0.46
34:BA:1188:A:C2	34:BA:1189:C:C2	3.03	0.46
34:BA:122:G:O5'	34:BA:122:G:H8	1.97	0.46
34:BA:1405:G:N3	34:BA:1406:U:C5	2.84	0.46
34:BA:1510:U:C2'	34:BA:1511:G:H8	2.22	0.46
34:BA:209:U:C6	34:BA:209:U:OP2	2.68	0.46
34:BA:265:G:N9	34:BA:267:C:C5	2.83	0.46
34:BA:444:C:O2'	34:BA:445:G:H5'	2.14	0.46
34:BA:539:A:C6	34:BA:540:G:C6	3.04	0.46
34:BA:577:G:O2'	34:BA:578:C:O5'	2.22	0.46
34:BA:666:G:N2	34:BA:741:G:H1'	2.30	0.46
34:BA:670:G:C6	34:BA:671:G:C8	3.03	0.46
34:BA:802:A:H2'	34:BA:803:G:O4'	2.15	0.46
34:BA:866:C:H6	34:BA:867:G:C1'	2.27	0.46
34:BA:586:C:H1'	34:BA:878:G:O2'	2.16	0.46
34:BA:965:A:O2'	34:BA:966:G:P	2.74	0.46
34:BA:976:G:C4	34:BA:1363:A:N6	2.84	0.46
1:AA:2112:G:O6	55:BC:19:G:N2	2.48	0.46
35:BF:104:ASN:O	35:BF:107:THR:HB	2.15	0.46
35:BF:118:LEU:HD12	35:BF:145:LEU:HD23	1.97	0.46
35:BF:179:LYS:C	35:BF:181:PHE:H	2.18	0.46
35:BF:193:ASP:CG	35:BF:196:LEU:HD11	2.34	0.46
35:BF:80:ILE:CG1	35:BF:212:GLN:HG2	2.45	0.46
35:BF:216:SER:O	35:BF:220:ASP:OD1	2.33	0.46
35:BF:234:PRO:HB2	35:BF:238:LEU:CD2	2.45	0.46
35:BF:33:TYR:CB	35:BF:43:ASP:HB2	2.45	0.46
36:BG:156:ARG:O	36:BG:157:ILE:C	2.54	0.46
36:BG:63:ASN:O	36:BG:64:VAL:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:64:VAL:O	36:BG:65:ALA:C	2.54	0.46
36:BG:96:GLY:O	36:BG:97:LYS:C	2.53	0.46
37:BH:112:VAL:N	37:BH:116:GLN:OE1	2.42	0.46
37:BH:149:ALA:O	37:BH:150:GLU:O	2.34	0.46
37:BH:88:VAL:HG12	37:BH:91:SER:H	1.80	0.46
38:BI:112:LEU:HA	38:BI:112:LEU:HD22	1.78	0.46
39:BJ:30:LEU:C	39:BJ:35:ALA:HB3	2.35	0.46
40:BK:121:ALA:O	40:BK:122:HIS:C	2.52	0.46
40:BK:17:VAL:HG21	40:BK:44:TYR:CZ	2.50	0.46
40:BK:78:ARG:NE	40:BK:80:VAL:HG23	2.26	0.46
42:BM:46:ALA:HB1	42:BM:77:ILE:CG2	2.45	0.46
45:BP:34:ARG:HD3	45:BP:105:TYR:CZ	2.50	0.46
45:BP:11:VAL:HG22	50:BU:32:TYR:CD1	2.47	0.46
45:BP:92:ASP:CA	45:BP:93:LEU:HD23	2.45	0.46
46:BQ:108:ARG:NH2	46:BQ:111:LYS:HD3	2.30	0.46
47:BR:36:PHE:CE2	47:BR:37:PHE:CE1	3.03	0.46
48:BS:66:LEU:H	48:BS:66:LEU:CD2	2.29	0.46
49:BT:71:ARG:NH1	49:BT:71:ARG:CB	2.78	0.46
50:BU:60:ILE:HD13	50:BU:62:SER:CB	2.45	0.46
51:BV:21:LYS:HE2	51:BV:23:LYS:HB3	1.97	0.46
51:BV:52:PRO:C	51:BV:54:ARG:N	2.67	0.46
53:BX:60:GLU:OE1	53:BX:81:LYS:HD3	2.15	0.46
53:BX:81:LYS:O	53:BX:84:LEU:N	2.49	0.46
54:BY:3:LYS:NZ	54:BY:13:ILE:HG21	2.31	0.46
57:BZ:205:PHE:CE2	57:BZ:207:MET:CB	2.97	0.46
57:BZ:382:VAL:HA	57:BZ:383:SER:C	2.35	0.46
57:BZ:569:LEU:HG	57:BZ:578:VAL:HG21	1.96	0.46
57:BZ:6:ARG:N	57:BZ:69:ARG:HB3	2.27	0.46
57:BZ:84:GLU:CG	57:BZ:85:VAL:N	2.73	0.46
55:BC:7:A:O2'	55:BC:49:C:OP2	2.21	0.46
1:AA:2186:G:N2	1:AA:2187:G:C5	2.84	0.46
1:AA:1767:C:O2'	1:AA:1768:U:H5'	2.16	0.46
1:AA:273(E):U:C2	1:AA:363(B):G:C2	3.03	0.46
34:BA:614:A:H2'	34:BA:615:C:C6	2.51	0.46
31:AI:4:LYS:HA	31:AI:5:ARG:HA	1.70	0.46
1:AA:1023:U:O4	1:AA:1024:G:H1'	2.14	0.46
1:AA:1031:G:C2	1:AA:1032:A:C5	3.03	0.46
1:AA:1212:G:C3'	1:AA:1212:G:C8	2.99	0.46
1:AA:1228:G:N1	1:AA:1229:G:C5	2.84	0.46
1:AA:1203:G:C5	1:AA:1240:U:C4	3.04	0.46
1:AA:1256:G:H2'	1:AA:1257:C:O5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:C:H2'	1:AA:145:G:C5'	2.45	0.46
1:AA:1493:C:N4	1:AA:1499:C:C2	2.82	0.46
1:AA:1515:C:C6	1:AA:1515:C:P	3.08	0.46
1:AA:1521:G:C3'	1:AA:1522:G:C5'	2.94	0.46
1:AA:1537:C:C2'	1:AA:1538:G:H5'	2.41	0.46
1:AA:1650:G:C2	1:AA:1651:G:C1'	2.98	0.46
1:AA:1651:G:O2'	1:AA:1652:A:C1'	2.64	0.46
1:AA:1691:C:O2	1:AA:1691:C:H2'	2.15	0.46
1:AA:1702:G:C2'	1:AA:1703:G:C5'	2.79	0.46
1:AA:1704:G:C2'	1:AA:1705:G:O5'	2.63	0.46
1:AA:1707:G:N3	1:AA:1708:C:C6	2.84	0.46
1:AA:1883:G:H5''	1:AA:1884:A:OP1	2.15	0.46
1:AA:1949:G:C2'	1:AA:1950:G:O4'	2.61	0.46
1:AA:2010:G:C5	1:AA:2011:U:C6	3.04	0.46
1:AA:2071:A:C2	1:AA:2441:C:C4	3.03	0.46
1:AA:2077:A:O2'	1:AA:2434:A:H4'	2.15	0.46
1:AA:2092:U:O2	1:AA:2092:U:H2'	2.15	0.46
1:AA:2275:C:O2'	1:AA:2276:G:OP2	2.25	0.46
1:AA:2306:C:N4	1:AA:2311:A:C2	2.83	0.46
1:AA:236:C:C2	1:AA:237:C:C5	3.03	0.46
1:AA:237:C:N3	1:AA:238:C:C5	2.83	0.46
1:AA:2478:A:C5	1:AA:2479:G:C8	3.04	0.46
1:AA:2503:A:O2'	1:AA:2504:U:P	2.73	0.46
1:AA:2519:U:C2'	1:AA:2519:U:O2	2.63	0.46
1:AA:2548:G:C6	1:AA:2549:G:C5	3.03	0.46
1:AA:2591:C:C2	1:AA:2592:G:C8	3.04	0.46
1:AA:2720:U:O4	1:AA:2872:G:C5	2.67	0.46
1:AA:2732:G:C8	1:AA:2732:G:OP2	2.68	0.46
1:AA:2781:A:H2'	1:AA:2782:G:C4'	2.46	0.46
1:AA:2805:G:C3'	1:AA:2807:G:C4'	2.93	0.46
1:AA:2805:G:H5'	1:AA:2807:G:OP2	2.16	0.46
1:AA:2851:A:H2'	1:AA:2852:G:O5'	2.15	0.46
1:AA:2866:U:O2	1:AA:2868:A:H1'	2.16	0.46
1:AA:2876:G:N3	1:AA:2877:G:C8	2.84	0.46
1:AA:2877:G:C3'	1:AA:2878:U:C6	2.94	0.46
1:AA:1907:G:C6	58:AA:3001:NMY:C8	2.93	0.46
1:AA:304:G:O2'	1:AA:305:U:H5'	2.15	0.46
1:AA:323:G:C6	1:AA:333:G:C8	3.03	0.46
1:AA:380:U:O2'	1:AA:381:G:H5'	2.16	0.46
1:AA:470:A:N3	1:AA:471:A:C1'	2.76	0.46
1:AA:496:G:O6	1:AA:497:A:C6	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:607:U:H5	1:AA:620:G:H21	1.64	0.46
1:AA:748:G:P	18:AT:88:ARG:NE	2.88	0.46
1:AA:76:C:H4'	23:AY:54:ARG:NH2	2.27	0.46
1:AA:800:A:C5	1:AA:802:A:O4'	2.69	0.46
1:AA:837:C:H6	1:AA:837:C:O5'	1.99	0.46
1:AA:856:C:O4'	22:AX:69:PHE:HD1	1.99	0.46
1:AA:903:C:C2'	21:AW:169:GLU:OE2	2.63	0.46
1:AA:972:G:OP1	1:AA:974(A):C:C3'	2.61	0.46
1:AA:976:C:C4'	1:AA:1156:A:N7	2.78	0.46
1:AA:986:C:O5'	1:AA:986:C:C6	2.67	0.46
1:AA:997:G:C2	1:AA:998:C:C4	3.04	0.46
2:AB:24:G:C5'	2:AB:25:A:H5'	2.45	0.46
2:AB:48:A:OP1	14:AP:92:TYR:CB	2.63	0.46
2:AB:73:A:N3	2:AB:74:U:C6	2.83	0.46
2:AB:9:G:C2	2:AB:10:C:C5	3.04	0.46
3:AC:8:ARG:NH1	3:AC:11:LEU:CD2	2.78	0.46
3:AC:129:ARG:C	3:AC:130:ILE:HD12	2.35	0.46
4:AD:199:ALA:O	4:AD:202:LYS:CB	2.60	0.46
4:AD:246:PRO:CG	4:AD:252:TRP:HA	2.44	0.46
5:AE:172:VAL:HA	5:AE:184:VAL:CG1	2.43	0.46
5:AE:59:VAL:HB	5:AE:62:PRO:HG2	1.97	0.46
5:AE:2:LYS:CD	5:AE:83:ASP:CB	2.94	0.46
6:AF:118:ALA:HA	6:AF:122:LYS:HZ3	1.81	0.46
6:AF:133:ASN:HD22	6:AF:133:ASN:HA	1.45	0.46
1:AA:323:G:C8	6:AF:170:LEU:HB2	2.51	0.46
6:AF:182:ASN:ND2	6:AF:185:ASP:CG	2.67	0.46
1:AA:2060:A:OP2	6:AF:72:ARG:HA	2.16	0.46
7:AG:107:LEU:HG	7:AG:177:GLY:O	2.16	0.46
7:AG:165:THR:HB	7:AG:168:GLU:OE2	2.15	0.46
7:AG:82:LEU:CD2	56:BE:52:G:OP1	2.64	0.46
31:AI:30:GLN:C	31:AI:32:LEU:H	2.18	0.46
32:AJ:108:ALA:HB2	32:AJ:111:LYS:HB2	1.95	0.46
32:AJ:112:MET:HE1	32:AJ:121:GLU:C	2.35	0.46
32:AJ:123:ALA:C	32:AJ:127:ILE:HG13	2.35	0.46
9:AK:15:LEU:HD11	9:AK:137:LYS:O	2.14	0.46
9:AK:31:ALA:O	9:AK:34:LEU:N	2.48	0.46
9:AK:69:GLN:NE2	9:AK:69:GLN:H	2.14	0.46
10:AL:32:TYR:O	10:AL:34:THR:OG1	2.30	0.46
11:AM:114:ILE:CG1	11:AM:123:LEU:HB2	2.46	0.46
11:AM:125:VAL:O	11:AM:130:PHE:HZ	1.98	0.46
12:AN:118:LEU:O	12:AN:119:ARG:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:61:HIS:CE1	13:AO:64:ARG:HE	2.33	0.46
13:AO:87:TYR:CD2	13:AO:87:TYR:N	2.83	0.46
14:AP:39:ILE:HD11	14:AP:76:LYS:CE	2.46	0.46
14:AP:82:ILE:HG13	14:AP:84:GLN:HE22	1.80	0.46
10:AL:122:LEU:HA	15:AQ:71:GLY:HA3	1.97	0.46
16:AR:52:ARG:C	16:AR:54:LYS:H	2.19	0.46
17:AS:7:THR:C	17:AS:9:GLY:N	2.69	0.46
18:AT:25:ARG:O	18:AT:71:VAL:CG1	2.64	0.46
19:AU:53:LYS:O	19:AU:81:VAL:HA	2.16	0.46
19:AU:87:GLN:CD	19:AU:87:GLN:N	2.68	0.46
21:AW:39:VAL:HA	21:AW:44:PHE:CE1	2.50	0.46
23:AY:23:LYS:NZ	23:AY:23:LYS:HB3	2.30	0.46
24:AZ:10:LYS:NZ	24:AZ:12:PRO:CD	2.79	0.46
34:BA:1170:A:N7	34:BA:1171:G:C5	2.84	0.46
34:BA:1116:C:O2	34:BA:1185:G:C6	2.69	0.46
34:BA:1277:C:H2'	34:BA:1279:A:H8	1.80	0.46
34:BA:133:U:C4'	34:BA:134:A:OP1	2.64	0.46
34:BA:1390:U:C4	34:BA:1391:U:O4	2.68	0.46
34:BA:1400:C:H1'	56:BE:34:G:O6	2.15	0.46
34:BA:1459:C:C2'	34:BA:1460:A:H5'	2.46	0.46
15:AQ:112:ARG:HH22	34:BA:1465:C:P	2.38	0.46
34:BA:1494:G:H22	34:BA:1496:C:H41	1.61	0.46
34:BA:184:G:H4'	34:BA:224:C:O3'	2.16	0.46
34:BA:251:G:N3	34:BA:266:G:C6	2.83	0.46
34:BA:258:G:N1	34:BA:259:G:C5	2.84	0.46
34:BA:323:U:O2	34:BA:329:A:N6	2.49	0.46
34:BA:370:C:C2'	34:BA:371:G:H5'	2.46	0.46
34:BA:390:C:C2'	34:BA:391:G:O5'	2.64	0.46
34:BA:538:G:OP1	45:BP:114:LYS:HB2	2.16	0.46
34:BA:573:A:N1	34:BA:574:A:C6	2.83	0.46
34:BA:575:G:C6	34:BA:821:G:N7	2.83	0.46
34:BA:579:G:HO2'	34:BA:580:U:H5'	1.81	0.46
34:BA:623:C:H2'	34:BA:624:C:H6	1.79	0.46
34:BA:87:A:C8	34:BA:88:C:N1	2.84	0.46
34:BA:89:U:H6	34:BA:89:U:O5'	1.99	0.46
34:BA:92:G:C2	34:BA:93:U:C2	3.03	0.46
56:BE:21:A:C2	56:BE:46:G:N1	2.83	0.46
42:BM:127:LYS:HZ1	56:BE:30:G:H4'	1.78	0.46
35:BF:32:ILE:HD12	35:BF:190:THR:CG2	2.46	0.46
36:BG:30:ARG:NH1	36:BG:31:HIS:HB2	2.31	0.46
36:BG:39:ILE:O	36:BG:40:ARG:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:144:ASP:HA	37:BH:184:LYS:HZ3	1.80	0.46
37:BH:64:LEU:CD1	37:BH:65:ARG:N	2.76	0.46
38:BI:114:GLY:C	38:BI:115:VAL:HG13	2.36	0.46
38:BI:79:GLU:CG	38:BI:93:PRO:CD	2.89	0.46
40:BK:37:ASN:O	40:BK:38:LEU:C	2.53	0.46
40:BK:3:ARG:C	40:BK:4:ARG:HG2	2.36	0.46
41:BL:102:ARG:HE	41:BL:105:ARG:HD2	1.81	0.46
41:BL:104:ARG:HE	41:BL:138:TRP:HZ3	1.62	0.46
41:BL:10:LEU:CD2	41:BL:135:CYS:SG	3.04	0.46
41:BL:14:ARG:C	41:BL:14:ARG:HD2	2.35	0.46
41:BL:6:ILE:CG2	41:BL:85:ARG:NH1	2.78	0.46
41:BL:82:HIS:CD2	41:BL:138:TRP:NE1	2.83	0.46
42:BM:31:GLN:HB3	42:BM:35:GLU:OE2	2.15	0.46
43:BN:47:PHE:HZ	43:BN:65:LEU:HB2	1.80	0.46
34:BA:1058:G:N2	43:BN:53:PRO:HG3	2.31	0.46
44:BO:32:ILE:HD13	44:BO:72:ALA:HA	1.97	0.46
44:BO:32:ILE:O	44:BO:39:PRO:HB2	2.16	0.46
45:BP:117:ARG:NH1	45:BP:117:ARG:CG	2.74	0.46
45:BP:26:ALA:HA	45:BP:98:TYR:CE2	2.51	0.46
46:BQ:20:THR:OG1	46:BQ:26:GLY:C	2.54	0.46
34:BA:1328:C:OP1	46:BQ:28:ALA:HB1	2.16	0.46
49:BT:71:ARG:CZ	49:BT:71:ARG:HB2	2.46	0.46
50:BU:17:LYS:HE3	50:BU:48:GLU:CA	2.44	0.46
52:BW:30:LEU:N	52:BW:48:THR:O	2.48	0.46
52:BW:4:SER:CA	52:BW:5:LEU:CB	2.86	0.46
57:BZ:2:ILE:CD1	57:BZ:266:ASP:OD2	2.62	0.46
57:BZ:305:PRO:HB3	57:BZ:361:ARG:CD	2.44	0.46
57:BZ:569:LEU:C	57:BZ:569:LEU:HD23	2.35	0.46
57:BZ:557:LEU:O	57:BZ:557:LEU:HD12	2.15	0.46
1:AA:1483:G:C4	1:AA:1507:A:C2	3.04	0.46
46:BQ:47:ASP:O	46:BQ:49:THR:N	2.49	0.46
1:AA:1094:U:O2	1:AA:1097:U:H5	1.99	0.46
1:AA:1105:U:C6	1:AA:1107:G:C6	3.03	0.46
1:AA:1021:A:O2'	1:AA:1123:C:H5''	2.16	0.46
1:AA:1128:A:O2'	1:AA:1129:A:C5'	2.64	0.46
1:AA:1183:G:C1'	1:AA:1184:G:C8	2.93	0.46
1:AA:1197:G:C4	1:AA:1198:U:C6	3.03	0.46
1:AA:1210:A:H4'	1:AA:1211:U:O5'	2.14	0.46
1:AA:1213:A:H3'	1:AA:1214:A:H8	1.81	0.46
1:AA:1698:A:O2'	1:AA:1699:G:O3'	2.27	0.46
1:AA:1831:G:C6	1:AA:1832:C:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1932:A:H3'	1:AA:1933:G:H8	1.81	0.46
1:AA:1953:A:N6	1:AA:2550:G:C5'	2.78	0.46
1:AA:1964:G:C5	1:AA:1967:C:H5	2.34	0.46
1:AA:2025:C:C2	1:AA:2026:C:C5	3.04	0.46
1:AA:2033:A:O5'	1:AA:2033:A:H8	1.99	0.46
1:AA:2182:G:H2'	1:AA:2183:C:H6	1.80	0.46
1:AA:641:C:O2'	1:AA:2350:C:OP1	2.24	0.46
1:AA:2377:A:H2'	1:AA:2378:A:N7	2.31	0.46
1:AA:2259:G:C4'	1:AA:2427:C:H2'	2.46	0.46
1:AA:2459:A:N7	1:AA:2493:U:O4	2.49	0.46
1:AA:2636:U:O2'	5:AE:79:ARG:NH2	2.48	0.46
1:AA:270(M):U:O3'	1:AA:270(N):G:H4'	2.16	0.46
1:AA:270(N):G:H3'	1:AA:270(O):U:C5	2.50	0.46
1:AA:2745:C:N4	1:AA:2746:U:O4	2.49	0.46
1:AA:2756:U:O2'	1:AA:2757:A:H5''	2.16	0.46
1:AA:2811:G:N1	1:AA:2891:G:N3	2.64	0.46
1:AA:2863:C:O2	1:AA:2864:G:C8	2.69	0.46
1:AA:298:G:P	1:AA:298:G:H8	2.38	0.46
1:AA:304:G:N2	1:AA:305:U:H1'	2.30	0.46
1:AA:294:A:N6	1:AA:345:A:C6	2.83	0.46
1:AA:370:G:O2'	1:AA:371:A:O4'	2.25	0.46
1:AA:375:C:O2	1:AA:375:C:C2'	2.62	0.46
1:AA:389:G:C8	1:AA:389:G:OP1	2.69	0.46
1:AA:269:U:C2	1:AA:424:G:N1	2.84	0.46
1:AA:465:G:C6	1:AA:466:A:C6	3.04	0.46
1:AA:566:U:H6	1:AA:567:A:C8	2.32	0.46
1:AA:611:C:O2	1:AA:612:G:H1'	2.16	0.46
1:AA:629:G:H5'	1:AA:649:G:N2	2.30	0.46
1:AA:657:U:C2	1:AA:658:C:C5	3.04	0.46
1:AA:695:G:C5	1:AA:768:G:C6	3.03	0.46
1:AA:749:C:OP2	18:AT:88:ARG:NH1	2.48	0.46
1:AA:820:A:H2	1:AA:944:G:OP1	1.98	0.46
1:AA:878:A:C2	1:AA:879:G:H3'	2.49	0.46
1:AA:905:U:C4	1:AA:906:G:C8	3.04	0.46
1:AA:930:U:C2'	1:AA:931:G:OP2	2.64	0.46
2:AB:32:C:O2	2:AB:33:G:C8	2.69	0.46
1:AA:2174:C:N3	3:AC:219:GLY:CA	2.75	0.46
3:AC:65:PRO:HD2	3:AC:187:ASP:OD2	2.13	0.46
4:AD:252:TRP:CA	4:AD:252:TRP:CE3	2.98	0.46
4:AD:181:GLU:CB	4:AD:268:ARG:NE	2.75	0.46
4:AD:33:LEU:HD11	4:AD:61:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:72:LYS:O	4:AD:73:VAL:C	2.53	0.46
5:AE:119:ARG:CD	5:AE:156:MET:H	2.25	0.46
5:AE:108:SER:HG	5:AE:164:ARG:CA	2.29	0.46
6:AF:160:ASN:O	6:AF:163:VAL:CB	2.49	0.46
6:AF:201:VAL:HA	6:AF:204:ASN:HD21	1.80	0.46
6:AF:39:TRP:HB2	6:AF:101:LEU:HG	1.95	0.46
1:AA:588:U:H1'	6:AF:90:PHE:CG	2.51	0.46
7:AG:42:GLY:O	7:AG:43:LEU:O	2.34	0.46
7:AG:92:VAL:O	7:AG:92:VAL:HG12	2.15	0.46
8:AH:163:TYR:CD1	8:AH:163:TYR:N	2.83	0.46
8:AH:43:VAL:CG1	8:AH:51:ARG:O	2.52	0.46
9:AK:107:LEU:HD13	9:AK:117:PHE:CD1	2.50	0.46
9:AK:115:ARG:HA	9:AK:118:LYS:HE3	1.96	0.46
9:AK:13:TRP:O	9:AK:138:LEU:CD1	2.62	0.46
9:AK:18:ALA:O	9:AK:19:GLU:C	2.53	0.46
9:AK:58:ASP:OD1	9:AK:59:LYS:HE3	2.15	0.46
10:AL:34:THR:O	10:AL:37:ASP:HB2	2.16	0.46
1:AA:2685:G:P	10:AL:67:LYS:HD2	2.55	0.46
11:AM:113:LYS:HD3	11:AM:113:LYS:C	2.35	0.46
12:AN:125:LEU:HD23	12:AN:125:LEU:N	2.28	0.46
12:AN:75:THR:HG23	12:AN:89:ASN:O	2.16	0.46
13:AO:116:LEU:HD12	13:AO:118:GLU:HG2	1.97	0.46
14:AP:75:GLU:O	14:AP:78:LEU:HD12	2.15	0.46
14:AP:9:ARG:CA	14:AP:12:PHE:CD2	2.98	0.46
15:AQ:104:ASN:HA	15:AQ:108:ARG:NH1	2.29	0.46
1:AA:1754:C:OP1	15:AQ:98:LYS:HD2	2.15	0.46
1:AA:446:G:C8	16:AR:3:ARG:NH2	2.83	0.46
16:AR:61:TRP:CZ3	16:AR:93:LYS:HA	2.51	0.46
16:AR:80:ILE:HA	16:AR:83:LEU:CD1	2.45	0.46
16:AR:89:GLU:C	16:AR:90:VAL:HG23	2.35	0.46
17:AS:38:LEU:O	17:AS:39:LEU:O	2.33	0.46
17:AS:56:SER:O	17:AS:57:VAL:HG23	2.16	0.46
1:AA:993:G:C1'	17:AS:91:TYR:CE2	2.87	0.46
18:AT:14:PRO:O	18:AT:16:LYS:NZ	2.49	0.46
20:AV:85:VAL:O	20:AV:85:VAL:HG12	2.16	0.46
21:AW:122:ARG:C	21:AW:124:ILE:H	2.18	0.46
21:AW:17:ALA:HA	21:AW:20:ARG:HH21	1.80	0.46
21:AW:70:LEU:C	21:AW:70:LEU:CD1	2.84	0.46
23:AY:19:LEU:HD22	23:AY:23:LYS:HG3	1.98	0.46
23:AY:64:ARG:HD3	23:AY:64:ARG:HA	1.67	0.46
34:BA:113:G:H2'	34:BA:114:U:H6	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1173:G:C2'	34:BA:1174:G:H5''	2.45	0.46
34:BA:1054:C:P	34:BA:1197:G:P	3.13	0.46
34:BA:120:A:C8	34:BA:122:G:C5	3.04	0.46
34:BA:1253:G:C2	34:BA:1285:A:N6	2.75	0.46
34:BA:1343:G:H5'	42:BM:124:GLN:HA	1.97	0.46
34:BA:1363:A:H5''	34:BA:1364:U:C6	2.51	0.46
34:BA:1415:G:C2	34:BA:1486:G:C4	3.03	0.46
34:BA:150:C:O2	34:BA:151:A:C8	2.68	0.46
34:BA:151:A:O2'	34:BA:152:A:H5'	2.16	0.46
34:BA:155:C:H2'	34:BA:156:G:O4'	2.15	0.46
34:BA:217:C:N4	34:BA:218:C:N4	2.64	0.46
34:BA:246:A:C2	34:BA:282:A:C5	3.04	0.46
34:BA:355:C:H42	34:BA:356:A:N6	2.12	0.46
34:BA:452:A:C6	34:BA:453:A:C6	3.03	0.46
34:BA:46:G:H2'	34:BA:366:C:N4	2.30	0.46
34:BA:557:G:O3'	34:BA:558:G:O4'	2.32	0.46
34:BA:872:A:C6	34:BA:874:G:C5	3.03	0.46
34:BA:886:G:HO2'	34:BA:887:G:H5'	1.72	0.46
34:BA:908:A:C2	34:BA:909:A:C8	3.03	0.46
34:BA:9:G:C8	38:BI:126:ARG:NH1	2.84	0.46
35:BF:117:GLU:CD	35:BF:118:LEU:N	2.68	0.46
35:BF:160:ASP:O	35:BF:161:ALA:HB2	2.15	0.46
35:BF:19:HIS:C	35:BF:20:GLU:HG2	2.36	0.46
35:BF:42:ILE:HD12	35:BF:202:PRO:HB2	1.90	0.46
35:BF:234:PRO:CA	35:BF:238:LEU:HD13	2.38	0.46
35:BF:44:LEU:HD23	35:BF:44:LEU:H	1.79	0.46
35:BF:73:THR:HG22	35:BF:94:ASN:C	2.35	0.46
36:BG:150:LYS:NZ	36:BG:152:ILE:HG21	2.30	0.46
36:BG:30:ARG:HG2	36:BG:30:ARG:HH11	1.81	0.46
36:BG:50:ALA:HB1	36:BG:72:LYS:HB2	1.96	0.46
36:BG:59:ARG:CZ	36:BG:64:VAL:HA	2.42	0.46
37:BH:187:ARG:CG	37:BH:188:LEU:N	2.79	0.46
37:BH:78:LEU:HB3	37:BH:93:PHE:CE2	2.50	0.46
37:BH:94:LEU:CA	37:BH:97:LEU:HD12	2.42	0.46
38:BI:121:LYS:HB3	38:BI:121:LYS:HE3	1.74	0.46
39:BJ:71:ARG:O	39:BJ:72:VAL:C	2.53	0.46
39:BJ:4:TYR:CD1	39:BJ:90:VAL:HG22	2.51	0.46
41:BL:114:THR:HB	41:BL:129:VAL:HG13	1.96	0.46
41:BL:35:ILE:C	41:BL:37:ARG:N	2.68	0.46
41:BL:92:ARG:NH1	41:BL:92:ARG:CG	2.78	0.46
42:BM:101:PHE:O	42:BM:102:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:23:ALA:HB1	44:BO:88:GLY:CA	2.44	0.46
45:BP:121:GLY:O	45:BP:122:THR:OG1	2.29	0.46
45:BP:28:LYS:CE	45:BP:33:ARG:HH12	2.19	0.46
46:BQ:38:GLY:O	46:BQ:39:ILE:HG23	2.14	0.46
48:BS:18:PHE:O	48:BS:18:PHE:CD1	2.68	0.46
34:BA:667:G:H5'	48:BS:51:HIS:CD2	2.51	0.46
48:BS:36:ILE:CG1	48:BS:60:VAL:HG22	2.46	0.46
48:BS:67:LEU:O	48:BS:70:LEU:CB	2.60	0.46
50:BU:59:ILE:HD11	50:BU:71:PHE:CA	2.45	0.46
50:BU:59:ILE:HD11	50:BU:71:PHE:C	2.36	0.46
50:BU:88:TYR:CD2	50:BU:92:ARG:HD2	2.51	0.46
57:BZ:166:SER:H	57:BZ:171:ILE:CG2	2.29	0.46
57:BZ:209:ILE:HA	57:BZ:224:GLY:HA3	1.97	0.46
57:BZ:64:ILE:HD13	57:BZ:188:GLN:N	2.30	0.46
57:BZ:69:ARG:HA	57:BZ:70:ILE:CB	2.20	0.46
1:AA:273(E):U:N3	1:AA:273(F):C:H1'	2.30	0.46
34:BA:929:G:C6	34:BA:930:C:C4	3.03	0.46
1:AA:1005:C:O4'	1:AA:1012:U:O2	2.34	0.46
1:AA:1051:G:C1'	1:AA:2752:C:OP1	2.60	0.46
1:AA:1081:U:H6	1:AA:1081:U:O5'	1.99	0.46
1:AA:1101:U:O2	1:AA:1101:U:H2'	2.16	0.46
1:AA:443:A:O4'	1:AA:1201:C:H4'	2.15	0.46
1:AA:1216:G:N2	1:AA:1234:U:H1'	2.31	0.46
1:AA:1196:C:H1'	1:AA:1226:G:H1'	1.98	0.46
1:AA:1265:A:C1'	1:AA:1267:U:C4	2.91	0.46
1:AA:1268:A:N6	1:AA:2013:A:N7	2.63	0.46
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.16	0.46
1:AA:1378:A:C2	1:AA:1380:G:H1'	2.51	0.46
1:AA:1444(A):A:H5'	1:AA:1445:C:C6	2.51	0.46
1:AA:1631:A:C2'	1:AA:1632:A:O5'	2.64	0.46
1:AA:1641:A:N7	1:AA:1642:G:C5	2.84	0.46
1:AA:1709:U:C6	1:AA:1709:U:H5'	2.46	0.46
1:AA:1712:C:H3'	1:AA:1716:U:C5	2.50	0.46
1:AA:1743:G:C4	1:AA:1746:G:C8	3.04	0.46
1:AA:1754:C:N3	1:AA:1755:A:C4	2.83	0.46
1:AA:1364:G:P	1:AA:1809:A:N6	2.89	0.46
1:AA:1906:G:C5	1:AA:1929:G:C4	2.86	0.46
1:AA:1992:G:C1'	1:AA:1993:U:H5	2.19	0.46
1:AA:2033:A:C6	1:AA:2036:C:N4	2.83	0.46
1:AA:2072:G:C5	1:AA:2073:C:C5	3.04	0.46
1:AA:215:G:C1'	1:AA:216:A:H4'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:215:G:O2'	1:AA:216:A:H5''	2.15	0.46
1:AA:2171:A:O2'	1:AA:2172:U:O4'	2.34	0.46
1:AA:2195:C:O2	1:AA:2196:C:H1'	2.15	0.46
1:AA:2325:G:C5	1:AA:2326:C:C5	3.03	0.46
1:AA:2346:A:H5'	1:AA:2383:G:C4'	2.46	0.46
1:AA:2345:G:N2	1:AA:2381:C:H3'	2.31	0.46
1:AA:2482:G:N7	1:AA:2483:C:C5	2.84	0.46
1:AA:2514:U:O5'	1:AA:2514:U:H6	1.99	0.46
1:AA:2593:U:OP2	1:AA:2593:U:C6	2.63	0.46
1:AA:2599:G:H2'	1:AA:2600:A:O4'	2.16	0.46
1:AA:2629:A:C5'	1:AA:2895:U:C1'	2.86	0.46
1:AA:2705:A:O5'	1:AA:2705:A:H8	1.98	0.46
1:AA:2776:A:N7	1:AA:2781:A:C6	2.84	0.46
1:AA:2826:A:H2'	1:AA:2827:C:C5'	2.46	0.46
1:AA:2880:C:H2'	1:AA:2881:C:H6	1.81	0.46
1:AA:297:C:H3'	1:AA:298:G:N7	2.31	0.46
1:AA:342:G:OP2	1:AA:342:G:H8	1.98	0.46
1:AA:350:U:N3	1:AA:351:G:O6	2.49	0.46
1:AA:458:G:O2'	1:AA:469:G:N1	2.48	0.46
1:AA:495:G:H2'	1:AA:496:G:O5'	2.15	0.46
1:AA:531:C:H3'	1:AA:532:A:C1'	2.45	0.46
1:AA:612:G:H2'	1:AA:615:G:C4	2.51	0.46
1:AA:618(A):C:OP2	6:AF:107:LYS:NZ	2.49	0.46
1:AA:648:G:C2	1:AA:649:G:C8	3.04	0.46
1:AA:668:G:C6	1:AA:670:A:C5	3.04	0.46
1:AA:784:A:C6	1:AA:792:G:N3	2.84	0.46
1:AA:822:U:HO2'	1:AA:823:G:P	2.34	0.46
1:AA:569:U:OP1	1:AA:945:A:C6	2.68	0.46
1:AA:987:G:OP1	24:AZ:13:ILE:CG2	2.57	0.46
1:AA:995:C:O2'	1:AA:996:A:OP2	2.31	0.46
2:AB:33:G:N3	2:AB:33:G:H2'	2.31	0.46
2:AB:81:G:O6	2:AB:96:G:C6	2.68	0.46
3:AC:123:VAL:CG1	3:AC:138:PRO:HG2	2.41	0.46
3:AC:200:LYS:NZ	3:AC:204:ALA:CB	2.77	0.46
4:AD:108:PRO:O	4:AD:109:ASP:C	2.54	0.46
4:AD:168:ARG:HA	4:AD:174:ILE:HD12	1.97	0.46
4:AD:18:VAL:C	4:AD:20:ASP:N	2.56	0.46
4:AD:143:HIS:NE2	4:AD:192:THR:HG22	2.30	0.46
4:AD:200:ASP:O	4:AD:201:HIS:C	2.54	0.46
5:AE:5:LEU:HG	5:AE:25:VAL:CG1	2.44	0.46
5:AE:51:PHE:CD1	5:AE:76:ARG:CG	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:53:PRO:HD2	5:AE:74:PRO:HA	1.97	0.46
5:AE:53:PRO:O	5:AE:53:PRO:HG2	2.15	0.46
1:AA:2635:C:H5''	5:AE:78:LEU:HD13	1.97	0.46
6:AF:75:HIS:NE2	6:AF:77:ASP:O	2.48	0.46
7:AG:103:LEU:HD11	7:AG:107:LEU:HD23	1.98	0.46
7:AG:33:ARG:C	7:AG:33:ARG:HH21	2.20	0.46
8:AH:149:ARG:HH12	8:AH:164:TYR:HB3	1.81	0.46
8:AH:26:VAL:HG21	8:AH:35:VAL:HG21	1.97	0.46
8:AH:7:LEU:HA	8:AH:52:VAL:CG1	2.46	0.46
8:AH:85:LYS:N	8:AH:133:VAL:O	2.49	0.46
1:AA:1047:G:H5''	31:AI:60:ARG:CB	2.46	0.46
32:AJ:10:LEU:CA	32:AJ:56:GLU:HG2	2.42	0.46
9:AK:34:LEU:CD2	9:AK:116:LEU:CD2	2.94	0.46
9:AK:126:PRO:C	9:AK:127:ASP:CG	2.72	0.46
9:AK:54:VAL:HG12	9:AK:122:VAL:HG11	1.97	0.46
10:AL:37:ASP:H	10:AL:61:VAL:CG2	2.29	0.46
11:AM:72:PRO:O	11:AM:111:ARG:CZ	2.64	0.46
11:AM:131:SER:O	11:AM:135:LEU:CD1	2.64	0.46
11:AM:51:PHE:O	11:AM:52:GLU:C	2.54	0.46
12:AN:6:ARG:CD	12:AN:6:ARG:C	2.82	0.46
12:AN:72:LYS:HE2	12:AN:96:VAL:CG2	2.46	0.46
13:AO:65:LEU:O	13:AO:65:LEU:HD23	2.16	0.46
13:AO:75:LEU:HD23	13:AO:78:LYS:CG	2.46	0.46
14:AP:3:ARG:HG2	14:AP:4:LEU:CG	2.22	0.46
15:AQ:108:ARG:NH1	15:AQ:108:ARG:H	2.11	0.46
15:AQ:26:ASP:OD2	15:AQ:26:ASP:C	2.54	0.46
15:AQ:54:ARG:O	15:AQ:55:ASN:OD1	2.34	0.46
15:AQ:72:VAL:HG12	15:AQ:73:GLU:N	2.31	0.46
16:AR:31:SER:OG	16:AR:35:ALA:CA	2.64	0.46
16:AR:33:ARG:O	16:AR:36:ARG:HG3	2.16	0.46
16:AR:89:GLU:O	16:AR:90:VAL:HG22	2.16	0.46
16:AR:89:GLU:HB2	17:AS:51:VAL:HB	1.98	0.46
1:AA:566:U:H3'	17:AS:82:ARG:HH12	1.81	0.46
17:AS:8:GLY:HA3	17:AS:24:LYS:NZ	2.30	0.46
20:AV:54:LYS:HD2	20:AV:54:LYS:HA	1.64	0.46
21:AW:102:LEU:HD13	21:AW:137:ILE:C	2.35	0.46
21:AW:138:GLU:O	21:AW:139:VAL:HG22	2.16	0.46
21:AW:47:VAL:O	21:AW:50:GLN:HB2	2.15	0.46
12:AN:85:LYS:HD2	22:AX:10:THR:OG1	2.16	0.46
1:AA:2257:U:OP1	22:AX:11:ARG:CZ	2.63	0.46
23:AY:24:LYS:HG2	23:AY:52:ILE:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1108:G:C2'	34:BA:1109:C:H5'	2.45	0.46
34:BA:1115:C:C4	34:BA:1186:G:O6	2.69	0.46
34:BA:1117:G:C6	34:BA:1184:G:C4	2.89	0.46
34:BA:112:G:C2	34:BA:113:G:C8	3.03	0.46
34:BA:1158:C:C1'	35:BF:133:LYS:CE	2.94	0.46
34:BA:1188:A:H3'	34:BA:1189:C:H5	1.80	0.46
34:BA:1188:A:H2'	34:BA:1188:A:N3	2.30	0.46
34:BA:1193:G:C8	34:BA:1193:G:C3'	2.97	0.46
34:BA:1241:G:C8	34:BA:1241:G:OP2	2.69	0.46
34:BA:1361:G:C3'	34:BA:1361:G:C8	2.99	0.46
34:BA:1453:G:O2'	34:BA:1454:G:H5'	2.16	0.46
34:BA:270:A:OP2	34:BA:270:A:C8	2.69	0.46
34:BA:298:A:H3'	34:BA:299:G:H8	1.80	0.46
34:BA:299:G:C5	34:BA:300:A:N6	2.84	0.46
34:BA:404:U:H5'	37:BH:122:ARG:CD	2.45	0.46
34:BA:483:C:O5'	34:BA:483:C:C6	2.69	0.46
34:BA:501:C:OP2	45:BP:124:LYS:HD2	2.16	0.46
34:BA:50:A:O2'	34:BA:52:G:C8	2.57	0.46
34:BA:564:C:C4	34:BA:565:U:C4	3.04	0.46
34:BA:575:G:O2'	34:BA:576:G:H5'	2.15	0.46
34:BA:581:G:C6	34:BA:758:G:N7	2.83	0.46
34:BA:706:A:C2	34:BA:707:C:N1	2.84	0.46
34:BA:706:A:C2'	34:BA:707:C:O5'	2.64	0.46
34:BA:748:C:H1'	34:BA:749:C:C5	2.50	0.46
34:BA:766:A:C2	34:BA:767:A:C4	3.03	0.46
34:BA:864:A:O5'	34:BA:864:A:H8	1.99	0.46
34:BA:901:A:N3	34:BA:902:G:O4'	2.48	0.46
34:BA:931:C:H2'	34:BA:932:C:C6	2.51	0.46
34:BA:946:A:C3'	34:BA:947:G:H8	2.29	0.46
34:BA:961:U:C2'	34:BA:962:C:C5'	2.94	0.46
34:BA:968:A:OP1	34:BA:968:A:O4'	2.33	0.46
34:BA:977:A:N6	34:BA:1224:G:P	2.88	0.46
34:BA:998:G:C6	34:BA:1044:A:C6	3.03	0.46
35:BF:110:GLN:O	35:BF:113:HIS:HB3	2.15	0.46
35:BF:115:LEU:HB2	35:BF:145:LEU:HD21	1.97	0.46
35:BF:72:GLY:HA2	35:BF:165:VAL:HG21	1.96	0.46
35:BF:189:ASP:OD2	35:BF:205:ASP:CG	2.54	0.46
35:BF:35:GLU:CD	35:BF:36:ARG:N	2.69	0.46
35:BF:80:ILE:CG2	35:BF:81:VAL:N	2.78	0.46
35:BF:88:ALA:HA	35:BF:222:ILE:CD1	2.46	0.46
35:BF:73:THR:HG22	35:BF:95:GLN:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:26:CYS:O	37:BH:26:CYS:SG	2.73	0.46
39:BJ:26:ILE:HG22	39:BJ:30:LEU:CD1	2.42	0.46
39:BJ:47:ARG:HA	39:BJ:57:GLN:HA	1.97	0.46
39:BJ:95:GLU:N	39:BJ:95:GLU:CD	2.69	0.46
40:BK:119:ARG:O	40:BK:120:ILE:C	2.52	0.46
40:BK:69:VAL:HG13	40:BK:135:VAL:HA	1.98	0.46
40:BK:6:ARG:H	40:BK:6:ARG:CZ	2.29	0.46
41:BL:70:GLN:HE21	41:BL:71:GLY:H	1.47	0.46
42:BM:49:PRO:CB	42:BM:82:ALA:HB2	2.42	0.46
42:BM:96:LEU:O	42:BM:100:GLY:CA	2.62	0.46
45:BP:102:ARG:CZ	45:BP:110:VAL:N	2.78	0.46
45:BP:103:GLY:CA	45:BP:107:ALA:O	2.64	0.46
45:BP:55:VAL:O	45:BP:70:ILE:HD11	2.16	0.46
47:BR:4:LYS:HA	47:BR:7:ILE:HD11	1.98	0.46
48:BS:36:ILE:CD1	48:BS:63:ARG:CD	2.84	0.46
49:BT:26:ARG:CD	49:BT:31:LYS:HZ3	2.28	0.46
49:BT:34:GLU:OE1	49:BT:35:LYS:O	2.33	0.46
49:BT:75:ARG:O	49:BT:76:GLN:C	2.54	0.46
51:BV:37:VAL:HG12	51:BV:41:LYS:HZ2	1.77	0.46
51:BV:58:LEU:HB3	51:BV:62:GLU:CG	2.43	0.46
53:BX:57:ARG:HH11	53:BX:57:ARG:HG2	1.80	0.46
53:BX:81:LYS:O	53:BX:82:SER:C	2.53	0.46
57:BZ:136:ARG:NH1	57:BZ:139:TRP:CE2	2.84	0.46
57:BZ:249:ALA:HB1	57:BZ:250:LYS:CE	2.41	0.46
57:BZ:397:GLN:C	57:BZ:472:TYR:CG	2.81	0.46
57:BZ:406:ASP:CA	57:BZ:407:VAL:CG1	2.85	0.46
1:AA:2660:A:C5	57:BZ:457:THR:HG23	2.51	0.46
57:BZ:545:ASN:HB3	57:BZ:546:MET:HE2	1.98	0.46
55:BC:34:G:H3'	55:BC:35:A:C5'	2.46	0.46
1:AA:1026:U:H2'	1:AA:1027:A:O5'	2.16	0.46
1:AA:1081:U:C2'	1:AA:1082:U:H5'	2.46	0.46
1:AA:1361:G:C4	1:AA:1362:C:C5	3.04	0.46
1:AA:1464:C:O2'	1:AA:1465:G:C5'	2.64	0.46
1:AA:1620:G:O2'	1:AA:1621:U:C5'	2.63	0.46
1:AA:1637:A:C6	1:AA:1638:C:C4	3.03	0.46
1:AA:1637:A:O2'	1:AA:2711:A:C1'	2.54	0.46
1:AA:1654:A:N1	1:AA:1655:A:C8	2.84	0.46
1:AA:1661:G:C2	1:AA:2000:G:C4	3.04	0.46
1:AA:1747:G:HO2'	1:AA:1748:G:H5'	1.81	0.46
1:AA:1789:A:H2'	1:AA:1789:A:N3	2.30	0.46
1:AA:1809:A:C5'	1:AA:1810:A:C2	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1889:A:C2	1:AA:1890:A:C5	3.03	0.46
1:AA:194:G:H2'	1:AA:195:A:H8	1.76	0.46
1:AA:2114:A:H2'	1:AA:2115:G:C4'	2.46	0.46
1:AA:2117:A:N6	1:AA:2171:A:C6	2.84	0.46
1:AA:2168:G:N2	1:AA:2170:A:C3'	2.79	0.46
1:AA:2178:C:H5''	3:AC:46:LYS:NZ	2.29	0.46
1:AA:218:A:H2'	1:AA:219:G:O4'	2.16	0.46
1:AA:2378:A:C2'	1:AA:2378:A:N3	2.77	0.46
1:AA:2386:C:H2'	1:AA:2386:C:O2	2.16	0.46
1:AA:2450:A:C2	1:AA:2451:A:C1'	2.98	0.46
1:AA:2457:U:H2'	1:AA:2458:G:C4'	2.46	0.46
1:AA:2031:A:N6	1:AA:2498:C:C1'	2.77	0.46
1:AA:2521:C:C2	1:AA:2545:G:N2	2.84	0.46
1:AA:2547:U:H6	1:AA:2547:U:H5''	1.81	0.46
1:AA:2573:C:C3'	1:AA:2573:C:C6	2.99	0.46
1:AA:2633:G:C6	1:AA:2634:G:N7	2.84	0.46
1:AA:2633:G:H8	1:AA:2633:G:O5'	1.98	0.46
1:AA:2693:A:O2'	1:AA:2848:G:H5''	2.16	0.46
1:AA:2801:A:H3'	1:AA:2801:A:OP2	2.16	0.46
1:AA:285:C:C4	1:AA:286:C:N4	2.84	0.46
1:AA:2691:C:C4'	1:AA:2872:G:N7	2.78	0.46
1:AA:2253:G:C6	59:AA:3003:8AN:C5	2.95	0.46
1:AA:307:G:N1	1:AA:309:G:H5''	2.30	0.46
1:AA:311:A:H2	1:AA:331:A:H5''	1.80	0.46
1:AA:332:A:C4	1:AA:335:C:C5	3.04	0.46
1:AA:378:C:H2'	1:AA:379:G:H8	1.81	0.46
1:AA:416:C:N4	1:AA:417:C:N4	2.64	0.46
1:AA:588:U:H2'	1:AA:589:C:H6	1.80	0.46
1:AA:58:G:H2'	1:AA:73:A:C2	2.44	0.46
1:AA:658:C:C2	1:AA:659:C:C5	3.04	0.46
1:AA:757:U:C2'	1:AA:758:C:O5'	2.64	0.46
1:AA:675:A:N7	1:AA:804:A:N1	2.64	0.46
1:AA:822:U:H2'	1:AA:823:G:H8	1.79	0.46
1:AA:950:G:C5	1:AA:951:C:C5	3.04	0.46
2:AB:66:A:H2	2:AB:108:C:C6	2.33	0.46
2:AB:71:C:O2	2:AB:72:G:C4'	2.64	0.46
2:AB:6:C:O2'	2:AB:7:G:O5'	2.26	0.46
3:AC:102:LYS:HE3	3:AC:107:TRP:CB	2.46	0.46
3:AC:7:TYR:HE1	3:AC:10:LEU:HG	1.79	0.46
3:AC:90:GLY:C	3:AC:153:ILE:HG22	2.36	0.46
3:AC:167:LYS:CG	3:AC:168:THR:N	2.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2176:A:N9	3:AC:44:HIS:HD2	2.14	0.46
3:AC:78:ALA:HA	3:AC:119:VAL:HG22	1.98	0.46
3:AC:99:ILE:HG12	3:AC:107:TRP:CZ3	2.51	0.46
4:AD:168:ARG:HG2	4:AD:173:VAL:CG1	2.21	0.46
4:AD:171:ASP:O	4:AD:186:HIS:CB	2.63	0.46
4:AD:23:GLU:HB3	4:AD:204:ILE:CG1	2.43	0.46
6:AF:200:GLU:O	6:AF:203:GLN:N	2.48	0.46
1:AA:2527:C:OP1	6:AF:30:PRO:HB3	123.05	0.46
6:AF:31:HIS:CB	11:AM:14:LYS:NZ	2.77	0.46
6:AF:34:TRP:CD1	11:AM:8:PRO:O	2.69	0.46
7:AG:30:GLU:HG2	7:AG:33:ARG:CG	2.46	0.46
32:AJ:55:VAL:HB	32:AJ:56:GLU:CA	2.39	0.46
10:AL:38:VAL:C	10:AL:39:ILE:HG23	2.36	0.46
11:AM:79:ARG:HE	11:AM:83:VAL:CG1	2.29	0.46
12:AN:104:PHE:C	12:AN:105:GLU:OE1	2.55	0.46
1:AA:2275:C:O2'	12:AN:84:GLY:O	2.33	0.46
12:AN:90:VAL:CA	12:AN:91:GLU:OE2	2.64	0.46
13:AO:33:ARG:CA	13:AO:115:GLU:HB3	2.42	0.46
13:AO:27:SER:O	13:AO:30:THR:HB	2.15	0.46
13:AO:28:LEU:HD22	13:AO:34:ILE:HG12	1.97	0.46
13:AO:96:ARG:HG3	13:AO:98:LEU:HD11	1.96	0.46
2:AB:29:A:OP1	14:AP:34:HIS:CE1	2.69	0.46
15:AQ:65:LYS:HA	15:AQ:76:PHE:C	2.35	0.46
16:AR:67:ALA:O	16:AR:71:GLN:CD	2.54	0.46
17:AS:69:LYS:HE2	17:AS:70:ILE:HG13	1.98	0.46
20:AV:21:LYS:HD2	20:AV:23:ARG:HH22	1.80	0.46
20:AV:47:LYS:HB3	20:AV:49:VAL:HG13	1.97	0.46
21:AW:127:LYS:CD	21:AW:163:LEU:HA	2.29	0.46
21:AW:163:LEU:N	21:AW:163:LEU:HD12	2.30	0.46
21:AW:80:ARG:HD2	21:AW:80:ARG:N	2.31	0.46
22:AX:72:ARG:O	22:AX:73:GLY:O	2.34	0.46
22:AX:84:LEU:HB3	22:AX:85:ALA:H	1.57	0.46
24:AZ:6:VAL:CB	24:AZ:35:ARG:HH21	2.29	0.46
24:AZ:40:THR:O	24:AZ:44:ARG:CG	2.64	0.46
34:BA:1002:G:H2'	34:BA:1002:G:N3	2.31	0.46
34:BA:1049:U:H1'	34:BA:1201:A:H8	1.76	0.46
34:BA:1061:G:H2'	34:BA:1062:U:O4'	2.15	0.46
34:BA:1065:U:O2	34:BA:1065:U:C2'	2.57	0.46
34:BA:1205:U:O2'	36:BG:194:GLY:CA	2.64	0.46
34:BA:1210:C:H2'	34:BA:1211:U:C6	2.51	0.46
34:BA:1220:G:O2'	34:BA:1221:G:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1270:C:O2'	34:BA:1314:C:P	2.74	0.46
34:BA:1309:G:C2	34:BA:1328:C:N4	2.72	0.46
34:BA:1340:A:H2'	34:BA:1341:U:H6	1.80	0.46
34:BA:134:A:H2'	34:BA:135:C:O5'	2.16	0.46
34:BA:1363:A:N3	34:BA:1365:G:N1	2.63	0.46
34:BA:1289:A:C2	34:BA:1372:U:H4'	2.51	0.46
34:BA:1472:U:HO2'	34:BA:1473:A:H5'	1.78	0.46
34:BA:1498:U:H2'	34:BA:1499:A:OP2	2.16	0.46
34:BA:164:U:C2'	34:BA:165:C:C6	2.99	0.46
34:BA:22:G:O2'	34:BA:23:C:O4'	2.34	0.46
34:BA:255:G:C1'	50:BU:16:GLN:HB2	2.46	0.46
34:BA:295:C:C2	34:BA:296:U:C6	3.03	0.46
34:BA:292:G:C4	34:BA:309:G:N2	2.84	0.46
34:BA:322:C:N3	34:BA:323:U:O2	2.49	0.46
34:BA:450:G:OP1	34:BA:452:A:P	2.74	0.46
34:BA:590:C:OP1	41:BL:29:SER:CB	2.62	0.46
34:BA:644:G:C5	34:BA:645:C:C5	3.04	0.46
34:BA:682:G:C2	34:BA:683:G:C8	3.04	0.46
34:BA:80:G:C3'	34:BA:81:G:H8	2.29	0.46
34:BA:922:G:H4'	38:BI:20:GLN:CA	2.27	0.46
34:BA:927:G:C5'	34:BA:1503:A:N6	2.56	0.46
34:BA:977:A:H2'	34:BA:977:A:N3	2.30	0.46
35:BF:102:LEU:CD2	35:BF:176:GLU:CB	2.82	0.46
35:BF:146:GLN:NE2	35:BF:150:SER:CB	2.72	0.46
35:BF:157:ARG:C	35:BF:158:LEU:CD2	2.81	0.46
35:BF:18:GLY:HA2	35:BF:41:ILE:HG23	1.96	0.46
35:BF:46:LYS:NZ	35:BF:49:GLU:HG2	2.31	0.46
35:BF:50:GLU:O	35:BF:51:LEU:C	2.53	0.46
35:BF:56:ARG:O	35:BF:57:PHE:C	2.53	0.46
36:BG:204:LEU:O	36:BG:205:GLY:C	2.53	0.46
37:BH:20:TYR:HA	37:BH:31:CYS:SG	2.55	0.46
38:BI:39:GLY:C	38:BI:68:GLU:OE1	2.54	0.46
39:BJ:2:ARG:O	39:BJ:67:MET:CE	2.64	0.46
40:BK:111:ARG:HD3	40:BK:122:HIS:CB	2.46	0.46
42:BM:113:LYS:H	42:BM:113:LYS:HD2	1.81	0.46
42:BM:119:ALA:O	42:BM:120:ARG:CB	2.64	0.46
43:BN:22:LYS:CE	43:BN:90:LEU:HD12	2.45	0.46
43:BN:16:LEU:HD13	43:BN:94:VAL:HG21	1.98	0.46
34:BA:718:G:C4	44:BO:116:HIS:NE2	2.84	0.46
45:BP:110:VAL:HB	45:BP:113:ARG:HG3	1.98	0.46
46:BQ:91:ARG:HD3	46:BQ:98:VAL:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:41:GLU:O	48:BS:44:LYS:HB2	2.15	0.46
49:BT:4:ILE:HA	49:BT:20:VAL:O	2.16	0.46
49:BT:56:ALA:HB1	49:BT:74:LEU:CD1	2.45	0.46
50:BU:3:LYS:O	50:BU:4:LYS:C	2.54	0.46
51:BV:52:PRO:CG	51:BV:54:ARG:HB3	2.45	0.46
51:BV:78:LEU:O	51:BV:79:LEU:CB	2.64	0.46
52:BW:39:THR:C	52:BW:40:ILE:O	2.53	0.46
57:BZ:63:ALA:CB	57:BZ:65:LYS:HG2	2.30	0.46
1:AA:1483:G:C2'	1:AA:1483:G:N3	2.78	0.46
55:BC:2:C:H2'	55:BC:3:C:H5'	1.98	0.46
1:AA:436:C:H2'	1:AA:436:C:O2	2.15	0.46
1:AA:1095:A:O4'	57:BZ:416:MET:CE	2.45	0.46
1:AA:1144:G:C2'	1:AA:1145:C:H6	2.20	0.46
1:AA:117:G:C5	1:AA:119:A:N6	2.84	0.46
1:AA:1268:A:OP2	1:AA:2006:C:OP2	2.33	0.46
1:AA:1301:A:C2'	1:AA:1302:A:O5'	2.64	0.46
1:AA:1321:A:N6	1:AA:1322:A:C2	2.82	0.46
1:AA:1342:A:O5'	1:AA:1342:A:C8	2.69	0.46
1:AA:1350:C:O2'	1:AA:1351:C:C5'	2.62	0.46
1:AA:1350:C:C2'	1:AA:1351:C:O5'	2.63	0.46
1:AA:1522:G:H2'	1:AA:1523:U:C6	2.51	0.46
1:AA:1608:A:C2	1:AA:1611:C:C5	3.04	0.46
1:AA:1655:A:H2'	1:AA:1656:C:H6	1.70	0.46
1:AA:1731:G:N3	1:AA:1732:A:OP2	2.49	0.46
1:AA:1842:G:C4	1:AA:1843:C:C6	3.04	0.46
1:AA:1850:G:C5	1:AA:1851:U:C5	3.04	0.46
1:AA:2046:G:H2'	1:AA:2047:U:H5	1.78	0.46
1:AA:1853:A:C2	1:AA:2087:G:N3	2.84	0.46
1:AA:2168:G:C2'	1:AA:2170:A:OP2	2.61	0.46
1:AA:2182:G:N2	1:AA:2183:C:C2	2.84	0.46
1:AA:2199:A:OP2	1:AA:2205:C:C5	2.67	0.46
1:AA:2356:C:C2'	1:AA:2357:U:O5'	2.64	0.46
1:AA:2407:G:H3'	1:AA:2408:U:C5	2.51	0.46
1:AA:827:U:C4	1:AA:2430:A:C6	3.03	0.46
1:AA:2431:U:C2	1:AA:2433:A:OP2	2.68	0.46
1:AA:2032:G:H22	1:AA:2499:C:N4	2.14	0.46
1:AA:2532:G:H2'	1:AA:2533:A:C8	2.51	0.46
1:AA:242:G:C2'	1:AA:254:G:N1	2.78	0.46
1:AA:1939:U:O2'	1:AA:2592:G:H1'	2.16	0.46
1:AA:2692:C:C2'	1:AA:2847:U:O2'	2.64	0.46
1:AA:2703:C:C5	1:AA:2704:C:N4	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2748:A:C2	8:AH:67:LEU:HD11	2.50	0.46
1:AA:2817:G:C4	1:AA:2818:G:C8	3.04	0.46
1:AA:2887:U:C2	1:AA:2888:C:C6	3.04	0.46
1:AA:323:G:OP2	1:AA:340:A:N1	2.49	0.46
1:AA:324:A:H2	1:AA:325:G:C1'	2.28	0.46
1:AA:447:A:C8	1:AA:454:A:N6	2.84	0.46
1:AA:35:G:C5	1:AA:454:A:H2	2.34	0.46
1:AA:459:U:C2'	1:AA:460:A:O5'	2.64	0.46
1:AA:531:C:C4'	1:AA:532:A:N3	2.79	0.46
1:AA:553:U:H2'	1:AA:554:U:C1'	2.46	0.46
1:AA:28:A:O2'	1:AA:583:G:H5'	2.16	0.46
1:AA:621:A:C8	1:AA:622:G:C5'	2.99	0.46
1:AA:193:U:C4'	1:AA:803:U:H5'	2.46	0.46
1:AA:952:G:C6	1:AA:966:G:N1	2.83	0.46
1:AA:974:G:C3'	1:AA:974(A):C:C5'	2.85	0.46
1:AA:2176:A:N9	3:AC:215:THR:HB	2.30	0.46
3:AC:43:VAL:HG13	3:AC:213:TYR:HA	1.97	0.46
3:AC:75:LEU:HD23	3:AC:77:ILE:CD1	2.34	0.46
4:AD:105:ILE:O	4:AD:106:ILE:C	2.53	0.46
4:AD:129:ASN:O	4:AD:193:VAL:HG23	2.15	0.46
1:AA:2224:G:H4'	4:AD:262:ARG:HH21	1.81	0.46
1:AA:1567:A:N1	4:AD:85:ASP:C	2.70	0.46
1:AA:2773:C:C5'	5:AE:165:VAL:HG13	2.46	0.46
5:AE:103:ASP:HA	5:AE:170:LEU:HD21	1.98	0.46
5:AE:52:LEU:HA	5:AE:74:PRO:CB	2.46	0.46
5:AE:91:VAL:HG23	5:AE:180:ASN:ND2	2.31	0.46
6:AF:135:LYS:HE3	6:AF:136:THR:OG1	2.16	0.46
6:AF:142:TRP:O	6:AF:145:GLU:N	2.49	0.46
6:AF:31:HIS:CG	11:AM:14:LYS:HZ1	2.34	0.46
7:AG:13:GLU:O	7:AG:17:PRO:CD	2.63	0.46
7:AG:144:ILE:HG23	7:AG:145:THR:O	2.16	0.46
7:AG:94:LEU:HD13	7:AG:94:LEU:H	1.80	0.46
8:AH:132:ARG:H	8:AH:132:ARG:HD3	1.78	0.46
8:AH:6:ARG:O	8:AH:65:HIS:CD2	2.68	0.46
31:AI:143:GLN:O	31:AI:147:ALA:CB	2.61	0.46
32:AJ:17:ALA:HB1	32:AJ:41:PHE:HB2	1.97	0.46
32:AJ:55:VAL:N	32:AJ:56:GLU:HA	2.31	0.46
32:AJ:72:PRO:HG2	32:AJ:77:LEU:CA	2.38	0.46
9:AK:4:TYR:HE2	16:AR:100:VAL:HB	1.80	0.46
10:AL:52:VAL:O	10:AL:53:LYS:CB	2.64	0.46
1:AA:637:A:OP1	11:AM:133:SER:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:95:VAL:HG12	11:AM:95:VAL:O	2.15	0.46
12:AN:109:VAL:HG12	12:AN:110:THR:N	2.29	0.46
12:AN:126:PRO:HD2	12:AN:127:ILE:HD11	1.98	0.46
12:AN:59:ARG:C	12:AN:60:ARG:CD	2.84	0.46
13:AO:52:ILE:O	13:AO:56:LYS:CG	2.63	0.46
13:AO:84:ALA:HB3	13:AO:85:PRO:HD3	1.98	0.46
14:AP:97:ARG:NH2	14:AP:97:ARG:CG	2.79	0.46
15:AQ:96:ARG:NE	15:AQ:117:ASP:HB3	2.31	0.46
15:AQ:53:ARG:NH2	15:AQ:102:ILE:N	2.57	0.46
17:AS:37:VAL:HG13	17:AS:37:VAL:O	2.15	0.46
17:AS:83:ARG:HD3	17:AS:84:LYS:CA	2.46	0.46
17:AS:93:GLU:O	17:AS:95:LEU:HD23	2.16	0.46
18:AT:16:LYS:O	18:AT:19:LEU:HB2	2.15	0.46
1:AA:71:A:O2'	19:AU:5:TYR:CE2	2.67	0.46
19:AU:84:ALA:H	19:AU:85:PRO:CD	2.29	0.46
20:AV:46:LYS:HZ3	20:AV:47:LYS:HG3	1.81	0.46
20:AV:54:LYS:O	20:AV:56:PRO:HD3	2.16	0.46
21:AW:107:THR:OG1	21:AW:141:VAL:O	2.29	0.46
21:AW:149:SER:O	21:AW:150:LEU:HD23	2.16	0.46
21:AW:156:LYS:HA	21:AW:156:LYS:HD2	1.76	0.46
23:AY:28:MET:O	23:AY:32:PHE:CD1	2.69	0.46
1:AA:87:C:H1'	23:AY:46:ARG:HH22	1.81	0.46
34:BA:1001:G:C5	34:BA:1002:G:H1'	2.51	0.46
34:BA:1056:U:O2	36:BG:195:VAL:CG2	2.62	0.46
34:BA:1072:G:C6	34:BA:1104:G:N1	2.84	0.46
34:BA:1076:C:C2	34:BA:1077:G:C8	3.04	0.46
34:BA:1109:C:C5	34:BA:1110:A:N7	2.84	0.46
34:BA:1176:A:C6	34:BA:1177:G:C6	3.04	0.46
34:BA:1231:G:H2'	34:BA:1232:U:C6	2.50	0.46
34:BA:1305:G:C2	34:BA:1331:G:C2	3.03	0.46
34:BA:1312:G:C2	34:BA:1326:C:C2	3.04	0.46
1:AA:1916:A:N1	34:BA:1409:C:C5'	2.78	0.46
34:BA:1483:A:H3'	34:BA:1484:C:H6	1.80	0.46
34:BA:337:C:H2'	34:BA:338:A:H8	1.75	0.46
34:BA:352:C:H4'	34:BA:354:G:OP1	2.15	0.46
34:BA:553:A:H2'	34:BA:554:C:C1'	2.46	0.46
34:BA:592:G:O2'	34:BA:593:G:H5'	2.15	0.46
34:BA:600:C:N3	34:BA:601:C:C5	2.83	0.46
34:BA:729:A:O2'	34:BA:730:G:H5'	2.15	0.46
34:BA:812:C:C4'	34:BA:813:U:H6	2.28	0.46
34:BA:818:G:HO2'	34:BA:819:A:P	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:830:G:C6	34:BA:831:U:C5	3.04	0.46
34:BA:834:C:N4	34:BA:853:G:O6	2.49	0.46
34:BA:966:G:O2'	34:BA:967:C:O5'	2.34	0.46
34:BA:985:C:O2'	52:BW:55:LYS:CE	2.61	0.46
56:BE:15:G:C4	56:BE:16:U:H5	2.33	0.46
35:BF:20:GLU:CG	35:BF:189:ASP:OD2	2.64	0.46
36:BG:132:ARG:O	36:BG:135:LYS:HB2	2.16	0.46
36:BG:15:THR:CB	36:BG:181:ASN:HA	2.45	0.46
38:BI:144:THR:C	38:BI:146:ALA:N	2.68	0.46
38:BI:79:GLU:HA	38:BI:91:LEU:HD23	1.98	0.46
39:BJ:24:GLU:O	39:BJ:27:GLN:N	2.49	0.46
39:BJ:50:TYR:CE1	51:BV:81:PHE:CZ	3.04	0.46
39:BJ:53:ALA:O	39:BJ:55:ASP:CG	2.55	0.46
39:BJ:69:GLU:O	39:BJ:72:VAL:HG22	2.16	0.46
40:BK:42:ILE:HD13	40:BK:116:ALA:HB1	1.98	0.46
40:BK:94:ARG:NH1	40:BK:98:SER:OG	2.49	0.46
41:BL:19:VAL:CG1	41:BL:21:LYS:HE3	2.46	0.46
41:BL:5:PRO:HA	41:BL:8:ASP:CB	2.42	0.46
41:BL:68:ARG:O	41:BL:69:ARG:HB3	2.16	0.46
41:BL:6:ILE:HD12	41:BL:85:ARG:NH1	2.31	0.46
42:BM:67:GLY:O	42:BM:68:GLY:C	2.54	0.46
42:BM:91:ASP:O	42:BM:91:ASP:CG	2.54	0.46
43:BN:60:ARG:NH1	43:BN:60:ARG:CB	2.79	0.46
34:BA:1188:A:C5'	43:BN:61:GLU:OE2	2.54	0.46
34:BA:706:A:H4'	44:BO:29:ILE:HD11	1.97	0.46
44:BO:42:TRP:HZ3	44:BO:47:VAL:CG2	2.29	0.46
44:BO:66:LEU:CB	44:BO:70:LYS:NZ	2.79	0.46
45:BP:102:ARG:NH2	45:BP:109:GLY:C	2.69	0.46
45:BP:102:ARG:HG3	45:BP:120:TYR:HA	1.97	0.46
45:BP:60:LEU:C	45:BP:60:LEU:CD2	2.77	0.46
46:BQ:11:ARG:C	46:BQ:44:ARG:O	2.52	0.46
48:BS:57:LEU:O	48:BS:58:MET:C	2.52	0.46
48:BS:75:PRO:HA	48:BS:78:TYR:CG	2.50	0.46
50:BU:10:VAL:HG12	50:BU:54:GLY:N	2.26	0.46
52:BW:22:LEU:CA	52:BW:25:LYS:HZ1	2.29	0.46
34:BA:191:G:N3	53:BX:105:SER:HB3	2.31	0.46
53:BX:23:ARG:NH2	53:BX:24:LEU:HD23	2.31	0.46
57:BZ:111:PHE:HE1	57:BZ:115:LYS:HE2	1.81	0.46
57:BZ:98:VAL:HA	57:BZ:126:VAL:HB	1.98	0.46
57:BZ:210:SER:C	57:BZ:284:ILE:HG23	2.15	0.46
57:BZ:73:VAL:CG2	57:BZ:88:VAL:HG13	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:131:C:C4	34:BA:232:G:N2	2.84	0.46
1:AA:1417:C:C2'	1:AA:1418:G:O5'	2.64	0.46
34:BA:800:G:P	34:BA:800:G:H8	2.39	0.46
34:BA:1018:C:H2'	34:BA:1019:C:O4'	2.16	0.46
1:AA:1024:G:C4'	1:AA:1025:G:H5''	2.43	0.45
1:AA:1072:C:H42	1:AA:1100:C:H41	1.63	0.45
1:AA:1122:G:N2	1:AA:1123:C:C6	2.84	0.45
1:AA:1128:A:C2'	1:AA:1128:A:N3	2.78	0.45
1:AA:585:G:H22	1:AA:1253:A:P	2.39	0.45
1:AA:1303:G:N7	1:AA:1304:C:N4	2.64	0.45
1:AA:1339:G:C1'	1:AA:1393:A:C2	2.99	0.45
1:AA:1385:G:C6	1:AA:1386:C:C4	3.03	0.45
1:AA:1473:G:O6	1:AA:1519:G:C4	2.69	0.45
1:AA:1342:A:C8	1:AA:1601:G:O6	2.69	0.45
1:AA:1658:C:H2'	1:AA:1658:C:O2	2.15	0.45
1:AA:1686:C:O2	1:AA:1686:C:H2'	2.15	0.45
1:AA:48:G:C2	1:AA:178:G:C6	3.05	0.45
1:AA:1790:C:O3'	4:AD:209:ALA:HB1	2.16	0.45
1:AA:1791:A:H2'	1:AA:1792:G:O4'	2.16	0.45
1:AA:1793:C:N4	1:AA:1794:U:O4	2.49	0.45
1:AA:1794:U:O4'	1:AA:1900:A:C5	2.69	0.45
1:AA:1826:G:C6	1:AA:1827:C:C5	3.04	0.45
1:AA:1829:A:N3	1:AA:1830:C:O4'	2.50	0.45
1:AA:1958:C:C2'	1:AA:1959:G:O5'	2.64	0.45
1:AA:2009:G:N1	1:AA:2010:G:N7	2.64	0.45
1:AA:2051:A:C8	1:AA:2051:A:OP2	2.69	0.45
1:AA:2091:U:O2'	1:AA:2092:U:OP1	2.27	0.45
1:AA:2094:G:C6	1:AA:2196:C:C4	3.04	0.45
1:AA:1801:G:O6	1:AA:2207:C:H1'	2.16	0.45
1:AA:2225:A:C5'	1:AA:2226:C:C6	2.96	0.45
1:AA:223:A:H2	1:AA:407:G:N3	2.14	0.45
1:AA:2263:C:H2'	1:AA:2264:C:H5'	1.98	0.45
1:AA:2279:G:O2'	1:AA:2280:G:O5'	2.28	0.45
1:AA:2323:G:N2	1:AA:2324:C:N3	2.64	0.45
1:AA:2374:C:N4	1:AA:2375:G:O6	2.49	0.45
1:AA:2510:C:H5''	1:AA:2511:U:OP2	2.16	0.45
1:AA:2568:C:H4'	57:BZ:552:ASP:OD2	2.16	0.45
1:AA:2439:A:N7	1:AA:2586:C:H4'	2.30	0.45
1:AA:25:U:C2	1:AA:26:G:N7	2.85	0.45
1:AA:2645:G:OP2	1:AA:2645:G:O4'	2.33	0.45
1:AA:2714:G:C3'	1:AA:2715:C:H5'	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2717:G:C4	1:AA:2718:G:C8	3.04	0.45
1:AA:2717:G:C4	1:AA:2718:G:N7	2.85	0.45
1:AA:2721:A:C3'	1:AA:2722:G:H8	2.28	0.45
1:AA:2630:G:N1	1:AA:2789:C:N4	2.60	0.45
1:AA:2836:U:C6	1:AA:2883:A:N6	2.84	0.45
1:AA:308:G:N1	1:AA:309:G:C4	2.85	0.45
1:AA:319:C:C4	1:AA:320:A:C6	3.04	0.45
1:AA:614:U:C5'	1:AA:615:G:OP2	2.64	0.45
1:AA:624:C:OP2	11:AM:105:LEU:HD22	2.16	0.45
1:AA:656:G:O2'	1:AA:657:U:C5'	2.63	0.45
1:AA:662:G:H2'	1:AA:663:G:C8	2.51	0.45
1:AA:802:A:C6	1:AA:803:U:C2	3.04	0.45
1:AA:848:G:H8	1:AA:848:G:H5''	1.80	0.45
1:AA:858:U:H2'	1:AA:2268:A:N7	2.30	0.45
1:AA:872:A:O2'	12:AN:66:ILE:CB	2.64	0.45
1:AA:972:G:C8	1:AA:973:A:C8	3.04	0.45
3:AC:103:ILE:HG22	3:AC:130:ILE:HG21	1.97	0.45
3:AC:120:MET:HB3	3:AC:120:MET:HE3	1.91	0.45
1:AA:2125:G:C2'	3:AC:218:MET:H	2.19	0.45
4:AD:54:ARG:HA	4:AD:220:HIS:H	1.81	0.45
5:AE:116:VAL:O	5:AE:120:TRP:HD1	1.95	0.45
6:AF:132:VAL:HG22	6:AF:135:LYS:HB2	1.99	0.45
6:AF:80:ALA:O	6:AF:83:PHE:HD2	2.00	0.45
7:AG:105:LYS:C	7:AG:109:VAL:HG22	2.33	0.45
7:AG:16:ARG:C	7:AG:20:ILE:HG13	2.36	0.45
7:AG:39:ILE:CD1	7:AG:39:ILE:N	2.67	0.45
7:AG:44:GLY:HA3	7:AG:88:ILE:CG2	2.46	0.45
8:AH:120:GLY:C	8:AH:135:GLY:HA2	2.35	0.45
8:AH:45:VAL:O	8:AH:46:GLU:OE1	2.34	0.45
8:AH:42:ARG:HB2	8:AH:53:GLU:HG3	1.98	0.45
32:AJ:112:MET:HE2	32:AJ:121:GLU:C	2.36	0.45
32:AJ:127:ILE:O	32:AJ:131:ALA:HB3	2.16	0.45
32:AJ:23:VAL:CG2	32:AJ:41:PHE:CZ	2.79	0.45
9:AK:136:GLU:C	9:AK:137:LYS:HG3	2.36	0.45
9:AK:15:LEU:CG	9:AK:138:LEU:O	2.48	0.45
9:AK:7:LYS:HD2	9:AK:10:GLU:HB2	1.97	0.45
9:AK:89:LYS:HA	9:AK:92:ALA:HB2	1.98	0.45
10:AL:47:ILE:CD1	10:AL:49:ARG:O	2.64	0.45
10:AL:59:LYS:CB	10:AL:85:VAL:HA	2.46	0.45
11:AM:57:THR:O	11:AM:58:THR:CB	2.63	0.45
11:AM:96:THR:HB	11:AM:99:LEU:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:67:ARG:NH2	12:AN:103:MET:O	2.49	0.45
12:AN:130:LYS:HE3	12:AN:131:ILE:C	2.35	0.45
12:AN:34:LEU:CG	12:AN:67:ARG:NH2	2.79	0.45
12:AN:59:ARG:HA	12:AN:60:ARG:NE	2.31	0.45
13:AO:98:LEU:C	13:AO:112:ALA:HB1	2.28	0.45
13:AO:20:LEU:HD21	13:AO:24:GLN:CD	2.35	0.45
14:AP:26:LEU:HD11	14:AP:37:ALA:CB	2.44	0.45
14:AP:39:ILE:HB	14:AP:48:LEU:HB2	1.97	0.45
15:AQ:38:ASN:O	15:AQ:39:ARG:O	2.34	0.45
15:AQ:37:GLY:CA	15:AQ:42:ILE:O	2.64	0.45
15:AQ:54:ARG:HD3	15:AQ:55:ASN:HD21	1.76	0.45
16:AR:46:ALA:O	16:AR:50:ARG:CD	2.53	0.45
16:AR:67:ALA:C	16:AR:71:GLN:NE2	2.70	0.45
17:AS:40:LEU:N	17:AS:54:GLY:CA	2.79	0.45
19:AU:39:ILE:CB	19:AU:54:VAL:HG11	2.46	0.45
19:AU:68:ARG:HB3	19:AU:68:ARG:HH11	1.82	0.45
20:AV:72:VAL:HG11	20:AV:96:ILE:CG2	2.43	0.45
21:AW:125:LEU:HD22	21:AW:127:LYS:HE2	1.97	0.45
21:AW:17:ALA:O	21:AW:20:ARG:HB3	2.16	0.45
21:AW:31:ARG:HB3	21:AW:31:ARG:CZ	2.42	0.45
22:AX:46:LYS:CD	22:AX:46:LYS:N	2.73	0.45
23:AY:42:ASN:O	23:AY:45:ILE:CG1	2.63	0.45
24:AZ:15:TYR:O	24:AZ:20:LYS:HD2	2.16	0.45
24:AZ:30:ARG:O	24:AZ:32:GLN:N	2.49	0.45
34:BA:1026:G:C8	34:BA:1027:C:C5	3.04	0.45
34:BA:102:G:N3	34:BA:151:A:H2	2.14	0.45
34:BA:1079:G:N2	34:BA:1080:A:C2	2.84	0.45
34:BA:1333:A:O5'	34:BA:1333:A:C8	2.64	0.45
34:BA:1517:G:N1	34:BA:1518:A:N3	2.64	0.45
34:BA:186(B):C:N3	34:BA:186(C):G:C8	2.84	0.45
34:BA:260:G:C4	34:BA:261:U:N3	2.84	0.45
34:BA:301:G:C2	34:BA:302:G:N9	2.85	0.45
34:BA:362:G:H4'	45:BP:28:LYS:NZ	2.28	0.45
34:BA:363:A:C8	45:BP:30:ALA:HB1	2.48	0.45
34:BA:363:A:N1	34:BA:364:A:C2	2.85	0.45
34:BA:50:A:N1	34:BA:361:G:O4'	2.49	0.45
34:BA:627:G:H2'	34:BA:628:G:C8	2.47	0.45
34:BA:665:A:O4'	34:BA:733:A:H1'	2.16	0.45
34:BA:774:G:H3'	34:BA:775:G:H8	1.81	0.45
34:BA:792:A:O2'	34:BA:793:U:H5''	2.16	0.45
34:BA:801:U:H2'	34:BA:802:A:C8	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:81:G:H5''	34:BA:82:U:OP2	2.15	0.45
34:BA:947:G:C4	34:BA:948:C:C6	3.04	0.45
34:BA:97:U:H2'	34:BA:99:C:C6	2.51	0.45
55:BC:16:U:C3'	55:BC:17:C:C5'	2.78	0.45
56:BE:66:U:O2'	56:BE:67:C:H5'	2.16	0.45
35:BF:109:SER:O	35:BF:111:ARG:N	2.49	0.45
35:BF:76:GLN:HG3	35:BF:206:ASP:OD2	2.16	0.45
35:BF:82:ARG:CD	35:BF:92:TYR:OH	2.54	0.45
36:BG:180:ALA:HB1	36:BG:203:PHE:HE1	1.80	0.45
36:BG:30:ARG:N	36:BG:30:ARG:CD	2.79	0.45
36:BG:40:ARG:NE	47:BR:52:GLN:NE2	2.64	0.45
36:BG:47:LEU:O	36:BG:52:LEU:HD13	2.16	0.45
36:BG:5:ILE:CD1	36:BG:10:PHE:CE2	2.99	0.45
38:BI:17:ALA:CA	38:BI:26:PHE:HD2	2.27	0.45
39:BJ:19:LEU:HD11	39:BJ:23:LYS:NZ	2.31	0.45
39:BJ:56:PRO:HG2	39:BJ:57:GLN:OE1	2.16	0.45
39:BJ:4:TYR:HD1	39:BJ:90:VAL:HG22	1.81	0.45
40:BK:64:GLN:C	40:BK:128:ALA:HA	2.36	0.45
40:BK:70:LYS:C	40:BK:138:LYS:HE3	2.36	0.45
40:BK:149:ARG:O	40:BK:151:TYR:N	2.49	0.45
40:BK:5:ARG:HB3	40:BK:5:ARG:CZ	2.45	0.45
41:BL:110:ALA:HB3	41:BL:121:ASP:OD1	2.16	0.45
41:BL:137:VAL:HG12	41:BL:138:TRP:H	1.82	0.45
45:BP:22:SER:C	45:BP:24:VAL:N	2.70	0.45
45:BP:85:ILE:CG1	45:BP:87:GLY:H	2.19	0.45
48:BS:65:ARG:CZ	48:BS:65:ARG:HB3	2.46	0.45
34:BA:586:C:P	50:BU:34:LYS:NZ	2.89	0.45
57:BZ:125:VAL:N	57:BZ:161:ALA:HB1	2.30	0.45
57:BZ:233:PRO:HB3	57:BZ:234:ASN:HA	1.97	0.45
57:BZ:239:ILE:HD12	57:BZ:288:VAL:HG22	1.99	0.45
57:BZ:49:GLU:HG2	57:BZ:49:GLU:O	2.16	0.45
57:BZ:481:GLY:C	57:BZ:573:ASP:OD1	2.53	0.45
56:BD:2:C:C5	56:BD:3:C:C4	3.04	0.45
56:BD:5:G:C1'	56:BD:69:G:H1'	2.46	0.45
1:AA:131:G:C2	1:AA:132:G:N7	2.84	0.45
57:BZ:232:LYS:HE3	57:BZ:232:LYS:HB3	1.65	0.45
32:AJ:134:MET:SD	32:AJ:134:MET:C	2.95	0.45
1:AA:1067:A:H5''	32:AJ:21:PRO:CB	2.36	0.45
1:AA:1237:A:O2'	1:AA:1238:G:C4'	2.62	0.45
1:AA:1338:G:N2	1:AA:1393:A:H2	2.15	0.45
1:AA:1534:G:H1'	1:AA:1536:A:H62	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1686:C:N4	1:AA:1703:G:O6	2.49	0.45
1:AA:1725:G:C2	1:AA:1726:G:C8	3.04	0.45
1:AA:1786:A:C2'	1:AA:1787:A:H5'	2.46	0.45
1:AA:1789:A:H4'	4:AD:222:ARG:NH1	2.31	0.45
1:AA:1813:G:O3'	4:AD:46:GLN:HG2	2.16	0.45
1:AA:1908:C:H2'	1:AA:1909:C:H6	1.73	0.45
1:AA:191:A:N3	1:AA:192:C:H1'	2.31	0.45
1:AA:1947:C:N3	1:AA:1948:G:N7	2.65	0.45
1:AA:2029:G:N1	1:AA:2033:A:OP2	2.44	0.45
1:AA:2232:U:C2'	1:AA:2233:U:O5'	2.64	0.45
1:AA:2246:G:N3	1:AA:2247:A:C8	2.84	0.45
1:AA:2285:C:C3'	1:AA:2285:C:C6	2.99	0.45
1:AA:2305:A:C3'	1:AA:2306:C:C5'	2.94	0.45
1:AA:2331:G:H3'	1:AA:2332:U:C6	2.51	0.45
1:AA:2346:A:O2'	1:AA:2347:C:OP2	2.32	0.45
1:AA:2373:G:OP2	1:AA:2373:G:C8	2.68	0.45
1:AA:2585:U:O2	1:AA:2585:U:C2'	2.57	0.45
1:AA:2606:C:C2	1:AA:2607:G:N7	2.84	0.45
1:AA:2673:G:N3	1:AA:2674:G:C8	2.84	0.45
1:AA:2691:C:N4	1:AA:2719:G:N2	2.64	0.45
1:AA:2742:C:O2	1:AA:2742:C:C2'	2.64	0.45
1:AA:2776:A:H1'	1:AA:2778:A:H5''	1.99	0.45
1:AA:2780:G:H2'	1:AA:2781:A:H5''	1.96	0.45
1:AA:30:G:H2'	1:AA:31:C:C6	2.51	0.45
1:AA:236:C:C4'	1:AA:431:U:H1'	2.46	0.45
1:AA:449:A:OP2	6:AF:85:GLY:HA2	2.16	0.45
1:AA:489:G:C4	1:AA:491:G:C8	3.04	0.45
1:AA:653:A:H5'	1:AA:654:A:H4'	1.96	0.45
1:AA:6:A:C2	1:AA:2897:U:C1'	3.00	0.45
1:AA:705:A:N6	1:AA:727:A:C8	2.83	0.45
1:AA:773:U:O2'	1:AA:774:A:OP1	2.30	0.45
1:AA:88:G:C5'	1:AA:89:G:OP2	2.57	0.45
1:AA:915:C:O2'	1:AA:916:G:H5'	2.16	0.45
1:AA:974:G:C8	1:AA:974(A):C:O4'	2.69	0.45
2:AB:30:C:C5	2:AB:31:C:C6	3.05	0.45
2:AB:37:C:N3	2:AB:48:A:O2'	2.47	0.45
1:AA:2125:G:H3'	3:AC:217:THR:OG1	2.16	0.45
3:AC:59:ARG:HB2	3:AC:59:ARG:HH11	1.81	0.45
3:AC:73:ARG:HB3	3:AC:93:TYR:CE2	2.52	0.45
3:AC:89:ALA:HB1	3:AC:154:ARG:HA	1.95	0.45
4:AD:117:VAL:CG1	4:AD:129:ASN:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:247:ALA:O	4:AD:250:TRP:HB2	2.16	0.45
4:AD:54:ARG:HB3	4:AD:218:ARG:CB	2.44	0.45
4:AD:85:ASP:C	4:AD:87:ASN:N	2.66	0.45
5:AE:111:ARG:HB2	5:AE:160:TYR:C	2.37	0.45
1:AA:1658:C:OP1	5:AE:134:ILE:CG1	2.64	0.45
5:AE:13:ARG:CZ	5:AE:21:VAL:N	2.80	0.45
5:AE:51:PHE:C	5:AE:51:PHE:CD1	2.87	0.45
1:AA:659:C:C5'	6:AF:102:PRO:HD3	2.45	0.45
6:AF:168:ARG:H	6:AF:168:ARG:HG3	1.36	0.45
6:AF:178:PRO:O	6:AF:180:GLY:N	2.41	0.45
6:AF:21:ALA:O	6:AF:22:ALA:HB3	2.16	0.45
7:AG:144:ILE:HG23	7:AG:145:THR:N	2.30	0.45
7:AG:21:ARG:NH1	7:AG:27:ASN:HA	2.31	0.45
1:AA:2661:G:N1	8:AH:175:LYS:HE3	2.28	0.45
8:AH:74:ASN:O	8:AH:76:VAL:N	2.50	0.45
9:AK:109:LYS:HE3	9:AK:111:PRO:CD	2.46	0.45
9:AK:117:PHE:CA	9:AK:120:LEU:HB3	2.42	0.45
10:AL:80:ASP:OD2	10:AL:82:ASN:ND2	2.48	0.45
10:AL:89:ASN:O	10:AL:90:GLN:CB	2.64	0.45
11:AM:112:LEU:O	11:AM:128:HIS:HE1	1.94	0.45
11:AM:58:THR:CG2	11:AM:60:MET:HG2	2.46	0.45
1:AA:955:C:OP1	12:AN:17:LEU:HG	2.16	0.45
12:AN:62:GLY:N	21:AW:177:PRO:HA	2.31	0.45
13:AO:20:LEU:O	13:AO:22:ARG:N	2.49	0.45
14:AP:106:ARG:HD2	14:AP:107:GLU:OE2	2.15	0.45
14:AP:11:LYS:HA	14:AP:14:VAL:CB	2.47	0.45
15:AQ:53:ARG:NH2	15:AQ:101:PHE:H	2.14	0.45
15:AQ:64:ARG:CD	15:AQ:65:LYS:H	1.99	0.45
15:AQ:87:ASP:OD2	15:AQ:88:ILE:N	2.49	0.45
18:AT:47:VAL:O	18:AT:51:LEU:CD1	2.57	0.45
18:AT:18:ARG:CD	18:AT:76:VAL:H	2.29	0.45
1:AA:85:G:P	20:AV:28:LYS:HE3	2.57	0.45
20:AV:2:ARG:NH2	20:AV:4:LYS:HB2	2.19	0.45
20:AV:86:ARG:CA	20:AV:91:GLU:HB3	2.47	0.45
21:AW:102:LEU:HG	21:AW:125:LEU:CG	2.46	0.45
22:AX:27:GLU:CB	22:AX:69:PHE:CE1	2.97	0.45
34:BA:1027:C:N3	34:BA:1028:C:C5	2.84	0.45
34:BA:1068:G:C8	34:BA:1094:G:C8	3.04	0.45
34:BA:1082:G:O2'	34:BA:1083:U:H5'	2.15	0.45
34:BA:1134:G:N2	34:BA:1136:U:C4	2.84	0.45
34:BA:1176:A:N6	34:BA:1177:G:N1	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1224:G:C6	34:BA:1322:C:H4'	2.51	0.45
34:BA:1225:A:N3	34:BA:1225:A:H2'	2.32	0.45
34:BA:1343:G:C5	34:BA:1344:C:C4	3.04	0.45
34:BA:1409:C:H2'	34:BA:1410:G:H8	1.81	0.45
34:BA:181:G:H2'	34:BA:182:U:OP2	2.17	0.45
34:BA:375:U:O3'	49:BT:6:LEU:HD11	2.15	0.45
34:BA:398:C:H2'	34:BA:399:G:H8	1.81	0.45
34:BA:468:A:N6	34:BA:474:G:C6	2.84	0.45
34:BA:509:A:C6	34:BA:510:A:N1	2.85	0.45
34:BA:564:C:H2'	34:BA:565:U:O4'	2.16	0.45
34:BA:589:C:N4	34:BA:590:C:H41	2.14	0.45
34:BA:690:G:H2'	34:BA:691:G:O5'	2.17	0.45
34:BA:18:C:N4	34:BA:918:A:H61	2.13	0.45
34:BA:934:C:N4	34:BA:939:G:N1	2.64	0.45
34:BA:95:G:H2'	34:BA:96:G:H5'	1.98	0.45
56:BE:73:A:O3'	56:BE:74:C:O4'	2.34	0.45
35:BF:100:GLY:C	35:BF:104:ASN:ND2	2.69	0.45
34:BA:1104:G:H4'	35:BF:111:ARG:NH2	2.31	0.45
35:BF:179:LYS:HG2	41:BL:72:PRO:HA	1.98	0.45
35:BF:58:ILE:HB	35:BF:221:LEU:HG	1.98	0.45
36:BG:140:ARG:HB3	36:BG:140:ARG:HH11	1.75	0.45
36:BG:152:ILE:O	36:BG:199:LYS:O	2.33	0.45
37:BH:60:GLU:OE1	37:BH:202:LEU:HD12	2.15	0.45
37:BH:61:LYS:HA	37:BH:203:VAL:CG1	2.46	0.45
37:BH:62:GLN:C	37:BH:66:ARG:HD2	2.36	0.45
37:BH:85:LYS:O	37:BH:86:LYS:O	2.34	0.45
38:BI:20:GLN:NE2	38:BI:21:ALA:HB3	2.29	0.45
38:BI:35:GLY:N	38:BI:112:LEU:CD1	2.79	0.45
40:BK:155:ARG:C	40:BK:156:TRP:HE3	2.19	0.45
40:BK:17:VAL:O	40:BK:18:TYR:CD1	2.69	0.45
40:BK:47:CYS:O	40:BK:50:ILE:HB	2.17	0.45
41:BL:28:ALA:HA	41:BL:59:LEU:HD12	1.98	0.45
41:BL:46:LYS:HG3	41:BL:64:LYS:HB2	1.97	0.45
42:BM:69:GLY:O	42:BM:70:LYS:C	2.55	0.45
43:BN:49:VAL:HG22	47:BR:41:ARG:HB2	1.97	0.45
44:BO:106:LYS:CG	44:BO:107:SER:N	2.77	0.45
44:BO:58:PRO:HB3	44:BO:90:GLY:HA2	1.93	0.45
45:BP:88:GLY:O	45:BP:89:ARG:C	2.55	0.45
45:BP:53:ARG:NH1	45:BP:93:LEU:HD22	2.32	0.45
47:BR:35:ARG:O	47:BR:38:GLY:N	2.48	0.45
51:BV:59:SER:O	51:BV:60:ALA:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:100:ILE:C	53:BX:102:GLY:H	2.14	0.45
53:BX:86:ARG:O	53:BX:90:GLN:OE1	2.34	0.45
54:BY:4:GLY:C	54:BY:6:ARG:H	2.18	0.45
57:BZ:15:ASP:HB2	57:BZ:16:HIS:CD2	2.28	0.45
57:BZ:267:LEU:CD2	57:BZ:268:ALA:N	2.75	0.45
57:BZ:374:ARG:CA	57:BZ:582:PRO:HA	2.46	0.45
57:BZ:519:TYR:CZ	57:BZ:586:ARG:NH2	2.81	0.45
57:BZ:581:THR:OG1	57:BZ:584:SER:HB2	2.15	0.45
57:BZ:59:LYS:CB	57:BZ:59:LYS:NZ	2.76	0.45
57:BZ:68:TYR:O	57:BZ:69:ARG:HB2	2.15	0.45
57:BZ:88:VAL:CG1	57:BZ:92:VAL:CG1	2.88	0.45
57:BZ:539:THR:OG1	57:BZ:541:LYS:HD3	2.16	0.45
23:AY:2:ARG:HA	23:AY:5:LEU:CD1	2.28	0.45
34:BA:513:C:N3	34:BA:514:C:C5	2.84	0.45
1:AA:1231:G:H2'	1:AA:1232:G:H8	1.82	0.45
1:AA:1014:U:H2'	1:AA:1015:G:H5'	1.98	0.45
1:AA:107:C:C5'	1:AA:293:U:O4'	2.65	0.45
1:AA:1055:G:C2	1:AA:1084:A:C2	3.01	0.45
1:AA:1104:C:H2'	1:AA:1105:U:H6	1.80	0.45
1:AA:1036:G:O6	1:AA:1120:G:O6	2.22	0.45
1:AA:1120:G:C4	1:AA:1121:C:C5	3.05	0.45
1:AA:1165:U:C2	1:AA:1166:C:C5	3.05	0.45
1:AA:1313:U:O2	1:AA:1314:C:C5	2.69	0.45
1:AA:1364:G:C2	1:AA:1367:A:OP2	2.69	0.45
1:AA:1407:C:H3'	1:AA:1407:C:OP2	2.16	0.45
1:AA:1419:A:OP2	1:AA:1419:A:O4'	2.34	0.45
1:AA:1449:A:C2	1:AA:1449(A):G:C4	3.04	0.45
1:AA:1615:C:N4	1:AA:1617:C:O2	2.50	0.45
1:AA:1630:G:N1	1:AA:1637:A:C6	2.84	0.45
1:AA:1635:G:H2'	1:AA:1636:C:H6	1.81	0.45
1:AA:1684:C:N4	1:AA:1705:G:N1	2.64	0.45
1:AA:1689:A:C5	1:AA:1700:A:C6	3.04	0.45
1:AA:1804:C:C2'	1:AA:1805:U:O5'	2.64	0.45
1:AA:1850:G:C6	1:AA:1851:U:C4	3.04	0.45
1:AA:1858:G:O2'	1:AA:1859:A:O5'	2.34	0.45
1:AA:1892:C:N3	1:AA:1893:C:C5	2.83	0.45
1:AA:1928:A:H2'	1:AA:1929:G:O4'	2.15	0.45
1:AA:1933:G:O6	1:AA:1968:G:C2	2.68	0.45
1:AA:1957:C:C2'	1:AA:1958:C:O5'	2.65	0.45
1:AA:1983:C:O2'	1:AA:1984:G:C5'	2.58	0.45
1:AA:2091:U:O4	1:AA:2092:U:C5	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:19:C:C2	1:AA:20:C:C5	3.04	0.45
1:AA:2114:A:H2'	1:AA:2115:G:O4'	2.17	0.45
1:AA:2175:C:N3	1:AA:2176:A:N7	2.64	0.45
1:AA:218:A:H2'	1:AA:219:G:C8	2.51	0.45
1:AA:2239:G:H2'	1:AA:2239:G:N3	2.32	0.45
1:AA:2244:U:O2	1:AA:2244:U:H2'	2.17	0.45
1:AA:2249:U:O4	1:AA:2253:G:OP2	2.35	0.45
1:AA:2259:G:H2'	1:AA:2260:C:H6	1.82	0.45
1:AA:966:G:C2'	1:AA:2267:A:N6	2.78	0.45
1:AA:2345:G:N2	1:AA:2382:G:OP2	2.49	0.45
1:AA:233:A:C2'	1:AA:234:C:O5'	2.64	0.45
1:AA:2415:G:C4	1:AA:2416:C:C5	3.04	0.45
1:AA:247:G:HO2'	1:AA:386:G:N2	2.14	0.45
1:AA:2484:G:O2'	1:AA:2485:G:H5'	2.17	0.45
1:AA:2250:G:O2'	1:AA:2496:C:C5'	2.63	0.45
1:AA:249:C:OP2	1:AA:2394:C:O2'	2.25	0.45
1:AA:2051:A:C5	1:AA:2614:A:N6	2.85	0.45
1:AA:2694:G:H2'	1:AA:2695:C:O5'	2.16	0.45
1:AA:2820:A:H4'	13:AO:4:LEU:CD2	2.46	0.45
1:AA:2828:C:C2	1:AA:2829:C:H5	2.28	0.45
1:AA:280:C:C5	1:AA:283:A:N7	2.84	0.45
1:AA:371:A:C5	1:AA:424:G:O4'	2.69	0.45
1:AA:50:U:C6	1:AA:50:U:C3'	2.99	0.45
1:AA:533:G:C6	1:AA:534:U:C2	3.04	0.45
1:AA:578:A:C3'	1:AA:579:G:H5''	2.46	0.45
1:AA:597:U:H2'	1:AA:598:G:C8	2.51	0.45
1:AA:602:G:N2	1:AA:655:A:C3'	2.80	0.45
1:AA:607:U:C2	1:AA:608:A:H8	2.33	0.45
1:AA:603:A:N6	1:AA:625:G:C8	2.84	0.45
1:AA:693:C:H2'	1:AA:694:U:O5'	2.16	0.45
1:AA:723:G:C2	1:AA:724:U:H1'	2.50	0.45
1:AA:762:U:H1'	1:AA:763:G:C4	2.51	0.45
1:AA:774:A:C5'	1:AA:778:G:O4'	2.64	0.45
1:AA:840:C:H6	1:AA:840:C:O5'	1.99	0.45
1:AA:994:C:H5''	1:AA:995:C:OP1	2.17	0.45
2:AB:104:A:H3'	2:AB:105:G:O4'	2.16	0.45
2:AB:46:A:C2'	2:AB:47:C:C6	2.78	0.45
2:AB:6:C:C2'	2:AB:7:G:O5'	2.65	0.45
1:AA:2177:C:O5'	3:AC:213:TYR:HE2	1.68	0.45
3:AC:97:GLU:HG2	3:AC:100:ILE:HD12	1.99	0.45
4:AD:61:LEU:HB3	4:AD:62:TYR:H	1.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:163:GLU:N	5:AE:163:GLU:OE1	2.50	0.45
5:AE:34:VAL:CG1	5:AE:36:ARG:NH2	2.79	0.45
6:AF:35:GLU:N	6:AF:38:ARG:HD2	2.30	0.45
6:AF:37:VAL:O	6:AF:41:LEU:CG	2.64	0.45
6:AF:57:VAL:O	6:AF:60:SER:OG	2.29	0.45
8:AH:97:ARG:O	8:AH:104:GLU:CG	2.64	0.45
8:AH:97:ARG:NH1	8:AH:104:GLU:OE2	2.49	0.45
8:AH:124:GLU:HB3	8:AH:132:ARG:NH1	2.32	0.45
8:AH:75:ALA:O	8:AH:79:VAL:HG13	2.17	0.45
8:AH:76:VAL:CA	8:AH:79:VAL:HG22	2.45	0.45
8:AH:80:SER:OG	8:AH:81:GLU:OE2	2.33	0.45
32:AJ:14:ALA:HB2	32:AJ:53:VAL:HB	1.98	0.45
9:AK:109:LYS:HZ2	9:AK:109:LYS:HA	1.81	0.45
9:AK:72:TYR:O	9:AK:72:TYR:HD2	1.99	0.45
9:AK:99:LEU:O	9:AK:103:VAL:HG13	2.17	0.45
10:AL:101:PRO:CD	10:AL:119:PRO:O	2.63	0.45
11:AM:124:LYS:NZ	11:AM:141:ALA:HB1	2.31	0.45
11:AM:85:LEU:O	11:AM:86:LYS:HE2	2.16	0.45
13:AO:52:ILE:CD1	13:AO:56:LYS:HG2	2.47	0.45
13:AO:75:LEU:HD23	13:AO:78:LYS:HB3	1.98	0.45
13:AO:93:GLY:C	13:AO:95:THR:N	2.68	0.45
14:AP:35:ILE:HG13	14:AP:36:TYR:N	2.31	0.45
2:AB:50:G:P	14:AP:63:THR:OG1	2.74	0.45
15:AQ:28:VAL:HG22	15:AQ:93:ARG:CA	2.46	0.45
15:AQ:52:ILE:N	15:AQ:66:VAL:CG1	2.73	0.45
15:AQ:7:ILE:O	15:AQ:10:VAL:N	2.49	0.45
16:AR:11:ARG:CG	16:AR:12:ARG:N	2.80	0.45
16:AR:52:ARG:CB	16:AR:55:ARG:HD3	2.46	0.45
17:AS:16:PRO:HD3	17:AS:100:ARG:HH11	1.76	0.45
17:AS:42:GLY:O	17:AS:49:THR:O	2.34	0.45
17:AS:68:LYS:HZ2	17:AS:95:LEU:CD1	2.29	0.45
18:AT:10:VAL:CG2	18:AT:12:ILE:HD11	2.46	0.45
18:AT:59:VAL:C	18:AT:63:ASP:HA	2.36	0.45
19:AU:90:GLU:O	19:AU:93:GLU:HG2	2.14	0.45
20:AV:105:ALA:C	20:AV:107:ASP:H	2.20	0.45
20:AV:1:MET:HE2	20:AV:67:LEU:HD23	1.97	0.45
21:AW:44:PHE:O	21:AW:47:VAL:HB	2.16	0.45
21:AW:1:MET:CE	21:AW:59:LEU:HD22	2.46	0.45
22:AX:40:GLN:HE21	22:AX:57:PHE:HB3	1.80	0.45
2:AB:12:C:C4'	22:AX:74:ARG:HE	2.27	0.45
34:BA:1099:G:N7	34:BA:1100:C:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1109:C:N1	34:BA:1110:A:C8	2.84	0.45
34:BA:1111:A:C5	34:BA:1112:C:N4	2.85	0.45
34:BA:1213:A:H2'	34:BA:1215:G:N7	2.31	0.45
34:BA:1269:A:H2'	34:BA:1270:C:O4'	2.15	0.45
34:BA:1256:A:N6	34:BA:1278:U:HO2'	2.11	0.45
34:BA:1316:G:H5''	47:BR:17:LYS:CD	2.46	0.45
34:BA:1342:C:O2'	34:BA:1343:G:H5'	2.17	0.45
34:BA:1399:C:C2	34:BA:1502:A:N6	2.85	0.45
34:BA:1429:C:H2'	34:BA:1430:C:C5	2.50	0.45
34:BA:1451:A:H5''	34:BA:1452:C:C5	2.50	0.45
34:BA:1485:U:O2'	34:BA:1486:G:H5'	2.16	0.45
34:BA:144:G:C6	34:BA:179:A:C6	3.05	0.45
34:BA:251:G:O4'	34:BA:252:U:C5	2.70	0.45
34:BA:275:G:C2	34:BA:276:G:C8	3.04	0.45
34:BA:342:C:O2'	34:BA:343:U:H5'	2.16	0.45
34:BA:61:G:C8	34:BA:62:U:C5	3.05	0.45
34:BA:679:C:O5'	34:BA:679:C:H6	2.00	0.45
34:BA:721:G:H1'	34:BA:722:A:C2	2.52	0.45
34:BA:752:G:O2'	34:BA:753:A:P	2.75	0.45
34:BA:714:G:C1'	34:BA:777:A:N7	2.77	0.45
34:BA:781:A:N7	34:BA:802:A:N1	2.64	0.45
34:BA:811:C:C3'	34:BA:811:C:C6	2.98	0.45
34:BA:878:G:OP1	41:BL:88:LYS:HB2	2.17	0.45
34:BA:99:C:H2'	34:BA:101:A:C8	2.52	0.45
35:BF:19:HIS:C	35:BF:39:ILE:HD11	2.37	0.45
35:BF:32:ILE:CG2	35:BF:32:ILE:O	2.61	0.45
36:BG:77:ILE:CD1	36:BG:103:VAL:HG21	2.45	0.45
36:BG:185:GLY:O	36:BG:199:LYS:HA	2.16	0.45
36:BG:30:ARG:CG	36:BG:31:HIS:H	2.09	0.45
36:BG:33:LEU:HD11	47:BR:53:LEU:CA	2.28	0.45
37:BH:13:ARG:CA	37:BH:32:ALA:HB2	2.47	0.45
38:BI:105:VAL:HG13	38:BI:132:ALA:HA	1.96	0.45
41:BL:49:GLU:O	41:BL:59:LEU:HD23	2.17	0.45
41:BL:79:VAL:HG12	41:BL:80:ILE:N	2.31	0.45
42:BM:101:PHE:O	42:BM:102:LEU:CD2	2.65	0.45
42:BM:112:LYS:HG3	42:BM:117:HIS:CA	2.41	0.45
46:BQ:29:ARG:HD2	46:BQ:66:LEU:HD11	1.55	0.45
47:BR:23:ARG:CA	47:BR:33:VAL:HG21	2.46	0.45
47:BR:34:TYR:CZ	47:BR:44:LEU:HD22	2.51	0.45
48:BS:34:LEU:HD12	48:BS:38:ARG:NE	2.29	0.45
48:BS:6:GLU:O	48:BS:8:LYS:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:101:ARG:HG2	50:BU:102:GLY:H	1.82	0.45
50:BU:6:LEU:O	50:BU:6:LEU:HD12	2.15	0.45
50:BU:80:GLY:O	50:BU:81:ARG:C	2.54	0.45
52:BW:36:ARG:HB2	52:BW:71:LEU:CB	2.45	0.45
34:BA:1221:G:H1'	52:BW:55:LYS:HB2	1.98	0.45
53:BX:98:PRO:O	53:BX:99:LEU:C	2.54	0.45
57:BZ:405:LEU:HB3	57:BZ:455:PHE:HZ	1.80	0.45
57:BZ:6:ARG:O	57:BZ:72:ILE:HD11	2.16	0.45
57:BZ:502:PHE:HZ	57:BZ:556:VAL:O	1.85	0.45
56:BD:47:U:H5'	56:BD:47:U:O2	2.16	0.45
57:BZ:499:PHE:N	57:BZ:540:GLY:HA2	2.31	0.45
57:BZ:539:THR:H	57:BZ:540:GLY:HA3	1.80	0.45
18:AT:85:VAL:HG12	18:AT:95:ILE:CG2	2.46	0.45
45:BP:125:PRO:O	45:BP:127:GLU:N	2.46	0.45
1:AA:1062:G:C4	1:AA:1063:G:C8	3.04	0.45
1:AA:1122:G:N2	1:AA:1123:C:N1	2.64	0.45
1:AA:1128:A:N1	1:AA:1129:A:C6	2.84	0.45
1:AA:1161:C:H2'	1:AA:1162:G:O4'	2.16	0.45
1:AA:1184:G:P	24:AZ:30:ARG:HH11	2.39	0.45
1:AA:1325:G:H21	18:AT:86:LEU:CD1	2.18	0.45
1:AA:1342:A:N9	1:AA:1345:C:N4	2.64	0.45
1:AA:147:U:C4	1:AA:148:C:N4	2.85	0.45
1:AA:1523:U:N3	1:AA:1524:G:C8	2.84	0.45
1:AA:1525:G:H2'	1:AA:1526:G:O5'	2.16	0.45
1:AA:1449:A:H4'	1:AA:1542:G:H21	1.80	0.45
1:AA:1429:G:H1'	1:AA:1568:G:C2	2.51	0.45
1:AA:1698:A:O2'	1:AA:1699:G:H3'	2.16	0.45
1:AA:1743:G:H3'	1:AA:1746:G:C8	2.34	0.45
1:AA:1799:G:C5	1:AA:1819:A:N7	2.84	0.45
1:AA:47:C:C2	1:AA:179:G:C2	3.04	0.45
1:AA:2178:C:C5'	3:AC:213:TYR:OH	2.65	0.45
1:AA:2213:U:H5''	1:AA:2213:U:C2	2.50	0.45
1:AA:2213:U:H5'	1:AA:2215:G:C6	2.49	0.45
1:AA:2532:G:C8	1:AA:2533:A:N7	2.85	0.45
1:AA:2547:U:C6	1:AA:2547:U:H5''	2.52	0.45
1:AA:2557:G:O2'	57:BZ:544:THR:CG2	2.61	0.45
1:AA:2682:U:O2'	1:AA:2683:C:H5'	2.16	0.45
1:AA:270:A:C5	1:AA:270(A):A:C8	3.05	0.45
1:AA:271(B):G:C3'	1:AA:271(C):U:H5'	2.46	0.45
1:AA:2723:C:O2'	1:AA:2724:C:H5'	2.16	0.45
1:AA:2726:U:H4'	1:AA:2727:G:OP1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2766:G:N3	1:AA:2767:C:C6	2.84	0.45
1:AA:2781:A:H8	1:AA:2781:A:H3'	1.69	0.45
1:AA:2805:G:C2'	1:AA:2807:G:C4'	2.94	0.45
1:AA:281:G:H2'	1:AA:282:A:OP2	2.16	0.45
1:AA:2846:G:N3	1:AA:2846:G:H2'	2.31	0.45
1:AA:2852:G:H2'	1:AA:2853:C:H6	1.74	0.45
1:AA:2879:C:C5'	1:AA:2880:C:OP1	2.64	0.45
1:AA:387:U:O2'	1:AA:388:G:N7	2.48	0.45
1:AA:449:A:H4'	6:AF:52:LYS:HZ2	1.82	0.45
1:AA:459:U:H5	1:AA:469:G:C2	2.33	0.45
1:AA:479:A:N3	1:AA:480:A:C5	2.84	0.45
1:AA:499:U:O4	1:AA:500:G:N2	2.50	0.45
1:AA:500:G:C2'	1:AA:501:A:H3'	2.46	0.45
1:AA:539:G:C2	1:AA:540:G:N7	2.84	0.45
1:AA:570:G:H2'	1:AA:2030:A:C6	2.51	0.45
1:AA:609:A:H61	1:AA:619:G:H21	1.63	0.45
1:AA:620:G:O4'	1:AA:620:G:OP2	2.35	0.45
1:AA:879:G:N1	1:AA:898:C:C2	2.74	0.45
1:AA:820:A:OP2	1:AA:973:A:N6	2.50	0.45
1:AA:996:A:N3	1:AA:997:G:N7	2.64	0.45
2:AB:37:C:O2	2:AB:49:C:H5'	2.16	0.45
2:AB:49:C:C2	2:AB:50:G:C8	3.05	0.45
4:AD:145:VAL:HG13	4:AD:190:TYR:O	2.16	0.45
1:AA:1566:A:N3	4:AD:215:LEU:HD22	2.31	0.45
4:AD:27:THR:HG22	4:AD:29:PRO:HD3	1.90	0.45
4:AD:49:ILE:HD12	4:AD:49:ILE:N	2.32	0.45
4:AD:96:HIS:CE1	4:AD:102:LYS:CD	2.93	0.45
5:AE:125:GLY:H	5:AE:136:ARG:CA	2.24	0.45
5:AE:201:THR:O	5:AE:202:LYS:CB	2.63	0.45
5:AE:48:GLN:H	5:AE:48:GLN:NE2	2.11	0.45
5:AE:53:PRO:HG2	5:AE:75:VAL:CG1	2.45	0.45
5:AE:8:LYS:HD3	5:AE:9:VAL:CB	2.47	0.45
5:AE:99:GLY:N	5:AE:172:VAL:CG2	2.80	0.45
7:AG:2:PRO:C	7:AG:5:VAL:HB	2.34	0.45
32:AJ:75:SER:HA	32:AJ:78:ILE:HD12	1.99	0.45
32:AJ:85:GLU:OE2	32:AJ:96:VAL:HG21	2.15	0.45
1:AA:1137:G:O2'	9:AK:102:ALA:O	2.35	0.45
9:AK:34:LEU:HD22	9:AK:116:LEU:CD2	2.47	0.45
9:AK:39:ARG:HG2	9:AK:40:PRO:N	2.32	0.45
10:AL:56:ASP:O	10:AL:56:ASP:OD1	2.34	0.45
11:AM:107:LYS:HZ1	11:AM:110:TYR:CB	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:88:LEU:HG	11:AM:124:LYS:CE	2.46	0.45
12:AN:27:VAL:HG12	12:AN:102:VAL:HG21	1.99	0.45
12:AN:32:TYR:CD1	12:AN:32:TYR:N	2.85	0.45
12:AN:48:GLU:HA	12:AN:51:ARG:HG3	1.98	0.45
12:AN:56:ARG:O	12:AN:57:HIS:C	2.54	0.45
13:AO:34:ILE:O	13:AO:113:LEU:HD22	2.17	0.45
1:AA:1453:A:C8	13:AO:73:VAL:HG11	2.51	0.45
14:AP:36:TYR:HD1	14:AP:51:ALA:HB3	1.81	0.45
15:AQ:108:ARG:O	15:AQ:110:ILE:HG13	2.16	0.45
15:AQ:63:VAL:C	15:AQ:64:ARG:NH1	2.70	0.45
16:AR:52:ARG:O	16:AR:53:ARG:C	2.53	0.45
16:AR:86:ALA:HB3	16:AR:90:VAL:HG22	1.99	0.45
17:AS:40:LEU:CD1	17:AS:55:ALA:CA	2.92	0.45
17:AS:40:LEU:CB	17:AS:51:VAL:HG13	2.47	0.45
17:AS:5:VAL:O	17:AS:6:LYS:HB2	2.17	0.45
18:AT:24:ILE:CG2	18:AT:35:ILE:HG23	2.45	0.45
18:AT:81:ALA:HB3	18:AT:97:LYS:HB2	1.98	0.45
20:AV:49:VAL:HG23	20:AV:52:SER:H	1.82	0.45
22:AX:23:VAL:CG2	22:AX:44:ARG:HH12	2.30	0.45
23:AY:48:LEU:CD1	23:AY:51:GLN:HE22	2.29	0.45
24:AZ:50:VAL:CG2	24:AZ:53:LEU:HD12	2.44	0.45
34:BA:1048:G:OP1	47:BR:3:ARG:HD2	2.17	0.45
34:BA:110:C:C2'	34:BA:111:G:C5'	2.94	0.45
34:BA:1114:C:C2	34:BA:1187:G:N1	2.84	0.45
34:BA:1225:A:H5'	52:BW:78:ARG:CG	2.25	0.45
34:BA:1270:C:O4'	34:BA:1313:U:C4'	2.60	0.45
34:BA:1284:C:C4	34:BA:1285:A:C5	3.04	0.45
34:BA:1307:U:C4	34:BA:1308:U:C5	3.04	0.45
34:BA:1394:A:C3'	34:BA:1395:C:H5'	2.47	0.45
34:BA:1510:U:C2'	34:BA:1511:G:C8	2.92	0.45
34:BA:1523:G:C6	34:BA:1524:C:C4	3.04	0.45
34:BA:1099:G:HO2'	34:BA:1542:U:H4'	1.74	0.45
34:BA:267:C:C2	34:BA:268:C:C5	3.04	0.45
34:BA:311:C:O2'	34:BA:312:C:H5'	2.17	0.45
34:BA:320:C:O2'	34:BA:321:A:C5'	2.65	0.45
34:BA:343:U:C2'	34:BA:344:A:O5'	2.64	0.45
34:BA:35:G:N3	45:BP:118:SER:OG	2.37	0.45
34:BA:483:C:C3'	34:BA:483:C:C6	3.00	0.45
34:BA:697:U:O5'	34:BA:697:U:C6	2.62	0.45
34:BA:833:U:C2'	34:BA:834:C:H6	2.30	0.45
34:BA:955:U:H2'	34:BA:956:U:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:956:U:C2	34:BA:960:U:O4	2.70	0.45
35:BF:213:LEU:CD2	35:BF:213:LEU:C	2.82	0.45
36:BG:27:LYS:HE3	36:BG:27:LYS:HB2	1.79	0.45
36:BG:36:ASP:HA	36:BG:39:ILE:CD1	2.40	0.45
37:BH:100:ARG:HG2	37:BH:100:ARG:HH11	1.81	0.45
37:BH:170:VAL:CG1	37:BH:174:LEU:HD12	2.45	0.45
37:BH:200:GLU:HG3	37:BH:201:GLN:NE2	2.29	0.45
37:BH:80:GLU:O	37:BH:83:SER:OG	2.34	0.45
38:BI:151:LEU:HD11	41:BL:67:PRO:HG2	1.98	0.45
40:BK:126:ASP:O	40:BK:131:LYS:CG	2.65	0.45
40:BK:147:ALA:C	40:BK:149:ARG:H	2.19	0.45
40:BK:21:VAL:HG23	40:BK:22:LEU:HD22	1.99	0.45
34:BA:598:U:C4'	41:BL:94:TYR:HD2	2.17	0.45
42:BM:125:TYR:HB3	42:BM:126:SER:H	1.58	0.45
43:BN:55:LYS:O	43:BN:55:LYS:HG3	2.16	0.45
44:BO:71:LYS:O	44:BO:74:ALA:CB	2.62	0.45
45:BP:52:LEU:N	45:BP:52:LEU:CD2	2.79	0.45
45:BP:60:LEU:CD2	45:BP:64:TYR:HB3	2.46	0.45
46:BQ:19:LEU:CD1	46:BQ:30:ALA:HB2	2.47	0.45
47:BR:29:ARG:HD2	47:BR:42:ILE:HD11	1.98	0.45
34:BA:995:C:C2'	47:BR:4:LYS:HE2	2.46	0.45
48:BS:79:ARG:NH1	48:BS:79:ARG:HB3	2.31	0.45
49:BT:66:PRO:C	49:BT:67:THR:O	2.52	0.45
50:BU:7:THR:CG2	50:BU:57:VAL:O	2.58	0.45
34:BA:663:A:H4'	51:BV:61:LYS:HZ1	1.81	0.45
51:BV:80:PRO:O	51:BV:81:PHE:CD1	2.69	0.45
52:BW:71:LEU:O	52:BW:72:GLY:C	2.54	0.45
53:BX:50:GLU:CB	53:BX:99:LEU:HD12	2.46	0.45
53:BX:63:ILE:HG23	53:BX:72:LEU:CD1	2.47	0.45
53:BX:91:LEU:C	53:BX:93:GLU:H	2.20	0.45
54:BY:23:PRO:C	54:BY:25:LYS:N	2.69	0.45
57:BZ:310:PHE:HA	57:BZ:385:PRO:HG3	1.97	0.45
57:BZ:58:ALA:HB3	57:BZ:60:ASN:ND2	2.31	0.45
57:BZ:556:VAL:C	57:BZ:557:LEU:HG	2.36	0.45
56:BD:2:C:C5	56:BD:3:C:C5	3.04	0.45
1:AA:2797:U:H4'	1:AA:2798:C:C1'	2.47	0.45
1:AA:1767:C:C4	1:AA:1768:U:C4	3.04	0.45
34:BA:1533:C:H2'	34:BA:1534:A:H8	1.80	0.45
57:BZ:596:ASP:O	57:BZ:599:ARG:HB2	2.16	0.45
47:BR:9:LYS:HD3	47:BR:9:LYS:O	2.16	0.45
39:BJ:54:LYS:HD2	39:BJ:54:LYS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1000:A:C5	1:AA:1001:A:C2	3.04	0.45
1:AA:1052:C:C2'	1:AA:1053:C:H5'	2.47	0.45
1:AA:111:A:C2	1:AA:112:U:C4	3.05	0.45
1:AA:1139:G:H5'	9:AK:24:GLY:HA3	1.98	0.45
1:AA:1243:G:N1	1:AA:1244:G:C4	2.84	0.45
1:AA:1264:G:C3'	1:AA:1264:G:C8	2.99	0.45
1:AA:1343:G:N2	1:AA:1405:U:C6	2.85	0.45
1:AA:1363:C:C2	1:AA:1369:G:C6	3.04	0.45
1:AA:1434:A:C2	1:AA:1435:G:C8	3.04	0.45
1:AA:1451:C:C5'	1:AA:1453:A:H4'	2.46	0.45
1:AA:1546:C:H6	1:AA:1546:C:O5'	1.99	0.45
1:AA:14:A:C8	1:AA:15:G:C8	3.05	0.45
1:AA:1781:C:C2'	1:AA:1782:C:OP2	2.65	0.45
1:AA:1855:G:C6	1:AA:1856:G:N7	2.85	0.45
1:AA:1906:G:C4	1:AA:1907:G:N7	2.85	0.45
1:AA:1920:C:C2	1:AA:1921:G:N7	2.84	0.45
1:AA:1991:U:C6	1:AA:1991:U:C3'	2.99	0.45
1:AA:1999:C:O2'	1:AA:2000:G:H5'	2.17	0.45
1:AA:2014:A:C2	1:AA:2613:U:C2	3.05	0.45
1:AA:2026:C:HO2'	1:AA:2027:G:H5'	1.79	0.45
1:AA:2027:G:N2	1:AA:2028:U:H1'	2.32	0.45
1:AA:2056:G:O5'	1:AA:2057:A:OP1	2.35	0.45
1:AA:2084:C:O2'	1:AA:2085:C:H5'	2.17	0.45
1:AA:2091:U:C5'	1:AA:2093:G:OP1	2.65	0.45
1:AA:2115:G:H2'	1:AA:2117:A:C5	2.46	0.45
1:AA:2182:G:C6	1:AA:2183:C:C4	3.04	0.45
1:AA:217:G:C2'	1:AA:218:A:O5'	2.65	0.45
1:AA:2208:U:H4'	4:AD:151:LYS:HZ2	1.77	0.45
1:AA:2227:A:H5''	4:AD:260:ARG:HB3	1.97	0.45
1:AA:223:A:C2	1:AA:407:G:N3	2.85	0.45
1:AA:2242:G:C6	1:AA:2243:U:C4	3.04	0.45
1:AA:2278:A:C6	1:AA:2279:G:C5	3.04	0.45
1:AA:2298:A:H3'	1:AA:2299:G:C8	2.49	0.45
1:AA:2432:A:N7	1:AA:2433:A:C6	2.85	0.45
1:AA:2468:G:H5'	12:AN:120:ILE:HD11	1.98	0.45
1:AA:2491:U:O2	1:AA:2492:U:C4	2.70	0.45
1:AA:2601:C:O2	1:AA:2603:G:C8	2.68	0.45
1:AA:2752:C:OP1	1:AA:2752:C:C6	2.69	0.45
1:AA:326:G:N3	1:AA:327:G:C8	2.84	0.45
1:AA:460:A:C2'	1:AA:461:C:C6	2.92	0.45
1:AA:480:A:H3'	1:AA:481:G:H5''	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:516:C:O2'	1:AA:517:C:C5'	2.62	0.45
1:AA:539:G:H8	1:AA:539:G:O5'	2.00	0.45
1:AA:536:A:C6	1:AA:558:G:C6	3.05	0.45
1:AA:688:U:H5'	1:AA:1780:A:N6	2.32	0.45
1:AA:768:G:C4	1:AA:769:G:C8	3.04	0.45
1:AA:775:G:H5'	1:AA:777:A:N9	2.31	0.45
1:AA:833:U:H2'	1:AA:834:C:H6	1.80	0.45
1:AA:836:G:C5	1:AA:837:C:C5	3.05	0.45
1:AA:995:C:P	16:AR:53:ARG:HH22	2.39	0.45
2:AB:7:G:HO2'	2:AB:8:U:P	2.39	0.45
2:AB:82:G:C4	2:AB:83:G:N7	2.84	0.45
2:AB:99:A:C2	2:AB:100:G:N9	2.85	0.45
3:AC:93:TYR:CD1	3:AC:107:TRP:HZ2	2.34	0.45
3:AC:11:LEU:HD12	3:AC:14:VAL:HB	1.98	0.45
1:AA:2175:C:C2	3:AC:221:SER:N	2.51	0.45
3:AC:222:VAL:HG13	3:AC:223:ARG:O	2.17	0.45
4:AD:146:GLU:OE2	4:AD:150:LYS:N	2.50	0.45
4:AD:148:GLU:CB	4:AD:154:LYS:HZ1	2.11	0.45
4:AD:174:ILE:H	4:AD:174:ILE:HD12	1.79	0.45
4:AD:17:THR:C	4:AD:19:ALA:N	2.58	0.45
1:AA:2226:C:N3	4:AD:262:ARG:NH2	2.64	0.45
5:AE:133:LYS:HD2	5:AE:137:HIS:ND1	2.32	0.45
5:AE:111:ARG:HB2	5:AE:161:GLY:HA3	1.98	0.45
6:AF:170:LEU:HB3	6:AF:171:PRO:HD3	1.98	0.45
6:AF:43:LYS:HE3	6:AF:99:TYR:H	1.81	0.45
7:AG:125:PHE:HA	7:AG:132:ASN:HB2	1.96	0.45
1:AA:2309:A:N6	7:AG:80:PHE:CZ	2.85	0.45
7:AG:95:ARG:O	7:AG:95:ARG:HG3	2.15	0.45
8:AH:117:PRO:HB2	8:AH:121:ILE:HG23	1.98	0.45
8:AH:159:GLU:OE2	8:AH:163:TYR:CE1	2.70	0.45
8:AH:58:GLU:O	8:AH:62:LYS:HG2	2.17	0.45
8:AH:7:LEU:CD2	8:AH:65:HIS:NE2	2.78	0.45
8:AH:94:TYR:OH	8:AH:128:PRO:CG	2.62	0.45
9:AK:134:ARG:N	9:AK:135:PRO:HD2	2.31	0.45
9:AK:78:TYR:HB3	9:AK:79:PRO:CD	2.37	0.45
9:AK:82:LEU:N	9:AK:82:LEU:HD23	2.31	0.45
9:AK:86:PRO:HD2	9:AK:89:LYS:CD	2.44	0.45
10:AL:107:ARG:C	10:AL:109:LYS:N	2.65	0.45
10:AL:78:ARG:NE	10:AL:78:ARG:N	2.65	0.45
11:AM:123:LEU:H	11:AM:138:LEU:HB2	1.82	0.45
12:AN:22:LYS:CD	12:AN:99:PRO:HG3	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:71:GLN:O	13:AO:72:ASP:CB	2.65	0.45
15:AQ:58:ASN:CA	15:AQ:61:PHE:CE2	2.99	0.45
16:AR:16:LYS:HG2	16:AR:20:LEU:CD2	2.46	0.45
19:AU:89:ILE:O	19:AU:93:GLU:HG2	2.15	0.45
20:AV:86:ARG:HA	20:AV:91:GLU:HB3	1.98	0.45
21:AW:114:GLY:N	21:AW:145:GLU:OE2	2.50	0.45
21:AW:42:VAL:C	21:AW:46:LYS:HZ2	2.20	0.45
22:AX:40:GLN:OE1	22:AX:44:ARG:N	2.50	0.45
22:AX:74:ARG:HH11	22:AX:75:LEU:CD1	2.29	0.45
23:AY:22:GLU:OE1	23:AY:22:GLU:CA	2.63	0.45
24:AZ:40:THR:N	24:AZ:44:ARG:HG3	2.31	0.45
34:BA:1047:G:O2'	34:BA:1048:G:H5'	2.16	0.45
34:BA:1067:A:H4'	34:BA:1068:G:O5'	2.15	0.45
34:BA:1101:A:O2'	34:BA:1102:A:OP2	2.35	0.45
34:BA:1109:C:C6	34:BA:1110:A:N7	2.84	0.45
34:BA:1227:A:H5'	52:BW:81:ARG:HE	1.76	0.45
34:BA:1265:G:C6	34:BA:1271:G:C6	3.03	0.45
34:BA:1277:C:O2'	34:BA:1279:A:H8	1.97	0.45
34:BA:194:C:O3'	53:BX:68:LYS:NZ	2.50	0.45
34:BA:322:C:O2'	34:BA:323:U:C5'	2.56	0.45
34:BA:27:G:H22	34:BA:557:G:H1'	1.73	0.45
34:BA:55:A:HO2'	34:BA:56:U:H5'	1.81	0.45
34:BA:62:U:H5''	34:BA:385:C:O2'	2.17	0.45
34:BA:632:A:H2'	34:BA:633:G:O4'	2.16	0.45
34:BA:659:U:C2	34:BA:660:G:N7	2.84	0.45
34:BA:687:A:H2'	34:BA:701:C:N4	2.30	0.45
34:BA:734:G:H2'	34:BA:735:C:C5	2.50	0.45
34:BA:747:C:H6	34:BA:747:C:O5'	1.99	0.45
34:BA:754:C:O2	34:BA:754:C:C2'	2.65	0.45
34:BA:767:A:H2'	34:BA:768:A:H5'	1.98	0.45
34:BA:779:C:N3	34:BA:780:A:N3	2.65	0.45
34:BA:828:A:C8	34:BA:829:G:N9	2.85	0.45
34:BA:857:C:H2'	34:BA:858:G:C5'	2.46	0.45
34:BA:880:C:O2'	34:BA:881:G:H5'	2.16	0.45
34:BA:902:G:H2'	34:BA:903:G:C8	2.50	0.45
34:BA:918:A:O2'	34:BA:919:A:P	2.74	0.45
34:BA:999:U:O5'	34:BA:999:U:H6	1.99	0.45
55:BC:59:U:C2'	55:BC:60:U:H5'	2.46	0.45
35:BF:132:LYS:NZ	35:BF:132:LYS:HB3	2.29	0.45
35:BF:163:PHE:HE1	35:BF:201:ILE:CD1	2.30	0.45
35:BF:165:VAL:CG2	35:BF:166:ASP:H	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:207:ALA:C	35:BF:209:ARG:N	2.67	0.45
35:BF:223:ILE:HA	35:BF:226:ARG:CD	2.47	0.45
35:BF:223:ILE:HA	35:BF:226:ARG:HD2	1.98	0.45
37:BH:145:GLU:N	37:BH:184:LYS:HE2	2.31	0.45
37:BH:140:VAL:HG12	37:BH:185:PHE:HD1	1.81	0.45
37:BH:77:ASN:HA	37:BH:80:GLU:OE2	2.16	0.45
38:BI:41:VAL:HG21	38:BI:113:ALA:CB	2.45	0.45
39:BJ:41:GLU:O	39:BJ:42:GLU:HB3	2.16	0.45
40:BK:26:PHE:CD2	40:BK:62:PHE:HE1	2.34	0.45
41:BL:14:ARG:CB	41:BL:14:ARG:NH1	2.56	0.45
41:BL:19:VAL:O	41:BL:20:TYR:CB	2.63	0.45
41:BL:36:LEU:CD2	41:BL:36:LEU:H	2.13	0.45
42:BM:11:LYS:HA	42:BM:108:VAL:HG11	1.98	0.45
42:BM:27:THR:HA	42:BM:31:GLN:O	2.17	0.45
43:BN:8:LEU:HG	43:BN:19:SER:HB3	1.97	0.45
44:BO:85:ARG:CD	44:BO:113:PRO:HD2	2.46	0.45
44:BO:42:TRP:CZ3	44:BO:47:VAL:HG21	2.52	0.45
44:BO:48:ILE:HD11	44:BO:64:ALA:HA	1.98	0.45
44:BO:95:ILE:O	44:BO:99:GLN:HG3	2.17	0.45
45:BP:26:ALA:HA	45:BP:98:TYR:HE2	1.80	0.45
46:BQ:95:GLY:O	46:BQ:111:LYS:N	2.49	0.45
49:BT:34:GLU:CD	49:BT:35:LYS:N	2.70	0.45
51:BV:21:LYS:NZ	51:BV:23:LYS:CB	2.66	0.45
51:BV:51:LEU:H	51:BV:51:LEU:CD1	2.28	0.45
52:BW:3:ARG:O	52:BW:5:LEU:HB3	2.17	0.45
57:BZ:133:PRO:CG	57:BZ:134:GLY:H	2.28	0.45
57:BZ:128:ASN:HD22	57:BZ:165:ALA:CB	2.30	0.45
57:BZ:20:THR:O	57:BZ:24:LYS:CG	2.64	0.45
57:BZ:522:GLN:HA	57:BZ:588:ARG:HB3	1.99	0.45
57:BZ:18:LYS:CD	60:BZ:701:GCP:H3B2	2.46	0.45
56:BD:47:U:C3'	56:BD:48:C:C5'	2.94	0.45
55:BC:30:G:N1	55:BC:41:C:N4	2.65	0.45
23:AY:1:MET:H1	23:AY:2:ARG:HH12	1.63	0.45
55:BC:23:A:H2'	55:BC:24:G:C8	2.52	0.45
57:BZ:351:GLU:H	57:BZ:351:GLU:CD	2.19	0.45
8:AH:10:PRO:O	8:AH:12:PRO:HD2	2.17	0.45
1:AA:1155:A:C2	1:AA:1157:G:C1'	2.97	0.45
1:AA:1190:G:O2'	1:AA:1191:G:H5'	2.17	0.45
1:AA:1300:U:H2'	1:AA:1626:G:C2	2.47	0.45
1:AA:1378:A:C2	1:AA:1380:G:N9	2.85	0.45
1:AA:1472:A:H2'	1:AA:1473:G:O5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1534:G:O2'	1:AA:1536:A:N6	2.50	0.45
1:AA:1660:C:C2'	1:AA:1661:G:O5'	2.65	0.45
1:AA:1837:C:N3	1:AA:1899:G:O6	2.49	0.45
1:AA:2121:G:C2'	3:AC:167:LYS:CE	2.88	0.45
1:AA:2125:G:N2	1:AA:2172:U:C5'	2.80	0.45
1:AA:2183:C:O2	1:AA:2183:C:C2'	2.64	0.45
1:AA:2261:C:O4'	1:AA:2388:A:H1'	2.17	0.45
1:AA:2268:A:H3'	1:AA:2269:A:C5'	2.46	0.45
1:AA:2309:A:N6	7:AG:80:PHE:CE1	2.85	0.45
1:AA:2414:G:C2	1:AA:2415:G:N7	2.85	0.45
1:AA:2400:G:C2	1:AA:2417:C:C4	3.05	0.45
1:AA:2439:A:H2'	1:AA:2439:A:N3	2.32	0.45
1:AA:2514:U:C4	1:AA:2515:C:N4	2.82	0.45
1:AA:2550:G:N1	1:AA:2559:C:N3	2.65	0.45
1:AA:270(S):G:C2	1:AA:270(T):G:C8	3.04	0.45
1:AA:2715:C:HO2'	1:AA:2716:U:H5'	1.80	0.45
1:AA:2688:U:N3	1:AA:2719:G:N3	2.62	0.45
1:AA:2729:G:H2'	1:AA:2730:C:H5'	1.97	0.45
1:AA:2748:A:N1	1:AA:2756:U:O2	2.49	0.45
1:AA:2851:A:C2'	1:AA:2852:G:O5'	2.64	0.45
1:AA:2898:U:C2	1:AA:2899:G:C8	3.04	0.45
1:AA:292:C:H3'	1:AA:293:U:C2	2.51	0.45
1:AA:301:G:H2'	1:AA:302:C:C5	2.49	0.45
1:AA:324:A:H2	1:AA:325:G:H1'	1.82	0.45
1:AA:371:A:C8	1:AA:424:G:OP1	2.70	0.45
1:AA:447:A:O2'	1:AA:448:U:H5'	2.17	0.45
1:AA:450:G:C8	1:AA:450:G:O5'	2.68	0.45
1:AA:457:A:C2	1:AA:470:A:C5'	2.99	0.45
1:AA:523:C:H2'	1:AA:524:U:C5'	2.47	0.45
1:AA:562:U:O2	1:AA:572:A:O4'	2.35	0.45
1:AA:590:A:C2	1:AA:591:C:C2	3.04	0.45
1:AA:624:C:C4'	1:AA:624:C:C6	3.00	0.45
1:AA:672:C:O2	1:AA:673:C:C5	2.70	0.45
1:AA:705:A:H62	1:AA:727:A:H8	1.62	0.45
1:AA:735:A:C8	1:AA:735:A:H3'	2.52	0.45
1:AA:756:C:C4	1:AA:757:U:C6	3.04	0.45
1:AA:806:C:O5'	1:AA:806:C:C6	2.68	0.45
1:AA:857:C:O2'	22:AX:23:VAL:HG11	2.15	0.45
1:AA:879:G:N1	1:AA:898:C:N1	2.53	0.45
1:AA:972:G:H5''	1:AA:974:G:P	2.56	0.45
1:AA:974:G:C2'	1:AA:1186:G:C4	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:77:U:H5'	21:AW:84:GLU:HB3	1.99	0.45
2:AB:87:G:N2	2:AB:89:G:C8	2.82	0.45
3:AC:209:LEU:HD23	3:AC:209:LEU:C	2.35	0.45
3:AC:76:ALA:CA	3:AC:149:ILE:HD11	2.46	0.45
4:AD:105:ILE:CG1	4:AD:106:ILE:HG12	2.22	0.45
4:AD:109:ASP:N	4:AD:196:VAL:O	2.49	0.45
4:AD:42:GLY:HA2	4:AD:60:ARG:NH2	2.26	0.45
1:AA:1996:C:H2'	5:AE:123:ALA:HB3	1.97	0.45
5:AE:13:ARG:NH1	11:AM:56:SER:O	121.33	0.45
5:AE:4:ILE:CG1	5:AE:27:LEU:HD13	2.41	0.45
5:AE:40:GLU:OE2	5:AE:40:GLU:CA	2.64	0.45
5:AE:38:THR:C	5:AE:40:GLU:N	2.68	0.45
5:AE:49:LEU:CD1	5:AE:76:ARG:O	2.60	0.45
5:AE:8:LYS:CD	5:AE:8:LYS:C	2.85	0.45
5:AE:97:LYS:O	5:AE:100:GLU:OE1	2.35	0.45
7:AG:102:PHE:C	7:AG:104:GLU:N	2.68	0.45
7:AG:123:ASN:ND2	7:AG:126:ASP:OD2	2.48	0.45
7:AG:36:LYS:CA	7:AG:95:ARG:O	2.64	0.45
7:AG:72:ARG:O	7:AG:73:ALA:HB2	2.16	0.45
7:AG:39:ILE:CD1	7:AG:92:VAL:O	2.64	0.45
8:AH:101:ARG:HB3	8:AH:117:PRO:CD	2.45	0.45
8:AH:11:VAL:HG11	8:AH:17:VAL:CG2	2.46	0.45
8:AH:155:SER:HG	8:AH:163:TYR:HH	1.58	0.45
9:AK:96:GLU:HG2	9:AK:97:ARG:N	2.32	0.45
10:AL:109:LYS:O	10:AL:110:GLY:C	2.54	0.45
10:AL:40:VAL:HG22	10:AL:41:ALA:N	2.30	0.45
10:AL:85:VAL:CG1	10:AL:86:ILE:N	2.73	0.45
6:AF:31:HIS:HB3	11:AM:11:GLY:H	1.81	0.45
11:AM:35:HIS:O	11:AM:36:LYS:NZ	2.49	0.45
11:AM:55:ARG:NH2	11:AM:55:ARG:CA	2.79	0.45
11:AM:71:VAL:N	11:AM:72:PRO:HD3	2.30	0.45
12:AN:36:ALA:C	12:AN:37:LEU:HG	2.34	0.45
12:AN:54:MET:SD	12:AN:121:ALA:CB	3.02	0.45
12:AN:74:TYR:CD2	12:AN:92:GLY:O	2.70	0.45
13:AO:33:ARG:CB	13:AO:113:LEU:HD11	2.34	0.45
13:AO:63:ARG:HG2	13:AO:63:ARG:NH1	2.32	0.45
13:AO:87:TYR:HD2	13:AO:87:TYR:N	2.15	0.45
13:AO:6:SER:CB	13:AO:9:LYS:HE2	2.47	0.45
14:AP:106:ARG:HD3	14:AP:107:GLU:OE2	2.15	0.45
15:AQ:33:LYS:HB3	15:AQ:45:PHE:C	2.36	0.45
15:AQ:2:ASN:C	15:AQ:6:LEU:HD22	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:88:ILE:O	17:AS:52:VAL:CA	2.58	0.45
18:AT:34:ASN:H	18:AT:34:ASN:ND2	2.15	0.45
1:AA:2009:G:O3'	18:AT:41:LYS:HG2	2.17	0.45
20:AV:6:HIS:CG	20:AV:33:LYS:NZ	2.84	0.45
21:AW:128:VAL:CG2	21:AW:164:ALA:HB2	2.45	0.45
21:AW:2:GLU:OE2	21:AW:58:VAL:CG2	2.64	0.45
22:AX:68:GLU:CB	22:AX:80:HIS:C	2.81	0.45
23:AY:19:LEU:HD22	23:AY:19:LEU:C	2.37	0.45
24:AZ:31:LEU:HD12	24:AZ:32:GLN:CD	2.37	0.45
34:BA:1083:U:H3'	34:BA:1084:G:C8	2.52	0.45
34:BA:1180:A:H8	34:BA:1180:A:O5'	1.98	0.45
34:BA:1065:U:H5	34:BA:1190:G:N3	2.14	0.45
34:BA:1309:G:C5	34:BA:1330:U:O4	2.69	0.45
34:BA:1315:U:H1'	34:BA:1361:G:O5'	2.17	0.45
34:BA:1422:G:C2	34:BA:1423:G:N7	2.84	0.45
34:BA:1466:C:H2'	34:BA:1467:G:H1'	1.98	0.45
34:BA:1468:A:C2'	34:BA:1469:G:O5'	2.63	0.45
34:BA:1477:C:N4	34:BA:1478:C:N4	2.64	0.45
34:BA:819:A:N3	34:BA:1529:G:O6	2.50	0.45
34:BA:152:A:OP2	34:BA:153:C:H5	1.99	0.45
34:BA:18:C:N4	34:BA:918:A:N6	2.64	0.45
34:BA:273:A:C2	34:BA:274:A:C1'	2.91	0.45
34:BA:27:G:C8	34:BA:27:G:OP2	2.70	0.45
34:BA:321:A:H2'	34:BA:322:C:H6	1.81	0.45
34:BA:409:G:N2	34:BA:410:G:O4'	2.50	0.45
34:BA:533:A:H3'	34:BA:534:U:C5'	2.47	0.45
34:BA:563:A:C2	34:BA:567:G:C5	3.04	0.45
34:BA:577:G:N2	34:BA:578:C:C1'	2.79	0.45
34:BA:631:G:O2'	34:BA:632:A:C8	2.61	0.45
34:BA:640:A:H2'	34:BA:641:U:H5'	1.94	0.45
34:BA:692:U:C2	34:BA:694:A:H3'	2.48	0.45
34:BA:695:A:C2	34:BA:696:A:N9	2.84	0.45
34:BA:710:G:C2	34:BA:711:G:C8	3.04	0.45
34:BA:747:C:H2'	34:BA:748:C:O4'	2.17	0.45
34:BA:828:A:C5'	34:BA:859:A:N1	2.80	0.45
34:BA:883:C:H5'	34:BA:884:U:OP2	2.16	0.45
34:BA:87:A:C8	34:BA:88:C:C2	3.05	0.45
56:BE:13:C:H5''	56:BE:13:C:H6	1.82	0.45
56:BE:20:U:H6	56:BE:20:U:H5''	1.81	0.45
56:BE:3:C:H2'	56:BE:4:C:N1	2.31	0.45
56:BE:1:G:C2'	56:BE:72:C:N3	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:20:GLU:OE2	35:BF:189:ASP:OD2	2.33	0.45
35:BF:92:TYR:C	35:BF:92:TYR:CD2	2.87	0.45
36:BG:134:ILE:N	36:BG:134:ILE:CD1	2.79	0.45
36:BG:157:ILE:HG13	36:BG:164:ARG:CD	2.46	0.45
36:BG:176:HIS:O	36:BG:177:THR:C	2.55	0.45
36:BG:96:GLY:O	36:BG:98:ASN:N	2.49	0.45
37:BH:118:ARG:HG3	37:BH:136:PRO:HB3	1.99	0.45
37:BH:188:LEU:O	37:BH:189:PRO:C	2.53	0.45
38:BI:129:ILE:O	38:BI:132:ALA:HB3	2.15	0.45
38:BI:36:ASP:OD1	38:BI:38:GLN:HB2	2.16	0.45
38:BI:52:PRO:O	38:BI:55:VAL:N	2.50	0.45
38:BI:6:PHE:HZ	38:BI:66:MET:SD	2.39	0.45
39:BJ:16:GLN:CG	39:BJ:17:SER:N	2.72	0.45
39:BJ:97:PHE:O	51:BV:30:ASP:HA	2.16	0.45
40:BK:139:GLU:CD	40:BK:139:GLU:H	2.20	0.45
40:BK:15:ASP:OD2	40:BK:16:LEU:N	2.49	0.45
40:BK:50:ILE:HD13	40:BK:58:PRO:CB	2.46	0.45
43:BN:36:GLY:O	43:BN:38:ILE:N	2.49	0.45
45:BP:88:GLY:O	45:BP:99:HIS:CD2	2.70	0.45
46:BQ:15:VAL:HB	46:BQ:34:LEU:HD23	0.45	0.45
46:BQ:80:ARG:CZ	46:BQ:81:LEU:HB3	2.47	0.45
46:BQ:8:GLU:HB2	46:BQ:22:ILE:CG1	2.29	0.45
48:BS:21:ASP:OD2	48:BS:24:SER:HB3	2.17	0.45
49:BT:29:ASP:O	49:BT:30:GLY:O	2.35	0.45
50:BU:58:GLU:OE1	50:BU:58:GLU:C	2.55	0.45
50:BU:63:ARG:O	50:BU:65:ILE:HG22	2.17	0.45
34:BA:736:C:C5'	51:BV:72:ARG:NH2	2.68	0.45
52:BW:50:ALA:HA	52:BW:58:VAL:O	2.16	0.45
53:BX:57:ARG:CZ	53:BX:100:ILE:HD12	2.47	0.45
1:AA:2660:A:C5	57:BZ:457:THR:CG2	2.95	0.45
57:BZ:93:ASP:C	57:BZ:121:LEU:HD22	2.36	0.45
56:BD:71:G:H2'	56:BD:72:C:C5'	2.46	0.45
1:AA:886:C:H3'	1:AA:886:C:H6	1.82	0.45
1:AA:1581:G:C2'	1:AA:1582:C:H5'	2.47	0.45
32:AJ:113:PRO:CG	32:AJ:114:ASP:H	2.29	0.45
31:AI:118:THR:C	31:AI:120:LYS:H	2.20	0.45
1:AA:1014:U:C2'	1:AA:1015:G:C5'	2.92	0.45
1:AA:1081:U:C5	1:AA:1086:A:H2	2.34	0.45
1:AA:1194:A:C6	1:AA:1195:G:C5	3.05	0.45
1:AA:119:A:O2'	1:AA:120:U:C5'	2.64	0.45
1:AA:1210:A:H5''	1:AA:1211:U:O5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1249:U:HO2'	16:AR:6:THR:CG2	2.30	0.45
1:AA:1323:U:C2'	1:AA:1324:G:OP1	2.65	0.45
1:AA:1361:G:O2'	1:AA:1362:C:H5'	2.16	0.45
1:AA:1449:A:O4'	1:AA:1529:A:C6	2.70	0.45
1:AA:1574:C:C4	1:AA:1575:C:C4	3.04	0.45
1:AA:1606:G:H4'	1:AA:1608:A:C2	2.52	0.45
1:AA:1613:G:H2'	1:AA:1617:C:N4	2.29	0.45
1:AA:1631:A:C8	1:AA:1631:A:OP1	2.70	0.45
1:AA:1661:G:C6	1:AA:1662:C:N4	2.84	0.45
1:AA:1704:G:N1	1:AA:1705:G:C4	2.84	0.45
1:AA:172:C:C2	1:AA:173:G:N7	2.85	0.45
1:AA:1808:U:C2	1:AA:1810:A:C2	3.05	0.45
1:AA:1819:A:O2'	1:AA:1820:U:O5'	2.35	0.45
1:AA:1890:A:C3'	1:AA:1891:G:H8	2.25	0.45
1:AA:1980:G:C5	1:AA:1982:C:C4	3.05	0.45
1:AA:1992:G:C4'	1:AA:1993:U:C5	2.99	0.45
1:AA:1992:G:O2'	1:AA:1993:U:H5	2.00	0.45
1:AA:2011:U:C3'	1:AA:2012:G:H8	2.30	0.45
1:AA:2107:C:H3'	1:AA:2109:U:H6	1.82	0.45
1:AA:2146:C:P	1:AA:2147:G:OP2	2.75	0.45
1:AA:2363:C:O2'	1:AA:2364:C:H5'	2.16	0.45
1:AA:2395:C:C5	1:AA:2396:G:N7	2.84	0.45
1:AA:2397:G:H2'	1:AA:2398:U:C6	2.51	0.45
1:AA:2500:U:O2'	1:AA:2501:C:OP1	2.34	0.45
1:AA:253:C:O2	1:AA:254:G:O4'	2.35	0.45
1:AA:2547:U:C6	1:AA:2566:A:C2	3.05	0.45
1:AA:2673:G:C2	1:AA:2674:G:C6	3.04	0.45
1:AA:2689:U:H4'	1:AA:2690:C:O5'	2.17	0.45
1:AA:270(Q):C:H2'	1:AA:270(R):G:C8	2.47	0.45
1:AA:2745:C:C2	1:AA:2746:U:C5	3.04	0.45
1:AA:2781:A:H5'	1:AA:2781:A:C8	2.52	0.45
1:AA:2783:G:C6	1:AA:2784:C:C4	3.05	0.45
1:AA:2788:C:H6	1:AA:2788:C:O5'	1.99	0.45
1:AA:2832:U:C1'	1:AA:2834:G:N2	2.58	0.45
1:AA:2851:A:N1	1:AA:2852:G:C4	2.85	0.45
1:AA:107:C:C4'	1:AA:293:U:H1'	2.32	0.45
1:AA:298:G:H1	1:AA:338:G:H4'	1.82	0.45
1:AA:33:U:O2'	1:AA:34:C:C5	2.56	0.45
1:AA:378:C:O2'	1:AA:379:G:C5'	2.63	0.45
1:AA:390:A:P	1:AA:390:A:H3'	2.57	0.45
1:AA:401:A:O2'	1:AA:402:A:O5'	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:463:G:O2'	1:AA:464:U:C5	2.67	0.45
1:AA:507:A:H4'	1:AA:509:C:C6	2.51	0.45
1:AA:583:G:C5	1:AA:584:C:C5	3.05	0.45
1:AA:596:G:C6	1:AA:597:U:N3	2.85	0.45
1:AA:692:C:C2'	1:AA:693:C:O5'	2.65	0.45
1:AA:699:A:N6	1:AA:734:A:C8	2.85	0.45
1:AA:749:C:C2	1:AA:1618:A:C5	3.04	0.45
1:AA:814:C:O3'	1:AA:1224:G:N2	2.50	0.45
1:AA:826:U:N3	1:AA:828:U:H6	2.15	0.45
1:AA:900:A:N7	1:AA:901:A:O2'	2.37	0.45
1:AA:923:C:O4'	22:AX:26:TYR:CB	2.62	0.45
3:AC:162:GLU:O	3:AC:163:PHE:HD2	1.98	0.45
3:AC:26:ALA:O	3:AC:30:LYS:CG	2.65	0.45
4:AD:23:GLU:C	4:AD:23:GLU:OE1	2.55	0.45
4:AD:57:GLY:O	4:AD:58:HIS:HB2	2.17	0.45
4:AD:58:HIS:O	4:AD:59:LYS:HE2	2.17	0.45
5:AE:111:ARG:HB3	5:AE:112:GLY:H	1.37	0.45
1:AA:2822:G:H5''	5:AE:159:HIS:CE1	2.52	0.45
5:AE:172:VAL:O	5:AE:174:ASP:N	2.50	0.45
5:AE:50:GLY:CA	5:AE:76:ARG:NE	2.79	0.45
6:AF:131:GLY:O	6:AF:134:GLY:N	2.49	0.45
6:AF:18:ARG:C	6:AF:19:GLU:CG	2.77	0.45
1:AA:673:C:C5'	6:AF:81:PRO:HG2	2.44	0.45
7:AG:39:ILE:HA	7:AG:157:ILE:HA	1.98	0.45
7:AG:4:ASP:C	7:AG:7:LEU:HB2	2.37	0.45
7:AG:4:ASP:CA	7:AG:7:LEU:HB2	2.46	0.45
32:AJ:40:ALA:C	32:AJ:66:THR:OG1	2.55	0.45
32:AJ:10:LEU:N	32:AJ:56:GLU:HG3	2.29	0.45
9:AK:33:LEU:HD11	9:AK:52:VAL:CG2	2.44	0.45
9:AK:35:ARG:NH1	9:AK:48:MET:CE	2.78	0.45
9:AK:53:VAL:HG22	9:AK:121:LYS:HB2	1.99	0.45
11:AM:97:PRO:CB	11:AM:102:ARG:NH1	2.79	0.45
11:AM:74:GLU:HB2	11:AM:107:LYS:CD	2.47	0.45
11:AM:81:GLN:C	11:AM:86:LYS:HG3	2.37	0.45
12:AN:7:MET:O	12:AN:69:PHE:CZ	2.70	0.45
13:AO:73:VAL:CG2	13:AO:74:LYS:N	2.79	0.45
16:AR:96:ALA:O	16:AR:97:ASP:C	2.54	0.45
17:AS:79:VAL:CG1	17:AS:81:TYR:HD1	2.29	0.45
19:AU:85:PRO:C	19:AU:87:GLN:NE2	2.70	0.45
21:AW:110:GLY:HA2	21:AW:144:LEU:CB	2.44	0.45
22:AX:31:VAL:CG1	22:AX:67:VAL:CG2	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:13:ILE:CG2	24:AZ:14:GLY:N	2.66	0.45
24:AZ:7:LYS:HB3	24:AZ:55:ARG:CB	2.43	0.45
34:BA:1034:G:C2	34:BA:1035:A:N7	2.85	0.45
34:BA:110:C:H2'	34:BA:111:G:H8	1.82	0.45
34:BA:1210:C:H4'	34:BA:1214:C:H42	1.81	0.45
34:BA:1213:A:N6	34:BA:1215:G:N2	2.65	0.45
34:BA:1250:A:C8	34:BA:1251:A:N7	2.85	0.45
34:BA:1263:C:C2'	34:BA:1264:C:H6	2.16	0.45
34:BA:1296:C:C5	34:BA:1297:C:N4	2.84	0.45
34:BA:1317:C:H2'	34:BA:1318:A:C4'	2.10	0.45
34:BA:1287:A:N6	34:BA:1371:G:C4'	2.77	0.45
34:BA:1374:A:H2'	34:BA:1375:A:O5'	2.16	0.45
34:BA:1401:G:C2'	34:BA:1402:C:H5'	2.46	0.45
34:BA:1449:C:N3	34:BA:1454:G:N2	2.64	0.45
34:BA:151:A:C6	34:BA:152:A:C2	3.05	0.45
34:BA:242:C:C2'	34:BA:243:A:O5'	2.65	0.45
34:BA:275:G:O3'	50:BU:15:MET:HE1	2.17	0.45
34:BA:29:G:C5'	34:BA:296:U:OP1	2.59	0.45
34:BA:307:C:C5'	34:BA:308:C:OP2	2.65	0.45
34:BA:319:G:H2'	34:BA:320:C:C5'	2.46	0.45
34:BA:352:C:P	34:BA:352:C:H6	2.40	0.45
34:BA:564:C:OP1	45:BP:15:ARG:NE	2.50	0.45
34:BA:686:U:O2'	34:BA:687:A:P	2.73	0.45
34:BA:720:C:C4	34:BA:721:G:H2'	2.51	0.45
34:BA:738:C:OP1	39:BJ:4:TYR:OH	2.32	0.45
34:BA:791:G:C5	34:BA:792:A:N7	2.85	0.45
34:BA:872:A:O2'	34:BA:873:A:C5'	2.58	0.45
34:BA:920:U:H2'	34:BA:921:U:C6	2.50	0.45
34:BA:986:A:H2'	34:BA:987:G:H8	1.81	0.45
56:BE:67:C:H2'	56:BE:68:C:H6	1.81	0.45
56:BE:3:C:C2	56:BE:70:G:H1'	2.46	0.45
35:BF:157:ARG:HG2	35:BF:158:LEU:HD23	1.98	0.45
35:BF:50:GLU:CG	35:BF:200:ILE:HB	2.47	0.45
35:BF:49:GLU:HA	35:BF:52:GLU:OE2	2.17	0.45
36:BG:182:ILE:CD1	36:BG:203:PHE:HD1	2.30	0.45
37:BH:104:VAL:HG11	37:BH:140:VAL:CG2	2.26	0.45
37:BH:126:ILE:O	37:BH:132:ARG:HB3	2.17	0.45
37:BH:175:SER:OG	37:BH:184:LYS:O	2.27	0.45
37:BH:38:TYR:HB2	37:BH:39:PRO:CD	2.41	0.45
38:BI:101:ILE:CD1	38:BI:101:ILE:N	2.80	0.45
38:BI:112:LEU:O	38:BI:114:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:91:LEU:HD12	38:BI:118:ILE:HG21	1.97	0.45
34:BA:8:A:C5'	38:BI:120:THR:O	2.65	0.45
38:BI:12:LEU:C	38:BI:13:ILE:HD12	2.35	0.45
41:BL:39:LEU:HA	41:BL:39:LEU:HD13	1.71	0.45
42:BM:47:LEU:CD1	42:BM:51:ARG:HH12	2.30	0.45
42:BM:50:LEU:HD21	42:BM:56:LEU:HB2	1.99	0.45
43:BN:4:ILE:HD13	43:BN:98:ILE:CG2	2.47	0.45
44:BO:34:ASP:CB	44:BO:35:PRO:CD	2.94	0.45
46:BQ:91:ARG:HD3	46:BQ:97:PRO:O	2.16	0.45
49:BT:9:PHE:CE2	49:BT:18:ARG:HG3	2.52	0.45
49:BT:34:GLU:OE2	49:BT:35:LYS:N	2.50	0.45
49:BT:40:ASP:O	49:BT:40:ASP:CG	2.55	0.45
50:BU:87:LYS:HA	50:BU:87:LYS:HD2	1.53	0.45
39:BJ:46:ARG:HH12	51:BV:37:VAL:HG22	1.81	0.45
51:BV:22:VAL:CG2	51:BV:55:ARG:O	2.65	0.45
51:BV:67:ALA:HA	51:BV:70:ILE:CG1	2.46	0.45
52:BW:15:LEU:HD23	52:BW:15:LEU:N	2.32	0.45
52:BW:24:ALA:O	52:BW:26:GLY:N	2.49	0.45
57:BZ:125:VAL:CB	57:BZ:162:ILE:HA	2.29	0.45
57:BZ:551:ALA:HA	57:BZ:552:ASP:CB	2.46	0.45
45:BP:126:LYS:CD	45:BP:128:ALA:HB3	2.45	0.45
1:AA:2111:C:N4	1:AA:2144:U:O2'	2.45	0.45
1:AA:276:A:O4'	1:AA:276:A:OP2	2.35	0.45
34:BA:1531:A:HO2'	34:BA:1532:U:P	2.40	0.45
1:AA:1154:G:OP1	16:AR:58:ARG:HD3	2.16	0.45
1:AA:1203:G:N1	1:AA:1206:G:N1	2.59	0.45
1:AA:1203:G:N7	1:AA:1240:U:C4	2.85	0.45
1:AA:1275:A:N7	1:AA:1296:G:C1'	2.76	0.45
1:AA:1344:G:H4'	1:AA:1384:A:C2	2.49	0.45
1:AA:1359:A:C4'	1:AA:1359:A:C8	3.00	0.45
1:AA:1385:G:C6	1:AA:1386:C:N4	2.85	0.45
1:AA:1429:G:H2'	1:AA:1430:C:C6	2.52	0.45
1:AA:1454:U:C5'	1:AA:1455:G:OP2	2.56	0.45
1:AA:1471:A:OP2	1:AA:1472:A:C2	2.66	0.45
1:AA:1536:A:C2	1:AA:1537:C:C2	3.05	0.45
1:AA:1570:A:N1	1:AA:1571:A:N7	2.64	0.45
1:AA:1690:A:N6	1:AA:1697:G:C2	2.85	0.45
1:AA:1799:G:H1	4:AD:157:ARG:CZ	2.28	0.45
1:AA:1819:A:N3	1:AA:1821:A:N1	2.64	0.45
1:AA:1836:C:N4	1:AA:1837:C:N4	2.65	0.45
1:AA:1939:U:O2'	1:AA:2592:G:O2'	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1944:U:O4'	1:AA:1955:U:H6	1.98	0.45
1:AA:1980:G:C6	1:AA:1982:C:C4	3.04	0.45
1:AA:2015:A:H8	1:AA:2016:U:C5	2.33	0.45
1:AA:2178:C:H5''	3:AC:46:LYS:HZ3	1.73	0.45
1:AA:2360:A:OP2	1:AA:2360:A:H8	1.99	0.45
1:AA:2444:G:N1	1:AA:2445:G:C6	2.85	0.45
1:AA:2457:U:O4	1:AA:2458:G:N2	2.50	0.45
1:AA:2482:G:C2	1:AA:2483:C:C1'	3.00	0.45
1:AA:2625:G:H2'	1:AA:2626:C:O5'	2.16	0.45
1:AA:270(L):U:O2'	1:AA:270(M):U:OP1	2.32	0.45
1:AA:2721:A:C2'	1:AA:2722:G:C8	2.98	0.45
1:AA:2776:A:H5''	1:AA:2777:G:OP1	2.17	0.45
1:AA:2830:G:H5'	5:AE:57:LYS:HE3	1.99	0.45
1:AA:324:A:C2	1:AA:325:G:C4	3.05	0.45
1:AA:270(B):A:C5'	1:AA:366:C:O4'	2.57	0.45
1:AA:424:G:N3	1:AA:425:G:C8	2.85	0.45
1:AA:479:A:O2'	1:AA:480:A:H5'	2.17	0.45
1:AA:64:A:C2	1:AA:65:C:C1'	3.00	0.45
1:AA:739:G:O3'	1:AA:1784:A:C2	2.68	0.45
1:AA:782:A:C5'	1:AA:783:A:OP1	2.62	0.45
1:AA:804:A:OP2	11:AM:39:LYS:HB3	2.17	0.45
1:AA:817:C:H3'	1:AA:818:G:C8	2.51	0.45
1:AA:848:G:H1'	1:AA:934:G:O4'	2.17	0.45
1:AA:87:C:O2'	23:AY:46:ARG:NH2	2.50	0.45
1:AA:945:A:H2'	1:AA:946:G:H5''	1.98	0.45
1:AA:998:C:O5'	1:AA:998:C:H6	2.00	0.45
2:AB:46:A:H2'	2:AB:47:C:O4'	2.17	0.45
2:AB:76:G:OP2	21:AW:11:GLU:CA	2.46	0.45
2:AB:78:A:C6	2:AB:99:A:N6	2.84	0.45
4:AD:160:GLY:N	4:AD:196:VAL:HG21	2.32	0.45
5:AE:103:ASP:HA	5:AE:170:LEU:CD2	2.47	0.45
5:AE:119:ARG:HE	5:AE:120:TRP:HB3	1.81	0.45
5:AE:195:LEU:C	5:AE:195:LEU:HD13	2.30	0.45
5:AE:194:GLY:O	5:AE:195:LEU:HD22	2.17	0.45
5:AE:27:LEU:O	5:AE:28:ALA:C	2.55	0.45
5:AE:76:ARG:O	5:AE:76:ARG:HG3	2.17	0.45
5:AE:92:THR:CG2	5:AE:92:THR:O	2.63	0.45
6:AF:11:VAL:CG2	6:AF:126:VAL:HG12	2.47	0.45
6:AF:133:ASN:CB	6:AF:162:LEU:HD13	2.47	0.45
6:AF:43:LYS:HG3	6:AF:98:SER:C	2.37	0.45
7:AG:107:LEU:CD1	7:AG:111:LEU:HD13	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:139:LEU:O	7:AG:142:PRO:HD3	2.16	0.45
7:AG:142:PRO:HG2	7:AG:143:GLU:HG2	1.98	0.45
7:AG:157:ILE:CG1	7:AG:158:ALA:N	2.79	0.45
7:AG:77:ILE:O	7:AG:78:SER:C	2.55	0.45
7:AG:75:LYS:CB	7:AG:84:LYS:CB	2.95	0.45
8:AH:42:ARG:HB2	8:AH:53:GLU:CG	2.47	0.45
8:AH:7:LEU:CA	8:AH:52:VAL:CG1	2.95	0.45
8:AH:85:LYS:HZ3	8:AH:141:VAL:C	2.19	0.45
8:AH:87:LEU:O	8:AH:131:VAL:C	2.55	0.45
32:AJ:116:ASN:O	32:AJ:118:THR:N	2.49	0.45
32:AJ:19:PRO:HB3	32:AJ:23:VAL:HB	1.99	0.45
1:AA:1007:C:H4'	9:AK:108:PRO:CG	2.47	0.45
9:AK:23:LEU:HD23	9:AK:23:LEU:H	1.82	0.45
11:AM:131:SER:N	11:AM:134:ALA:CB	2.79	0.45
12:AN:115:MET:O	12:AN:116:GLU:C	2.53	0.45
12:AN:131:ILE:CG2	12:AN:132:VAL:N	2.80	0.45
12:AN:75:THR:C	12:AN:77:LYS:HD2	2.36	0.45
13:AO:35:THR:HG22	13:AO:113:LEU:CD2	2.47	0.45
13:AO:13:HIS:CD2	13:AO:15:SER:HG	2.35	0.45
13:AO:90:ARG:HB2	13:AO:94:TYR:HE2	1.82	0.45
13:AO:96:ARG:HG2	13:AO:98:LEU:HD12	1.98	0.45
14:AP:70:GLY:C	14:AP:72:ALA:N	2.68	0.45
1:AA:2334:G:OP2	14:AP:8:GLU:OE2	2.35	0.45
15:AQ:28:VAL:HG13	15:AQ:92:GLY:O	2.17	0.45
15:AQ:55:ASN:CA	15:AQ:62:THR:O	2.63	0.45
1:AA:446:G:OP1	16:AR:3:ARG:HD3	2.17	0.45
17:AS:62:LEU:HB3	17:AS:97:LYS:O	2.17	0.45
1:AA:1225:C:OP1	17:AS:88:ARG:HB3	2.16	0.45
18:AT:64:MET:O	18:AT:65:LEU:C	2.55	0.45
1:AA:519:U:C4'	18:AT:75:TYR:HB2	2.47	0.45
19:AU:36:LYS:HE3	19:AU:56:THR:CG2	2.47	0.45
19:AU:49:VAL:CG1	19:AU:88:LYS:HG3	2.43	0.45
20:AV:46:LYS:HB2	20:AV:57:GLN:N	2.31	0.45
21:AW:61:LEU:HD23	21:AW:66:SER:HA	1.98	0.45
22:AX:50:ASN:HB2	22:AX:81:VAL:CB	2.46	0.45
22:AX:74:ARG:HH11	22:AX:75:LEU:HD11	1.82	0.45
19:AU:7:VAL:CG2	23:AY:31:ARG:NH1	2.79	0.45
23:AY:27:LEU:CG	23:AY:48:LEU:HD23	2.44	0.45
24:AZ:41:PRO:HA	24:AZ:44:ARG:CZ	2.47	0.45
34:BA:1181:G:O3'	34:BA:1184:G:C5'	2.65	0.45
34:BA:1242:C:N3	34:BA:1243:C:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:976:G:C6	34:BA:1362:C:N4	2.85	0.45
1:AA:1959:G:O4'	34:BA:1418:A:H1'	2.13	0.45
34:BA:1476:G:C6	34:BA:1477:C:N4	2.85	0.45
34:BA:225:C:C2'	34:BA:226:G:O5'	2.64	0.45
34:BA:251:G:O4'	34:BA:252:U:H5	2.00	0.45
34:BA:294:U:C2	34:BA:295:C:H5	2.34	0.45
34:BA:420:U:H1'	34:BA:424:G:N2	2.32	0.45
34:BA:416:G:O6	34:BA:428:G:O6	2.34	0.45
34:BA:714:G:H2'	34:BA:715:A:H8	1.77	0.45
34:BA:81:G:O6	34:BA:82:U:O4	2.35	0.45
34:BA:829:G:N2	34:BA:858:G:O2'	2.49	0.45
34:BA:873:A:C4'	34:BA:874:G:OP2	2.65	0.45
34:BA:935:A:C6	34:BA:936:C:N4	2.85	0.45
56:BE:14:A:H2'	56:BE:15:G:C5'	2.24	0.45
35:BF:140:HIS:HA	35:BF:143:GLU:HB3	1.99	0.45
35:BF:16:HIS:CE1	35:BF:213:LEU:CD1	2.97	0.45
35:BF:46:LYS:CE	35:BF:49:GLU:HG2	2.47	0.45
35:BF:71:VAL:HG21	35:BF:93:VAL:HB	1.96	0.45
36:BG:123:GLN:HB3	36:BG:128:PHE:CZ	2.52	0.45
36:BG:155:GLY:O	36:BG:196:LEU:CB	2.64	0.45
36:BG:22:TRP:CB	36:BG:59:ARG:CB	2.87	0.45
37:BH:83:SER:N	37:BH:89:THR:CG2	2.80	0.45
38:BI:110:LEU:HD23	38:BI:110:LEU:N	2.32	0.45
38:BI:12:LEU:HD12	38:BI:31:LEU:N	2.32	0.45
38:BI:59:GLY:O	38:BI:62:ALA:N	2.49	0.45
38:BI:79:GLU:O	41:BL:104:ARG:NH1	2.50	0.45
41:BL:18:ARG:H	41:BL:18:ARG:HD2	1.81	0.45
42:BM:75:ASP:O	42:BM:78:LYS:N	2.50	0.45
43:BN:33:GLN:O	43:BN:34:VAL:CB	2.64	0.45
43:BN:55:LYS:O	43:BN:55:LYS:CG	2.65	0.45
44:BO:43:SER:HA	44:BO:47:VAL:HG11	1.99	0.45
44:BO:84:VAL:CG2	51:BV:88:LYS:NZ	2.80	0.45
44:BO:86:GLY:H	44:BO:112:THR:HG23	1.82	0.45
45:BP:85:ILE:CG1	45:BP:98:TYR:HB3	2.47	0.45
46:BQ:65:LYS:CG	46:BQ:69:GLU:CB	2.91	0.45
48:BS:69:TYR:O	48:BS:72:ARG:N	2.50	0.45
50:BU:12:SER:H	50:BU:20:THR:HG1	1.64	0.45
50:BU:50:LYS:HB3	50:BU:51:TYR:CD1	2.51	0.45
34:BA:1221:G:H1'	52:BW:55:LYS:CB	2.47	0.45
53:BX:33:ILE:O	53:BX:34:LYS:C	2.53	0.45
57:BZ:10:ILE:HG12	57:BZ:96:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:119:TYR:HE2	57:BZ:121:LEU:HD11	1.82	0.45
57:BZ:101:ALA:O	57:BZ:135:ALA:CB	2.65	0.45
57:BZ:236:GLN:CD	57:BZ:237:VAL:O	2.50	0.45
57:BZ:2:ILE:HG23	57:BZ:268:ALA:N	2.30	0.45
57:BZ:407:VAL:CA	57:BZ:408:GLU:HG3	2.46	0.45
57:BZ:520:GLU:OE1	57:BZ:592:LEU:C	2.55	0.45
57:BZ:54:ILE:HA	57:BZ:55:THR:HA	1.54	0.45
1:AA:1587:A:H2'	1:AA:1588:C:H6	1.80	0.45
37:BH:194:LEU:O	37:BH:195:ALA:O	2.35	0.45
55:BC:13:C:H6	55:BC:13:C:H5'	1.82	0.45
1:AA:1141:U:HO2'	1:AA:1142:U:P	2.39	0.45
1:AA:1242:A:H2'	1:AA:1242:A:N3	2.31	0.45
1:AA:1263:U:C5	1:AA:1264:G:N1	2.85	0.45
1:AA:188:G:H5'	1:AA:1365:A:N3	2.32	0.45
1:AA:1419:A:P	1:AA:1419:A:O4'	2.75	0.45
1:AA:1635:G:H2'	1:AA:1636:C:O4'	2.17	0.45
1:AA:1680:U:O2'	1:AA:1763:G:C8	2.70	0.45
1:AA:1777:U:O5'	1:AA:1777:U:H6	2.00	0.45
1:AA:1798:U:N3	1:AA:1819:A:C2	2.84	0.45
1:AA:1996:C:C3'	1:AA:1996:C:C6	3.00	0.45
1:AA:2049:G:O2'	1:AA:2050:C:P	2.75	0.45
1:AA:2080:G:O2'	1:AA:2081:C:C5'	2.64	0.45
1:AA:2097:C:N4	1:AA:2193:G:C6	2.84	0.45
1:AA:211:A:O2'	1:AA:212:G:H5'	2.17	0.45
1:AA:2176:A:C3'	3:AC:221:SER:CB	2.86	0.45
1:AA:2218:G:C4	1:AA:2219:G:C8	3.05	0.45
1:AA:2236:C:C4	1:AA:2237:G:C4	3.04	0.45
1:AA:2309:A:C4	1:AA:2310:A:C8	3.05	0.45
1:AA:2298:A:C2	1:AA:2321:G:C6	3.05	0.45
1:AA:2284:C:O2'	1:AA:2325:G:C2	2.70	0.45
1:AA:2355:C:C5	1:AA:2356:C:C5	3.05	0.45
1:AA:2373:G:C2	1:AA:2374:C:N3	2.85	0.45
1:AA:2065:C:O2'	1:AA:2449:U:O2	2.33	0.45
1:AA:2471:C:H2'	1:AA:2472:G:H5'	1.99	0.45
1:AA:2507:C:H4'	1:AA:2573:C:N4	2.32	0.45
1:AA:249:C:C2'	1:AA:250:G:OP2	2.65	0.45
1:AA:251:A:H2'	1:AA:252:G:C5'	2.46	0.45
1:AA:252:G:H2'	1:AA:253:C:H6	1.81	0.45
1:AA:2533:A:C2'	1:AA:2534:A:H8	2.28	0.45
1:AA:2586:C:O2'	1:AA:2587:A:H5'	2.16	0.45
1:AA:2602:A:O2'	1:AA:2603:G:P	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:262:A:H2'	1:AA:263:C:C6	2.50	0.45
1:AA:2666:C:H6	1:AA:2667:C:H5'	1.81	0.45
1:AA:2690:C:O2'	1:AA:2691:C:H5'	2.16	0.45
1:AA:2695:C:O2	1:AA:2696:U:C5	2.70	0.45
1:AA:2710:C:H2'	1:AA:2711:A:O4'	2.16	0.45
1:AA:303:U:H6	1:AA:303:U:O5'	2.00	0.45
1:AA:329:G:O2'	1:AA:330:A:OP1	2.31	0.45
1:AA:476:G:H22	1:AA:478:A:H3'	1.81	0.45
1:AA:499:U:H2'	1:AA:500:G:O4'	2.17	0.45
1:AA:513:A:C2'	1:AA:514:A:H5'	2.47	0.45
1:AA:546:C:H2'	1:AA:547:A:C4	2.51	0.45
1:AA:54:G:N2	1:AA:55:G:H1'	2.31	0.45
1:AA:618:G:H2'	1:AA:618(A):C:N1	2.31	0.45
1:AA:65:C:C2	1:AA:66:C:H5	2.32	0.45
1:AA:67:U:H6	1:AA:67:U:C5'	2.30	0.45
1:AA:748:G:H5'	18:AT:88:ARG:CZ	2.47	0.45
1:AA:733:G:O6	1:AA:761:A:N9	2.50	0.45
1:AA:819:A:C2'	1:AA:820:A:O4'	2.65	0.45
1:AA:850:C:O2	1:AA:851:U:C6	2.70	0.45
1:AA:865:C:C2'	1:AA:865:C:O2	2.62	0.45
2:AB:33:G:C2'	2:AB:34:U:H6	2.26	0.45
3:AC:8:ARG:NE	3:AC:12:GLU:OE2	2.49	0.45
1:AA:2178:C:P	3:AC:211:SER:HB3	2.56	0.45
1:AA:1695:G:C1'	4:AD:15:PHE:HB3	2.45	0.45
4:AD:136:ILE:CD1	4:AD:173:VAL:HG11	2.40	0.45
4:AD:183:ARG:CZ	4:AD:268:ARG:HD2	2.46	0.45
1:AA:2227:A:C5'	4:AD:260:ARG:CD	2.91	0.45
4:AD:39:LYS:HB3	4:AD:62:TYR:HD2	1.81	0.45
4:AD:80:ALA:HB1	4:AD:96:HIS:CE1	2.52	0.45
5:AE:148:GLY:C	5:AE:149:ARG:HG3	2.37	0.45
5:AE:101:ARG:HD2	5:AE:170:LEU:O	2.17	0.45
7:AG:8:LYS:HG3	7:AG:100:TRP:O	2.17	0.45
7:AG:57:ALA:CA	7:AG:68:PRO:CD	2.83	0.45
7:AG:98:ARG:O	7:AG:101:ILE:HG22	2.17	0.45
1:AA:1046:A:H61	31:AI:9:LEU:CB	2.29	0.45
32:AJ:118:THR:CG2	32:AJ:119:ASP:N	2.79	0.45
32:AJ:23:VAL:CB	32:AJ:41:PHE:HE1	2.16	0.45
32:AJ:79:ARG:CD	32:AJ:131:ALA:HA	2.47	0.45
9:AK:34:LEU:CD2	9:AK:120:LEU:HD13	2.46	0.45
9:AK:128:HIS:O	9:AK:131:GLN:N	2.50	0.45
10:AL:14:THR:O	10:AL:52:VAL:HG11	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:61:VAL:HG12	10:AL:61:VAL:O	2.15	0.45
10:AL:63:VAL:HG21	10:AL:81:ASP:CA	2.47	0.45
11:AM:86:LYS:HB3	11:AM:87:ASP:H	1.59	0.45
11:AM:97:PRO:HB3	11:AM:102:ARG:HH11	1.80	0.45
12:AN:136:ALA:CB	21:AW:76:LEU:HD13	2.46	0.45
12:AN:134:ARG:HH21	12:AN:137:TYR:N	2.14	0.45
1:AA:1287:A:H8	13:AO:104:ARG:HH11	1.65	0.45
13:AO:22:ARG:CD	13:AO:69:ASP:O	2.65	0.45
13:AO:66:VAL:O	13:AO:69:ASP:N	2.50	0.45
13:AO:77:ARG:HH11	13:AO:77:ARG:CG	2.29	0.45
1:AA:2880:C:C6	13:AO:91:GLN:HB3	2.52	0.45
14:AP:57:LYS:CD	14:AP:65:VAL:HA	2.46	0.45
14:AP:77:ALA:CA	14:AP:80:LEU:HB2	2.46	0.45
14:AP:92:TYR:CD2	14:AP:93:LYS:N	2.85	0.45
14:AP:93:LYS:CG	14:AP:94:TYR:N	2.80	0.45
16:AR:106:PHE:O	16:AR:110:VAL:HG23	2.17	0.45
16:AR:114:LYS:HB3	16:AR:114:LYS:HE2	1.37	0.45
16:AR:55:ARG:C	16:AR:58:ARG:HB3	2.34	0.45
16:AR:68:ALA:HA	16:AR:71:GLN:OE1	2.17	0.45
17:AS:15:GLU:O	17:AS:98:GLU:CD	2.55	0.45
17:AS:40:LEU:HB3	17:AS:51:VAL:CG1	2.47	0.45
18:AT:8:ARG:HB3	18:AT:9:TYR:H	1.38	0.45
20:AV:72:VAL:HG23	20:AV:81:LYS:HE2	1.97	0.45
20:AV:97:ARG:C	20:AV:98:VAL:CG2	2.85	0.45
21:AW:6:LYS:CD	21:AW:35:ARG:HD3	2.44	0.45
21:AW:66:SER:O	21:AW:67:LEU:HD23	2.17	0.45
1:AA:2352:A:N1	22:AX:34:GLY:CA	2.80	0.45
1:AA:1158:C:C5'	24:AZ:31:LEU:HB3	2.47	0.45
24:AZ:9:VAL:CG2	24:AZ:53:LEU:C	2.71	0.45
34:BA:1003:G:OP2	34:BA:1003:G:C8	2.70	0.45
34:BA:1055:A:HO2'	34:BA:1056:U:P	2.40	0.45
34:BA:1080:A:H5'	38:BI:14:ARG:HH22	1.72	0.45
34:BA:1114:C:C2	34:BA:1187:G:C2	3.05	0.45
34:BA:1251:A:H4'	34:BA:1370:G:H4'	1.99	0.45
34:BA:1252:A:C6	34:BA:1253:G:C5	3.05	0.45
34:BA:136:C:H4'	49:BT:65:GLN:OE1	2.16	0.45
34:BA:1386:G:N1	34:BA:1387:G:C5	2.85	0.45
34:BA:1419:G:O2'	34:BA:1420:C:O5'	2.34	0.45
34:BA:1423:G:C2	34:BA:1424:C:C2	3.05	0.45
34:BA:1470:G:C6	34:BA:1471:G:C5	3.05	0.45
34:BA:67:C:O2'	34:BA:171:A:H1'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:186(D):C:C2	34:BA:186(E):C:C5	3.05	0.45
34:BA:251:G:H1	34:BA:271:C:H41	1.64	0.45
34:BA:363:A:N7	45:BP:30:ALA:CB	2.75	0.45
34:BA:440:A:H2'	34:BA:442:C:O4'	2.17	0.45
34:BA:515:G:H3'	34:BA:516:U:C6	2.51	0.45
34:BA:538:G:OP2	45:BP:115:LYS:HB2	2.17	0.45
34:BA:39:G:N7	34:BA:547:A:C8	2.84	0.45
34:BA:26:A:N6	34:BA:558:G:H1'	2.32	0.45
34:BA:571:U:H4'	34:BA:572:A:OP2	2.16	0.45
34:BA:568:G:C2	34:BA:574:A:H2	2.35	0.45
34:BA:592:G:H2'	34:BA:593:G:C5'	2.45	0.45
34:BA:622:A:C4	34:BA:623:C:C6	3.04	0.45
34:BA:588:G:C4	34:BA:753:A:C5	3.05	0.45
34:BA:771:G:O6	34:BA:809:G:C6	2.69	0.45
34:BA:92:G:N2	34:BA:93:U:H1'	2.31	0.45
34:BA:963:G:N1	34:BA:973:G:C6	2.85	0.45
34:BA:978:A:H61	34:BA:1361:G:N2	2.05	0.45
55:BC:57:G:H2'	55:BC:58:A:C5'	2.38	0.45
35:BF:87:ARG:CZ	35:BF:87:ARG:HB3	2.46	0.45
36:BG:122:GLU:HA	36:BG:125:GLU:OE2	2.17	0.45
36:BG:138:VAL:HG13	36:BG:149:ALA:HB1	1.99	0.45
36:BG:172:ARG:HB3	36:BG:172:ARG:NH1	2.31	0.45
36:BG:55:VAL:CG2	36:BG:68:VAL:HG13	2.39	0.45
37:BH:130:GLY:HA3	37:BH:131:ARG:NH1	2.31	0.45
37:BH:39:PRO:HG2	37:BH:44:GLY:O	2.17	0.45
38:BI:149:GLU:OE2	38:BI:149:GLU:HA	2.15	0.45
40:BK:143:ARG:O	40:BK:145:ALA:O	2.33	0.45
40:BK:20:ASP:OD1	40:BK:23:VAL:HG23	2.17	0.45
34:BA:1186:G:H4'	42:BM:110:GLU:HG3	1.99	0.45
42:BM:26:VAL:HG13	42:BM:63:ILE:HD13	1.98	0.45
42:BM:50:LEU:HD11	42:BM:56:LEU:CA	2.23	0.45
42:BM:97:LYS:HB3	42:BM:98:PRO:CD	2.39	0.45
43:BN:40:LEU:CB	43:BN:69:ASN:HB2	2.46	0.45
44:BO:31:THR:HG23	44:BO:42:TRP:HB3	1.98	0.45
45:BP:113:ARG:NH2	45:BP:116:SER:O	2.42	0.45
45:BP:48:PRO:CD	45:BP:49:ASN:H	2.29	0.45
45:BP:86:ARG:HD3	45:BP:101:VAL:CG1	2.47	0.45
48:BS:60:VAL:HA	48:BS:63:ARG:CG	2.47	0.45
49:BT:51:VAL:HG22	49:BT:73:LEU:HD11	1.96	0.45
49:BT:68:ASP:C	49:BT:70:ALA:N	2.69	0.45
50:BU:86:GLU:O	50:BU:89:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:97:SER:CB	50:BU:104:LYS:H	2.30	0.45
51:BV:31:LEU:N	51:BV:31:LEU:CD1	2.79	0.45
51:BV:46:GLU:CB	51:BV:85:LEU:HD13	2.27	0.45
52:BW:32:LYS:HA	52:BW:50:ALA:CA	2.46	0.45
52:BW:51:VAL:HB	52:BW:75:ALA:CB	2.47	0.45
53:BX:11:SER:CA	53:BX:13:LEU:HD11	2.35	0.45
53:BX:38:LYS:HA	53:BX:41:ILE:HD12	1.98	0.45
53:BX:50:GLU:HB2	53:BX:99:LEU:HD12	1.99	0.45
53:BX:62:LEU:O	53:BX:63:ILE:C	2.53	0.45
57:BZ:10:ILE:HG23	57:BZ:96:LEU:O	2.17	0.45
57:BZ:128:ASN:HD22	57:BZ:165:ALA:HB3	1.82	0.45
57:BZ:251:VAL:O	57:BZ:262:ARG:N	2.48	0.45
57:BZ:26:LEU:C	57:BZ:27:GLN:CG	2.86	0.45
57:BZ:446:ARG:HH11	57:BZ:480:VAL:HG12	1.80	0.45
57:BZ:560:PRO:CA	57:BZ:562:ARG:H	2.27	0.45
32:AJ:15:GLY:N	32:AJ:45:THR:CB	2.63	0.45
57:BZ:449:ILE:O	57:BZ:451:PHE:N	2.49	0.45
1:AA:78:A:C2	1:AA:109:G:C2	3.05	0.45
1:AA:110:G:H2'	1:AA:110:G:N3	2.32	0.45
1:AA:1137:G:H2'	1:AA:1138:G:O5'	2.17	0.45
1:AA:1006:C:C6	1:AA:1137:G:N2	2.85	0.45
1:AA:116:C:H4'	1:AA:127:A:H4'	1.99	0.45
1:AA:1191:G:C6	1:AA:1192:G:C5	3.04	0.45
1:AA:119:A:O2'	1:AA:120:U:O5'	2.35	0.45
1:AA:1304:C:H2'	1:AA:1305:C:C5'	2.47	0.45
1:AA:1388:G:N3	1:AA:1389:G:C8	2.85	0.45
1:AA:1429:G:C8	1:AA:1430:C:C5	3.05	0.45
1:AA:1432:C:N3	1:AA:1433:U:C2	2.85	0.45
1:AA:1459:G:H2'	1:AA:1459:G:N3	2.32	0.45
1:AA:1444(A):A:C8	1:AA:1460:A:C2'	3.00	0.45
1:AA:1560:G:C4	1:AA:1561:G:C8	3.04	0.45
1:AA:1657:C:C4	1:AA:1658:C:C5	3.04	0.45
1:AA:1665:A:H4'	10:AL:1:MET:H1	1.82	0.45
1:AA:1746:G:OP2	1:AA:1746:G:C3'	2.60	0.45
1:AA:1784:A:C1'	1:AA:1785:A:C8	3.00	0.45
1:AA:1784:A:C1'	1:AA:1785:A:N7	2.80	0.45
1:AA:1807:G:N2	1:AA:1809:A:OP2	2.50	0.45
1:AA:1842:G:N1	1:AA:1901:A:C6	2.85	0.45
1:AA:194:G:C2	1:AA:195:A:C4	3.05	0.45
1:AA:1996:C:OP2	10:AL:31:LYS:NZ	2.49	0.45
1:AA:2040:C:N3	1:AA:2041:U:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2129:C:C3'	3:AC:6:ARG:CD	2.95	0.45
1:AA:2150:U:N3	1:AA:2151:G:N7	2.64	0.45
1:AA:2176:A:H1'	3:AC:215:THR:CA	2.47	0.45
1:AA:2230:G:C6	1:AA:2231:C:C4	3.04	0.45
1:AA:2325:G:C8	1:AA:2326:C:C5	3.05	0.45
1:AA:2496:C:C6	1:AA:2497:A:C2	3.05	0.45
1:AA:2500:U:H6	1:AA:2500:U:C5'	2.29	0.45
1:AA:2516:G:N9	1:AA:2569:G:N2	2.64	0.45
1:AA:2568:C:H6	1:AA:2568:C:O5'	2.00	0.45
1:AA:2569:G:O2'	1:AA:2570:G:O5'	2.32	0.45
1:AA:2606:C:C6	1:AA:2606:C:H5'	2.38	0.45
1:AA:2624:G:C3'	1:AA:2625:G:H5''	2.47	0.45
1:AA:2681:C:H5	1:AA:2727:G:N2	2.15	0.45
1:AA:2734:A:N6	1:AA:2735:G:N2	2.64	0.45
1:AA:2790:A:H4'	1:AA:2791:C:C5'	2.40	0.45
1:AA:2825:C:C2	1:AA:2826:A:C8	3.05	0.45
1:AA:2839:G:C6	1:AA:2840:C:C4	3.05	0.45
1:AA:287:C:C3'	1:AA:288:C:C5	2.98	0.45
1:AA:2884:U:H2'	1:AA:2885:C:C5'	2.46	0.45
1:AA:311:A:H62	1:AA:329:G:C5'	2.28	0.45
1:AA:356:G:C3'	1:AA:357:A:C8	3.00	0.45
1:AA:416:C:C6	1:AA:416:C:C3'	3.00	0.45
1:AA:450:G:H3'	1:AA:451:C:C5'	2.47	0.45
1:AA:451:C:C4	1:AA:453:C:H3'	2.49	0.45
1:AA:492:A:N3	1:AA:492:A:H2'	2.30	0.45
1:AA:601:C:HO2'	1:AA:602:G:H5'	1.82	0.45
1:AA:629:G:N2	1:AA:640:C:OP1	2.49	0.45
1:AA:687:C:C1'	1:AA:788:A:O4'	2.65	0.45
1:AA:703:U:C5	1:AA:704:G:C5	3.05	0.45
1:AA:728:G:H21	1:AA:730:C:H5''	1.81	0.45
1:AA:803:U:H2'	1:AA:804:A:O4'	2.17	0.45
1:AA:835:A:N6	1:AA:836:G:C6	2.85	0.45
1:AA:999:U:O2	1:AA:1157:G:N2	2.50	0.45
2:AB:75:G:H21	21:AW:85:HIS:CE1	2.35	0.45
2:AB:99:A:H2'	2:AB:100:G:O5'	2.16	0.45
3:AC:97:GLU:CG	3:AC:100:ILE:HD12	2.46	0.45
4:AD:173:VAL:O	4:AD:184:LYS:HA	2.17	0.45
4:AD:161:THR:N	4:AD:196:VAL:HG21	2.32	0.45
1:AA:1824:G:HO2'	4:AD:252:TRP:HZ3	1.61	0.45
5:AE:104:VAL:HG13	5:AE:197:ILE:C	2.33	0.45
5:AE:142:GLY:O	5:AE:143:ASN:CG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:170:LEU:CD2	5:AE:170:LEU:N	2.67	0.45
5:AE:45:THR:HG1	5:AE:80:GLU:C	2.07	0.45
5:AE:49:LEU:HD21	5:AE:75:VAL:N	2.32	0.45
7:AG:22:ARG:CG	7:AG:23:PHE:N	2.80	0.45
7:AG:68:PRO:CG	7:AG:72:ARG:NH1	2.77	0.45
8:AH:19:VAL:HG12	8:AH:24:VAL:CG1	2.37	0.45
8:AH:54:ARG:HB3	8:AH:54:ARG:HH21	1.80	0.45
32:AJ:51:ALA:CB	32:AJ:72:PRO:HB3	2.39	0.45
32:AJ:98:ARG:HH12	32:AJ:101:TRP:HD1	1.65	0.45
9:AK:34:LEU:HD21	9:AK:120:LEU:CD1	2.46	0.45
11:AM:128:HIS:ND1	11:AM:128:HIS:N	2.63	0.45
11:AM:52:GLU:O	11:AM:55:ARG:CB	2.63	0.45
11:AM:96:THR:OG1	11:AM:102:ARG:CD	2.65	0.45
12:AN:25:ASP:CA	12:AN:102:VAL:HG12	2.47	0.45
12:AN:85:LYS:HE2	12:AN:88:GLY:HA3	1.98	0.45
13:AO:17:ARG:HG3	13:AO:18:LEU:CD2	2.47	0.45
13:AO:31:HIS:C	13:AO:33:ARG:H	2.20	0.45
13:AO:79:LEU:CG	13:AO:80:PHE:N	2.79	0.45
14:AP:67:ARG:HD3	14:AP:103:GLU:HB2	1.99	0.45
15:AQ:103:ARG:O	15:AQ:105:LEU:C	2.55	0.45
15:AQ:38:ASN:O	15:AQ:39:ARG:HG2	2.17	0.45
15:AQ:40:THR:O	15:AQ:42:ILE:N	2.50	0.45
15:AQ:61:PHE:CD1	15:AQ:81:PRO:HD3	2.40	0.45
16:AR:43:GLY:C	16:AR:45:TYR:N	2.68	0.45
16:AR:69:CYS:O	16:AR:72:HIS:HB2	2.17	0.45
17:AS:3:ALA:C	17:AS:12:TYR:CE2	2.90	0.45
18:AT:34:ASN:HD22	18:AT:34:ASN:H	1.64	0.45
18:AT:94:ASP:OD2	18:AT:94:ASP:N	2.49	0.45
20:AV:44:ILE:O	20:AV:45:VAL:C	2.55	0.45
21:AW:122:ARG:CB	21:AW:171:ILE:HA	2.48	0.45
21:AW:145:GLU:OE2	21:AW:180:VAL:HG11	2.17	0.45
21:AW:63:ASP:OD1	21:AW:65:GLN:N	2.50	0.45
21:AW:25:PRO:O	21:AW:85:HIS:HD2	2.00	0.45
24:AZ:41:PRO:HA	24:AZ:44:ARG:NE	2.32	0.45
34:BA:1057:G:C4	34:BA:1058:G:C8	3.05	0.45
34:BA:1074:G:C2'	34:BA:1075:C:H5'	2.47	0.45
34:BA:1102:A:C2'	34:BA:1103:C:O5'	2.65	0.45
34:BA:1115:C:O4'	47:BR:61:TRP:HA	2.16	0.45
34:BA:1117:G:C5	34:BA:1184:G:C4	3.05	0.45
34:BA:1252:A:N6	34:BA:1253:G:C6	2.85	0.45
34:BA:1312:G:N2	34:BA:1326:C:O4'	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1349:A:O2'	34:BA:1350:A:H5'	2.17	0.45
34:BA:1434:A:N7	34:BA:1435:G:C5	2.85	0.45
34:BA:152:A:C8	34:BA:152:A:C3'	3.00	0.45
34:BA:266:G:C2'	34:BA:267:C:OP2	2.65	0.45
34:BA:299:G:C2	34:BA:300:A:C6	3.05	0.45
34:BA:393:A:C5	34:BA:394:G:N7	2.85	0.45
34:BA:397:A:H2'	34:BA:399:G:OP2	2.17	0.45
34:BA:415:A:H2'	34:BA:416:G:O4'	2.16	0.45
34:BA:407:G:C2	34:BA:436:C:O2	2.70	0.45
34:BA:448:A:OP2	34:BA:485:G:N2	2.50	0.45
34:BA:568:G:H2'	34:BA:569:C:C6	2.52	0.45
34:BA:622:A:C2	34:BA:623:C:O4'	2.70	0.45
34:BA:674:G:O2'	34:BA:675:A:H5'	2.16	0.45
34:BA:688:G:H2'	34:BA:689:C:O4'	2.16	0.45
34:BA:689:C:C6	34:BA:690:G:C8	3.05	0.45
34:BA:706:A:H2'	34:BA:707:C:O5'	2.17	0.45
34:BA:729:A:N6	48:BS:51:HIS:NE2	2.64	0.45
34:BA:760:G:C2	50:BU:104:LYS:O	2.70	0.45
34:BA:814:A:O2'	34:BA:815:A:H5'	2.16	0.45
34:BA:826:C:C5'	41:BL:12:ARG:NH2	2.77	0.45
34:BA:836:G:N1	34:BA:837:G:C5	2.85	0.45
34:BA:885:G:N2	34:BA:913:A:C2	2.85	0.45
34:BA:21:G:C2	34:BA:915:A:N6	2.84	0.45
34:BA:942:G:C2	34:BA:943:U:C6	3.05	0.45
34:BA:943:U:H6	34:BA:943:U:O5'	2.00	0.45
34:BA:962:C:C4	34:BA:963:G:N7	2.85	0.45
34:BA:988:G:N1	34:BA:989:C:C2	2.85	0.45
35:BF:106:LYS:O	35:BF:110:GLN:OE1	2.36	0.45
35:BF:185:ILE:HG12	35:BF:185:ILE:O	2.17	0.45
35:BF:192:SER:C	35:BF:194:PRO:CD	2.79	0.45
35:BF:28:PHE:HA	35:BF:194:PRO:CG	2.48	0.45
35:BF:23:ARG:O	35:BF:24:TRP:CD1	2.70	0.45
36:BG:119:ARG:C	36:BG:121:ALA:N	2.70	0.45
36:BG:6:HIS:CD2	47:BR:49:HIS:ND1	2.85	0.45
37:BH:85:LYS:HZ3	37:BH:85:LYS:HB3	1.82	0.45
38:BI:11:ILE:CG2	38:BI:31:LEU:HD22	2.48	0.45
40:BK:126:ASP:O	40:BK:131:LYS:HG3	2.17	0.45
41:BL:110:ALA:HA	41:BL:136:GLU:CB	2.40	0.45
41:BL:88:LYS:O	41:BL:90:GLY:N	2.50	0.45
42:BM:71:SER:O	42:BM:74:ILE:N	2.50	0.45
43:BN:89:ASP:O	43:BN:90:LEU:CG	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:26:ASN:O	44:BO:27:ASN:CB	2.65	0.45
44:BO:34:ASP:HB2	44:BO:35:PRO:CD	2.47	0.45
40:BK:150:ALA:CA	44:BO:59:TYR:CG	2.99	0.45
45:BP:24:VAL:CG1	45:BP:98:TYR:CE2	3.00	0.45
45:BP:46:LYS:HZ3	45:BP:94:PRO:HG2	1.82	0.45
45:BP:68:ALA:HB1	45:BP:99:HIS:CA	2.43	0.45
46:BQ:81:LEU:CD2	46:BQ:81:LEU:C	2.86	0.45
47:BR:28:GLY:O	47:BR:29:ARG:C	2.54	0.45
34:BA:995:C:O2	47:BR:4:LYS:CE	2.65	0.45
49:BT:8:ARG:HD3	49:BT:15:PRO:CB	2.47	0.45
50:BU:15:MET:H	50:BU:15:MET:CE	2.30	0.45
51:BV:56:THR:HB	51:BV:58:LEU:CD1	2.44	0.45
51:BV:74:ARG:O	51:BV:77:GLY:HA2	2.17	0.45
52:BW:21:GLU:O	52:BW:24:ALA:HB2	2.17	0.45
52:BW:27:GLU:O	52:BW:28:LYS:HB2	2.17	0.45
34:BA:1220:G:N2	52:BW:54:GLY:O	2.48	0.45
53:BX:40:ALA:O	53:BX:43:LEU:N	2.50	0.45
53:BX:64:ASP:OD1	53:BX:81:LYS:HE3	2.17	0.45
57:BZ:160:PHE:CD1	57:BZ:161:ALA:O	2.70	0.45
57:BZ:169:ASN:CA	57:BZ:171:ILE:HD13	2.45	0.45
57:BZ:212:LEU:CA	57:BZ:223:ILE:HD12	2.47	0.45
57:BZ:309:MET:CE	57:BZ:366:LEU:HD13	2.46	0.45
1:AA:2471:C:C5'	57:BZ:529:ARG:NH2	2.63	0.45
57:BZ:549:SER:OG	57:BZ:550:GLY:HA2	2.16	0.45
57:BZ:6:ARG:NE	57:BZ:195:PRO:O	2.50	0.45
56:BD:47:U:HO2'	56:BD:48:C:P	2.39	0.45
56:BD:52:G:N1	56:BD:63:G:C6	2.85	0.45
56:BD:67:C:N4	56:BD:68:C:N3	2.65	0.45
57:BZ:496:ALA:CB	57:BZ:516:ALA:HB3	2.47	0.45
57:BZ:539:THR:N	57:BZ:540:GLY:CA	2.79	0.45
1:AA:1038:C:H5'	1:AA:1039:G:P	2.57	0.45
57:BZ:320:GLY:N	57:BZ:321:LYS:CA	2.79	0.45
56:BD:33:U:H3'	56:BD:34:G:H5''	1.99	0.45
57:BZ:168:LEU:N	57:BZ:168:LEU:HD23	2.31	0.45
18:AT:2:GLU:OE2	18:AT:2:GLU:HA	2.17	0.45
1:AA:1011:G:OP2	16:AR:75:ASN:OD1	2.35	0.44
1:AA:1024:G:P	1:AA:1025:G:H3'	2.57	0.44
1:AA:1042:G:N2	1:AA:1113:U:C2	2.73	0.44
1:AA:1061:U:H1'	1:AA:1070:A:N3	2.31	0.44
1:AA:974:G:H5'	1:AA:1187:G:O2'	2.17	0.44
1:AA:1204:A:C5'	1:AA:1206:G:OP1	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1228:G:C8	1:AA:1228:G:H5'	2.52	0.44
1:AA:1343:G:C6	1:AA:1404:C:N3	2.85	0.44
1:AA:1407:C:OP2	1:AA:1407:C:H6	1.97	0.44
1:AA:140:A:H2	1:AA:1408:C:C2	2.35	0.44
1:AA:1535:U:H3'	1:AA:1536:A:H8	1.82	0.44
1:AA:1670:C:H2'	1:AA:1671:U:C5'	2.46	0.44
1:AA:1681:G:H1'	1:AA:1763:G:H5'	1.99	0.44
1:AA:182:A:H1'	1:AA:433:C:O2'	2.17	0.44
1:AA:188:G:C8	1:AA:189:G:C8	3.04	0.44
1:AA:1964:G:H4'	1:AA:1965:C:OP2	2.15	0.44
1:AA:2028:U:H2'	1:AA:2029:G:N7	2.31	0.44
1:AA:2082:A:N3	1:AA:2082:A:H2'	2.31	0.44
1:AA:2129:C:O2'	1:AA:2130:U:O4'	2.25	0.44
1:AA:2208:U:C2	1:AA:2217:G:C6	3.05	0.44
1:AA:2216:G:H21	4:AD:150:LYS:CD	2.30	0.44
1:AA:2090:G:C6	1:AA:2230:G:C6	3.05	0.44
1:AA:2259:G:H4'	1:AA:2427:C:H2'	1.97	0.44
1:AA:2450:A:C2	1:AA:2451:A:N3	2.85	0.44
1:AA:2572:A:C5'	1:AA:2573:C:OP1	2.65	0.44
1:AA:2573:C:OP1	1:AA:2574:G:OP1	2.35	0.44
1:AA:2630:G:H21	1:AA:2892:A:H1'	1.81	0.44
1:AA:2648:C:C5	1:AA:2649:U:O4	2.70	0.44
1:AA:2651:C:H42	1:AA:2670:A:N6	2.14	0.44
1:AA:270(L):U:C2'	1:AA:270(L):U:O2	2.65	0.44
1:AA:2642:G:C2	1:AA:2773:C:N3	2.86	0.44
1:AA:2834:G:C4	1:AA:2879:C:N4	2.85	0.44
1:AA:285:C:N3	1:AA:357:A:C2	2.85	0.44
1:AA:30:G:H2'	1:AA:31:C:H6	1.82	0.44
1:AA:370:G:C2'	1:AA:371:A:O5'	2.65	0.44
1:AA:403:U:C2'	1:AA:403:U:O2	2.65	0.44
1:AA:462:C:H42	1:AA:467:G:H1	1.65	0.44
1:AA:507:A:H5'	1:AA:509:C:O4'	2.18	0.44
1:AA:573:G:C2'	1:AA:574:C:H5''	2.46	0.44
1:AA:579:G:O2'	1:AA:2019:A:OP1	2.34	0.44
1:AA:581:C:O3'	16:AR:32:PHE:CE2	2.70	0.44
1:AA:612:G:C4'	1:AA:616:A:N1	2.80	0.44
1:AA:663:G:H5'	11:AM:18:ARG:NE	2.33	0.44
1:AA:687:C:O5'	1:AA:688:U:OP2	2.35	0.44
1:AA:727:A:H2'	1:AA:728:G:C5'	2.43	0.44
1:AA:727:A:C2'	1:AA:727:A:N3	2.68	0.44
1:AA:729:G:C5	1:AA:730:C:N1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:7:G:O2'	1:AA:8:A:C5'	2.64	0.44
1:AA:811:U:O4	11:AM:23:PRO:CD	2.65	0.44
1:AA:829:A:OP1	1:AA:831:G:H1'	2.16	0.44
2:AB:100:G:C4	2:AB:101:A:C8	3.04	0.44
3:AC:21:THR:CB	3:AC:228:SER:CB	2.72	0.44
3:AC:97:GLU:HB3	3:AC:126:LYS:HZ3	1.81	0.44
1:AA:1825:A:OP1	4:AD:247:ALA:HB2	2.16	0.44
4:AD:72:LYS:HZ2	4:AD:75:ILE:CD1	2.30	0.44
5:AE:105:THR:HG21	5:AE:199:ARG:NH2	2.32	0.44
1:AA:2052:G:C8	5:AE:150:VAL:HG23	2.52	0.44
5:AE:178:GLU:HB3	5:AE:179:GLU:OE2	2.17	0.44
5:AE:5:LEU:HD13	5:AE:197:ILE:HA	2.00	0.44
6:AF:101:LEU:HD13	6:AF:101:LEU:C	2.38	0.44
6:AF:32:LEU:HD21	6:AF:105:VAL:CG1	2.47	0.44
6:AF:36:VAL:HG11	6:AF:183:VAL:HG21	1.99	0.44
6:AF:194:MET:HE1	6:AF:197:ASP:CA	2.48	0.44
6:AF:194:MET:SD	6:AF:197:ASP:CB	3.05	0.44
6:AF:64:ILE:C	6:AF:64:ILE:HD13	2.34	0.44
7:AG:18:GLU:HB3	7:AG:19:LEU:HD12	1.98	0.44
7:AG:27:ASN:HB3	7:AG:29:TRP:CZ2	2.52	0.44
7:AG:56:ALA:O	7:AG:68:PRO:HD2	2.17	0.44
8:AH:42:ARG:O	8:AH:43:VAL:HG23	2.16	0.44
9:AK:99:LEU:CD1	9:AK:103:VAL:HG11	2.46	0.44
9:AK:70:LYS:CA	9:AK:85:ILE:O	2.62	0.44
10:AL:22:ILE:HD12	10:AL:40:VAL:HG11	1.99	0.44
10:AL:70:LYS:HE2	10:AL:104:ARG:HG2	1.96	0.44
10:AL:78:ARG:HE	10:AL:78:ARG:HB3	1.53	0.44
11:AM:113:LYS:CG	11:AM:114:ILE:N	2.80	0.44
11:AM:117:GLU:H	11:AM:117:GLU:CD	2.19	0.44
11:AM:114:ILE:HD12	11:AM:123:LEU:HG	1.97	0.44
11:AM:58:THR:HG22	11:AM:59:LEU:N	2.32	0.44
11:AM:65:ARG:HH12	11:AM:68:GLN:NE2	2.13	0.44
11:AM:96:THR:O	11:AM:102:ARG:CD	2.64	0.44
12:AN:43:THR:O	12:AN:44:ALA:C	2.54	0.44
12:AN:75:THR:HG21	12:AN:89:ASN:O	2.17	0.44
13:AO:47:PHE:C	13:AO:49:ASP:H	2.20	0.44
14:AP:100:ALA:O	14:AP:101:LEU:C	2.56	0.44
14:AP:20:ARG:NH2	14:AP:20:ARG:CB	2.58	0.44
14:AP:40:ILE:N	14:AP:40:ILE:HD12	2.32	0.44
14:AP:49:VAL:HG21	14:AP:80:LEU:CG	2.47	0.44
15:AQ:97:ALA:C	15:AQ:99:LEU:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:32:PHE:O	16:AR:35:ALA:CB	2.59	0.44
16:AR:36:ARG:O	16:AR:39:LEU:HB2	2.17	0.44
17:AS:23:GLU:HG2	17:AS:23:GLU:O	2.17	0.44
18:AT:20:VAL:HG21	18:AT:47:VAL:HG21	1.99	0.44
18:AT:72:LYS:HB3	18:AT:108:GLY:CA	2.46	0.44
19:AU:65:ARG:HA	19:AU:70:LEU:CG	2.46	0.44
21:AW:122:ARG:O	21:AW:124:ILE:N	2.50	0.44
21:AW:103:ARG:O	21:AW:138:GLU:HB3	2.18	0.44
21:AW:31:ARG:HG2	21:AW:31:ARG:NH1	2.32	0.44
22:AX:72:ARG:O	22:AX:75:LEU:CD1	2.65	0.44
34:BA:1000:A:N6	34:BA:1001:G:O6	2.50	0.44
34:BA:1048:G:O4'	34:BA:1215:G:C4'	2.63	0.44
34:BA:1126:U:OP1	34:BA:1126:U:O4'	2.35	0.44
34:BA:1133:G:C8	34:BA:1133:G:H3'	2.52	0.44
34:BA:1145:C:O2'	34:BA:1146:A:P	2.74	0.44
34:BA:133:U:O3'	34:BA:134:A:C8	2.70	0.44
34:BA:1347:G:O2'	34:BA:1348:U:P	2.75	0.44
34:BA:1352:C:H1'	34:BA:1371:G:N2	2.32	0.44
34:BA:1433:A:O2'	34:BA:1434:A:H5'	2.17	0.44
34:BA:1449:C:C4	34:BA:1454:G:N1	2.77	0.44
34:BA:1453:G:C2'	34:BA:1454:G:H5'	2.46	0.44
34:BA:1477:C:H2'	34:BA:1478:C:O4'	2.17	0.44
34:BA:1519:A:O5'	34:BA:1519:A:H8	1.99	0.44
34:BA:169:C:C6	34:BA:170:U:H5	2.35	0.44
34:BA:104:G:H5'	34:BA:172:A:N1	2.32	0.44
34:BA:194:C:O2'	53:BX:68:LYS:NZ	2.38	0.44
34:BA:20:U:O2	34:BA:20:U:C2'	2.65	0.44
34:BA:195:A:H1'	34:BA:223:U:H5'	1.99	0.44
34:BA:245:C:N3	34:BA:284:G:C6	2.85	0.44
34:BA:311:C:HO2'	34:BA:312:C:H5'	1.82	0.44
34:BA:323:U:C5	34:BA:324:G:C4	2.98	0.44
34:BA:399:G:C6	34:BA:400:C:C4	3.05	0.44
34:BA:440:A:C8	34:BA:442:C:C5	3.04	0.44
34:BA:544:G:C2	34:BA:545:C:C2	3.05	0.44
34:BA:563:A:C2	34:BA:567:G:C4	3.05	0.44
34:BA:621:A:N6	34:BA:622:A:N6	2.65	0.44
34:BA:689:C:O2	34:BA:689:C:H2'	2.16	0.44
34:BA:714:G:H1'	34:BA:777:A:C5	2.51	0.44
34:BA:897:C:C2'	34:BA:898:G:O5'	2.65	0.44
34:BA:936:C:C2'	34:BA:937:A:C5'	2.92	0.44
34:BA:956:U:O2	34:BA:960:U:O4	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BE:72:C:H6	56:BE:72:C:H5''	1.82	0.44
35:BF:162:ILE:N	35:BF:162:ILE:CD1	2.80	0.44
35:BF:167:PRO:O	35:BF:174:VAL:HG21	2.17	0.44
35:BF:179:LYS:O	35:BF:180:LEU:C	2.53	0.44
35:BF:83:MET:HB2	35:BF:234:PRO:CG	2.45	0.44
36:BG:55:VAL:HG22	36:BG:68:VAL:CG2	2.47	0.44
37:BH:107:ARG:HD2	37:BH:173:TRP:CZ2	2.52	0.44
34:BA:408:A:H5'	37:BH:116:GLN:HE21	1.81	0.44
39:BJ:34:GLY:C	39:BJ:68:PRO:HD3	2.38	0.44
39:BJ:6:VAL:HG12	39:BJ:6:VAL:O	2.15	0.44
40:BK:111:ARG:HD3	40:BK:122:HIS:HB3	1.98	0.44
40:BK:57:GLU:CB	40:BK:58:PRO:HD2	2.46	0.44
40:BK:51:GLN:NE2	40:BK:58:PRO:HD3	2.31	0.44
41:BL:26:VAL:O	41:BL:58:TYR:CD1	2.70	0.44
41:BL:36:LEU:O	41:BL:39:LEU:HB2	2.18	0.44
34:BA:1254:C:OP1	43:BN:45:ARG:NE	2.50	0.44
45:BP:34:ARG:O	45:BP:60:LEU:HB2	2.17	0.44
34:BA:1329:A:HO2'	46:BQ:70:LEU:HD13	1.78	0.44
48:BS:24:SER:O	48:BS:28:GLN:HG2	2.17	0.44
49:BT:32:TYR:C	49:BT:34:GLU:N	2.70	0.44
51:BV:40:LEU:O	51:BV:41:LYS:C	2.54	0.44
39:BJ:50:TYR:OH	51:BV:74:ARG:O	2.26	0.44
52:BW:17:GLU:OE1	52:BW:18:LYS:N	2.50	0.44
53:BX:12:ALA:O	53:BX:15:ARG:N	2.51	0.44
53:BX:84:LEU:CD1	53:BX:84:LEU:C	2.86	0.44
54:BY:13:ILE:HG23	54:BY:14:TRP:N	2.32	0.44
57:BZ:127:ILE:HB	57:BZ:164:TYR:CG	2.52	0.44
57:BZ:233:PRO:HG2	57:BZ:248:ASN:CG	2.31	0.44
57:BZ:305:PRO:HB3	57:BZ:361:ARG:NE	2.32	0.44
56:BD:3:C:H2'	56:BD:4:C:C6	2.52	0.44
56:BD:52:G:N1	56:BD:63:G:C2	2.84	0.44
55:BC:37:A:N7	55:BC:38:A:C5	2.84	0.44
57:BZ:490:SER:C	57:BZ:534:THR:HG22	2.38	0.44
1:AA:1549:C:H2'	1:AA:1550:C:C6	2.49	0.44
8:AH:20:ALA:HB3	8:AH:21:PRO:HD2	1.99	0.44
42:BM:99:LEU:N	42:BM:99:LEU:CD2	2.80	0.44
32:AJ:4:VAL:O	32:AJ:4:VAL:HG13	2.17	0.44
53:BX:94:ALA:O	53:BX:95:ALA:HB3	2.17	0.44
1:AA:1061:U:OP2	1:AA:1061:U:C6	2.70	0.44
1:AA:1266:G:C2'	1:AA:1267:U:OP2	2.65	0.44
1:AA:1388:G:N1	1:AA:1400:G:C2	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:152:G:C2	1:AA:153:C:C2	3.05	0.44
1:AA:1342:A:C5	1:AA:1601:G:O6	2.71	0.44
1:AA:749:C:C5	1:AA:1618:A:N6	2.85	0.44
1:AA:1754:C:C4	1:AA:1755:A:C5	3.05	0.44
1:AA:1636:C:O3'	1:AA:1760:A:O2'	2.34	0.44
1:AA:1906:G:C5	1:AA:1929:G:N1	2.70	0.44
1:AA:1926:U:O2	1:AA:1929:G:C2	2.70	0.44
1:AA:1926:U:C2	1:AA:1928:A:OP2	2.71	0.44
1:AA:1269:A:N6	1:AA:2011:U:H3	2.06	0.44
1:AA:2051:A:N3	1:AA:2052:G:N7	2.65	0.44
1:AA:2089:U:C2	1:AA:2090:G:N7	2.85	0.44
1:AA:2168:G:N2	1:AA:2170:A:H2'	2.32	0.44
1:AA:21:A:O2'	1:AA:22:C:H5'	2.16	0.44
1:AA:228:A:N6	1:AA:230:U:C2	2.86	0.44
1:AA:197:A:C6	1:AA:2430:A:N7	2.86	0.44
1:AA:2431:U:OP2	1:AA:2432:A:P	2.75	0.44
1:AA:244:A:C2	1:AA:255:A:C2	3.05	0.44
1:AA:2666:C:H3'	1:AA:2667:C:C5'	2.47	0.44
1:AA:2706:G:C2'	1:AA:2707:G:O5'	2.65	0.44
1:AA:270(E):G:C2	1:AA:270(V):G:N2	2.85	0.44
1:AA:2719:G:OP1	15:AQ:101:PHE:CE1	2.71	0.44
1:AA:2770:G:C2'	1:AA:2771:C:H5'	2.47	0.44
1:AA:2780:G:HO2'	1:AA:2781:A:H5''	1.81	0.44
1:AA:2776:A:C5	1:AA:2781:A:N7	2.85	0.44
1:AA:297:C:H2'	1:AA:298:G:C8	2.52	0.44
1:AA:308:G:N2	1:AA:309:G:O2'	2.50	0.44
1:AA:322:A:O5'	1:AA:341:G:H5'	2.17	0.44
1:AA:270(C):C:P	1:AA:365:C:O2'	2.75	0.44
1:AA:457:A:C1'	1:AA:459:U:N3	2.74	0.44
1:AA:476:G:N2	1:AA:479:A:OP2	2.50	0.44
1:AA:4:C:C2	1:AA:5:A:N7	2.85	0.44
1:AA:481:G:N2	1:AA:507:A:C4	2.85	0.44
1:AA:514:A:O2'	1:AA:515:A:H5'	2.17	0.44
1:AA:612:G:N2	1:AA:617:G:N1	2.64	0.44
1:AA:617:G:N7	1:AA:618:G:N7	2.64	0.44
1:AA:620:G:C5'	1:AA:621:A:OP1	2.60	0.44
1:AA:660:G:C6	1:AA:661:C:C4	3.05	0.44
1:AA:718:A:C5'	1:AA:719:C:C5	2.94	0.44
1:AA:734:A:C2	1:AA:735:A:C1'	3.01	0.44
1:AA:771:G:C2	1:AA:772:C:C5	3.05	0.44
1:AA:955:C:N4	1:AA:956:G:C2	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:997:G:H5''	16:AR:92:ARG:CZ	2.44	0.44
4:AD:107:ALA:O	4:AD:108:PRO:O	2.35	0.44
4:AD:23:GLU:CD	4:AD:24:ILE:O	2.55	0.44
4:AD:259:THR:HG22	4:AD:260:ARG:H	1.81	0.44
4:AD:181:GLU:CG	4:AD:268:ARG:NE	2.79	0.44
4:AD:84:TYR:CD1	4:AD:91:ARG:HD2	2.52	0.44
1:AA:247:G:H22	5:AE:8:LYS:CG	119.04	0.44
5:AE:96:PHE:HD2	5:AE:96:PHE:HA	1.63	0.44
5:AE:9:VAL:HG13	15:AQ:3:ARG:HG2	1.99	0.44
6:AF:176:LEU:CD1	6:AF:178:PRO:HD2	2.47	0.44
6:AF:200:GLU:CD	6:AF:201:VAL:H	2.14	0.44
6:AF:39:TRP:CG	6:AF:101:LEU:HG	2.52	0.44
1:AA:674:G:O3'	6:AF:74:ARG:NH2	2.50	0.44
6:AF:7:TYR:HD2	6:AF:119:ARG:HB3	1.77	0.44
7:AG:123:ASN:HB2	7:AG:126:ASP:CB	2.45	0.44
7:AG:33:ARG:NH2	7:AG:34:LEU:C	2.70	0.44
1:AA:2306:C:N4	7:AG:43:LEU:HB3	2.32	0.44
8:AH:9:ILE:CD1	8:AH:69:ARG:HH22	2.28	0.44
32:AJ:72:PRO:O	32:AJ:77:LEU:HB2	2.17	0.44
9:AK:109:LYS:HE3	9:AK:111:PRO:HD2	1.99	0.44
9:AK:38:HIS:O	9:AK:42:TRP:HZ3	2.00	0.44
10:AL:66:LYS:HD2	10:AL:66:LYS:HA	1.83	0.44
11:AM:76:LYS:CA	11:AM:101:VAL:HG11	2.37	0.44
12:AN:104:PHE:C	12:AN:105:GLU:CD	2.75	0.44
1:AA:2484:G:C4	12:AN:124:LYS:HE2	2.52	0.44
12:AN:37:LEU:H	12:AN:39:PRO:HD3	1.82	0.44
14:AP:17:ARG:HA	14:AP:20:ARG:HG3	1.99	0.44
14:AP:28:VAL:HA	14:AP:37:ALA:CB	2.46	0.44
15:AQ:111:ARG:HA	15:AQ:114:LEU:CG	2.47	0.44
16:AR:61:TRP:CD1	16:AR:61:TRP:N	2.85	0.44
17:AS:1:MET:HB3	17:AS:15:GLU:HG2	1.98	0.44
1:AA:564:C:OP1	17:AS:80:GLN:HB3	2.16	0.44
17:AS:93:GLU:OE2	17:AS:95:LEU:CD2	2.66	0.44
19:AU:12:VAL:N	19:AU:28:PHE:HA	2.32	0.44
1:AA:1340:U:C5	19:AU:57:LEU:CG	2.98	0.44
19:AU:9:LEU:CD1	19:AU:9:LEU:N	2.66	0.44
21:AW:108:PRO:O	21:AW:109:ALA:HB2	2.18	0.44
21:AW:18:LEU:CB	21:AW:23:LYS:O	2.61	0.44
22:AX:74:ARG:O	22:AX:75:LEU:C	2.53	0.44
23:AY:54:ARG:O	23:AY:55:LEU:C	2.55	0.44
34:BA:1064:G:O3'	34:BA:1065:U:O4'	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1085:U:O4'	34:BA:1094:G:C2	2.71	0.44
34:BA:110:C:P	34:BA:110:C:H6	2.40	0.44
34:BA:1236:A:H2'	34:BA:1237:C:C6	2.53	0.44
34:BA:1241:G:O2'	34:BA:1242:C:C5'	2.65	0.44
34:BA:1305:G:OP1	54:BY:2:GLY:N	2.50	0.44
34:BA:924:C:H5'	34:BA:1399:C:OP1	2.16	0.44
34:BA:1399:C:O2	34:BA:1401:G:N7	2.50	0.44
34:BA:142:G:N3	34:BA:142:G:H2'	2.31	0.44
34:BA:1436:U:O2'	34:BA:1437:C:H5'	2.17	0.44
34:BA:160:A:C1'	34:BA:344:A:H62	2.31	0.44
34:BA:181:G:H22	34:BA:223:U:H4'	1.83	0.44
34:BA:22:G:OP1	34:BA:561:U:O2	2.35	0.44
34:BA:261:U:H5	53:BX:79:ARG:NH1	2.15	0.44
34:BA:530:G:H5'	34:BA:531:U:H5''	1.99	0.44
34:BA:567:G:N2	34:BA:568:G:H1'	2.33	0.44
34:BA:568:G:N3	34:BA:574:A:H2	2.16	0.44
34:BA:704:A:H2'	34:BA:705:U:H6	1.79	0.44
34:BA:715:A:C4'	34:BA:777:A:N6	2.81	0.44
34:BA:722:A:H5'	34:BA:723:U:O4	2.16	0.44
34:BA:854:G:H3'	34:BA:871:U:C4	2.48	0.44
34:BA:89:U:N3	34:BA:90:C:C4	2.86	0.44
34:BA:991:U:N3	34:BA:1212:U:O2	2.49	0.44
56:BE:74:C:O5'	56:BE:74:C:C6	2.71	0.44
35:BF:111:ARG:O	35:BF:114:ARG:HG3	2.18	0.44
35:BF:136:VAL:CA	35:BF:139:LYS:HZ2	2.30	0.44
36:BG:8:ILE:CG2	36:BG:9:GLY:N	2.80	0.44
34:BA:404:U:OP1	37:BH:118:ARG:NH1	2.51	0.44
37:BH:120:LEU:HG	37:BH:121:VAL:H	1.82	0.44
37:BH:29:PRO:O	37:BH:30:LYS:HB2	2.18	0.44
38:BI:41:VAL:CG2	38:BI:113:ALA:HA	2.47	0.44
39:BJ:23:LYS:HA	39:BJ:26:ILE:HG13	1.98	0.44
40:BK:13:GLN:O	40:BK:14:PRO:O	2.35	0.44
40:BK:37:ASN:OD1	40:BK:38:LEU:HD13	2.16	0.44
40:BK:65:ALA:HA	40:BK:68:ASN:HD22	1.83	0.44
41:BL:112:LEU:CD1	41:BL:133:LEU:HD23	2.48	0.44
41:BL:49:GLU:OE2	41:BL:60:ARG:HB3	2.16	0.44
41:BL:44:PHE:HA	41:BL:79:VAL:CG1	2.47	0.44
42:BM:36:TYR:HD2	42:BM:37:PHE:HE2	1.66	0.44
42:BM:40:LEU:HB3	42:BM:42:ARG:CB	2.28	0.44
42:BM:6:GLY:HA3	42:BM:84:ALA:N	2.32	0.44
43:BN:65:LEU:HD13	47:BR:36:PHE:HE2	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:81:ASP:OD1	44:BO:106:LYS:CD	2.64	0.44
46:BQ:5:ALA:HB1	46:BQ:67:GLU:HG2	0.55	0.44
48:BS:24:SER:O	48:BS:25:THR:C	2.55	0.44
48:BS:63:ARG:O	48:BS:64:ARG:C	2.56	0.44
49:BT:8:ARG:NH1	49:BT:14:ASN:O	2.50	0.44
50:BU:29:HIS:ND1	50:BU:32:TYR:N	2.63	0.44
39:BJ:96:PRO:N	51:BV:32:ARG:HG3	2.32	0.44
53:BX:10:LEU:HD12	53:BX:11:SER:N	2.32	0.44
57:BZ:2:ILE:HG22	57:BZ:199:VAL:HG11	1.93	0.44
57:BZ:382:VAL:H	57:BZ:578:VAL:H	1.65	0.44
1:AA:2568:C:O3'	57:BZ:552:ASP:OD2	2.35	0.44
31:AI:51:LEU:CA	31:AI:89:ALA:O	2.57	0.44
56:BD:67:C:O5'	56:BD:67:C:C6	2.71	0.44
56:BD:72:C:C5	56:BD:73:A:C2	3.02	0.44
1:AA:1914:C:OP2	1:AA:1914:C:C5	2.70	0.44
55:BC:31:A:H8	55:BC:31:A:O5'	2.00	0.44
34:BA:131:C:C4	34:BA:232:G:N1	2.85	0.44
37:BH:191:ARG:C	37:BH:191:ARG:HD3	2.35	0.44
8:AH:93:GLY:O	8:AH:107:VAL:HB	2.16	0.44
1:AA:1027:A:N1	1:AA:1126:A:C4	2.85	0.44
1:AA:1069:A:OP1	1:AA:1070:A:C6	2.70	0.44
1:AA:1131:G:C2	1:AA:1132:A:C5	3.05	0.44
1:AA:120:U:H1'	1:AA:149:A:C1'	2.47	0.44
1:AA:1292:U:H2'	1:AA:1293:C:H6	1.82	0.44
1:AA:1372:U:C4	1:AA:1373:A:N7	2.85	0.44
1:AA:145:G:C2	1:AA:146:G:C4	3.06	0.44
1:AA:1472:A:O2'	1:AA:1473:G:C8	2.62	0.44
1:AA:120:U:O2	1:AA:149:A:C2	2.70	0.44
1:AA:1537:C:OP2	1:AA:1538:G:OP2	2.35	0.44
1:AA:1661:G:C5	1:AA:1662:C:C5	3.05	0.44
1:AA:1815:A:HO2'	1:AA:1816:G:H4'	1.81	0.44
1:AA:1821:A:N6	1:AA:1822:G:C6	2.85	0.44
1:AA:1970:A:C5	1:AA:1972:A:C5	3.05	0.44
1:AA:2024:G:C6	1:AA:2025:C:C5	3.05	0.44
1:AA:2046:G:C2	1:AA:2047:U:C4	3.06	0.44
1:AA:2126:A:HO2'	1:AA:2127:G:P	2.40	0.44
1:AA:2150:U:C2	1:AA:2151:G:C8	3.05	0.44
1:AA:2307:G:O2'	1:AA:2311:A:N7	2.50	0.44
1:AA:2258:C:N4	1:AA:2426:A:O4'	2.50	0.44
1:AA:2445:G:C2	1:AA:2446:G:C5	3.05	0.44
1:AA:2450:A:H2	1:AA:2451:A:H1'	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2524:G:C4	1:AA:2525:G:H1'	2.52	0.44
1:AA:2644:G:H1	1:AA:2645:G:H21	1.64	0.44
1:AA:2647:U:C2'	1:AA:2648:C:C6	2.88	0.44
1:AA:2653:U:H6	1:AA:2653:U:H3'	1.83	0.44
1:AA:2687:U:O2	1:AA:2688:U:O4'	2.35	0.44
1:AA:270(A):A:N6	1:AA:270(Z):U:O5'	2.50	0.44
1:AA:270(V):G:C4	1:AA:270(W):G:N7	2.85	0.44
1:AA:2776:A:N7	1:AA:2781:A:N7	2.65	0.44
1:AA:2786:U:N3	1:AA:2787:C:C5	2.86	0.44
1:AA:2820:A:OP1	13:AO:5:LYS:CE	2.66	0.44
1:AA:2820:A:OP1	13:AO:5:LYS:HG2	2.16	0.44
1:AA:2825:C:N4	1:AA:2826:A:H62	2.15	0.44
1:AA:2875:C:O5'	1:AA:2875:C:H6	2.01	0.44
1:AA:28:A:C2	1:AA:29:U:C4'	3.01	0.44
1:AA:304:G:H2'	1:AA:305:U:O4'	2.16	0.44
1:AA:365:C:C2	1:AA:366:C:C5	3.05	0.44
1:AA:423:A:H3'	1:AA:423:A:OP2	2.17	0.44
1:AA:447:A:C6	1:AA:473:G:C1'	3.01	0.44
1:AA:564:C:H1'	16:AR:37:GLU:OE2	2.17	0.44
1:AA:572:A:C8	1:AA:573:G:C5	3.06	0.44
1:AA:584:C:OP2	16:AR:10:ARG:NH2	2.45	0.44
1:AA:588:U:H1'	6:AF:90:PHE:CD1	2.52	0.44
1:AA:237:C:O2'	1:AA:608:A:H4'	2.18	0.44
1:AA:727:A:H61	1:AA:729:G:H1	1.63	0.44
1:AA:745:G:HO2'	1:AA:748:G:H1'	1.74	0.44
1:AA:754:C:H2'	1:AA:754:C:O2	2.18	0.44
1:AA:763:G:C5	1:AA:765:G:C8	3.05	0.44
1:AA:785:G:N3	1:AA:786:C:C6	2.85	0.44
1:AA:813:U:H2'	1:AA:814:C:H6	1.82	0.44
1:AA:815:C:H2'	1:AA:816:C:H6	1.82	0.44
1:AA:908:C:H2'	1:AA:909:A:C5'	2.48	0.44
1:AA:944:G:H2'	1:AA:944:G:N3	2.32	0.44
1:AA:971:C:N4	1:AA:972:G:N2	2.66	0.44
1:AA:983:A:C2	1:AA:984:A:N1	2.85	0.44
2:AB:46:A:O2'	2:AB:47:C:H5'	2.16	0.44
3:AC:156:ILE:C	3:AC:159:GLY:CA	2.85	0.44
4:AD:208:LYS:NZ	4:AD:211:ARG:CZ	2.80	0.44
4:AD:55:GLY:N	4:AD:218:ARG:HH11	2.16	0.44
4:AD:6:PHE:N	4:AD:28:GLU:OE1	2.51	0.44
4:AD:55:GLY:H	4:AD:218:ARG:HD2	1.79	0.44
5:AE:6:GLY:O	5:AE:26:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:185:ASP:HA	6:AF:188:ARG:HG2	1.99	0.44
1:AA:675:A:H5"	6:AF:67:GLN:NE2	2.32	0.44
7:AG:139:LEU:CD1	7:AG:142:PRO:CB	2.94	0.44
7:AG:33:ARG:HH22	7:AG:34:LEU:C	2.20	0.44
7:AG:9:ARG:HD2	7:AG:10:LYS:HZ3	1.79	0.44
8:AH:105:LEU:CD1	8:AH:113:VAL:HG11	2.45	0.44
8:AH:124:GLU:O	8:AH:131:VAL:HG22	2.17	0.44
8:AH:4:ILE:N	8:AH:4:ILE:CD1	2.80	0.44
8:AH:52:VAL:HG22	8:AH:65:HIS:ND1	2.32	0.44
8:AH:60:ARG:HD2	8:AH:61:HIS:CD2	2.52	0.44
8:AH:8:PRO:N	8:AH:69:ARG:NH1	2.63	0.44
8:AH:97:ARG:CB	8:AH:97:ARG:NH2	2.79	0.44
32:AJ:52:ILE:HG13	32:AJ:76:TYR:HB2	1.98	0.44
32:AJ:59:ILE:N	32:AJ:59:ILE:CD1	2.73	0.44
32:AJ:76:TYR:HE2	32:AJ:80:LYS:NZ	2.15	0.44
9:AK:17:ASP:HB3	9:AK:21:LYS:HZ1	1.82	0.44
9:AK:23:LEU:CG	9:AK:63:THR:HG23	2.46	0.44
9:AK:90:MET:HB3	9:AK:91:LEU:HD23	1.99	0.44
10:AL:107:ARG:O	10:AL:108:GLU:C	2.54	0.44
10:AL:7:TYR:CB	10:AL:18:LYS:CE	2.83	0.44
1:AA:2674:G:H5"	10:AL:26:LYS:HD2	1.99	0.44
10:AL:39:ILE:CB	10:AL:59:LYS:HZ1	2.28	0.44
10:AL:77:ILE:O	15:AQ:75:ILE:CD1	2.66	0.44
6:AF:31:HIS:CE1	11:AM:14:LYS:HE3	2.51	0.44
11:AM:35:HIS:O	11:AM:36:LYS:CD	2.65	0.44
12:AN:115:MET:HA	12:AN:118:LEU:CD1	2.47	0.44
12:AN:68:ILE:CG2	12:AN:95:ALA:HB2	2.48	0.44
13:AO:98:LEU:CD2	13:AO:99:LYS:NZ	2.77	0.44
14:AP:57:LYS:HD3	14:AP:57:LYS:C	2.37	0.44
15:AQ:32:TYR:C	15:AQ:33:LYS:HG2	2.35	0.44
16:AR:17:ILE:HD13	16:AR:20:LEU:HD11	1.99	0.44
16:AR:83:LEU:HD12	16:AR:83:LEU:N	2.17	0.44
17:AS:12:TYR:HE1	17:AS:14:VAL:CB	2.30	0.44
17:AS:20:LEU:HD13	17:AS:95:LEU:CD1	2.47	0.44
17:AS:4:ILE:HD11	17:AS:43:GLU:OE1	2.17	0.44
18:AT:5:ALA:HB3	18:AT:105:VAL:HG13	1.98	0.44
18:AT:70:TYR:CD1	18:AT:71:VAL:O	2.71	0.44
18:AT:25:ARG:CA	18:AT:71:VAL:HG11	2.42	0.44
19:AU:3:THR:N	19:AU:5:TYR:CE2	2.85	0.44
20:AV:24:VAL:HG23	20:AV:38:ILE:HD12	2.00	0.44
20:AV:26:LYS:NZ	20:AV:36:ALA:HB3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AW:41:LEU:O	21:AW:44:PHE:CB	2.63	0.44
21:AW:9:TYR:HB2	21:AW:14:LYS:HG3	1.98	0.44
22:AX:56:ASP:OD2	22:AX:58:THR:OG1	2.24	0.44
22:AX:5:LYS:CG	22:AX:6:GLY:N	2.56	0.44
24:AZ:55:ARG:HG3	24:AZ:55:ARG:NH2	2.33	0.44
34:BA:1109:C:C6	34:BA:1110:A:C8	3.05	0.44
34:BA:1129:C:H4'	34:BA:1130:A:C8	2.52	0.44
34:BA:1192:C:N4	34:BA:1193:G:C6	2.85	0.44
34:BA:1268:A:C2'	34:BA:1269:A:O5'	2.65	0.44
34:BA:1392:G:C2'	34:BA:1393:U:O5'	2.65	0.44
34:BA:1412:C:C2	34:BA:1413:A:C8	3.05	0.44
34:BA:1424:C:H2'	34:BA:1425:U:C6	2.52	0.44
34:BA:1480:G:C2'	34:BA:1481:U:C5'	2.95	0.44
34:BA:148:G:O2'	34:BA:149:A:H5'	2.17	0.44
34:BA:1506:U:C5	34:BA:1506:U:OP1	2.70	0.44
34:BA:189:U:H2'	50:BU:63:ARG:HH22	1.82	0.44
34:BA:19:C:N3	34:BA:20:U:H5	2.14	0.44
34:BA:222:U:O2'	34:BA:223:U:H5'	2.18	0.44
34:BA:24:U:C4	34:BA:25:C:C5	3.05	0.44
34:BA:254:G:C1'	50:BU:15:MET:HG2	2.48	0.44
34:BA:278:G:C4	50:BU:95:TYR:CE2	3.04	0.44
34:BA:332:G:H2'	34:BA:333:G:C8	2.39	0.44
34:BA:50:A:N3	34:BA:360:A:N3	2.65	0.44
34:BA:392:G:N2	34:BA:393:A:H1'	2.32	0.44
34:BA:573:A:H2'	34:BA:574:A:N7	2.31	0.44
34:BA:644:G:H2'	34:BA:645:C:C5'	2.48	0.44
34:BA:679:C:O2'	34:BA:680:C:C5'	2.65	0.44
34:BA:696:A:C2	34:BA:697:U:C1'	3.00	0.44
34:BA:723:U:C6	34:BA:723:U:O5'	2.71	0.44
34:BA:739:C:H2'	34:BA:740:U:O5'	2.16	0.44
34:BA:841:U:C2'	34:BA:841:U:O2	2.63	0.44
34:BA:895:G:N2	34:BA:896:C:C2	2.85	0.44
56:BD:74:C:HO2'	56:BD:75:C:P	2.34	0.44
7:AG:83:ARG:O	56:BE:53:G:OP1	2.36	0.44
35:BF:14:GLY:HA3	35:BF:209:ARG:NH2	2.17	0.44
35:BF:153:ARG:O	35:BF:153:ARG:CZ	2.65	0.44
35:BF:160:ASP:HB3	35:BF:182:ILE:CG2	2.35	0.44
35:BF:97:TRP:HE3	35:BF:172:ILE:HB	1.80	0.44
35:BF:207:ALA:O	35:BF:210:SER:N	2.50	0.44
35:BF:70:PHE:HB3	35:BF:163:PHE:C	2.38	0.44
36:BG:176:HIS:HB3	36:BG:177:THR:H	1.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:23:TYR:CD1	43:BN:11:PHE:N	2.85	0.44
37:BH:101:LEU:O	37:BH:102:ASP:C	2.56	0.44
37:BH:24:GLU:C	37:BH:24:GLU:OE2	2.55	0.44
37:BH:15:GLU:OE2	37:BH:63:LYS:HE3	2.17	0.44
38:BI:5:ASP:HB3	38:BI:6:PHE:H	1.61	0.44
39:BJ:97:PHE:CE2	51:BV:62:GLU:OE2	2.69	0.44
40:BK:14:PRO:HG3	40:BK:21:VAL:HG13	1.99	0.44
43:BN:33:GLN:O	43:BN:34:VAL:HB	2.17	0.44
43:BN:63:PHE:HA	47:BR:59:ALA:CB	2.48	0.44
46:BQ:70:LEU:CD1	46:BQ:74:VAL:CG2	2.96	0.44
48:BS:33:THR:O	48:BS:34:LEU:C	2.56	0.44
48:BS:62:GLN:CA	48:BS:65:ARG:HH12	2.30	0.44
49:BT:16:HIS:C	49:BT:17:TYR:HD1	2.20	0.44
49:BT:4:ILE:HG12	49:BT:65:GLN:O	2.17	0.44
52:BW:10:PHE:O	52:BW:11:VAL:HG22	2.17	0.44
34:BA:1219:U:H2'	52:BW:34:TRP:HE1	0.99	0.44
57:BZ:169:ASN:C	57:BZ:171:ILE:HD13	2.36	0.44
57:BZ:15:ASP:CG	57:BZ:16:HIS:CD2	2.91	0.44
57:BZ:67:ASP:CB	57:BZ:191:VAL:CG1	2.47	0.44
57:BZ:234:ASN:CA	57:BZ:235:GLN:HB2	2.48	0.44
57:BZ:243:GLU:H	57:BZ:243:GLU:CD	2.20	0.44
57:BZ:310:PHE:C	57:BZ:356:PHE:O	2.54	0.44
57:BZ:488:LEU:CB	57:BZ:525:GLY:O	2.65	0.44
57:BZ:569:LEU:CD2	57:BZ:569:LEU:C	2.86	0.44
57:BZ:572:ILE:HG22	57:BZ:576:GLU:CB	2.46	0.44
57:BZ:497:VAL:CB	57:BZ:540:GLY:HA3	2.48	0.44
1:AA:2104:G:H2'	1:AA:2104:G:N3	2.32	0.44
1:AA:1020:A:H2	1:AA:1140:C:C2'	2.30	0.44
1:AA:1023:U:O2	1:AA:1024:G:H4'	2.17	0.44
1:AA:1077:A:N6	1:AA:1088:A:HO2'	2.10	0.44
1:AA:1088:A:H2'	1:AA:1089:G:OP1	2.18	0.44
1:AA:1102:C:O2'	1:AA:1103:A:H8	2.01	0.44
1:AA:1144:G:C5	1:AA:1145:C:N4	2.85	0.44
1:AA:1184:G:C5	1:AA:1185:C:C5	3.05	0.44
1:AA:1186:G:H8	1:AA:1187:G:N7	2.12	0.44
1:AA:1255:U:O2	1:AA:1255:U:H2'	2.17	0.44
1:AA:1298:C:OP2	1:AA:1639:U:OP2	2.35	0.44
1:AA:1316:U:H2'	1:AA:1317:A:C8	2.53	0.44
1:AA:1344:G:C6	1:AA:1385:G:N7	2.86	0.44
1:AA:140:A:N3	1:AA:1408:C:O2'	2.40	0.44
1:AA:1458:C:H4'	1:AA:1459:G:C4	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:C:H2'	1:AA:145:G:H5'	1.99	0.44
1:AA:1535:U:C4	1:AA:1536:A:C6	3.06	0.44
1:AA:162:U:O5'	1:AA:162:U:C6	2.70	0.44
1:AA:1641:A:N6	1:AA:1642:G:N3	2.65	0.44
1:AA:1652:A:OP1	13:AO:39:PRO:HG2	2.18	0.44
1:AA:1761:C:H6	1:AA:1761:C:H3'	1.82	0.44
1:AA:1814:G:OP2	4:AD:43:ARG:HD2	2.18	0.44
1:AA:182:A:O2'	1:AA:183:C:C5'	2.64	0.44
1:AA:1869:G:C4	1:AA:1878:G:O6	2.70	0.44
1:AA:1784:A:H2'	1:AA:1981:A:C8	2.53	0.44
1:AA:18:C:N3	1:AA:19:C:C5	2.85	0.44
1:AA:2023:G:C4	1:AA:2024:G:N7	2.85	0.44
1:AA:2051:A:C2	1:AA:2614:A:N6	2.85	0.44
1:AA:2073:C:C3'	1:AA:2074:U:H5'	2.46	0.44
1:AA:2135:A:O5'	1:AA:2136:C:C5	2.69	0.44
1:AA:2177:C:O2'	1:AA:2178:C:H5'	2.17	0.44
1:AA:2194:G:C3'	1:AA:2195:C:H5	2.30	0.44
1:AA:2266:A:C4	1:AA:2272:U:C5	3.06	0.44
1:AA:2309:A:C6	1:AA:2310:A:C4	3.06	0.44
1:AA:2392:A:N6	1:AA:2393:A:C6	2.85	0.44
1:AA:2414:G:N1	1:AA:2415:G:N7	2.65	0.44
1:AA:2464:C:H2'	1:AA:2465:C:H6	1.82	0.44
1:AA:2545:G:HO2'	1:AA:2565:A:N6	2.16	0.44
1:AA:2588:G:C6	1:AA:2607:G:O6	2.70	0.44
1:AA:266:G:C2	1:AA:267:C:H1'	2.53	0.44
1:AA:2695:C:O2'	1:AA:2696:U:H6	2.00	0.44
1:AA:1297:C:OP1	1:AA:2710:C:O3'	2.35	0.44
1:AA:2799:A:C1'	1:AA:2802:G:H1	2.30	0.44
1:AA:2:G:O6	1:AA:2902:C:C5	2.64	0.44
1:AA:310:A:C8	1:AA:312:G:C6	3.05	0.44
1:AA:325:G:H3'	1:AA:325:G:C8	2.52	0.44
1:AA:298:G:H1	1:AA:338:G:C2'	2.31	0.44
1:AA:427:U:O2'	1:AA:428:A:O4'	2.35	0.44
1:AA:465:G:H21	1:AA:683:C:C2'	2.27	0.44
1:AA:493:G:O2'	1:AA:494:G:H5'	2.17	0.44
1:AA:481:G:C2'	1:AA:507:A:N6	2.81	0.44
1:AA:515:A:H5'	16:AR:32:PHE:CZ	2.50	0.44
1:AA:542:C:C4	1:AA:552:G:N1	2.85	0.44
1:AA:590:A:C6	1:AA:591:C:C4	3.05	0.44
1:AA:600:G:H21	1:AA:604:G:H4'	1.77	0.44
1:AA:702:G:C2'	1:AA:703:U:C5'	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:705:A:C2'	1:AA:705:A:N3	2.71	0.44
1:AA:705:A:N7	1:AA:727:A:N7	2.64	0.44
1:AA:750:A:HO2'	1:AA:751:A:H5''	1.79	0.44
1:AA:783:A:C6	1:AA:785:G:O4'	2.71	0.44
1:AA:813:U:C5	11:AM:25:SER:HB3	2.53	0.44
1:AA:902:C:O3'	1:AA:903:C:C6	2.71	0.44
1:AA:971:C:O2	1:AA:972:G:H1'	2.17	0.44
1:AA:987:G:O2'	1:AA:1000:A:C1'	2.58	0.44
2:AB:106:G:C4	2:AB:107:U:C5	3.06	0.44
2:AB:80:U:H2'	2:AB:81:G:H8	1.78	0.44
2:AB:87:G:N1	2:AB:90:C:N4	2.66	0.44
3:AC:10:LEU:HD11	3:AC:32:LEU:HD22	1.99	0.44
3:AC:117:PRO:HD2	3:AC:147:PHE:CG	2.52	0.44
3:AC:13:LYS:CB	3:AC:32:LEU:HD23	2.48	0.44
3:AC:89:ALA:CB	3:AC:150:GLY:O	2.66	0.44
4:AD:246:PRO:HG2	4:AD:250:TRP:HD1	1.74	0.44
4:AD:263:ARG:O	4:AD:266:SER:CB	2.63	0.44
5:AE:176:ILE:CG2	5:AE:181:LEU:CB	2.95	0.44
5:AE:98:PRO:HA	5:AE:172:VAL:HG21	1.95	0.44
6:AF:38:ARG:O	6:AF:41:LEU:HG	2.18	0.44
6:AF:93:LYS:O	6:AF:94:PRO:C	2.54	0.44
6:AF:9:ILE:HA	6:AF:10:PRO:HD3	1.76	0.44
7:AG:41:GLN:HE22	7:AG:155:MET:CB	2.31	0.44
7:AG:47:LYS:HB3	7:AG:72:ARG:HB3	1.99	0.44
8:AH:135:GLY:HA3	8:AH:141:VAL:CG2	2.47	0.44
8:AH:15:VAL:CG2	8:AH:16:SER:N	2.81	0.44
8:AH:33:LEU:HD23	8:AH:34:GLU:C	2.38	0.44
8:AH:46:GLU:O	8:AH:47:GLU:HB2	2.17	0.44
8:AH:54:ARG:NH1	8:AH:57:ASP:CB	2.81	0.44
8:AH:89:ILE:CD1	8:AH:90:LYS:N	2.76	0.44
1:AA:1046:A:C4	31:AI:6:ASN:C	2.60	0.44
32:AJ:104:VAL:CA	32:AJ:127:ILE:CD1	2.91	0.44
32:AJ:90:LYS:CA	32:AJ:90:LYS:CE	2.92	0.44
9:AK:103:VAL:HG23	9:AK:104:LYS:N	2.32	0.44
9:AK:111:PRO:C	9:AK:114:ARG:HB3	2.34	0.44
9:AK:91:LEU:HA	9:AK:95:PRO:N	2.32	0.44
9:AK:96:GLU:O	9:AK:99:LEU:CG	2.50	0.44
10:AL:101:PRO:HG3	34:BA:346:G:C5'	2.48	0.44
11:AM:76:LYS:HB2	11:AM:101:VAL:HG21	1.99	0.44
11:AM:77:ARG:HA	11:AM:78:PRO:HD2	1.90	0.44
11:AM:91:PHE:HE2	11:AM:96:THR:HG22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:25:ASP:OD1	12:AN:101:ARG:NH1	2.50	0.44
12:AN:37:LEU:HB3	12:AN:38:GLU:OE2	2.18	0.44
12:AN:42:ILE:O	12:AN:47:ILE:HD11	2.18	0.44
14:AP:70:GLY:HA3	14:AP:104:GLY:HA3	1.99	0.44
14:AP:75:GLU:O	14:AP:78:LEU:CD1	2.65	0.44
14:AP:77:ALA:O	14:AP:79:ALA:N	2.50	0.44
15:AQ:48:ILE:CD1	15:AQ:50:ILE:HD13	2.26	0.44
15:AQ:64:ARG:NH1	15:AQ:78:LEU:N	2.65	0.44
16:AR:61:TRP:O	16:AR:65:ILE:CD1	2.66	0.44
17:AS:28:GLU:N	17:AS:29:PRO:HD2	2.33	0.44
18:AT:7:ALA:N	18:AT:103:ILE:CD1	2.80	0.44
18:AT:49:LYS:HE2	18:AT:49:LYS:HA	1.99	0.44
19:AU:63:LYS:N	19:AU:72:LYS:HG2	2.25	0.44
20:AV:2:ARG:C	20:AV:4:LYS:N	2.69	0.44
20:AV:44:ILE:O	20:AV:44:ILE:CG2	2.63	0.44
20:AV:57:GLN:O	20:AV:58:GLY:C	2.55	0.44
20:AV:76:CYS:N	20:AV:100:ALA:HB3	2.33	0.44
21:AW:14:LYS:N	21:AW:14:LYS:CD	2.80	0.44
21:AW:51:ALA:O	21:AW:53:ILE:N	2.51	0.44
21:AW:70:LEU:O	21:AW:88:PHE:CA	2.64	0.44
1:AA:2257:U:C5'	22:AX:11:ARG:HD3	2.47	0.44
23:AY:16:LEU:HD22	23:AY:58:VAL:CG2	2.47	0.44
34:BA:1004:A:C3'	34:BA:1025:U:C4	2.89	0.44
34:BA:60:A:N6	34:BA:107:G:HO2'	2.14	0.44
34:BA:1148:U:O2	34:BA:1149:C:C1'	2.66	0.44
34:BA:1203:C:H2'	34:BA:1204:A:C8	2.51	0.44
34:BA:132:C:C2	34:BA:231:G:C2	3.04	0.44
34:BA:1349:A:H2'	34:BA:1350:A:O4'	2.17	0.44
34:BA:141:A:O4'	34:BA:182:U:H1'	2.17	0.44
34:BA:1462:G:C6	34:BA:1463:C:C4	3.05	0.44
34:BA:152:A:C8	34:BA:153:C:C5	3.05	0.44
34:BA:185:A:O2'	34:BA:186:C:H5'	2.18	0.44
34:BA:210:U:H5'	34:BA:216:G:OP1	2.17	0.44
34:BA:251:G:C4'	34:BA:252:U:OP1	2.65	0.44
34:BA:278:G:N2	34:BA:279:A:H62	2.15	0.44
34:BA:285:G:C6	34:BA:286:G:N7	2.86	0.44
34:BA:318:G:O2'	34:BA:319:G:H5'	2.17	0.44
34:BA:416:G:C2'	34:BA:417:C:C6	2.89	0.44
34:BA:456:C:C2	34:BA:477:G:C2	3.05	0.44
34:BA:548:G:H2'	34:BA:549:C:O5'	2.18	0.44
34:BA:640:A:C5	34:BA:641:U:C6	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:754:C:O5'	48:BS:72:ARG:NH2	2.50	0.44
34:BA:84:U:C2'	34:BA:85:U:O4'	2.61	0.44
34:BA:965:A:N7	34:BA:969:A:N3	2.66	0.44
35:BF:115:LEU:HA	35:BF:145:LEU:HD23	1.99	0.44
35:BF:199:TYR:HD2	35:BF:199:TYR:HA	1.64	0.44
35:BF:50:GLU:HG3	35:BF:200:ILE:C	2.32	0.44
36:BG:70:VAL:HG12	36:BG:72:LYS:H	1.82	0.44
37:BH:155:LEU:O	37:BH:158:ILE:N	2.51	0.44
37:BH:30:LYS:HG2	37:BH:35:ARG:HG3	2.00	0.44
38:BI:82:VAL:HG13	38:BI:134:ALA:HB1	2.00	0.44
38:BI:91:LEU:CD1	38:BI:118:ILE:HG23	2.48	0.44
40:BK:74:GLU:CA	40:BK:145:ALA:HB1	2.46	0.44
40:BK:65:ALA:O	40:BK:69:VAL:CG2	2.63	0.44
41:BL:120:THR:OG1	41:BL:122:ARG:NH1	2.45	0.44
41:BL:137:VAL:CG1	41:BL:138:TRP:N	2.79	0.44
41:BL:48:TYR:CA	41:BL:61:VAL:HG22	2.47	0.44
42:BM:105:ASP:OD1	42:BM:107:ARG:NH2	2.50	0.44
42:BM:16:ARG:HG2	42:BM:18:PHE:HE1	1.72	0.44
44:BO:108:ILE:HB	51:BV:88:LYS:OXT	2.17	0.44
44:BO:78:GLN:O	44:BO:104:GLN:CB	2.59	0.44
47:BR:34:TYR:OH	47:BR:41:ARG:CA	2.65	0.44
48:BS:87:ILE:CG2	48:BS:88:ARG:N	2.81	0.44
52:BW:38:SER:OG	52:BW:39:THR:N	2.50	0.44
34:BA:108:G:C5	53:BX:15:ARG:CZ	3.01	0.44
53:BX:85:MET:HB2	53:BX:104:LEU:CD2	2.35	0.44
57:BZ:233:PRO:CB	57:BZ:234:ASN:HA	2.47	0.44
57:BZ:402:ASN:C	57:BZ:403:VAL:CG2	2.86	0.44
57:BZ:547:ARG:HB3	57:BZ:548:ALA:CA	2.46	0.44
57:BZ:381:ALA:HA	57:BZ:578:VAL:O	2.18	0.44
56:BD:15:G:O2'	56:BD:16:U:OP1	2.25	0.44
56:BD:71:G:C2'	56:BD:72:C:H5'	2.48	0.44
56:BD:27:G:N2	56:BD:43:C:H5	2.10	0.44
8:AH:20:ALA:HB3	8:AH:21:PRO:CD	2.46	0.44
23:AY:65:GLN:NE2	23:AY:65:GLN:CA	2.77	0.44
1:AA:1563:G:C6	1:AA:1564:C:C4	3.05	0.44
13:AO:60:LEU:HD23	13:AO:60:LEU:N	2.30	0.44
34:BA:1537:U:H2'	34:BA:1538:C:H6	1.80	0.44
57:BZ:189:ALA:O	57:BZ:193:HIS:CD2	2.70	0.44
21:AW:112:ARG:HH11	21:AW:112:ARG:HG3	1.83	0.44
1:AA:1031:G:H5'	1:AA:1032:A:OP2	2.18	0.44
1:AA:1048:A:C2	1:AA:1113:U:C4'	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:A:OP2	1:AA:1128:A:O4'	2.35	0.44
1:AA:1148:A:C6	1:AA:1149:G:C5	3.06	0.44
1:AA:1196:C:C2	1:AA:1197:G:C8	3.05	0.44
1:AA:1198:U:C2	1:AA:1199:U:C5	3.05	0.44
1:AA:1260:G:N2	1:AA:1261:C:C2	2.85	0.44
1:AA:1272:A:H3'	1:AA:1646:C:N4	2.33	0.44
1:AA:1284:A:C2	1:AA:1285:G:C2	3.05	0.44
1:AA:1284:A:O2'	1:AA:1285:G:H5'	2.17	0.44
1:AA:1294:U:C2'	1:AA:1295:C:H5'	2.48	0.44
1:AA:1299:G:OP1	1:AA:1300:U:H5'	2.18	0.44
1:AA:1435:G:C4	1:AA:1436:G:C8	3.06	0.44
1:AA:1464:C:C2	1:AA:1465:G:C8	3.05	0.44
1:AA:1477:A:C2	1:AA:1516:U:O2	2.70	0.44
1:AA:1667:G:O6	1:AA:1992:G:OP2	2.36	0.44
1:AA:1700:A:H2'	1:AA:1701:A:O4'	2.16	0.44
1:AA:1707:G:H2'	1:AA:1708:C:O4'	2.17	0.44
1:AA:1709:U:C4	1:AA:1710:C:N4	2.86	0.44
1:AA:172:C:C2'	1:AA:173:G:C8	2.91	0.44
1:AA:1759:A:H4'	1:AA:2715:C:O4'	2.18	0.44
1:AA:1778:U:H3'	1:AA:1779:U:C5	2.52	0.44
1:AA:1907:G:C2	1:AA:1908:C:C2	3.05	0.44
1:AA:2007:C:H2'	1:AA:2008:C:O5'	2.18	0.44
1:AA:2026:C:H2'	1:AA:2027:G:C5'	2.48	0.44
1:AA:2070:G:C2	1:AA:2071:A:C4	3.06	0.44
1:AA:2277:G:C5	1:AA:2278:A:C8	3.05	0.44
1:AA:2302:G:C2	1:AA:2303:G:N9	2.85	0.44
1:AA:2349:G:C3'	1:AA:2350:C:C5'	2.90	0.44
1:AA:411:G:C2	1:AA:2407:G:N7	2.86	0.44
1:AA:2427:C:H3'	1:AA:2427:C:H6	1.82	0.44
1:AA:2427:C:C2'	1:AA:2428:G:OP2	2.66	0.44
1:AA:830:G:O6	1:AA:2446:G:H1'	2.17	0.44
1:AA:2464:C:C2	1:AA:2465:C:C6	3.05	0.44
1:AA:2466:C:OP1	6:AF:5:ALA:CB	122.21	0.44
1:AA:2472:G:H1'	1:AA:2478:A:N6	2.32	0.44
1:AA:2484:G:H2'	1:AA:2485:G:C5'	2.46	0.44
1:AA:2487:G:C2'	1:AA:2488:A:O5'	2.65	0.44
1:AA:2543:G:H2'	1:AA:2544:G:C8	2.53	0.44
1:AA:2597:G:N9	4:AD:242:ARG:NH2	2.62	0.44
1:AA:747:U:O2	1:AA:2613:U:C4	2.71	0.44
1:AA:2649:U:C5	1:AA:2649:U:OP2	2.70	0.44
1:AA:271:G:H2'	1:AA:272:G:H8	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2734:A:C2	5:AE:203:LYS:HD2	2.52	0.44
1:AA:2805:G:C2'	1:AA:2807:G:H4'	2.48	0.44
1:AA:2807:G:N3	1:AA:2807:G:C2'	2.78	0.44
1:AA:280:C:O3'	1:AA:281:G:C3'	2.34	0.44
1:AA:2816:C:C2	1:AA:2831:G:C2	3.06	0.44
1:AA:295:G:C2'	1:AA:296:C:H5'	2.47	0.44
1:AA:348:G:C4	1:AA:349:G:N7	2.85	0.44
1:AA:456:C:N4	19:AU:68:ARG:HB3	2.32	0.44
1:AA:508:G:H4'	1:AA:509:C:O5'	2.18	0.44
1:AA:533:G:H5'	16:AR:24:TYR:CD2	2.51	0.44
1:AA:557:U:O5'	1:AA:557:U:H6	2.00	0.44
1:AA:586:A:H5'	6:AF:89:VAL:CB	2.47	0.44
1:AA:705:A:C2	1:AA:706:A:N9	2.85	0.44
1:AA:730:C:OP2	4:AD:211:ARG:NH2	2.50	0.44
1:AA:743:G:H2'	1:AA:744:G:C8	2.52	0.44
1:AA:774:A:H5''	1:AA:778:G:H4'	2.00	0.44
1:AA:833:U:H2'	1:AA:834:C:O5'	2.18	0.44
1:AA:893:C:C2'	1:AA:894:C:C6	2.86	0.44
2:AB:73:A:N7	2:AB:104:A:C4	2.86	0.44
2:AB:65:C:C4	2:AB:108:C:C4	3.06	0.44
2:AB:111:U:O2	2:AB:112:G:C8	2.71	0.44
2:AB:3:C:O2'	2:AB:4:C:H5'	2.16	0.44
2:AB:6:C:C4	2:AB:115:G:N2	2.86	0.44
3:AC:103:ILE:HG21	3:AC:108:MET:SD	2.58	0.44
3:AC:73:ARG:CG	3:AC:93:TYR:HE2	2.30	0.44
4:AD:132:PRO:HB2	4:AD:134:ARG:HD2	1.99	0.44
4:AD:136:ILE:HB	4:AD:168:ARG:CZ	2.42	0.44
4:AD:149:PRO:C	4:AD:151:LYS:H	2.21	0.44
4:AD:208:LYS:HE2	4:AD:211:ARG:HG2	1.98	0.44
4:AD:246:PRO:HB2	4:AD:250:TRP:CD1	2.52	0.44
1:AA:2227:A:C4'	4:AD:262:ARG:HD2	2.48	0.44
4:AD:182:LEU:H	4:AD:270:ILE:HG13	1.83	0.44
5:AE:13:ARG:CZ	5:AE:20:ALA:C	2.86	0.44
1:AA:2820:A:N7	5:AE:191:PRO:HB3	2.33	0.44
1:AA:2833:G:N2	5:AE:56:PRO:HB3	2.32	0.44
5:AE:95:ILE:HG22	5:AE:96:PHE:N	2.31	0.44
6:AF:65:TRP:O	6:AF:67:GLN:N	2.51	0.44
6:AF:95:ARG:HE	6:AF:96:ASP:H	1.65	0.44
7:AG:138:GLN:HG2	7:AG:139:LEU:N	2.33	0.44
7:AG:38:VAL:C	7:AG:39:ILE:HD12	2.38	0.44
7:AG:41:GLN:HE21	7:AG:41:GLN:HB2	1.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:140:LYS:O	8:AH:143:GLN:HB2	2.17	0.44
8:AH:7:LEU:HD12	8:AH:51:ARG:HD2	1.98	0.44
9:AK:19:GLU:HG3	9:AK:59:LYS:HB2	1.99	0.44
9:AK:75:TYR:N	9:AK:75:TYR:CD1	2.81	0.44
1:AA:2562:U:O2'	10:AL:23:ARG:NH2	2.51	0.44
10:AL:72:PRO:HG3	10:AL:107:ARG:HH22	1.81	0.44
11:AM:42:SER:HB3	11:AM:43:GLY:H	1.59	0.44
11:AM:46:LYS:HZ3	11:AM:50:ARG:CZ	2.29	0.44
12:AN:125:LEU:HD23	12:AN:125:LEU:H	1.83	0.44
13:AO:37:THR:O	13:AO:38:VAL:C	2.55	0.44
13:AO:88:ARG:NH1	13:AO:88:ARG:CB	2.63	0.44
13:AO:45:ARG:HA	13:AO:95:THR:HG21	1.99	0.44
1:AA:2296:U:C4	14:AP:5:THR:HG23	2.53	0.44
15:AQ:100:TYR:C	15:AQ:102:ILE:N	2.70	0.44
10:AL:122:LEU:HA	15:AQ:71:GLY:CA	2.47	0.44
16:AR:24:TYR:O	16:AR:29:SER:HB3	2.17	0.44
16:AR:61:TRP:C	16:AR:65:ILE:HD11	2.37	0.44
17:AS:32:THR:HA	17:AS:64:HIS:C	2.26	0.44
17:AS:48:GLY:O	17:AS:49:THR:HG23	2.17	0.44
17:AS:18:LEU:CB	17:AS:66:ARG:HH22	2.21	0.44
17:AS:9:GLY:O	17:AS:10:LYS:CB	2.57	0.44
19:AU:23:GLU:OE1	19:AU:24:GLY:N	2.50	0.44
1:AA:1312:U:O3'	19:AU:63:LYS:HD2	2.18	0.44
19:AU:18:TYR:CZ	19:AU:96:ILE:HG12	2.51	0.44
21:AW:102:LEU:O	21:AW:123:ASP:O	2.36	0.44
21:AW:37:VAL:C	21:AW:38:TYR:CD2	2.91	0.44
21:AW:43:GLU:HA	21:AW:46:LYS:NZ	2.31	0.44
21:AW:68:PRO:HG3	21:AW:131:ARG:NH2	2.27	0.44
21:AW:69:THR:HB	21:AW:90:VAL:HG13	2.00	0.44
22:AX:52:GLY:O	22:AX:60:PHE:CD2	2.71	0.44
2:AB:12:C:N4	22:AX:74:ARG:O	2.51	0.44
22:AX:75:LEU:HB2	22:AX:78:TYR:CE1	2.52	0.44
24:AZ:2:PRO:HD2	24:AZ:39:ASP:HB3	2.00	0.44
34:BA:1000:A:H2'	34:BA:1001:G:H5'	2.00	0.44
34:BA:1003:G:H21	34:BA:1005:A:H5'	1.82	0.44
34:BA:1084:G:N3	34:BA:1085:U:H5	2.14	0.44
34:BA:1115:C:O2	34:BA:1186:G:N3	2.50	0.44
34:BA:1164:G:C5	34:BA:1173:G:C2	3.05	0.44
34:BA:122:G:C2	34:BA:123:C:C1'	3.01	0.44
34:BA:1365:G:C2	34:BA:1366:C:C6	3.05	0.44
34:BA:179:A:H2'	34:BA:179:A:N3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:194:C:O3'	53:BX:65:LYS:NZ	2.50	0.44
34:BA:301:G:C2	34:BA:302:G:C4	3.05	0.44
34:BA:421:U:C2	36:BG:127:ARG:CZ	3.01	0.44
34:BA:483:C:OP2	34:BA:483:C:C6	2.71	0.44
34:BA:558:G:C5'	34:BA:559:A:C5'	2.96	0.44
34:BA:637:G:C6	34:BA:638:G:N7	2.85	0.44
34:BA:665:A:C8	34:BA:725:G:C2	3.06	0.44
34:BA:736:C:H5''	51:BV:72:ARG:CZ	2.44	0.44
34:BA:779:C:N4	34:BA:780:A:C2	2.85	0.44
34:BA:950:U:H1'	34:BA:971:G:C4	2.53	0.44
56:BE:20:U:H5'	56:BE:21:A:OP2	2.18	0.44
56:BE:2:C:C6	56:BE:71:G:O6	2.70	0.44
56:BE:18:G:N9	56:BE:58:A:N3	2.66	0.44
35:BF:119:GLU:CA	35:BF:142:LEU:CD1	2.95	0.44
35:BF:80:ILE:HG13	35:BF:239:VAL:HG21	1.99	0.44
35:BF:80:ILE:HG23	35:BF:212:GLN:NE2	2.32	0.44
36:BG:142:MET:HB3	36:BG:170:GLN:CD	2.38	0.44
34:BA:619:U:H1'	37:BH:133:VAL:HG22	1.99	0.44
37:BH:65:ARG:HG3	37:BH:72:GLU:CD	2.38	0.44
38:BI:33:VAL:C	38:BI:34:VAL:HG22	2.38	0.44
40:BK:126:ASP:CA	40:BK:131:LYS:HG3	2.47	0.44
40:BK:71:PRO:HG2	40:BK:96:GLN:HA	1.98	0.44
42:BM:93:ARG:C	42:BM:95:LYS:H	2.20	0.44
43:BN:40:LEU:HD12	43:BN:69:ASN:HB3	1.99	0.44
34:BA:692:U:C4	44:BO:26:ASN:ND2	2.84	0.44
44:BO:65:ALA:O	44:BO:68:ALA:HB3	2.18	0.44
46:BQ:8:GLU:HB3	46:BQ:22:ILE:CG1	2.41	0.44
46:BQ:16:ASP:OD1	46:BQ:41:PRO:HB3	2.17	0.44
46:BQ:63:THR:O	46:BQ:64:TRP:HB2	2.17	0.44
49:BT:42:ARG:C	49:BT:43:LYS:HD2	2.38	0.44
50:BU:65:ILE:HG23	50:BU:69:LYS:CD	2.41	0.44
50:BU:61:GLU:CA	50:BU:71:PHE:CE2	2.97	0.44
51:BV:51:LEU:HD13	51:BV:51:LEU:H	1.82	0.44
51:BV:64:ARG:HG3	51:BV:64:ARG:HH11	1.82	0.44
52:BW:30:LEU:HD23	52:BW:30:LEU:C	2.38	0.44
53:BX:25:ARG:O	53:BX:28:ALA:N	2.51	0.44
34:BA:186(A):C:C4'	53:BX:85:MET:HG3	2.47	0.44
53:BX:99:LEU:HD23	53:BX:99:LEU:H	1.80	0.44
57:BZ:13:HIS:HD2	57:BZ:106:MET:CB	2.10	0.44
57:BZ:546:MET:HG3	57:BZ:547:ARG:HA	1.99	0.44
57:BZ:77:GLY:CA	57:BZ:78:HIS:C	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AI:52:PHE:C	31:AI:54:ALA:N	2.71	0.44
55:BC:26:A:C2'	55:BC:27:G:H5'	2.47	0.44
38:BI:153:LYS:HG2	38:BI:154:GLY:N	2.25	0.44
1:AA:1414:G:N1	1:AA:1415:U:C4	2.86	0.44
55:BC:11:C:H6	55:BC:11:C:O5'	2.01	0.44
1:AA:1011:G:O2'	1:AA:1013:C:H4'	2.18	0.44
1:AA:1054:A:C6	1:AA:1107:G:N2	2.85	0.44
1:AA:996:A:N6	1:AA:1160:G:N1	2.65	0.44
1:AA:1171:G:C8	1:AA:1173:G:H4'	2.52	0.44
1:AA:1183:G:O2'	1:AA:1184:G:P	2.75	0.44
1:AA:1314:C:C4	1:AA:1315:C:N4	2.86	0.44
1:AA:1314:C:C2	1:AA:1315:C:C6	3.06	0.44
1:AA:1388:G:C4	1:AA:1389:G:C8	3.05	0.44
1:AA:1438:U:H3	1:AA:1553:A:H62	1.60	0.44
1:AA:701:G:H5'	1:AA:1632:A:H1'	2.00	0.44
1:AA:1635:G:H8	1:AA:1635:G:C5'	2.30	0.44
1:AA:1728:G:N2	1:AA:1730:U:O2	2.51	0.44
1:AA:1777:U:O2'	1:AA:1778:U:C5'	2.54	0.44
1:AA:179:G:C5	1:AA:180:G:C5	3.06	0.44
1:AA:1799:G:O2'	1:AA:1800:C:O4'	2.31	0.44
1:AA:2026:C:C2	1:AA:2027:G:C8	3.06	0.44
1:AA:2033:A:H2'	1:AA:2034:U:O5'	2.18	0.44
1:AA:2040:C:N4	1:AA:2041:U:O4	2.50	0.44
1:AA:2046:G:C6	1:AA:2623:G:C6	3.06	0.44
1:AA:2276:G:N2	1:AA:2277:G:C4	2.85	0.44
1:AA:2298:A:H2'	1:AA:2299:G:H8	1.81	0.44
1:AA:2376:A:C2	1:AA:2377:A:N3	2.85	0.44
1:AA:2393:A:H5''	11:AM:56:SER:C	2.37	0.44
1:AA:2447:G:HO2'	1:AA:2448:A:P	2.33	0.44
1:AA:2468:G:O2'	1:AA:2469:A:C5'	2.59	0.44
1:AA:2482:G:C4	1:AA:2483:C:C6	3.06	0.44
1:AA:2642:G:C2	1:AA:2773:C:C2	3.05	0.44
1:AA:2674:G:C6	1:AA:2675:A:N6	2.86	0.44
1:AA:271(C):U:O4	1:AA:421:U:N3	2.50	0.44
1:AA:2832:U:H2'	1:AA:2832:U:O2	2.18	0.44
1:AA:2896:C:H2'	1:AA:2897:U:O5'	2.17	0.44
1:AA:317:G:C2	1:AA:318:C:C6	3.05	0.44
1:AA:3:U:N3	1:AA:2901:C:N3	2.66	0.44
1:AA:411:G:C2	1:AA:2407:G:C6	3.05	0.44
1:AA:457:A:H4'	1:AA:459:U:O2	2.17	0.44
1:AA:515:A:H8	1:AA:515:A:H3'	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:609:A:N6	1:AA:609(A):G:O6	2.49	0.44
1:AA:682:G:H2'	1:AA:683:C:C6	2.53	0.44
1:AA:7:G:O6	1:AA:2896:C:C4	2.71	0.44
1:AA:824:A:C5	1:AA:825:C:N4	2.86	0.44
1:AA:877:U:C2	1:AA:899:A:N6	2.64	0.44
1:AA:897:C:C3'	1:AA:898:C:C5	3.00	0.44
1:AA:931:G:C8	1:AA:932:G:C1'	2.72	0.44
1:AA:968:G:C6	1:AA:969:U:C4	3.06	0.44
2:AB:21:G:C2	2:AB:63:G:C6	3.04	0.44
2:AB:27:C:N4	2:AB:56:G:C6	2.74	0.44
2:AB:43:C:C2	2:AB:45:A:C8	3.05	0.44
3:AC:200:LYS:HZ2	3:AC:204:ALA:HB3	1.82	0.44
3:AC:52:ARG:HD3	55:BC:62:C:C4'	2.48	0.44
3:AC:59:ARG:HD3	3:AC:164:ARG:HG2	2.00	0.44
4:AD:117:VAL:CG2	4:AD:126:GLN:NE2	2.68	0.44
4:AD:55:GLY:H	4:AD:218:ARG:HA	1.83	0.44
4:AD:63:ARG:N	4:AD:63:ARG:CZ	2.79	0.44
5:AE:13:ARG:HG3	5:AE:22:PRO:HG3	1.98	0.44
5:AE:179:GLU:HB2	5:AE:181:LEU:CG	2.48	0.44
5:AE:23:VAL:CG2	5:AE:184:VAL:HG23	2.38	0.44
5:AE:32:PRO:CD	5:AE:88:GLY:C	2.85	0.44
5:AE:51:PHE:HE1	5:AE:75:VAL:H	1.64	0.44
6:AF:40:GLN:O	6:AF:41:LEU:C	2.55	0.44
6:AF:96:ASP:OD1	6:AF:97:TYR:N	2.51	0.44
7:AG:135:LEU:CD2	7:AG:137:GLU:N	2.80	0.44
7:AG:55:LYS:HG3	7:AG:148:MET:CG	2.46	0.44
7:AG:78:SER:CB	7:AG:82:LEU:HB3	2.45	0.44
7:AG:96:ARG:NH1	7:AG:96:ARG:HB2	2.32	0.44
8:AH:97:ARG:O	8:AH:99:VAL:HG23	2.18	0.44
32:AJ:17:ALA:HB1	32:AJ:41:PHE:CA	2.47	0.44
32:AJ:24:GLY:C	32:AJ:26:ALA:H	2.21	0.44
1:AA:2674:G:C5'	10:AL:26:LYS:HD2	2.47	0.44
6:AF:31:HIS:CE1	11:AM:11:GLY:HA3	2.52	0.44
11:AM:122:PRO:CG	11:AM:138:LEU:HA	2.48	0.44
11:AM:36:LYS:HD3	11:AM:36:LYS:HA	1.52	0.44
13:AO:43:GLU:O	13:AO:46:GLY:N	2.51	0.44
13:AO:57:ARG:NE	13:AO:62:ALA:CB	2.68	0.44
15:AQ:23:ARG:HH21	15:AQ:90:GLN:N	2.16	0.44
17:AS:6:LYS:HG2	17:AS:12:TYR:CA	2.47	0.44
17:AS:73:SER:C	17:AS:74:LYS:HD3	2.38	0.44
1:AA:1161:C:O4'	17:AS:8:GLY:HA3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:79:GLY:HA3	18:AT:102:HIS:CE1	2.52	0.44
18:AT:3:ALA:CB	18:AT:107:LEU:HB3	2.41	0.44
1:AA:1615:C:O2	18:AT:87:PRO:HG3	2.17	0.44
19:AU:84:ALA:N	19:AU:85:PRO:HD2	2.32	0.44
20:AV:65:ALA:O	20:AV:66:PRO:O	2.35	0.44
23:AY:55:LEU:CD1	23:AY:55:LEU:H	2.31	0.44
34:BA:1203:C:O5'	34:BA:1203:C:H6	2.01	0.44
34:BA:1263:C:H2'	34:BA:1264:C:C5	2.50	0.44
34:BA:1300:G:H2'	34:BA:1301:U:OP2	2.18	0.44
34:BA:1317:C:N3	34:BA:1318:A:N9	2.63	0.44
34:BA:1345:U:N3	34:BA:1377:A:N6	2.66	0.44
34:BA:1347:G:N2	34:BA:1373:G:H2'	2.33	0.44
34:BA:1349:A:C2'	34:BA:1350:A:H8	2.27	0.44
34:BA:1401:G:O2'	34:BA:1402:C:H5'	2.17	0.44
34:BA:1430:C:O2'	34:BA:1431:C:H5'	2.18	0.44
34:BA:1438:G:O6	34:BA:1464:G:C6	2.71	0.44
34:BA:1440:C:N3	34:BA:1462:G:N2	2.65	0.44
34:BA:199:G:H2'	34:BA:200:G:C8	2.53	0.44
34:BA:20:U:O4'	34:BA:572:A:C6	2.70	0.44
34:BA:251:G:N3	34:BA:266:G:O6	2.51	0.44
34:BA:47:C:C5	34:BA:365:U:O2	2.70	0.44
34:BA:540:G:C5	34:BA:541:G:N7	2.85	0.44
34:BA:563:A:O2'	34:BA:566:G:H2'	2.17	0.44
34:BA:581:G:O6	34:BA:758:G:N7	2.51	0.44
34:BA:677:U:C2'	34:BA:678:U:C5	2.79	0.44
34:BA:789:U:H6	34:BA:789:U:C3'	2.26	0.44
34:BA:812:C:C4'	34:BA:813:U:C6	3.00	0.44
34:BA:818:G:H3'	34:BA:820:U:OP2	2.18	0.44
34:BA:22:G:O4'	34:BA:885:G:C1'	2.65	0.44
55:BC:19:G:H5'	55:BC:20:U:H5	1.83	0.44
56:BE:16:U:O3'	56:BE:17:C:C6	2.70	0.44
35:BF:132:LYS:NZ	35:BF:132:LYS:CB	2.81	0.44
35:BF:97:TRP:HZ2	35:BF:102:LEU:HD11	1.80	0.44
36:BG:130:VAL:O	36:BG:134:ILE:HD13	2.17	0.44
36:BG:164:ARG:HG2	36:BG:165:THR:N	2.32	0.44
36:BG:186:PHE:CD1	36:BG:187:ALA:N	2.85	0.44
36:BG:43:LEU:HD11	36:BG:55:VAL:CG1	2.48	0.44
37:BH:135:LEU:HB2	37:BH:138:TYR:HB2	1.99	0.44
37:BH:145:GLU:CB	37:BH:184:LYS:HG2	2.36	0.44
37:BH:30:LYS:HA	37:BH:34:GLU:HB3	1.98	0.44
37:BH:61:LYS:HA	37:BH:203:VAL:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:7:GLU:OE1	38:BI:37:ARG:NH2	2.50	0.44
39:BJ:21:LEU:O	39:BJ:24:GLU:HG3	2.17	0.44
39:BJ:30:LEU:CB	39:BJ:35:ALA:HB3	2.44	0.44
40:BK:113:GLU:OE1	40:BK:118:VAL:CG1	2.65	0.44
40:BK:129:GLU:HB3	40:BK:131:LYS:HG2	1.98	0.44
40:BK:42:ILE:HG21	40:BK:116:ALA:HB1	1.98	0.44
43:BN:30:SER:O	43:BN:78:ASN:HB3	2.18	0.44
44:BO:99:GLN:O	44:BO:102:GLY:HA2	2.18	0.44
44:BO:100:ALA:O	44:BO:102:GLY:N	2.50	0.44
45:BP:36:VAL:O	45:BP:59:ARG:O	2.36	0.44
45:BP:39:VAL:HG11	45:BP:41:ARG:HH22	1.83	0.44
45:BP:41:ARG:CB	45:BP:41:ARG:CZ	2.95	0.44
46:BQ:52:GLU:CA	46:BQ:55:ARG:NE	2.80	0.44
46:BQ:77:ASN:O	46:BQ:81:LEU:CD1	2.65	0.44
48:BS:33:THR:O	48:BS:37:ASN:ND2	2.47	0.44
49:BT:35:LYS:HD2	49:BT:35:LYS:C	2.38	0.44
34:BA:761:G:H4'	50:BU:103:GLY:H	1.81	0.44
34:BA:280:C:O2	50:BU:39:SER:HB3	2.18	0.44
50:BU:5:VAL:CB	50:BU:59:ILE:O	2.66	0.44
51:BV:17:SER:HB2	51:BV:54:ARG:HH12	1.82	0.44
39:BJ:89:MET:CB	51:BV:76:LEU:HD11	2.40	0.44
53:BX:17:ARG:HA	53:BX:20:LEU:HG	2.00	0.44
34:BA:1242:C:O3'	54:BY:10:ARG:NH1	2.50	0.44
57:BZ:18:LYS:C	57:BZ:19:THR:CG2	2.86	0.44
57:BZ:87:ARG:HH22	57:BZ:210:SER:HB2	1.81	0.44
57:BZ:27:GLN:N	57:BZ:29:SER:N	2.61	0.44
57:BZ:373:MET:HE2	57:BZ:380:LEU:HD23	1.97	0.44
57:BZ:1:MET:N	57:BZ:3:GLU:OE2	2.48	0.44
57:BZ:425:ASP:O	57:BZ:441:TYR:HA	2.18	0.44
57:BZ:18:LYS:CG	57:BZ:76:PRO:CG	2.60	0.44
55:BC:26:A:N6	55:BC:27:G:C6	2.85	0.44
55:BC:39:U:C2'	55:BC:40:C:C5'	2.95	0.44
37:BH:195:ALA:C	37:BH:196:LEU:HG	2.35	0.44
1:AA:2795:G:OP2	1:AA:2795:G:C8	2.70	0.44
6:AF:175:THR:OG1	6:AF:175:THR:O	2.33	0.44
1:AA:1011:G:O2'	1:AA:1013:C:OP1	2.32	0.44
1:AA:1081:U:C6	1:AA:1081:U:O5'	2.71	0.44
1:AA:1022:G:C6	1:AA:1139:G:C6	3.05	0.44
1:AA:1178:C:C2	1:AA:1179:C:C4	3.05	0.44
1:AA:118:A:O2'	1:AA:178:G:C5'	2.63	0.44
1:AA:1241:A:HO2'	1:AA:1242:A:P	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:565:C:O2'	1:AA:1253:A:C2	2.70	0.44
1:AA:138:G:H2'	1:AA:138:G:N3	2.33	0.44
1:AA:1444(A):A:H2'	1:AA:1460:A:O2'	2.17	0.44
1:AA:1518:C:C4	1:AA:1519:G:C8	3.05	0.44
1:AA:1518:C:N3	1:AA:1519:G:C1'	2.81	0.44
1:AA:1449:A:C4	1:AA:1529:A:C2	3.06	0.44
1:AA:1532:C:H3'	1:AA:1532:C:P	2.57	0.44
1:AA:1569:A:H4'	4:AD:39:LYS:HE2	2.00	0.44
1:AA:1596:A:C6	1:AA:1597:A:C5	3.05	0.44
1:AA:1759:A:O5'	1:AA:1759:A:H8	1.99	0.44
1:AA:176:G:C3'	1:AA:177:G:H8	2.30	0.44
1:AA:1799:G:C8	4:AD:183:ARG:NH2	2.80	0.44
1:AA:1827:C:C5'	1:AA:1971:A:H4'	2.48	0.44
1:AA:1267:U:C4	1:AA:2012:G:N2	2.86	0.44
1:AA:2076:U:C5'	1:AA:2077:A:OP2	2.65	0.44
1:AA:2199:A:C2	1:AA:2205:C:N1	2.86	0.44
1:AA:2092:U:P	1:AA:2199:A:H1'	2.57	0.44
1:AA:219:G:H2'	1:AA:220:G:H5'	1.99	0.44
1:AA:2210:G:C6	4:AD:70:TRP:CE2	3.05	0.44
1:AA:2232:U:H2'	1:AA:2233:U:H5'	1.99	0.44
1:AA:2307:G:O2'	1:AA:2311:A:N6	2.50	0.44
1:AA:2397:G:O2'	1:AA:2398:U:H5'	2.18	0.44
1:AA:2466:C:O2'	1:AA:2467:C:H5'	2.17	0.44
1:AA:2521:C:C2	1:AA:2522:U:H6	2.31	0.44
1:AA:2564:A:C2	1:AA:2647:U:C4'	2.98	0.44
1:AA:2603:G:OP2	22:AX:1:MET:CB	2.61	0.44
1:AA:261:G:C2'	1:AA:262:A:H5'	2.47	0.44
1:AA:2657:A:P	1:AA:2657:A:H3'	2.58	0.44
1:AA:266:G:C5	1:AA:267:C:C6	3.06	0.44
1:AA:2689:U:H5'	1:AA:2690:C:H5'	1.98	0.44
1:AA:270(M):U:O3'	1:AA:270(N):G:C4'	2.66	0.44
1:AA:2737:G:C6	1:AA:2738:A:N7	2.86	0.44
1:AA:278:A:H2'	1:AA:279:C:C6	2.52	0.44
1:AA:2803:C:N3	1:AA:2804:C:N3	2.65	0.44
1:AA:2839:G:H2'	1:AA:2840:C:O4'	2.17	0.44
1:AA:2880:C:N3	1:AA:2881:C:C5	2.86	0.44
1:AA:300:A:H3'	1:AA:300:A:C8	2.53	0.44
1:AA:332:A:O2'	1:AA:333:G:P	2.76	0.44
1:AA:344:G:C2	1:AA:345:A:C6	3.06	0.44
1:AA:366:C:H6	1:AA:366:C:O5'	2.00	0.44
1:AA:463:G:O3'	1:AA:464:U:C5	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:479:A:HO2'	1:AA:480:A:H3'	1.83	0.44
1:AA:13:A:N6	1:AA:525:U:C5	2.74	0.44
1:AA:566:U:C5	1:AA:567:A:C5	3.05	0.44
1:AA:610:C:H2'	1:AA:611:C:H6	1.80	0.44
1:AA:649:G:C2	1:AA:650:C:H1'	2.52	0.44
1:AA:687:C:H2'	1:AA:688:U:C6	2.52	0.44
1:AA:76:C:C5	1:AA:76:C:OP2	2.70	0.44
1:AA:751:A:H62	1:AA:789:A:H62	1.66	0.44
1:AA:859:G:C8	1:AA:859:G:C3'	2.93	0.44
1:AA:880:G:C4	1:AA:881:G:O2'	2.71	0.44
1:AA:943:U:C2'	1:AA:944:G:OP1	2.65	0.44
1:AA:969:U:C2'	1:AA:970:C:C5'	2.94	0.44
2:AB:24:G:H21	2:AB:27:C:H42	1.63	0.44
2:AB:9:G:C2'	2:AB:9:G:N3	2.78	0.44
3:AC:62:VAL:CB	3:AC:192:PHE:HA	2.42	0.44
3:AC:28:LEU:O	3:AC:32:LEU:CG	2.66	0.44
1:AA:2175:C:H5'	3:AC:7:TYR:CE1	2.52	0.44
1:AA:1791:A:P	4:AD:213:ARG:HD3	2.58	0.44
4:AD:219:PRO:HG2	4:AD:220:HIS:H	1.83	0.44
5:AE:128:SER:O	5:AE:129:HIS:C	2.56	0.44
5:AE:129:HIS:CD2	5:AE:129:HIS:N	2.78	0.44
5:AE:171:GLU:H	5:AE:185:LYS:HZ3	1.65	0.44
5:AE:182:LEU:HD23	5:AE:182:LEU:C	2.38	0.44
5:AE:55:ASN:O	5:AE:56:PRO:C	2.56	0.44
5:AE:66:HIS:ND1	5:AE:67:PHE:CA	2.81	0.44
7:AG:103:LEU:C	7:AG:103:LEU:HD12	2.38	0.44
7:AG:131:TYR:CD2	7:AG:158:ALA:CB	3.01	0.44
7:AG:27:ASN:O	7:AG:27:ASN:OD1	2.36	0.44
7:AG:33:ARG:HH22	7:AG:34:LEU:CA	2.31	0.44
7:AG:56:ALA:HA	7:AG:59:GLU:CD	2.33	0.44
7:AG:56:ALA:HA	7:AG:59:GLU:CG	2.48	0.44
8:AH:111:HIS:O	8:AH:113:VAL:N	2.50	0.44
8:AH:164:TYR:CD2	8:AH:167:GLU:HG2	2.53	0.44
32:AJ:19:PRO:HB2	32:AJ:23:VAL:O	2.18	0.44
9:AK:107:LEU:CB	9:AK:117:PHE:CZ	2.98	0.44
9:AK:91:LEU:HD23	9:AK:98:VAL:CG2	2.40	0.44
10:AL:115:VAL:CG1	34:BA:345:C:C2'	2.82	0.44
10:AL:25:LEU:HB2	10:AL:39:ILE:HA	2.00	0.44
10:AL:31:LYS:CB	10:AL:32:TYR:CE2	3.01	0.44
10:AL:36:GLY:N	10:AL:61:VAL:CG1	2.81	0.44
10:AL:3:GLN:C	10:AL:3:GLN:OE1	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:59:LYS:HA	10:AL:86:ILE:CG1	2.48	0.44
10:AL:9:GLU:HB2	10:AL:82:ASN:CB	2.27	0.44
11:AM:99:LEU:CD1	11:AM:101:VAL:HG22	2.44	0.44
11:AM:102:ARG:O	11:AM:108:LYS:HB2	2.17	0.44
11:AM:116:GLY:HA3	11:AM:121:LYS:C	2.37	0.44
1:AA:663:G:OP1	11:AM:18:ARG:O	2.35	0.44
12:AN:130:LYS:HZ1	12:AN:132:VAL:CG2	2.29	0.44
12:AN:75:THR:HG22	12:AN:77:LYS:CA	2.47	0.44
14:AP:10:ARG:O	14:AP:14:VAL:HG23	2.17	0.44
14:AP:41:ASP:OD2	14:AP:42:ASP:O	2.36	0.44
14:AP:58:LEU:O	14:AP:60:GLY:N	2.50	0.44
14:AP:13:ARG:NH2	14:AP:92:TYR:N	2.66	0.44
14:AP:9:ARG:HA	14:AP:9:ARG:HD3	1.52	0.44
15:AQ:27:THR:O	15:AQ:52:ILE:CB	2.63	0.44
16:AR:30:LYS:CD	16:AR:30:LYS:H	2.27	0.44
16:AR:59:ARG:HA	16:AR:62:ILE:HB	2.00	0.44
18:AT:12:ILE:HD13	18:AT:12:ILE:H	1.82	0.44
18:AT:25:ARG:HD3	18:AT:74:ALA:C	2.38	0.44
18:AT:65:LEU:O	18:AT:66:GLU:C	2.56	0.44
19:AU:6:ASP:OD1	19:AU:7:VAL:N	2.49	0.44
19:AU:70:LEU:HD23	19:AU:71:GLY:CA	2.48	0.44
20:AV:74:PRO:CB	20:AV:101:LYS:CA	2.96	0.44
20:AV:38:ILE:HG22	20:AV:38:ILE:O	2.17	0.44
20:AV:8:LYS:HE3	20:AV:28:LYS:HD2	2.00	0.44
21:AW:76:LEU:CD2	21:AW:83:PRO:HB3	2.47	0.44
1:AA:2278:A:C5	22:AX:14:ARG:HB3	2.51	0.44
22:AX:46:LYS:HE2	22:AX:77:ARG:H	1.82	0.44
22:AX:77:ARG:C	22:AX:78:TYR:CD1	2.91	0.44
23:AY:37:GLY:O	23:AY:38:GLN:HB2	2.17	0.44
1:AA:850:C:O2'	24:AZ:22:ALA:HB2	2.18	0.44
34:BA:1082:G:C6	34:BA:1083:U:C5	3.06	0.44
34:BA:1081:G:H2'	34:BA:1082:G:H8	1.83	0.44
34:BA:1129:C:C5'	34:BA:1130:A:OP1	2.51	0.44
34:BA:1194:U:H6	34:BA:1194:U:O5'	2.01	0.44
34:BA:1241:G:C4	34:BA:1242:C:C5	3.05	0.44
34:BA:1293:G:O2'	34:BA:1294:G:H5'	2.17	0.44
34:BA:1236:A:C4'	34:BA:1304:G:H4'	2.28	0.44
34:BA:1236:A:H5''	34:BA:1305:G:OP1	2.17	0.44
34:BA:1305:G:OP1	54:BY:2:GLY:CA	2.66	0.44
34:BA:1343:G:C2	34:BA:1344:C:C2	3.06	0.44
34:BA:1361:G:C8	34:BA:1362:C:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1368:G:O2'	34:BA:1369:C:H5'	2.17	0.44
34:BA:1390:U:N3	34:BA:1391:U:C4	2.86	0.44
34:BA:1394:A:C8	34:BA:1501:C:H1'	2.53	0.44
1:AA:1916:A:N1	34:BA:1409:C:C4'	2.72	0.44
34:BA:1431:C:O2	34:BA:1432:G:C1'	2.66	0.44
34:BA:1448:C:O2	34:BA:1459:C:O2	2.34	0.44
34:BA:1480:G:C6	34:BA:1481:U:C2	3.05	0.44
34:BA:1489:G:C2	34:BA:1490:C:O2	2.71	0.44
34:BA:15:G:N3	34:BA:15:G:H2'	2.31	0.44
34:BA:166:G:C2'	34:BA:167:G:O5'	2.66	0.44
34:BA:320:C:O2'	34:BA:321:A:O4'	2.28	0.44
34:BA:408:A:C6	34:BA:409:G:C6	3.06	0.44
34:BA:411:A:C6	34:BA:429:U:C4	3.06	0.44
34:BA:425:G:C2	34:BA:426:G:C8	3.05	0.44
34:BA:517:G:C8	34:BA:531:U:C6	3.06	0.44
34:BA:518:C:C6	34:BA:530:G:C4	3.05	0.44
34:BA:544:G:C6	34:BA:545:C:N4	2.86	0.44
34:BA:579:G:H2'	34:BA:580:U:H6	1.82	0.44
34:BA:760:G:C5'	34:BA:761:G:OP2	2.66	0.44
34:BA:915:A:H2'	34:BA:916:G:C4'	2.48	0.44
56:BE:8:U:C2	56:BE:15:G:O6	2.71	0.44
56:BE:8:U:O2	56:BE:48:C:O2	2.36	0.44
36:BG:98:ASN:C	36:BG:99:VAL:CG1	2.86	0.44
37:BH:114:ARG:CG	37:BH:114:ARG:NH1	2.76	0.44
34:BA:407:G:O2'	37:BH:116:GLN:HG2	2.17	0.44
37:BH:129:ASN:HD21	37:BH:145:GLU:HG2	1.82	0.44
38:BI:10:MET:O	38:BI:10:MET:SD	2.75	0.44
39:BJ:8:ILE:HG23	39:BJ:89:MET:H	1.82	0.44
40:BK:121:ALA:HB1	40:BK:125:MET:CE	2.48	0.44
40:BK:150:ALA:HA	44:BO:59:TYR:CB	2.48	0.44
40:BK:69:VAL:HG13	40:BK:135:VAL:CA	2.47	0.44
40:BK:76:ARG:HH12	40:BK:89:MET:HG3	1.82	0.44
41:BL:111:ILE:HD12	41:BL:136:GLU:HA	2.00	0.44
42:BM:10:ARG:O	42:BM:11:LYS:C	2.56	0.44
42:BM:23:ASN:HA	42:BM:57:GLY:O	2.18	0.44
36:BG:5:ILE:HG22	43:BN:51:ARG:HH22	1.83	0.44
43:BN:76:ASN:C	43:BN:78:ASN:N	2.69	0.44
44:BO:90:GLY:C	44:BO:92:GLU:N	2.67	0.44
45:BP:102:ARG:HH11	45:BP:110:VAL:CG1	2.31	0.44
45:BP:11:VAL:O	45:BP:11:VAL:HG12	2.18	0.44
34:BA:529:G:N1	45:BP:49:ASN:CG	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:32:PHE:C	45:BP:84:LEU:HD11	2.38	0.44
46:BQ:10:PRO:HB3	46:BQ:18:ALA:HB1	1.92	0.44
46:BQ:65:LYS:O	46:BQ:65:LYS:HG2	2.17	0.44
46:BQ:8:GLU:CG	46:BQ:21:TYR:C	2.86	0.44
47:BR:26:ARG:HB2	47:BR:39:LEU:HD22	1.99	0.44
48:BS:5:LYS:NZ	48:BS:5:LYS:CB	2.79	0.44
49:BT:59:TRP:O	49:BT:61:SER:N	2.51	0.44
50:BU:5:VAL:CA	50:BU:59:ILE:O	2.66	0.44
34:BA:189:U:H3	50:BU:63:ARG:CB	2.30	0.44
51:BV:58:LEU:HB3	51:BV:62:GLU:HB2	1.90	0.44
52:BW:24:ALA:C	52:BW:26:GLY:N	2.70	0.44
53:BX:33:ILE:CD1	53:BX:63:ILE:HA	2.24	0.44
57:BZ:11:ILE:HG22	57:BZ:12:ALA:H	1.82	0.44
57:BZ:12:ALA:C	57:BZ:109:THR:CG2	2.68	0.44
57:BZ:146:ASP:C	57:BZ:149:VAL:HG12	2.37	0.44
57:BZ:224:GLY:O	57:BZ:271:GLY:O	2.36	0.44
57:BZ:381:ALA:HB1	57:BZ:577:LEU:C	2.38	0.44
57:BZ:390:ARG:CG	57:BZ:391:GLU:CB	2.95	0.44
57:BZ:66:TRP:O	57:BZ:191:VAL:HG11	2.18	0.44
57:BZ:11:ILE:CD1	57:BZ:95:VAL:HG12	2.27	0.44
23:AY:6:GLU:CA	23:AY:6:GLU:OE1	2.65	0.44
55:BC:4:C:O2	55:BC:5:G:C8	2.70	0.44
46:BQ:71:ARG:O	46:BQ:75:ALA:CB	2.65	0.44
2:AB:93:C:H2'	2:AB:94:C:C6	2.47	0.44
34:BA:74:C:N3	34:BA:75:C:C5	2.86	0.44
40:BK:90:GLU:O	40:BK:92:SER:N	2.50	0.44
1:AA:1013:C:C2	1:AA:1014:U:C5	3.06	0.44
1:AA:1058:G:C2'	1:AA:1059:G:C5'	2.94	0.44
1:AA:108:U:H4'	1:AA:348:G:H21	1.82	0.44
1:AA:1111:A:O2'	1:AA:1112:G:H1'	2.17	0.44
1:AA:1171:G:O4'	1:AA:1171:G:P	2.76	0.44
1:AA:118:A:H1'	1:AA:178:G:H4'	2.00	0.44
1:AA:1223:C:C5	1:AA:1227:A:N6	2.83	0.44
1:AA:1264:G:N7	1:AA:1265:A:C5	2.85	0.44
1:AA:1323:U:O4	1:AA:1324:G:O6	2.36	0.44
1:AA:1323:U:OP2	18:AT:84:ARG:NH1	2.51	0.44
1:AA:1324:G:C2	1:AA:1331:A:C2	3.06	0.44
1:AA:1332:G:C4	1:AA:1609:A:C6	3.05	0.44
1:AA:1341:U:H3	1:AA:1398:C:C5'	2.16	0.44
1:AA:1355:G:N2	1:AA:1377:G:C1'	2.75	0.44
1:AA:1360:A:H2'	1:AA:1361:G:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:147:U:H2'	1:AA:148:C:C5	2.51	0.44
1:AA:1471:A:N7	1:AA:1521:G:C2	2.86	0.44
1:AA:1529:A:H2'	1:AA:1530:G:O4'	2.17	0.44
1:AA:1608:A:C8	1:AA:1611:C:N4	2.86	0.44
1:AA:1620:G:C6	1:AA:1621:U:C4	3.06	0.44
1:AA:1621:U:C3'	1:AA:1621:U:C6	3.00	0.44
1:AA:1630:G:C8	1:AA:1630(A):C:H5	2.35	0.44
1:AA:1660:C:O2'	1:AA:1661:G:C5'	2.65	0.44
1:AA:1662:C:N3	1:AA:1663:C:C4	2.85	0.44
1:AA:1691:C:H2'	1:AA:1692:U:C5'	2.48	0.44
1:AA:1741:C:C2'	1:AA:1742:C:O4'	2.66	0.44
1:AA:1753:G:C6	1:AA:1756:G:C6	3.06	0.44
1:AA:1940:U:H5'	1:AA:1941:C:OP1	2.17	0.44
1:AA:1953:A:N7	1:AA:2550:G:H1'	2.33	0.44
1:AA:1954:G:O2'	1:AA:1955:U:C5'	2.56	0.44
1:AA:2020:A:OP2	16:AR:27:LEU:CD2	2.65	0.44
1:AA:2114:A:C6	1:AA:2170:A:N6	2.86	0.44
1:AA:2180:U:H2'	1:AA:2181:G:O4'	2.18	0.44
1:AA:2239:G:H3'	1:AA:2240:C:C5'	2.17	0.44
1:AA:2245:U:H1'	1:AA:2435:A:H3'	2.00	0.44
1:AA:22:C:H2'	1:AA:23:G:O5'	2.17	0.44
1:AA:2348:U:C2'	1:AA:2349:G:O5'	2.65	0.44
1:AA:220:G:C4'	1:AA:234:C:H4'	2.21	0.44
1:AA:2444:G:C2	1:AA:2445:G:C5	3.05	0.44
1:AA:2447:G:O2'	1:AA:2448:A:P	2.74	0.44
1:AA:1954:G:N3	1:AA:2551:C:C5'	2.79	0.44
1:AA:2626:C:H3'	1:AA:2626:C:C6	2.52	0.44
1:AA:2648:C:C4	1:AA:2649:U:O4	2.71	0.44
1:AA:2657:A:OP2	1:AA:2658:C:C5	2.71	0.44
1:AA:270(X):G:C2	1:AA:270(Y):G:H4'	2.53	0.44
1:AA:2717:G:N3	1:AA:2718:G:C8	2.86	0.44
1:AA:2716:U:H2'	1:AA:2717:G:O5'	2.15	0.44
1:AA:2718:G:C2	1:AA:2719:G:C4	3.06	0.44
1:AA:2729:G:C6	1:AA:2730:C:C5	3.06	0.44
1:AA:2748:A:C5	1:AA:2757:A:N6	2.86	0.44
1:AA:2748:A:C4	1:AA:2757:A:N6	2.86	0.44
1:AA:2799:A:C1'	1:AA:2802:G:C6	3.01	0.44
1:AA:2801:A:OP1	1:AA:2802:G:C8	2.71	0.44
1:AA:2851:A:N1	1:AA:2852:G:C2	2.85	0.44
1:AA:2863:C:C2'	1:AA:2864:G:H5'	2.47	0.44
1:AA:2583:G:N1	59:AA:3002:8AN:H2'	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:351:G:C2'	1:AA:352:G:OP2	2.66	0.44
1:AA:35:G:N9	1:AA:454:A:N3	2.65	0.44
1:AA:270(C):C:OP1	1:AA:365:C:O2	2.35	0.44
1:AA:419:C:C4	1:AA:420:C:C4	3.06	0.44
1:AA:470:A:H2'	1:AA:471:A:O5'	2.17	0.44
1:AA:479:A:C2'	1:AA:480:A:OP2	2.66	0.44
1:AA:596:G:N1	1:AA:597:U:C2	2.86	0.44
1:AA:633:A:H3'	1:AA:634:C:O4'	2.18	0.44
1:AA:662:G:OP1	11:AM:19:VAL:HG11	2.17	0.44
1:AA:709:U:H6	1:AA:709:U:O5'	2.01	0.44
1:AA:731:C:H2'	1:AA:732:C:H5'	2.00	0.44
1:AA:775:G:N2	1:AA:787:U:O3'	2.51	0.44
1:AA:822:U:O2'	1:AA:823:G:OP1	2.21	0.44
1:AA:872:A:N3	1:AA:872:A:H2'	2.32	0.44
1:AA:914:C:H5	1:AA:915:C:H5	1.64	0.44
1:AA:931:G:N3	24:AZ:24:LYS:CE	2.80	0.44
1:AA:943:U:OP2	11:AM:32:THR:HB	2.18	0.44
1:AA:960:A:O5'	1:AA:960:A:C8	2.70	0.44
2:AB:83:G:HO2'	2:AB:84:C:H5'	1.77	0.44
3:AC:47:LEU:HD23	3:AC:169:GLY:O	2.18	0.44
3:AC:87:GLU:HA	3:AC:91:ALA:HB3	1.99	0.44
4:AD:165:ILE:N	4:AD:165:ILE:CD1	2.81	0.44
4:AD:142:VAL:CB	4:AD:192:THR:O	2.66	0.44
4:AD:208:LYS:HZ3	4:AD:211:ARG:NH2	2.14	0.44
4:AD:264:LYS:HB2	4:AD:265:PRO:CD	2.47	0.44
4:AD:85:ASP:C	4:AD:87:ASN:HD22	2.20	0.44
5:AE:115:GLY:O	5:AE:118:LYS:N	2.50	0.44
5:AE:149:ARG:HH11	5:AE:151:TYR:C	2.21	0.44
6:AF:119:ARG:C	6:AF:119:ARG:HH21	2.21	0.44
6:AF:80:ALA:O	6:AF:81:PRO:C	2.55	0.44
7:AG:104:GLU:O	7:AG:105:LYS:C	2.56	0.44
8:AH:125:VAL:HG12	8:AH:125:VAL:O	2.18	0.44
8:AH:25:LYS:CE	8:AH:27:LYS:HZ2	2.29	0.44
8:AH:8:PRO:N	8:AH:51:ARG:NH2	2.64	0.44
1:AA:1080:C:O4'	32:AJ:128:ALA:CA	2.66	0.44
9:AK:74:ARG:HH11	9:AK:76:SER:HB2	1.83	0.44
10:AL:105:GLU:O	10:AL:106:LEU:C	2.56	0.44
10:AL:3:GLN:CD	10:AL:3:GLN:C	2.76	0.44
10:AL:52:VAL:O	10:AL:53:LYS:CG	2.65	0.44
10:AL:77:ILE:HG12	15:AQ:75:ILE:HD12	1.99	0.44
10:AL:63:VAL:HB	10:AL:78:ARG:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:63:VAL:CG2	10:AL:82:ASN:N	2.79	0.44
11:AM:76:LYS:HE2	11:AM:81:GLN:CD	2.37	0.44
11:AM:78:PRO:O	11:AM:81:GLN:HB2	2.17	0.44
1:AA:872:A:O2'	12:AN:66:ILE:CD1	2.66	0.44
12:AN:16:ARG:HG3	12:AN:72:LYS:CG	2.48	0.44
13:AO:10:LEU:HD22	13:AO:43:GLU:HG2	1.99	0.44
13:AO:49:ASP:OD2	13:AO:50:HIS:N	2.51	0.44
13:AO:67:LEU:C	13:AO:69:ASP:N	2.71	0.44
14:AP:57:LYS:NZ	14:AP:62:LYS:CG	2.79	0.44
14:AP:13:ARG:NH1	14:AP:89:ARG:O	2.51	0.44
15:AQ:103:ARG:C	15:AQ:107:ASP:OD2	2.56	0.44
15:AQ:26:ASP:O	15:AQ:52:ILE:HG22	2.17	0.44
15:AQ:85:LYS:CB	15:AQ:85:LYS:NZ	2.81	0.44
15:AQ:28:VAL:CG2	15:AQ:94:ALA:N	2.80	0.44
16:AR:74:LEU:HD23	16:AR:75:ASN:H	1.83	0.44
17:AS:33:VAL:CG1	17:AS:34:GLU:H	2.31	0.44
17:AS:5:VAL:CG2	17:AS:39:LEU:HA	2.42	0.44
1:AA:566:U:C4'	17:AS:82:ARG:HH22	2.31	0.44
18:AT:24:ILE:O	18:AT:32:ALA:HB2	2.17	0.44
18:AT:70:TYR:CE1	18:AT:72:LYS:HB2	2.51	0.44
19:AU:5:TYR:HB3	23:AY:24:LYS:CD	2.40	0.44
19:AU:50:LYS:NZ	19:AU:87:GLN:H	2.15	0.44
20:AV:10:GLY:N	20:AV:110:GLU:OE1	2.47	0.44
34:BA:1059:C:C4	34:BA:1060:C:C5	3.06	0.44
34:BA:110:C:H2'	34:BA:111:G:C8	2.53	0.44
34:BA:1321:C:H3'	34:BA:1321:C:H6	1.81	0.44
34:BA:1336:C:C2'	34:BA:1337:G:OP2	2.65	0.44
34:BA:1343:G:O2'	42:BM:121:ARG:HA	2.18	0.44
34:BA:1350:A:C6	34:BA:1351:U:C4	3.06	0.44
34:BA:1389:C:H2'	34:BA:1390:U:C4'	2.47	0.44
34:BA:1424:C:H2'	34:BA:1425:U:O5'	2.18	0.44
34:BA:183:G:H2'	34:BA:184:G:O4'	2.17	0.44
34:BA:185:A:C4	34:BA:186:C:C5	3.06	0.44
34:BA:270:A:C5	34:BA:271:C:C5	3.06	0.44
34:BA:298:A:C2	34:BA:299:G:H1'	2.53	0.44
34:BA:292:G:C2	34:BA:309:G:N3	2.86	0.44
34:BA:414:A:C6	34:BA:431:A:C2	3.06	0.44
34:BA:414:A:C4	34:BA:415:A:C8	3.06	0.44
34:BA:46:G:N3	34:BA:396:G:N1	2.66	0.44
34:BA:50:A:C6	34:BA:361:G:O4'	2.71	0.44
34:BA:579:G:N3	34:BA:580:U:C6	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:675:A:C2'	34:BA:676:A:H8	2.31	0.44
34:BA:701:C:H1'	34:BA:703:G:C6	2.52	0.44
34:BA:664:G:N3	34:BA:726:C:H4'	2.32	0.44
34:BA:738:C:C4	34:BA:739:C:C5	3.06	0.44
34:BA:750:G:C2'	48:BS:23:GLY:O	2.66	0.44
34:BA:917:G:H2'	34:BA:918:A:H8	1.81	0.44
35:BF:122:PHE:HB3	35:BF:123:ALA:H	1.56	0.44
35:BF:149:LEU:HD23	35:BF:149:LEU:C	2.38	0.44
35:BF:31:TYR:CZ	35:BF:200:ILE:HG21	2.51	0.44
35:BF:218:ALA:O	35:BF:221:LEU:N	2.51	0.44
35:BF:33:TYR:CD2	35:BF:43:ASP:HB2	2.53	0.44
35:BF:69:LEU:HB3	35:BF:162:ILE:CG2	2.37	0.44
37:BH:119:GLN:CG	37:BH:123:HIS:CE1	3.00	0.44
37:BH:207:TYR:O	37:BH:208:SER:C	2.57	0.44
37:BH:76:ARG:O	37:BH:80:GLU:HG3	2.18	0.44
37:BH:92:VAL:O	37:BH:96:LEU:HG	2.17	0.44
38:BI:141:GLN:O	38:BI:142:LEU:CB	2.66	0.44
38:BI:36:ASP:OD2	38:BI:40:ARG:HB3	2.18	0.44
38:BI:71:LEU:O	38:BI:72:GLN:HG2	2.18	0.44
39:BJ:19:LEU:HD11	39:BJ:23:LYS:HZ2	1.83	0.44
39:BJ:24:GLU:OE2	39:BJ:28:ARG:NH2	2.43	0.44
39:BJ:91:VAL:HG12	39:BJ:92:LYS:O	2.18	0.44
40:BK:29:LYS:HD2	40:BK:102:ARG:HA	1.98	0.44
40:BK:6:ARG:O	40:BK:7:ALA:HB3	2.17	0.44
40:BK:79:ARG:CG	40:BK:84:ASN:HB3	2.48	0.44
34:BA:1342:C:O2'	42:BM:124:GLN:CA	2.66	0.44
43:BN:43:ARG:HG3	43:BN:44:VAL:N	2.33	0.44
44:BO:23:ALA:CB	44:BO:28:THR:CG2	2.95	0.44
44:BO:32:ILE:O	44:BO:40:ILE:HD13	2.17	0.44
44:BO:42:TRP:CZ3	44:BO:47:VAL:HG22	2.53	0.44
44:BO:65:ALA:CB	44:BO:98:LEU:CD2	2.94	0.44
34:BA:539:A:P	45:BP:114:LYS:NZ	2.91	0.44
45:BP:36:VAL:HA	45:BP:82:VAL:HA	1.99	0.44
45:BP:64:TYR:O	45:BP:65:GLU:HG3	2.17	0.44
34:BA:1309:G:H4'	46:BQ:74:VAL:HG13	1.98	0.44
47:BR:34:TYR:HB2	47:BR:35:ARG:H	1.51	0.44
48:BS:63:ARG:HG3	48:BS:64:ARG:H	1.83	0.44
34:BA:230:G:OP1	49:BT:33:ILE:HG12	2.17	0.44
49:BT:52:ASP:OD1	49:BT:55:ARG:HG2	2.18	0.44
50:BU:48:GLU:OE1	50:BU:48:GLU:N	2.51	0.44
34:BA:130:A:C6	50:BU:64:PRO:HG2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:83:ASP:O	50:BU:86:GLU:HB2	2.18	0.44
52:BW:30:LEU:HA	52:BW:48:THR:C	2.38	0.44
52:BW:3:ARG:NE	52:BW:45:VAL:HG11	2.20	0.44
52:BW:47:HIS:H	52:BW:62:ILE:HG23	1.82	0.44
57:BZ:153:ALA:H	57:BZ:154:THR:CA	2.11	0.44
57:BZ:568:ALA:O	57:BZ:571:PHE:HB3	2.18	0.44
57:BZ:568:ALA:CB	57:BZ:587:ILE:HD11	2.44	0.44
57:BZ:6:ARG:HE	57:BZ:194:VAL:C	2.21	0.44
1:AA:487:C:N4	1:AA:488:G:C5	2.86	0.44
1:AA:1000:A:C6	1:AA:1001:A:C2	3.05	0.44
1:AA:1176:G:H3'	1:AA:1177:A:O4'	2.18	0.44
1:AA:117:G:C2	1:AA:119:A:N6	2.85	0.44
1:AA:1207:C:N3	1:AA:1208:C:C4	2.86	0.44
1:AA:1366:A:N3	1:AA:1366:A:H2'	2.33	0.44
1:AA:1378:A:C2	1:AA:1380:G:C1'	3.00	0.44
1:AA:1434:A:H61	1:AA:1558:A:N6	2.13	0.44
1:AA:1453:A:N6	13:AO:63:ARG:NH2	2.53	0.44
1:AA:1477:A:H2	1:AA:1516:U:C2	2.35	0.44
1:AA:1529:A:H8	1:AA:1530:G:C4	2.36	0.44
1:AA:1534:G:O2'	1:AA:1535:U:C5	2.69	0.44
1:AA:154:G:C6	1:AA:155:C:N4	2.86	0.44
1:AA:1596:A:N6	1:AA:1597:A:N1	2.65	0.44
1:AA:1348:G:C6	1:AA:1599:C:N3	2.86	0.44
1:AA:1605:C:C6	1:AA:1606:G:C8	3.06	0.44
1:AA:1615:C:C4	1:AA:1617:C:H1'	2.53	0.44
1:AA:1625:C:C3'	1:AA:1626:G:H4'	2.47	0.44
1:AA:1678:G:O2'	1:AA:1679:U:H5'	2.18	0.44
1:AA:1890:A:C8	1:AA:1891:G:C8	3.06	0.44
1:AA:1916:A:C2	1:AA:1917:U:O4	2.70	0.44
1:AA:1977:A:H2	1:AA:1978:A:H1'	1.82	0.44
1:AA:2000:G:C6	1:AA:2001:A:N6	2.84	0.44
1:AA:2051:A:H1'	5:AE:141:ILE:CD1	2.48	0.44
1:AA:2133:G:O6	1:AA:2157:G:N9	2.51	0.44
1:AA:2119:A:C6	1:AA:2170:A:C6	3.06	0.44
1:AA:2177:C:N3	1:AA:2178:C:C5	2.86	0.44
1:AA:2225:A:C4'	1:AA:2226:C:H6	2.29	0.44
1:AA:2267:A:N1	1:AA:2272:U:O4	2.51	0.44
1:AA:2273:A:H2'	1:AA:2274:A:H5'	2.00	0.44
1:AA:2314:C:C2	1:AA:2315:G:C8	3.06	0.44
1:AA:2356:C:H2'	1:AA:2357:U:O5'	2.18	0.44
1:AA:2408:U:C2	1:AA:2409:G:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2423:U:O2'	1:AA:2425:A:C3'	2.61	0.44
1:AA:246:C:H2'	1:AA:247:G:C8	2.52	0.44
1:AA:2550:G:N2	1:AA:2559:C:N1	2.65	0.44
1:AA:2634:G:O2'	1:AA:2635:C:O5'	2.35	0.44
1:AA:2651:C:O2	1:AA:2670:A:C5	2.71	0.44
1:AA:2681:C:C2'	1:AA:2682:U:H5'	2.45	0.44
1:AA:2710:C:C2'	1:AA:2711:A:C5'	2.92	0.44
1:AA:2809:A:C8	1:AA:2809:A:OP1	2.70	0.44
1:AA:2848:G:N1	1:AA:2867:G:N3	2.66	0.44
1:AA:2849:U:H3	1:AA:2867:G:H1'	1.82	0.44
1:AA:1750:G:O2'	1:AA:2860:A:C2	2.67	0.44
1:AA:28:A:H2'	1:AA:28:A:N3	2.33	0.44
1:AA:422:A:C2'	1:AA:423:A:O5'	2.65	0.44
1:AA:495:G:C2'	1:AA:496:G:O5'	2.65	0.44
1:AA:499:U:C2'	1:AA:500:G:H5'	2.48	0.44
1:AA:49:A:N7	1:AA:177:G:C6	2.86	0.44
1:AA:523:C:H2'	1:AA:524:U:O4'	2.18	0.44
1:AA:528:A:H2'	1:AA:529:A:OP1	2.17	0.44
1:AA:559:G:C2'	1:AA:560:C:O4'	2.65	0.44
1:AA:638:G:C5	1:AA:639:U:C2	3.06	0.44
1:AA:64:A:HO2'	1:AA:65:C:H5'	1.77	0.44
1:AA:718:A:C5'	1:AA:719:C:OP2	2.66	0.44
1:AA:84:A:H5'	1:AA:85:G:OP1	2.17	0.44
1:AA:903:C:C5	1:AA:903:C:OP2	2.70	0.44
1:AA:904:C:O4'	21:AW:169:GLU:CD	2.55	0.44
3:AC:224:ILE:O	3:AC:226:PRO:HD3	2.18	0.44
3:AC:74:VAL:HG12	3:AC:114:VAL:HG22	2.00	0.44
1:AA:1816:G:OP1	4:AD:43:ARG:NH2	2.51	0.44
5:AE:13:ARG:CD	5:AE:20:ALA:O	2.65	0.44
5:AE:185:LYS:O	5:AE:185:LYS:CD	2.65	0.44
5:AE:66:HIS:O	5:AE:68:ALA:N	2.50	0.44
6:AF:109:GLY:O	6:AF:112:MET:N	2.50	0.44
6:AF:37:VAL:CA	6:AF:184:TYR:CZ	2.99	0.44
6:AF:37:VAL:O	6:AF:41:LEU:CD2	2.66	0.44
6:AF:53:THR:O	6:AF:55:GLY:N	2.51	0.44
6:AF:8:GLN:HB3	6:AF:18:ARG:CB	2.47	0.44
7:AG:131:TYR:CE2	7:AG:132:ASN:HA	2.53	0.44
7:AG:50:ALA:O	7:AG:54:GLU:CD	2.56	0.44
8:AH:98:LEU:HD22	8:AH:100:GLY:C	2.39	0.44
8:AH:118:PRO:CG	8:AH:121:ILE:HG21	2.48	0.44
8:AH:153:LYS:O	8:AH:161:GLY:HA3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:42:ARG:CA	8:AH:42:ARG:NE	2.71	0.44
32:AJ:14:ALA:O	32:AJ:49:GLY:C	2.52	0.44
32:AJ:21:PRO:O	32:AJ:25:PRO:HD2	2.17	0.44
9:AK:46:VAL:HG11	9:AK:119:ARG:HH22	1.81	0.44
9:AK:22:THR:HG21	9:AK:61:ARG:NH1	2.32	0.44
9:AK:67:LEU:CA	9:AK:70:LYS:HZ1	2.29	0.44
10:AL:31:LYS:C	10:AL:32:TYR:CD2	2.92	0.44
10:AL:90:GLN:O	10:AL:91:LEU:O	2.36	0.44
1:AA:627:A:H8	11:AM:75:ILE:CG2	2.31	0.44
11:AM:86:LYS:HZ1	11:AM:99:LEU:CD1	2.31	0.44
12:AN:39:PRO:HB2	12:AN:40:ALA:H	1.47	0.44
12:AN:67:ARG:NH2	12:AN:103:MET:CB	2.78	0.44
13:AO:47:PHE:O	13:AO:49:ASP:N	2.51	0.44
13:AO:49:ASP:O	13:AO:50:HIS:C	2.56	0.44
13:AO:83:ILE:O	13:AO:86:ARG:HB2	2.17	0.44
14:AP:107:GLU:O	14:AP:108:GLY:C	2.56	0.44
14:AP:62:LYS:CB	14:AP:65:VAL:CG1	2.88	0.44
14:AP:94:TYR:HD1	14:AP:94:TYR:H	1.66	0.44
10:AL:106:LEU:CD2	15:AQ:38:ASN:ND2	2.81	0.44
16:AR:61:TRP:CB	16:AR:65:ILE:HD11	2.48	0.44
18:AT:46:PHE:O	18:AT:50:VAL:HG23	2.17	0.44
18:AT:21:VAL:HG22	18:AT:75:TYR:CE2	2.53	0.44
1:AA:1312:U:C6	19:AU:62:LYS:HG3	2.52	0.44
20:AV:98:VAL:C	20:AV:99:CYS:SG	2.96	0.44
21:AW:43:GLU:HA	21:AW:46:LYS:CE	2.48	0.44
21:AW:42:VAL:C	21:AW:46:LYS:NZ	2.71	0.44
21:AW:60:GLU:OE2	21:AW:69:THR:HG22	2.18	0.44
34:BA:1142:G:C4	34:BA:1143:G:C8	3.06	0.44
34:BA:1171:G:C2'	34:BA:1172:C:H6	2.31	0.44
34:BA:1187:G:C2'	34:BA:1188:A:H8	2.31	0.44
34:BA:124:G:C6	34:BA:125:U:N3	2.86	0.44
34:BA:1300:G:C6	34:BA:1335:C:C5	3.05	0.44
34:BA:1350:A:C5	34:BA:1351:U:C5	3.06	0.44
34:BA:1324:A:C4'	34:BA:1362:C:H4'	2.48	0.44
34:BA:1511:G:C6	34:BA:1512:U:C4	3.06	0.44
34:BA:139:G:N2	34:BA:225:C:C2	2.86	0.44
34:BA:285:G:C6	34:BA:286:G:C5	3.06	0.44
34:BA:319:G:H4'	34:BA:1468:A:H4'	1.99	0.44
34:BA:342:C:C2	34:BA:348:G:C2	3.06	0.44
34:BA:450:G:C8	34:BA:481:G:C6	3.06	0.44
34:BA:737:A:C2'	34:BA:738:C:O5'	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:78:G:N1	34:BA:79:G:C5	2.86	0.44
34:BA:874:G:H2'	34:BA:875:C:C5'	2.47	0.44
34:BA:901:A:HO2'	34:BA:902:G:P	2.40	0.44
34:BA:975:A:O2'	34:BA:976:G:P	2.76	0.44
34:BA:977:A:O2'	34:BA:979:C:P	2.75	0.44
55:BC:16:U:H2'	55:BC:17:C:H5'	1.98	0.44
56:BE:72:C:H3'	56:BE:73:A:C5'	2.46	0.44
35:BF:101:MET:HB3	35:BF:105:PHE:CD1	2.53	0.44
35:BF:153:ARG:O	35:BF:154:LEU:C	2.57	0.44
35:BF:208:ILE:O	35:BF:211:ILE:HB	2.17	0.44
35:BF:7:VAL:CG2	35:BF:8:LYS:H	2.21	0.44
36:BG:165:THR:CG2	36:BG:166:GLU:N	2.81	0.44
36:BG:47:LEU:CD1	36:BG:49:SER:HB3	2.47	0.44
37:BH:133:VAL:HG21	37:BH:138:TYR:HE1	1.83	0.44
37:BH:176:LEU:H	37:BH:176:LEU:HD23	1.82	0.44
37:BH:98:GLU:OE1	37:BH:107:ARG:HG3	2.18	0.44
38:BI:105:VAL:CG1	38:BI:132:ALA:HA	2.48	0.44
39:BJ:36:ARG:HB2	39:BJ:36:ARG:HH11	1.81	0.44
34:BA:1346:A:N1	40:BK:10:ARG:HD3	2.31	0.44
41:BL:113:SER:O	41:BL:131:GLY:CA	2.65	0.44
41:BL:40:ALA:O	41:BL:41:ARG:C	2.57	0.44
41:BL:95:VAL:HB	41:BL:99:GLU:CD	2.38	0.44
42:BM:53:VAL:HG12	42:BM:53:VAL:O	2.18	0.44
34:BA:1148:U:H5'	42:BM:7:THR:OG1	2.17	0.44
42:BM:17:VAL:HG11	42:BM:81:ILE:CA	2.48	0.44
43:BN:5:ARG:CB	43:BN:5:ARG:CZ	2.87	0.44
45:BP:98:TYR:N	45:BP:98:TYR:CD1	2.86	0.44
47:BR:29:ARG:HD3	47:BR:40:CYS:HB3	2.00	0.44
36:BG:8:ILE:CG2	47:BR:49:HIS:O	2.66	0.44
1:AA:716:A:N9	48:BS:44:LYS:HD3	2.32	0.44
34:BA:377:G:OP1	49:BT:5:ARG:NH1	2.51	0.44
39:BJ:94:GLN:CB	51:BV:32:ARG:NH2	2.81	0.44
34:BA:1320:C:N3	52:BW:75:ALA:O	2.51	0.44
53:BX:57:ARG:HH21	53:BX:100:ILE:CD1	2.30	0.44
53:BX:23:ARG:HA	53:BX:26:ASN:CG	2.37	0.44
53:BX:20:LEU:O	53:BX:24:LEU:HG	2.17	0.44
53:BX:45:GLN:HE21	53:BX:91:LEU:CD1	2.17	0.44
54:BY:6:ARG:HG3	54:BY:7:ARG:H	1.82	0.44
57:BZ:89:MET:CE	57:BZ:116:ALA:HA	2.47	0.44
57:BZ:220:VAL:CG1	57:BZ:279:LEU:HB3	2.04	0.44
57:BZ:239:ILE:HG22	57:BZ:240:ILE:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:309:MET:O	57:BZ:311:PHE:CD1	2.70	0.44
57:BZ:488:LEU:O	57:BZ:523:ILE:HA	2.18	0.44
46:BQ:50:GLU:HA	46:BQ:53:VAL:HB	2.00	0.44
56:BD:1:G:C6	56:BD:71:G:C6	3.06	0.44
56:BD:4:C:C6	56:BD:70:G:N2	2.86	0.44
1:AA:883:G:C2'	1:AA:884:C:C5'	2.88	0.44
57:BZ:35:ARG:CA	57:BZ:36:ALA:CB	2.93	0.44
1:AA:1417:C:H2'	1:AA:1418:G:O5'	2.18	0.44
1:AA:1578:U:H5''	1:AA:1580:A:N1	2.33	0.44
9:AK:139:GLU:C	9:AK:140:VAL:HG23	2.38	0.44
55:BC:10:G:C2'	55:BC:11:C:H5'	2.48	0.44
57:BZ:434:LYS:HB2	57:BZ:434:LYS:HE3	1.81	0.44
14:AP:112:PHE:CD1	14:AP:112:PHE:C	2.91	0.44
1:AA:1025:G:H8	1:AA:1134:G:C1'	2.31	0.43
1:AA:1060:U:H5''	1:AA:1060:U:H6	1.83	0.43
1:AA:110:G:O6	1:AA:111:A:N6	2.51	0.43
1:AA:1112:G:OP1	8:AH:4:ILE:HG12	2.18	0.43
1:AA:1174:A:N6	1:AA:1177:A:C5	2.82	0.43
1:AA:118:A:H1'	1:AA:178:G:C4'	2.48	0.43
1:AA:1195:G:C2	1:AA:1196:C:C6	3.06	0.43
1:AA:1202:C:N4	1:AA:1241:A:N7	2.65	0.43
1:AA:1314:C:C2	1:AA:1339:G:C2	3.05	0.43
1:AA:1344:G:C5	1:AA:1385:G:N7	2.86	0.43
1:AA:1353:A:C2'	1:AA:1354:A:O4'	2.65	0.43
1:AA:1471:A:C6	1:AA:1473:G:C8	3.06	0.43
1:AA:1530:G:N2	1:AA:1541:U:H2'	2.23	0.43
1:AA:1449:A:P	1:AA:1543:A:N1	2.91	0.43
1:AA:1604:C:O2	1:AA:1604:C:C2'	2.66	0.43
1:AA:1682:G:H3'	1:AA:1683:C:H5	1.83	0.43
1:AA:1697:G:C8	1:AA:1697:G:H3'	2.52	0.43
1:AA:1728:G:H1	1:AA:1733:G:N2	2.17	0.43
1:AA:1789:A:H4'	4:AD:222:ARG:NE	2.33	0.43
1:AA:1790:C:H1'	4:AD:213:ARG:NH2	2.33	0.43
1:AA:1814:G:N2	1:AA:1815:A:N6	2.65	0.43
1:AA:1824:G:H2'	1:AA:1825:A:C1'	2.48	0.43
1:AA:1905:C:C4	1:AA:1930:G:C2	3.06	0.43
1:AA:193:U:O2'	1:AA:194:G:H5'	2.17	0.43
1:AA:1959:G:H4'	34:BA:1418:A:C2'	2.43	0.43
1:AA:1977:A:C2	1:AA:1978:A:C1'	3.01	0.43
1:AA:1991:U:O5'	1:AA:1991:U:H6	2.01	0.43
1:AA:1995:U:C5	1:AA:1996:C:H5	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:207:A:C2	1:AA:208:C:H1'	2.53	0.43
1:AA:2082:A:C2	1:AA:2083:G:C4	3.06	0.43
1:AA:2086:U:OP2	4:AD:260:ARG:NH2	2.51	0.43
1:AA:2094:G:C2	1:AA:2196:C:N3	2.86	0.43
1:AA:213:A:H2'	1:AA:213:A:N3	2.33	0.43
1:AA:2234:G:N2	1:AA:2235:G:H1'	2.33	0.43
1:AA:2335:A:N7	1:AA:2337:G:C6	2.85	0.43
1:AA:2358:G:N2	1:AA:2359:C:H1'	2.33	0.43
1:AA:2459:A:OP2	1:AA:2460:U:C4	2.71	0.43
1:AA:2520:C:C5	1:AA:2567:G:N9	2.85	0.43
1:AA:783:A:O3'	1:AA:2589:A:P	2.76	0.43
1:AA:2690:C:O2'	1:AA:2691:C:P	2.76	0.43
1:AA:2708:G:H4'	13:AO:71:GLN:OE1	2.18	0.43
1:AA:2726:U:O2'	1:AA:2727:G:OP1	2.28	0.43
1:AA:2848:G:HO2'	1:AA:2849:U:P	2.41	0.43
1:AA:2848:G:N2	1:AA:2849:U:O2	2.51	0.43
1:AA:29:U:O2	1:AA:30:G:C6	2.71	0.43
1:AA:270(C):C:P	1:AA:365:C:H1'	2.58	0.43
1:AA:454:A:C8	1:AA:454:A:C3'	3.01	0.43
1:AA:512:G:OP2	1:AA:1235:G:C5'	2.65	0.43
1:AA:630:G:N2	1:AA:634:C:C4	2.86	0.43
1:AA:675:A:C5	1:AA:676:A:N1	2.85	0.43
1:AA:778:G:C6	1:AA:779:U:N3	2.85	0.43
1:AA:566:U:O2'	1:AA:808:G:OP1	2.35	0.43
1:AA:819:A:C2'	1:AA:820:A:H8	2.30	0.43
1:AA:842:G:C6	1:AA:843:G:C5	3.06	0.43
1:AA:844:C:OP2	1:AA:844:C:H6	2.01	0.43
1:AA:866:A:C2	1:AA:867:C:C6	3.06	0.43
1:AA:873:G:C6	1:AA:874:G:C5	3.06	0.43
1:AA:972:G:H3'	1:AA:973:A:C3'	2.48	0.43
1:AA:979:G:C3'	1:AA:980:A:C5'	2.78	0.43
1:AA:981:A:O2'	1:AA:2036:C:O2'	2.23	0.43
1:AA:984:A:P	1:AA:985:C:H41	2.41	0.43
2:AB:88:C:C4	2:AB:89:G:N3	2.86	0.43
3:AC:163:PHE:O	3:AC:164:ARG:HB2	2.18	0.43
3:AC:42:GLU:CB	3:AC:215:THR:H	2.31	0.43
3:AC:89:ALA:CB	3:AC:154:ARG:HH11	2.31	0.43
4:AD:198:ASN:HD21	4:AD:201:HIS:HB2	1.83	0.43
4:AD:55:GLY:CA	4:AD:217:ARG:NH2	2.82	0.43
1:AA:1565:C:OP1	4:AD:24:ILE:HG23	2.18	0.43
5:AE:136:ARG:C	5:AE:136:ARG:CD	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:32:PRO:HG3	5:AE:88:GLY:CA	2.47	0.43
5:AE:55:ASN:CB	5:AE:73:GLU:CD	2.86	0.43
5:AE:5:LEU:HD23	5:AE:7:VAL:CA	2.48	0.43
5:AE:60:ASN:OD1	5:AE:61:ARG:HD3	2.18	0.43
1:AA:2636:U:C4'	5:AE:79:ARG:HH21	2.20	0.43
6:AF:11:VAL:HB	6:AF:17:ARG:NH1	2.33	0.43
6:AF:75:HIS:CE1	6:AF:80:ALA:CB	3.01	0.43
7:AG:32:PRO:HB2	7:AG:163:ALA:CB	2.48	0.43
7:AG:44:GLY:CA	7:AG:88:ILE:HG21	2.48	0.43
7:AG:59:GLU:HB3	7:AG:152:LEU:CD1	2.48	0.43
7:AG:59:GLU:O	7:AG:63:ILE:HB	2.18	0.43
1:AA:2312:U:OP1	7:AG:86:MET:HG2	2.18	0.43
8:AH:149:ARG:NH2	8:AH:164:TYR:CD1	2.85	0.43
8:AH:156:ALA:O	8:AH:157:TYR:CB	2.65	0.43
8:AH:75:ALA:O	8:AH:79:VAL:HG22	2.18	0.43
9:AK:86:PRO:CD	9:AK:89:LYS:HD2	2.43	0.43
10:AL:105:GLU:O	10:AL:107:ARG:N	2.51	0.43
11:AM:78:PRO:HA	11:AM:81:GLN:NE2	2.33	0.43
6:AF:34:TRP:CG	11:AM:8:PRO:HB2	2.51	0.43
11:AM:91:PHE:CE2	11:AM:96:THR:HA	2.54	0.43
11:AM:96:THR:O	11:AM:99:LEU:CB	2.66	0.43
12:AN:68:ILE:HG12	12:AN:97:VAL:HG13	2.00	0.43
13:AO:20:LEU:HD22	13:AO:24:GLN:HG3	1.88	0.43
1:AA:2820:A:OP1	13:AO:5:LYS:HE2	2.17	0.43
14:AP:26:LEU:HD12	14:AP:101:LEU:HD11	2.00	0.43
15:AQ:54:ARG:CA	15:AQ:64:ARG:HB2	2.45	0.43
15:AQ:93:ARG:CG	15:AQ:95:ARG:NH1	2.80	0.43
16:AR:43:GLY:O	16:AR:44:ASN:C	2.55	0.43
9:AK:4:TYR:HB3	16:AR:64:ARG:NH1	2.33	0.43
16:AR:70:ARG:CB	16:AR:70:ARG:NH1	2.80	0.43
16:AR:89:GLU:O	16:AR:90:VAL:HG23	2.18	0.43
17:AS:5:VAL:CG2	17:AS:39:LEU:HD22	2.48	0.43
18:AT:13:SER:OG	18:AT:16:LYS:CE	2.65	0.43
19:AU:39:ILE:O	19:AU:43:VAL:CG2	2.66	0.43
20:AV:38:ILE:CG2	20:AV:60:PHE:HZ	2.27	0.43
20:AV:8:LYS:O	20:AV:9:LYS:C	2.55	0.43
21:AW:102:LEU:CG	21:AW:125:LEU:HD12	2.48	0.43
21:AW:138:GLU:O	21:AW:139:VAL:CG2	2.66	0.43
21:AW:169:GLU:O	21:AW:170:THR:CB	2.66	0.43
21:AW:18:LEU:CD2	21:AW:23:LYS:HD3	2.47	0.43
34:BA:1253:G:N2	34:BA:1285:A:N6	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1255:G:N2	34:BA:1276:G:H21	2.16	0.43
34:BA:1259:C:O2'	34:BA:1283:G:N2	2.43	0.43
34:BA:1268:A:H2	34:BA:1327:C:H1'	1.83	0.43
34:BA:1337:G:H5''	34:BA:1338:G:OP1	2.18	0.43
34:BA:133:U:H5'	34:BA:134:A:OP1	2.17	0.43
34:BA:1360:A:N1	34:BA:1361:G:C2	2.86	0.43
1:AA:1959:G:C2'	34:BA:1418:A:C2	2.48	0.43
34:BA:187:C:N3	34:BA:188:U:O2	2.51	0.43
34:BA:7:G:H1'	34:BA:298:A:C4	2.53	0.43
34:BA:355:C:C2	34:BA:356:A:C8	3.06	0.43
34:BA:36:C:OP1	45:BP:123:LYS:HG2	2.18	0.43
34:BA:394:G:C5	34:BA:395:C:C5	3.06	0.43
34:BA:580:U:C5'	48:BS:58:MET:HG2	2.48	0.43
34:BA:584:G:OP2	50:BU:87:LYS:NZ	2.51	0.43
34:BA:598:U:C2	34:BA:599:C:C5	3.06	0.43
34:BA:597:G:C4	34:BA:644:G:C2	3.06	0.43
34:BA:64:G:C4'	34:BA:65:U:H5''	2.29	0.43
34:BA:666:G:H4'	34:BA:731:G:N2	2.33	0.43
34:BA:737:A:O2'	34:BA:738:C:C5'	2.65	0.43
34:BA:737:A:H2'	34:BA:738:C:C6	2.51	0.43
34:BA:766:A:C2	34:BA:767:A:C1'	3.01	0.43
34:BA:787:A:H2'	34:BA:787:A:N3	2.33	0.43
34:BA:831:U:H2'	34:BA:832:C:O4'	2.18	0.43
34:BA:833:U:H2'	34:BA:834:C:C6	2.52	0.43
34:BA:953:G:C2'	34:BA:954:G:O5'	2.65	0.43
34:BA:957:U:O2	34:BA:960:U:C5	2.71	0.43
34:BA:960:U:C6	34:BA:960:U:H5'	2.53	0.43
55:BC:62:C:H2'	55:BC:63:G:C8	2.53	0.43
35:BF:140:HIS:C	35:BF:143:GLU:HB3	2.39	0.43
35:BF:28:PHE:HA	35:BF:194:PRO:HG2	1.99	0.43
36:BG:58:GLU:O	36:BG:65:ALA:N	2.51	0.43
36:BG:67:THR:HG23	36:BG:102:ASN:HB3	1.99	0.43
37:BH:134:ASP:O	37:BH:134:ASP:OD2	2.36	0.43
37:BH:67:ILE:CD1	37:BH:68:TYR:CD1	3.00	0.43
38:BI:37:ARG:NH1	38:BI:112:LEU:HA	2.33	0.43
38:BI:74:GLY:O	38:BI:75:THR:CB	2.61	0.43
38:BI:82:VAL:HB	38:BI:138:ALA:HB2	2.00	0.43
40:BK:123:GLU:OE1	40:BK:134:ALA:N	2.45	0.43
41:BL:63:LEU:N	41:BL:63:LEU:CD2	2.80	0.43
42:BM:23:ASN:O	42:BM:59:PHE:O	2.36	0.43
42:BM:10:ARG:NE	42:BM:75:ASP:OD2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:40:LEU:O	43:BN:42:THR:N	2.51	0.43
34:BA:676:A:C4'	44:BO:114:VAL:O	2.65	0.43
44:BO:25:TYR:OH	44:BO:87:THR:HB	2.18	0.43
44:BO:88:GLY:O	44:BO:90:GLY:N	2.50	0.43
44:BO:87:THR:CG2	44:BO:91:ARG:HH12	2.23	0.43
45:BP:78:GLN:O	45:BP:79:GLU:C	2.55	0.43
45:BP:82:VAL:O	45:BP:83:VAL:CB	2.65	0.43
46:BQ:92:HIS:C	46:BQ:94:ARG:H	2.21	0.43
43:BN:65:LEU:CD1	47:BR:36:PHE:CZ	3.01	0.43
48:BS:27:VAL:O	48:BS:31:LEU:HD13	2.18	0.43
49:BT:14:ASN:O	49:BT:14:ASN:CG	2.56	0.43
49:BT:26:ARG:HH11	49:BT:26:ARG:HG3	1.83	0.43
49:BT:38:TYR:CE1	49:BT:50:LYS:HB3	2.53	0.43
50:BU:27:PHE:C	50:BU:27:PHE:CD2	2.87	0.43
50:BU:43:LEU:HD11	50:BU:69:LYS:HB2	2.00	0.43
50:BU:53:LEU:O	50:BU:53:LEU:CG	2.66	0.43
50:BU:7:THR:HG22	50:BU:56:VAL:CG1	2.47	0.43
50:BU:60:ILE:CD1	50:BU:62:SER:HA	2.48	0.43
50:BU:7:THR:CG2	50:BU:56:VAL:CG1	2.85	0.43
39:BJ:60:PHE:CZ	51:BV:78:LEU:HD21	2.52	0.43
34:BA:1219:U:C3'	52:BW:34:TRP:NE1	2.19	0.43
57:BZ:136:ARG:HG2	57:BZ:136:ARG:O	2.18	0.43
57:BZ:151:LEU:O	57:BZ:152:ASP:CB	2.66	0.43
57:BZ:240:ILE:O	57:BZ:242:SER:N	2.42	0.43
57:BZ:521:GLY:CA	57:BZ:592:LEU:HA	2.47	0.43
46:BQ:54:VAL:CG1	46:BQ:58:GLU:OE1	2.66	0.43
46:BQ:53:VAL:O	46:BQ:57:ARG:HB2	2.17	0.43
57:BZ:409:GLU:OE2	57:BZ:435:GLY:C	2.45	0.43
23:AY:7:GLU:O	23:AY:10:LYS:HG2	2.18	0.43
34:BA:511:C:C2'	34:BA:512:U:C6	3.01	0.43
1:AA:487:C:O5'	1:AA:487:C:C6	2.70	0.43
43:BN:3:LYS:HD2	43:BN:3:LYS:N	2.33	0.43
34:BA:1011:G:N1	34:BA:1012:U:H1'	2.33	0.43
1:AA:1550:C:C2	1:AA:1551:C:C5	3.06	0.43
1:AA:1011:G:O6	1:AA:1151:G:C6	2.71	0.43
1:AA:1062:G:H2'	1:AA:1065:U:O4	2.18	0.43
1:AA:1089:G:O5'	1:AA:1089:G:C8	2.70	0.43
1:AA:1024:G:N7	1:AA:1134:G:H1'	2.33	0.43
1:AA:1022:G:N7	1:AA:1139:G:O6	2.51	0.43
1:AA:1183:G:HO2'	1:AA:1184:G:P	2.41	0.43
1:AA:120:U:C2'	1:AA:121:G:OP2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:814:C:C4'	1:AA:1224:G:H22	2.30	0.43
1:AA:1212:G:H1'	1:AA:1237:A:N6	2.33	0.43
1:AA:1255:U:O4	6:AF:72:ARG:O	2.36	0.43
1:AA:1450:C:C2'	1:AA:1451:C:OP2	2.66	0.43
1:AA:1537:C:O5'	1:AA:1537:C:H6	2.01	0.43
1:AA:1544:C:O2'	1:AA:1545:A:H4'	2.18	0.43
1:AA:1466:G:O2'	1:AA:1546:C:H4'	2.18	0.43
1:AA:1568:G:OP1	4:AD:86:PRO:HG2	2.18	0.43
1:AA:1630:G:H2'	1:AA:1630(A):C:C6	2.48	0.43
1:AA:1649:G:N3	13:AO:107:ASP:HB3	2.32	0.43
1:AA:1661:G:C4	1:AA:2000:G:C2	3.06	0.43
1:AA:1662:C:C2	1:AA:1663:C:C5	3.07	0.43
1:AA:1663:C:H5''	1:AA:1664:A:OP1	2.18	0.43
1:AA:1696:G:C6	1:AA:1697:G:N1	2.87	0.43
1:AA:1793:C:C4	1:AA:1794:U:O4	2.71	0.43
1:AA:1974:C:C2	1:AA:1975:G:C8	3.05	0.43
1:AA:1995:U:C3'	1:AA:1995:U:C6	3.01	0.43
1:AA:2002:G:C6	1:AA:2003:G:N7	2.87	0.43
1:AA:2018:G:OP2	1:AA:2018:G:C8	2.70	0.43
1:AA:2052:G:C6	1:AA:2053:G:C6	3.06	0.43
1:AA:2125:G:C4'	3:AC:217:THR:OG1	2.62	0.43
1:AA:2133:G:N3	1:AA:2133:G:H2'	2.32	0.43
1:AA:20:C:H2'	1:AA:21:A:H8	1.83	0.43
1:AA:963:U:C1'	1:AA:2250:G:H21	2.19	0.43
1:AA:2369:A:N6	1:AA:2382:G:H22	2.16	0.43
1:AA:2383:G:N2	1:AA:2384:G:C4	2.86	0.43
1:AA:2387:U:C6	1:AA:2387:U:OP2	2.72	0.43
1:AA:389:G:H1'	1:AA:2412:A:H2'	2.00	0.43
1:AA:2472:G:H22	1:AA:2477:C:P	2.38	0.43
1:AA:2474:C:H6	1:AA:2474:C:O5'	2.01	0.43
1:AA:246:C:N3	1:AA:247:G:C5	2.86	0.43
1:AA:2642:G:N1	1:AA:2643:G:C5	2.86	0.43
1:AA:268:C:C2	1:AA:269:U:C5	3.06	0.43
1:AA:2706:G:N1	1:AA:2707:G:C5	2.86	0.43
1:AA:270(J):G:C5	1:AA:270(K):C:C4	3.06	0.43
1:AA:2733:A:C2	5:AE:204:ALA:HB2	2.52	0.43
1:AA:2787:C:H4'	5:AE:60:ASN:OD1	2.17	0.43
1:AA:2813:A:H2'	1:AA:2814:C:O4'	2.18	0.43
1:AA:2876:G:C2	1:AA:2877:G:C5	3.06	0.43
1:AA:349:G:H2'	1:AA:350:U:C5	2.49	0.43
1:AA:393:C:C2	1:AA:394:A:C8	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:414:C:H2'	1:AA:415:A:H8	1.82	0.43
1:AA:216:A:N6	1:AA:431:U:H3	2.13	0.43
1:AA:552:G:O2'	1:AA:553:U:C5'	2.65	0.43
1:AA:600:G:H4'	6:AF:105:VAL:CG1	2.48	0.43
1:AA:609:A:N6	1:AA:619:G:H21	2.16	0.43
1:AA:659:C:H4'	6:AF:102:PRO:HD3	2.00	0.43
1:AA:67:U:C6	1:AA:67:U:C4'	3.01	0.43
1:AA:77:C:OP2	1:AA:77:C:H6	2.02	0.43
1:AA:892:G:C2'	1:AA:893:C:C6	2.97	0.43
2:AB:29:A:H2'	2:AB:30:C:O4'	2.18	0.43
2:AB:73:A:C2	2:AB:74:U:N1	2.87	0.43
2:AB:74:U:C3'	2:AB:75:G:O4'	2.65	0.43
3:AC:104:LEU:HA	3:AC:130:ILE:HG12	1.99	0.43
3:AC:182:PRO:HG2	3:AC:183:GLU:OE1	2.17	0.43
3:AC:175:VAL:CB	3:AC:185:LEU:O	2.66	0.43
3:AC:210:ARG:HH11	3:AC:210:ARG:CG	2.31	0.43
3:AC:223:ARG:CG	3:AC:224:ILE:N	2.80	0.43
3:AC:44:HIS:CA	3:AC:213:TYR:HB2	2.48	0.43
3:AC:74:VAL:HG13	3:AC:112:ALA:O	2.17	0.43
4:AD:16:MET:O	4:AD:17:THR:C	2.57	0.43
1:AA:783:A:C3'	4:AD:227:ASN:OD1	2.66	0.43
1:AA:2596:U:C3'	4:AD:242:ARG:CZ	2.96	0.43
4:AD:63:ARG:CG	4:AD:65:ILE:HD11	2.48	0.43
5:AE:137:HIS:N	5:AE:137:HIS:ND1	2.66	0.43
5:AE:19:ARG:HB3	10:AL:73:ASP:OD2	2.18	0.43
5:AE:36:ARG:CB	5:AE:41:LYS:HB2	2.44	0.43
6:AF:124:LEU:HD21	6:AF:201:VAL:HG21	2.00	0.43
1:AA:322:A:OP1	6:AF:168:ARG:HG2	2.18	0.43
6:AF:169:ASN:OD1	6:AF:171:PRO:HG2	2.18	0.43
1:AA:449:A:OP2	6:AF:85:GLY:CA	2.66	0.43
7:AG:111:LEU:CD2	7:AG:178:PHE:HD2	2.31	0.43
7:AG:29:TRP:HB2	7:AG:31:VAL:CG2	2.48	0.43
8:AH:95:ARG:O	8:AH:105:LEU:HA	2.18	0.43
8:AH:119:GLU:H	8:AH:121:ILE:HG22	1.81	0.43
8:AH:143:GLN:O	8:AH:146:ALA:N	2.51	0.43
32:AJ:33:ASN:H	32:AJ:59:ILE:CG2	2.31	0.43
9:AK:14:VAL:CG1	9:AK:138:LEU:HB3	2.29	0.43
9:AK:21:LYS:HB3	9:AK:25:ARG:NH2	2.33	0.43
9:AK:31:ALA:C	9:AK:33:LEU:N	2.69	0.43
10:AL:116:SER:HB3	34:BA:345:C:N3	2.32	0.43
10:AL:120:GLU:O	10:AL:121:VAL:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:22:ILE:HB	10:AL:23:ARG:CD	2.48	0.43
1:AA:603:A:H62	11:AM:104:GLY:HA2	1.82	0.43
11:AM:130:PHE:C	11:AM:134:ALA:HB3	2.39	0.43
12:AN:36:ALA:HB3	12:AN:101:ARG:H	1.82	0.43
12:AN:32:TYR:CB	12:AN:105:GLU:O	2.53	0.43
12:AN:36:ALA:CA	12:AN:129:THR:HG22	2.48	0.43
12:AN:130:LYS:HE3	12:AN:131:ILE:CA	2.47	0.43
12:AN:46:GLN:CG	12:AN:125:LEU:HA	2.48	0.43
12:AN:64:ILE:O	12:AN:65:PHE:CD2	2.71	0.43
12:AN:91:GLU:N	12:AN:91:GLU:CD	2.72	0.43
12:AN:91:GLU:N	12:AN:91:GLU:OE2	2.51	0.43
13:AO:28:LEU:O	13:AO:31:HIS:N	2.52	0.43
14:AP:106:ARG:NH1	14:AP:110:LEU:CB	2.63	0.43
14:AP:20:ARG:HG2	14:AP:20:ARG:H	1.60	0.43
14:AP:64:GLU:OE2	14:AP:67:ARG:CB	2.61	0.43
14:AP:52:SER:OG	14:AP:69:VAL:CG1	2.66	0.43
15:AQ:70:VAL:HB	15:AQ:74:ARG:CZ	2.43	0.43
16:AR:98:LEU:HD12	16:AR:105:VAL:HG11	1.99	0.43
16:AR:55:ARG:HA	16:AR:58:ARG:HB3	2.01	0.43
16:AR:66:ASN:O	16:AR:67:ALA:C	2.56	0.43
16:AR:95:LEU:HD23	16:AR:95:LEU:H	1.82	0.43
19:AU:12:VAL:HA	19:AU:29:TRP:NE1	2.33	0.43
19:AU:18:TYR:HA	19:AU:21:PHE:CE1	2.53	0.43
19:AU:27:THR:C	19:AU:28:PHE:CG	2.91	0.43
19:AU:21:PHE:HE2	19:AU:27:THR:HG1	1.59	0.43
21:AW:41:LEU:CA	21:AW:44:PHE:HB2	2.48	0.43
21:AW:79:ARG:C	21:AW:80:ARG:CD	2.82	0.43
1:AA:923:C:H4'	22:AX:26:TYR:CD1	2.53	0.43
22:AX:22:GLY:C	22:AX:38:VAL:HG13	2.37	0.43
23:AY:16:LEU:HD12	23:AY:16:LEU:O	2.18	0.43
34:BA:1225:A:H2'	52:BW:80:TYR:HB2	1.99	0.43
34:BA:1227:A:O2'	46:BQ:115:LYS:HE2	2.17	0.43
34:BA:1250:A:H4'	42:BM:68:GLY:N	2.31	0.43
34:BA:1270:C:C2'	34:BA:1313:U:C3'	2.86	0.43
34:BA:133:U:OP1	53:BX:74:LYS:NZ	2.50	0.43
34:BA:1363:A:N3	34:BA:1365:G:O6	2.51	0.43
34:BA:1410:G:C6	34:BA:1411:C:N4	2.86	0.43
34:BA:1483:A:H2'	34:BA:1484:C:H5'	2.00	0.43
34:BA:1487:G:N3	34:BA:1488:G:C8	2.86	0.43
34:BA:1519:A:C3'	34:BA:1520:G:H5'	2.47	0.43
34:BA:15:G:H2'	34:BA:16:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:255:G:OP1	50:BU:69:LYS:HE2	2.18	0.43
34:BA:261:U:O4	34:BA:264:U:OP2	2.36	0.43
34:BA:57:G:O6	34:BA:356:A:N6	2.51	0.43
34:BA:377:G:P	49:BT:5:ARG:HD3	2.58	0.43
34:BA:383:A:OP2	34:BA:383:A:H8	2.01	0.43
34:BA:531:U:P	34:BA:531:U:H3'	2.59	0.43
34:BA:606:G:N2	34:BA:631:G:H2'	2.33	0.43
34:BA:66:G:N1	34:BA:67:C:C4	2.86	0.43
34:BA:692:U:C2	34:BA:694:A:OP2	2.71	0.43
34:BA:789:U:O2'	34:BA:791:G:N7	2.32	0.43
34:BA:867:G:C2	34:BA:868:C:C4	3.06	0.43
34:BA:901:A:C2'	34:BA:902:G:O5'	2.65	0.43
34:BA:945:G:C2	34:BA:1337:G:N3	2.86	0.43
34:BA:977:A:N6	34:BA:1224:G:O5'	2.51	0.43
55:BC:16:U:C4	55:BC:19:G:P	3.11	0.43
56:BE:41:C:H2'	56:BE:42:C:H5''	1.99	0.43
35:BF:16:HIS:O	35:BF:18:GLY:N	2.51	0.43
35:BF:193:ASP:O	35:BF:194:PRO:O	2.36	0.43
35:BF:25:ASN:O	35:BF:26:PRO:C	2.56	0.43
35:BF:49:GLU:O	35:BF:50:GLU:C	2.56	0.43
35:BF:80:ILE:HG22	35:BF:81:VAL:N	2.33	0.43
36:BG:138:VAL:HG13	36:BG:149:ALA:CB	2.48	0.43
36:BG:190:ARG:O	36:BG:191:THR:O	2.36	0.43
36:BG:74:GLY:C	36:BG:76:VAL:N	2.71	0.43
36:BG:82:GLU:OE1	36:BG:83:ARG:N	2.51	0.43
36:BG:89:GLU:O	36:BG:90:GLU:C	2.56	0.43
36:BG:91:LEU:O	36:BG:92:ALA:C	2.56	0.43
37:BH:139:ARG:CG	37:BH:140:VAL:H	2.29	0.43
40:BK:115:ARG:CG	40:BK:118:VAL:HG21	2.48	0.43
41:BL:11:THR:OG1	41:BL:12:ARG:N	2.52	0.43
41:BL:12:ARG:HH11	41:BL:26:VAL:HG22	1.83	0.43
41:BL:9:MET:SD	41:BL:32:LYS:HB2	2.57	0.43
41:BL:45:ILE:HD11	41:BL:48:TYR:CB	2.38	0.43
34:BA:1347:G:C8	42:BM:107:ARG:HB2	2.54	0.43
42:BM:116:LYS:O	42:BM:118:LYS:N	2.51	0.43
42:BM:49:PRO:HB2	42:BM:82:ALA:HA	2.00	0.43
44:BO:87:THR:HA	44:BO:91:ARG:HH12	1.77	0.43
34:BA:363:A:P	45:BP:33:ARG:HH21	2.41	0.43
45:BP:78:GLN:N	45:BP:81:SER:OG	2.51	0.43
45:BP:34:ARG:CA	45:BP:84:LEU:HD12	2.48	0.43
34:BA:880:C:P	45:BP:9:GLN:NE2	2.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:15:VAL:C	46:BQ:34:LEU:CD2	2.85	0.43
49:BT:66:PRO:HG2	49:BT:71:ARG:NH1	2.32	0.43
52:BW:46:GLY:C	52:BW:61:TYR:HE2	2.22	0.43
53:BX:31:SER:O	53:BX:34:LYS:HB2	2.17	0.43
53:BX:54:LYS:HA	53:BX:57:ARG:CD	2.49	0.43
53:BX:84:LEU:C	53:BX:84:LEU:HD13	2.39	0.43
57:BZ:230:LYS:HB2	57:BZ:231:VAL:CB	2.48	0.43
57:BZ:377:GLY:O	57:BZ:378:PHE:CG	2.71	0.43
57:BZ:404:THR:HB	57:BZ:438:ARG:HA	1.23	0.43
57:BZ:397:GLN:HG2	57:BZ:473:ASP:CA	2.48	0.43
57:BZ:18:LYS:HD2	60:BZ:701:GCP:PG	2.58	0.43
56:BD:65:G:C6	56:BD:66:U:C4	3.06	0.43
55:BC:29:G:H1	55:BC:41:C:H42	1.65	0.43
34:BA:1018:C:C4	34:BA:1019:C:C5	3.06	0.43
53:BX:8:ARG:NH1	53:BX:8:ARG:CB	2.81	0.43
34:BA:1533:C:C5	34:BA:1534:A:N7	2.86	0.43
1:AA:1051:G:H2'	1:AA:1052:C:H5''	2.00	0.43
1:AA:1083:U:C2'	1:AA:1084:A:C5'	2.95	0.43
1:AA:1124:C:H2'	1:AA:1125:G:O4'	2.18	0.43
1:AA:1129:A:C5	1:AA:2570:G:H1'	2.53	0.43
1:AA:1006:C:C2	1:AA:1137:G:N2	2.87	0.43
1:AA:1440:G:C5	1:AA:1441:G:N7	2.86	0.43
1:AA:1476:C:N4	1:AA:1477:A:N1	2.67	0.43
1:AA:1448:G:N2	1:AA:1529:A:H2	2.16	0.43
1:AA:1608:A:C2	1:AA:1611:C:C6	3.06	0.43
1:AA:1635:G:C5'	1:AA:1635:G:C8	3.02	0.43
1:AA:1635:G:N3	1:AA:1636:C:C6	2.87	0.43
1:AA:1806:C:H2'	1:AA:1807:G:C5'	2.47	0.43
1:AA:1949:G:N7	1:AA:1950:G:C8	2.86	0.43
1:AA:1952:A:C6	1:AA:1953:A:N1	2.86	0.43
1:AA:1944:U:O2'	1:AA:1955:U:H1'	2.18	0.43
1:AA:1992:G:N7	1:AA:1997:G:N1	2.66	0.43
1:AA:2004:G:N7	1:AA:2005:A:C5	2.86	0.43
1:AA:1131:G:O6	1:AA:2025:C:H1'	2.18	0.43
1:AA:2026:C:C2'	1:AA:2027:G:C5'	2.96	0.43
1:AA:219:G:O5'	1:AA:219:G:C8	2.59	0.43
1:AA:2205:C:H2'	1:AA:2206:C:C6	2.52	0.43
1:AA:2341:G:H2'	1:AA:2342:C:H6	1.72	0.43
1:AA:2431:U:O2	1:AA:2433:A:N3	2.51	0.43
1:AA:2526:G:C6	1:AA:2527:C:C5	3.05	0.43
1:AA:2556:C:HO2'	1:AA:2557:G:H5'	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2595:G:C2	1:AA:2599:G:C6	3.06	0.43
1:AA:2773:C:O2'	1:AA:2774:C:O5'	2.31	0.43
1:AA:2786:U:O2'	5:AE:64:LYS:HB2	2.18	0.43
1:AA:2788:C:H42	1:AA:2789:C:H42	1.50	0.43
1:AA:2848:G:N2	1:AA:2849:U:C2	2.85	0.43
1:AA:2897:U:H2'	1:AA:2898:U:H6	1.82	0.43
1:AA:300:A:H8	1:AA:300:A:H3'	1.84	0.43
1:AA:447:A:O2'	1:AA:448:U:C5'	2.66	0.43
1:AA:535:C:O2'	16:AR:53:ARG:HD2	2.18	0.43
1:AA:548:A:N6	1:AA:549:G:N3	2.66	0.43
1:AA:55:G:H2'	1:AA:56:A:C8	2.53	0.43
1:AA:713:G:C2'	1:AA:713:G:N3	2.78	0.43
1:AA:716:A:C2	48:BS:44:LYS:CB	2.99	0.43
1:AA:727:A:N6	1:AA:729:G:C6	2.86	0.43
1:AA:838:C:N1	1:AA:941:A:N6	2.66	0.43
1:AA:915:C:C2'	1:AA:916:G:H8	2.28	0.43
3:AC:114:VAL:HG23	3:AC:114:VAL:O	2.17	0.43
3:AC:19:ILE:O	3:AC:19:ILE:CG2	2.66	0.43
4:AD:133:LEU:CA	4:AD:136:ILE:HG13	2.49	0.43
1:AA:1820:U:C5	4:AD:159:ALA:C	2.89	0.43
4:AD:196:VAL:HG13	4:AD:197:GLY:H	1.70	0.43
4:AD:258:LYS:CA	4:AD:261:LYS:HD2	2.49	0.43
4:AD:63:ARG:HB2	4:AD:87:ASN:OD1	2.19	0.43
5:AE:27:LEU:HD13	5:AE:76:ARG:HH12	1.81	0.43
5:AE:37:ARG:N	5:AE:40:GLU:HB2	2.33	0.43
5:AE:6:GLY:O	5:AE:26:ILE:CG2	2.66	0.43
6:AF:194:MET:HE2	6:AF:195:ASP:N	2.33	0.43
7:AG:64:THR:HB	7:AG:102:PHE:CE1	2.53	0.43
7:AG:99:MET:O	7:AG:102:PHE:HB2	2.18	0.43
8:AH:153:LYS:HD3	8:AH:154:PRO:HD3	2.00	0.43
8:AH:26:VAL:C	8:AH:79:VAL:HG11	2.39	0.43
32:AJ:12:LEU:HD22	32:AJ:22:PRO:HB2	2.00	0.43
32:AJ:81:ALA:O	32:AJ:99:ILE:HG22	2.16	0.43
1:AA:558:G:C5'	9:AK:109:LYS:HG2	2.47	0.43
9:AK:123:TYR:HB2	9:AK:129:PRO:HG3	2.00	0.43
9:AK:89:LYS:O	9:AK:92:ALA:HB3	2.17	0.43
10:AL:10:VAL:HG13	10:AL:14:THR:CG2	2.48	0.43
10:AL:38:VAL:HG12	10:AL:59:LYS:O	2.17	0.43
11:AM:106:LEU:O	11:AM:107:LYS:HB3	2.18	0.43
1:AA:1190:G:OP2	11:AM:29:LYS:HD3	2.17	0.43
11:AM:6:LEU:CD2	11:AM:6:LEU:O	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:64:ILE:CG2	12:AN:106:VAL:O	2.65	0.43
12:AN:42:ILE:HD11	12:AN:46:GLN:HE21	1.82	0.43
1:AA:2690:C:C4	13:AO:14:SER:HB2	2.53	0.43
13:AO:36:THR:OG1	13:AO:40:LYS:HB3	2.17	0.43
14:AP:11:LYS:N	14:AP:11:LYS:HD2	2.33	0.43
14:AP:16:ASN:O	14:AP:17:ARG:C	2.57	0.43
14:AP:52:SER:OG	14:AP:69:VAL:HG11	2.18	0.43
14:AP:73:LEU:CA	14:AP:76:LYS:HD2	2.44	0.43
15:AQ:25:GLY:O	15:AQ:100:TYR:OH	2.36	0.43
10:AL:75:SER:O	15:AQ:77:PRO:HG2	2.18	0.43
15:AQ:92:GLY:HA2	15:AQ:93:ARG:NE	2.33	0.43
16:AR:31:SER:O	16:AR:33:ARG:N	2.51	0.43
16:AR:3:ARG:O	16:AR:4:ALA:CB	2.67	0.43
16:AR:39:LEU:C	16:AR:41:ALA:N	2.68	0.43
16:AR:70:ARG:C	16:AR:72:HIS:N	2.67	0.43
18:AT:5:ALA:CB	18:AT:105:VAL:HG13	2.49	0.43
18:AT:45:TYR:O	18:AT:46:PHE:C	2.55	0.43
18:AT:24:ILE:HD11	18:AT:47:VAL:HG11	2.00	0.43
19:AU:18:TYR:HD1	19:AU:21:PHE:HE1	1.66	0.43
19:AU:71:GLY:C	19:AU:72:LYS:HG3	2.38	0.43
20:AV:35:TYR:O	20:AV:64:GLU:CA	2.66	0.43
20:AV:12:THR:CA	20:AV:73:ARG:CZ	2.95	0.43
21:AW:157:LEU:HD22	21:AW:161:VAL:HG13	2.00	0.43
21:AW:47:VAL:O	21:AW:50:GLN:N	2.50	0.43
34:BA:1048:G:HO2'	34:BA:1050:G:P	2.37	0.43
34:BA:1171:G:O2'	34:BA:1172:C:H6	1.99	0.43
34:BA:1068:G:N2	34:BA:1191:A:C2	2.84	0.43
34:BA:1318:A:C8	52:BW:37:ARG:HG3	2.53	0.43
34:BA:1362:C:O2'	34:BA:1362(A):C:C6	2.71	0.43
34:BA:1396:A:H2'	34:BA:1397:C:OP2	2.17	0.43
34:BA:1466:C:H2'	34:BA:1467:G:C1'	2.48	0.43
34:BA:129(A):G:C8	34:BA:189:U:OP1	2.72	0.43
34:BA:217:C:C4	34:BA:218:C:C5	3.07	0.43
34:BA:118:U:C4	34:BA:288:A:H2'	2.52	0.43
34:BA:314:C:H2'	34:BA:315:A:C8	2.53	0.43
34:BA:321:A:C4	34:BA:322:C:C5	3.06	0.43
34:BA:323:U:C6	34:BA:323:U:C3'	3.01	0.43
34:BA:332:G:N3	34:BA:333:G:C8	2.87	0.43
34:BA:380:G:C6	34:BA:384:G:O6	2.71	0.43
34:BA:429:U:C1'	34:BA:430:A:H5''	2.48	0.43
34:BA:411:A:N7	34:BA:429:U:C5	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:503:C:C4	34:BA:504:C:C5	3.07	0.43
34:BA:520:A:H8	34:BA:520:A:H3'	1.82	0.43
34:BA:604:G:N2	34:BA:605:U:H1'	2.33	0.43
34:BA:629:G:C4	34:BA:630:G:C8	3.06	0.43
34:BA:593:G:N1	34:BA:647:C:C2	2.86	0.43
34:BA:658:G:C6	34:BA:659:U:C4	3.07	0.43
34:BA:723:U:O5'	34:BA:723:U:N1	2.51	0.43
34:BA:761:G:C5	34:BA:762:C:C5	3.05	0.43
34:BA:830:G:C5	34:BA:831:U:C5	3.06	0.43
34:BA:830:G:C2	34:BA:857:C:C2	3.07	0.43
34:BA:865:A:C8	34:BA:865:A:OP2	2.70	0.43
34:BA:874:G:N2	34:BA:875:C:N1	2.66	0.43
34:BA:894:G:C6	34:BA:895:G:C5	3.06	0.43
34:BA:973:G:C2	34:BA:974:A:N7	2.86	0.43
34:BA:973:G:H3'	34:BA:974:A:H5''	2.01	0.43
34:BA:994:A:OP1	34:BA:995:C:H5	2.01	0.43
1:AA:1852:C:OP1	55:BC:72:C:C5'	2.66	0.43
56:BD:55:U:H2'	56:BD:56:C:H3'	2.01	0.43
56:BE:15:G:H2'	56:BE:16:U:H5''	1.95	0.43
56:BE:16:U:C4	56:BE:59:U:C2	2.97	0.43
34:BA:1104:G:H4'	35:BF:111:ARG:HH21	1.83	0.43
35:BF:139:LYS:CG	35:BF:140:HIS:H	2.23	0.43
35:BF:186:ALA:O	35:BF:201:ILE:CB	2.57	0.43
35:BF:84:GLU:HG2	35:BF:234:PRO:CG	2.47	0.43
36:BG:187:ALA:HB3	36:BG:198:VAL:HG21	1.98	0.43
37:BH:155:LEU:O	37:BH:158:ILE:HB	2.18	0.43
37:BH:15:GLU:HG2	37:BH:63:LYS:HB2	1.99	0.43
37:BH:56:VAL:CG1	37:BH:57:ARG:N	2.76	0.43
37:BH:54:TYR:C	37:BH:56:VAL:N	2.67	0.43
37:BH:63:LYS:HA	37:BH:66:ARG:CD	2.44	0.43
38:BI:131:ILE:HG22	38:BI:132:ALA:N	2.33	0.43
38:BI:79:GLU:HG3	38:BI:93:PRO:HD3	2.00	0.43
39:BJ:45:LEU:HD23	39:BJ:59:TYR:HA	2.00	0.43
39:BJ:67:MET:C	39:BJ:67:MET:SD	2.96	0.43
40:BK:145:ALA:O	40:BK:146:GLU:CB	2.49	0.43
40:BK:49:ILE:HG12	40:BK:121:ALA:CB	2.47	0.43
40:BK:77:SER:HA	40:BK:85:TYR:O	2.17	0.43
41:BL:15:ASN:O	41:BL:16:ALA:C	2.55	0.43
34:BA:824:C:H4'	41:BL:1:MET:HA	1.99	0.43
41:BL:26:VAL:CG2	41:BL:27:PRO:CD	2.87	0.43
41:BL:44:PHE:O	41:BL:64:LYS:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:5:ARG:CG	43:BN:5:ARG:HH11	2.30	0.43
43:BN:30:SER:CA	43:BN:80:LYS:HG3	2.48	0.43
44:BO:84:VAL:HG21	51:BV:88:LYS:CE	2.48	0.43
45:BP:41:ARG:HG2	45:BP:42:THR:HG22	2.00	0.43
46:BQ:81:LEU:CB	46:BQ:86:CYS:SG	2.94	0.43
47:BR:13:THR:O	47:BR:13:THR:HG22	2.17	0.43
48:BS:27:VAL:HG12	48:BS:31:LEU:CD2	2.47	0.43
49:BT:10:GLY:CA	49:BT:14:ASN:ND2	2.81	0.43
49:BT:67:THR:CB	49:BT:70:ALA:HB2	2.43	0.43
50:BU:19:VAL:HG21	50:BU:73:VAL:HG21	2.01	0.43
34:BA:279:A:C2	50:BU:98:LEU:HG	2.47	0.43
51:BV:38:GLU:N	51:BV:38:GLU:CD	2.64	0.43
51:BV:43:PHE:O	51:BV:51:LEU:CD1	2.52	0.43
51:BV:59:SER:O	51:BV:62:GLU:N	2.51	0.43
34:BA:674:G:H4'	51:BV:81:PHE:HZ	1.82	0.43
52:BW:10:PHE:C	52:BW:11:VAL:CG2	2.87	0.43
52:BW:63:THR:O	52:BW:64:GLU:C	2.56	0.43
52:BW:70:LYS:O	52:BW:71:LEU:C	2.57	0.43
57:BZ:12:ALA:O	57:BZ:109:THR:CG2	2.48	0.43
57:BZ:146:ASP:O	57:BZ:150:ASN:ND2	2.51	0.43
57:BZ:202:ASP:HB2	57:BZ:203:GLY:H	1.68	0.43
57:BZ:213:ASP:CG	57:BZ:221:ILE:HB	2.38	0.43
57:BZ:205:PHE:CD1	57:BZ:229:GLY:C	2.71	0.43
57:BZ:288:VAL:C	57:BZ:289:CYS:SG	2.97	0.43
57:BZ:81:PHE:HE2	57:BZ:342:ASN:ND2	2.12	0.43
57:BZ:338:GLU:HG3	57:BZ:345:LEU:CD2	2.48	0.43
57:BZ:403:VAL:HB	57:BZ:465:LEU:CB	2.42	0.43
55:BC:2:C:N4	55:BC:71:G:H1	2.12	0.43
45:BP:125:PRO:C	45:BP:127:GLU:H	2.20	0.43
32:AJ:113:PRO:HG2	32:AJ:114:ASP:H	1.83	0.43
1:AA:1027:A:HO2'	1:AA:1028:A:H8	1.66	0.43
1:AA:1057:A:H62	1:AA:1086:A:C2'	2.29	0.43
1:AA:1068:G:H1'	1:AA:1069:A:C6	2.53	0.43
1:AA:1090:U:C4	1:AA:1103:A:N1	2.86	0.43
1:AA:1119:C:O2	1:AA:1119:C:C2'	2.64	0.43
1:AA:1163:G:N3	1:AA:1164:G:C8	2.86	0.43
1:AA:1279:G:C6	1:AA:1280:G:C6	3.06	0.43
1:AA:1317:A:C6	1:AA:1318:C:C4	3.06	0.43
1:AA:1334:G:H2'	1:AA:1335:U:H6	1.82	0.43
1:AA:1342:A:C2	1:AA:1397:U:C6	3.06	0.43
1:AA:1491:G:N2	1:AA:1493:C:H41	2.13	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1527:G:N7	1:AA:1541:U:O4	2.52	0.43
1:AA:1651:G:HO2'	1:AA:1652:A:C1'	2.31	0.43
1:AA:1654:A:C6	1:AA:1655:A:N7	2.87	0.43
1:AA:1656:C:H2'	1:AA:1656:C:O2	2.19	0.43
1:AA:1703:G:C2'	1:AA:1704:G:C5'	2.97	0.43
1:AA:1727:U:O2'	1:AA:1728:G:P	2.77	0.43
1:AA:1731:G:O2'	1:AA:1732:A:C5'	2.66	0.43
1:AA:1743:G:H2'	1:AA:1746:G:O4'	2.18	0.43
1:AA:1769:G:C2	1:AA:1984:G:C5	3.06	0.43
1:AA:1919:A:O5'	1:AA:1919:A:C8	2.71	0.43
1:AA:2043:C:H2'	1:AA:2044:C:O5'	2.19	0.43
1:AA:2075:U:H1'	1:AA:2597:G:N2	2.33	0.43
1:AA:215:G:H1'	1:AA:216:A:H5''	2.00	0.43
1:AA:2227:A:H2'	1:AA:2228:G:O5'	2.16	0.43
1:AA:2292:C:H2'	1:AA:2293:C:H6	1.84	0.43
1:AA:2358:G:C8	1:AA:2358:G:OP1	2.71	0.43
1:AA:2373:G:C4	1:AA:2374:C:C4	3.06	0.43
1:AA:2414:G:C6	1:AA:2415:G:N7	2.86	0.43
1:AA:2485:G:H4'	12:AN:125:LEU:O	2.19	0.43
1:AA:2532:G:C5	1:AA:2533:A:C5	3.06	0.43
1:AA:2564:A:C2	1:AA:2647:U:C5'	3.02	0.43
1:AA:2564:A:C6	1:AA:2565:A:N6	2.87	0.43
1:AA:2607:G:N3	1:AA:2608:G:O4'	2.51	0.43
1:AA:2611:U:C5'	1:AA:2611:U:H6	2.26	0.43
1:AA:270(X):G:C2	1:AA:270(Y):G:C1'	3.01	0.43
1:AA:270(Z):U:O2	1:AA:270(Z):U:C2'	2.56	0.43
1:AA:2782:G:H2'	1:AA:2783:G:C8	2.53	0.43
1:AA:2804:C:C4	1:AA:2805:G:O6	2.70	0.43
1:AA:2876:G:C2	1:AA:2877:G:C8	3.07	0.43
1:AA:295:G:H3'	1:AA:338:G:N1	2.31	0.43
1:AA:30:G:N7	1:AA:31:C:C5	2.86	0.43
1:AA:457:A:H1'	1:AA:459:U:C4	2.53	0.43
1:AA:565:C:OP2	17:AS:82:ARG:HA	2.18	0.43
1:AA:625:G:N1	1:AA:626:U:H1'	2.32	0.43
1:AA:689:A:H2'	1:AA:690:G:H5''	1.99	0.43
1:AA:713:G:N2	1:AA:714:U:C6	2.86	0.43
1:AA:705:A:C6	1:AA:727:A:H1'	2.54	0.43
1:AA:771:G:H2'	1:AA:772:C:H6	1.83	0.43
1:AA:669:G:C4	1:AA:801:G:N1	2.86	0.43
1:AA:813:U:C2	1:AA:814:C:C6	3.07	0.43
1:AA:849:A:C4	1:AA:850:C:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:855:G:C6	1:AA:856:C:C4	3.07	0.43
1:AA:865:C:O2'	1:AA:866:A:C8	2.62	0.43
1:AA:878:A:O4'	1:AA:899:A:C6	2.71	0.43
1:AA:902:C:H3'	1:AA:903:C:C5	2.53	0.43
1:AA:922:U:N3	1:AA:923:C:N4	2.66	0.43
1:AA:943:U:H2'	1:AA:944:G:OP1	2.18	0.43
2:AB:82:G:C2'	2:AB:83:G:OP2	2.67	0.43
3:AC:132:GLY:C	3:AC:134:ARG:H	2.21	0.43
3:AC:120:MET:CE	3:AC:145:VAL:HG22	2.49	0.43
3:AC:190:ARG:O	3:AC:191:ALA:C	2.57	0.43
3:AC:56:GLN:HG2	3:AC:201:PRO:HG2	2.00	0.43
4:AD:137:PRO:HG2	4:AD:140:THR:HG21	1.99	0.43
4:AD:173:VAL:O	4:AD:184:LYS:CG	2.65	0.43
1:AA:1820:U:C1'	4:AD:202:LYS:HG2	2.48	0.43
4:AD:61:LEU:CD1	4:AD:86:PRO:CD	2.95	0.43
5:AE:34:VAL:HG11	5:AE:36:ARG:CZ	2.49	0.43
5:AE:49:LEU:CB	5:AE:76:ARG:O	2.66	0.43
6:AF:29:ASN:HA	6:AF:30:PRO:HD2	2.65	0.43
6:AF:52:LYS:HZ2	6:AF:88:VAL:HG21	1.83	0.43
7:AG:62:LEU:HB3	7:AG:143:GLU:HG3	2.01	0.43
7:AG:37:VAL:HG13	7:AG:158:ALA:O	2.17	0.43
32:AJ:40:ALA:C	32:AJ:66:THR:CG2	2.72	0.43
9:AK:4:TYR:CZ	16:AR:101:ARG:NH1	2.86	0.43
9:AK:67:LEU:O	9:AK:68:GLU:CG	2.67	0.43
9:AK:70:LYS:N	9:AK:70:LYS:HD3	2.33	0.43
9:AK:95:PRO:HG2	9:AK:96:GLU:N	2.33	0.43
10:AL:23:ARG:HH12	10:AL:30:ALA:HB2	1.83	0.43
10:AL:42:SER:OG	10:AL:43:VAL:N	2.51	0.43
12:AN:79:LEU:O	12:AN:80:GLU:HB3	2.18	0.43
13:AO:105:ARG:CG	13:AO:106:GLY:H	2.27	0.43
13:AO:54:LEU:O	13:AO:55:ALA:C	2.56	0.43
13:AO:5:LYS:NZ	13:AO:6:SER:CA	2.82	0.43
14:AP:43:GLU:O	14:AP:44:LYS:C	2.56	0.43
14:AP:77:ALA:O	14:AP:80:LEU:N	2.52	0.43
14:AP:32:LEU:HG	14:AP:97:ARG:HH12	1.83	0.43
15:AQ:105:LEU:HG	15:AQ:106:SER:H	1.82	0.43
15:AQ:110:ILE:O	15:AQ:111:ARG:C	2.57	0.43
15:AQ:48:ILE:HG21	15:AQ:50:ILE:HD11	1.99	0.43
15:AQ:65:LYS:CA	15:AQ:76:PHE:O	2.63	0.43
16:AR:59:ARG:C	16:AR:62:ILE:HB	2.36	0.43
17:AS:15:GLU:O	17:AS:100:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AT:17:VAL:HG23	18:AT:18:ARG:N	2.33	0.43
18:AT:70:TYR:CD1	18:AT:70:TYR:C	2.92	0.43
19:AU:31:HIS:HE1	19:AU:33:LYS:HD2	1.83	0.43
12:AN:137:TYR:HH	21:AW:124:ILE:HD11	1.77	0.43
21:AW:69:THR:HG1	21:AW:70:LEU:H	1.66	0.43
22:AX:70:GLN:OE1	22:AX:80:HIS:CD2	2.71	0.43
22:AX:72:ARG:O	22:AX:75:LEU:HD13	2.17	0.43
24:AZ:55:ARG:NH2	24:AZ:55:ARG:CG	2.81	0.43
34:BA:1227:A:C8	34:BA:1228:C:C6	3.06	0.43
34:BA:951:G:C5	34:BA:1231:G:C6	3.07	0.43
34:BA:1272:G:C4	34:BA:1273:G:C8	3.07	0.43
34:BA:1320:C:O3'	52:BW:73:GLU:CB	2.52	0.43
34:BA:1392:G:H2'	34:BA:1393:U:O4'	2.18	0.43
34:BA:1424:C:C2'	34:BA:1425:U:O5'	2.66	0.43
34:BA:1434:A:N7	34:BA:1435:G:N7	2.66	0.43
34:BA:1441:G:O5'	34:BA:1441:G:H8	2.01	0.43
34:BA:1484:C:N3	34:BA:1485:U:C5	2.87	0.43
34:BA:887:G:H21	34:BA:1489:G:H4'	1.84	0.43
34:BA:1499:A:O2'	34:BA:1500:A:H5'	2.17	0.43
34:BA:247:G:N1	34:BA:278:G:C2	2.86	0.43
34:BA:270:A:C4	34:BA:271:C:C5	3.06	0.43
34:BA:310:G:H2'	34:BA:311:C:C5	2.49	0.43
34:BA:65:U:C6	34:BA:381:C:C5	3.07	0.43
34:BA:416:G:C2	34:BA:417:C:C2	3.05	0.43
34:BA:44:G:C6	34:BA:399:G:C6	3.06	0.43
34:BA:525:C:H6	34:BA:525:C:O5'	2.02	0.43
34:BA:547:A:H4'	34:BA:548:G:OP1	2.17	0.43
34:BA:763:G:C2	34:BA:764:C:C6	3.07	0.43
34:BA:892:A:H2'	34:BA:893:C:C6	2.53	0.43
34:BA:896:C:C2	34:BA:897:C:C6	3.06	0.43
34:BA:950:U:H2'	34:BA:951:G:H5'	2.00	0.43
56:BD:55:U:O2	56:BD:55:U:H3'	2.19	0.43
56:BE:74:C:P	56:BE:74:C:C6	3.12	0.43
35:BF:152:PHE:HZ	35:BF:155:LEU:O	2.01	0.43
35:BF:164:VAL:HG22	35:BF:165:VAL:H	1.82	0.43
35:BF:32:ILE:HD11	35:BF:40:HIS:CD2	2.40	0.43
35:BF:54:THR:CG2	35:BF:199:TYR:HB3	2.48	0.43
36:BG:117:ALA:O	36:BG:121:ALA:HB2	2.18	0.43
36:BG:138:VAL:O	36:BG:170:GLN:NE2	2.51	0.43
37:BH:13:ARG:NH1	37:BH:36:ARG:HD3	2.34	0.43
37:BH:166:LYS:CD	37:BH:178:VAL:HG12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:179:GLU:C	37:BH:181:MET:N	2.72	0.43
37:BH:25:ARG:HB3	37:BH:25:ARG:NH1	2.34	0.43
37:BH:91:SER:O	37:BH:94:LEU:N	2.51	0.43
38:BI:82:VAL:HG11	38:BI:134:ALA:C	2.39	0.43
38:BI:56:GLN:CA	38:BI:56:GLN:HE21	2.30	0.43
40:BK:139:GLU:O	40:BK:142:GLU:HB2	2.18	0.43
40:BK:75:VAL:HG22	40:BK:88:PRO:HA	1.95	0.43
41:BL:19:VAL:O	41:BL:19:VAL:HG12	2.18	0.43
41:BL:45:ILE:HD12	41:BL:61:VAL:HG22	2.01	0.43
41:BL:72:PRO:O	41:BL:73:ASP:CB	2.66	0.43
42:BM:98:PRO:O	42:BM:100:GLY:N	2.51	0.43
34:BA:1369:C:OP2	42:BM:111:ARG:HA	2.18	0.43
42:BM:27:THR:CG2	42:BM:30:GLY:H	2.32	0.43
42:BM:70:LYS:O	42:BM:71:SER:C	2.56	0.43
44:BO:80:VAL:N	44:BO:104:GLN:HE21	2.17	0.43
44:BO:32:ILE:O	44:BO:39:PRO:CB	2.66	0.43
47:BR:26:ARG:HE	47:BR:43:CYS:CB	2.31	0.43
48:BS:60:VAL:O	48:BS:63:ARG:CG	2.49	0.43
48:BS:71:GLN:HA	48:BS:75:PRO:HB3	1.98	0.43
49:BT:19:ILE:CG2	49:BT:36:ILE:O	2.67	0.43
50:BU:81:ARG:CG	50:BU:84:LEU:HD11	2.47	0.43
50:BU:86:GLU:O	50:BU:87:LYS:C	2.56	0.43
39:BJ:98:LEU:HD23	51:BV:28:GLU:HA	1.99	0.43
51:BV:81:PHE:O	51:BV:82:THR:CG2	2.67	0.43
52:BW:18:LYS:O	52:BW:22:LEU:HB3	2.18	0.43
52:BW:28:LYS:O	52:BW:29:ARG:HB2	2.18	0.43
52:BW:34:TRP:HE1	52:BW:52:TYR:HE2	1.62	0.43
52:BW:5:LEU:CD2	52:BW:6:LYS:N	2.74	0.43
52:BW:7:LYS:O	52:BW:7:LYS:NZ	2.52	0.43
53:BX:13:LEU:HD13	53:BX:17:ARG:HH22	1.83	0.43
54:BY:12:LYS:O	54:BY:13:ILE:C	2.56	0.43
57:BZ:233:PRO:HB3	57:BZ:248:ASN:HB3	1.96	0.43
57:BZ:362:GLY:O	57:BZ:365:HIS:HB3	2.18	0.43
57:BZ:379:GLU:CG	57:BZ:581:THR:HB	2.35	0.43
57:BZ:468:THR:OG1	57:BZ:469:PHE:CD1	2.72	0.43
57:BZ:18:LYS:N	60:BZ:701:GCP:O2B	2.49	0.43
1:AA:1914:C:C4	1:AA:1915:U:O4	2.72	0.43
1:AA:2110:G:C2'	1:AA:2120:G:C5'	2.93	0.43
1:AA:1047:G:N9	1:AA:1110:G:N7	2.57	0.43
1:AA:1020:A:N3	1:AA:1140:C:C2	2.87	0.43
1:AA:1155:A:P	1:AA:1155:A:H3'	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:585:G:O6	1:AA:1251:C:C6	2.71	0.43
1:AA:1326:U:C2	1:AA:1327:C:O4'	2.71	0.43
1:AA:1356:G:C4	1:AA:1357:U:C6	3.06	0.43
1:AA:1362:C:C4	1:AA:1363:C:C5	3.07	0.43
1:AA:1373:A:H2'	1:AA:1374:G:H8	1.79	0.43
1:AA:1419:A:OP2	1:AA:1419:A:C4'	2.66	0.43
1:AA:1442:G:N1	1:AA:1443:G:C6	2.86	0.43
1:AA:144:C:C2	1:AA:145:G:C8	3.06	0.43
1:AA:1473:G:O2'	1:AA:1474:C:O4'	2.35	0.43
1:AA:1540:G:C3'	1:AA:1541:U:C5'	2.96	0.43
1:AA:1655:A:H3'	1:AA:1656:C:C6	2.51	0.43
1:AA:1742:C:H6	1:AA:1742:C:OP2	2.01	0.43
1:AA:1795:C:O5'	1:AA:1795:C:H6	2.01	0.43
1:AA:1796:U:O2'	1:AA:1797:C:O5'	2.36	0.43
1:AA:1920:C:C5	58:AA:3001:NMY:C4	3.01	0.43
1:AA:2025:C:C4	1:AA:2026:C:N4	2.87	0.43
1:AA:2047:U:C2	1:AA:2048:G:C8	3.07	0.43
1:AA:2069:G:C2	1:AA:2443:C:C4	3.07	0.43
1:AA:2084:C:C2	1:AA:2085:C:C5	3.05	0.43
1:AA:2114:A:C8	1:AA:2114:A:OP2	2.71	0.43
1:AA:2153:G:O2'	1:AA:2154:G:H5'	2.18	0.43
1:AA:2169:A:O2'	55:BC:56:C:H5'	2.18	0.43
1:AA:2226:C:N3	1:AA:2227:A:N3	2.67	0.43
1:AA:2268:A:C3'	1:AA:2269:A:H5''	2.48	0.43
1:AA:2373:G:H2'	1:AA:2374:C:H5	1.82	0.43
1:AA:1864:U:OP1	1:AA:2410:G:O2'	2.36	0.43
1:AA:2556:C:H2'	1:AA:2557:G:C5'	2.49	0.43
1:AA:2563:U:O2	1:AA:2565:A:O5'	2.36	0.43
1:AA:10:G:N1	1:AA:2629:A:N3	2.66	0.43
1:AA:2646:C:C4	1:AA:2647:U:N3	2.85	0.43
1:AA:2670:A:C5	1:AA:2671:A:N7	2.84	0.43
1:AA:2694:G:C2	1:AA:2716:U:C2	3.06	0.43
1:AA:2705:A:C2'	1:AA:2706:G:O5'	2.66	0.43
1:AA:2720:U:C2'	1:AA:2721:A:C8	2.97	0.43
1:AA:2737:G:C2	1:AA:2738:A:N7	2.86	0.43
1:AA:2737:G:C5	1:AA:2738:A:N7	2.87	0.43
1:AA:2774:C:O2	1:AA:2774:C:H2'	2.17	0.43
1:AA:2850:A:H2'	1:AA:2851:A:O5'	2.18	0.43
1:AA:2863:C:C2	1:AA:2864:G:C8	3.06	0.43
1:AA:300:A:C5	1:AA:334:C:H4'	2.54	0.43
1:AA:285:C:N3	1:AA:357:A:N1	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:35:G:H21	1:AA:450:G:N2	2.16	0.43
1:AA:391:G:H5'	1:AA:412:A:H4'	2.01	0.43
1:AA:398:G:N2	1:AA:399:G:H1'	2.32	0.43
1:AA:449:A:C2	1:AA:450:G:N7	2.86	0.43
1:AA:489:G:C2	1:AA:491:G:C4	3.07	0.43
1:AA:567:A:N1	1:AA:568:U:C2	2.86	0.43
1:AA:574:C:N1	1:AA:2055:C:C5	2.73	0.43
1:AA:594:U:C2	1:AA:595:C:C5	3.07	0.43
1:AA:602:G:H21	1:AA:655:A:H2'	1.84	0.43
1:AA:769:G:N3	1:AA:770:G:C8	2.87	0.43
1:AA:685:A:C2	1:AA:774:A:N1	2.87	0.43
1:AA:862:G:H21	2:AB:99:A:H2	1.62	0.43
1:AA:945:A:H3'	1:AA:946:G:C5'	2.47	0.43
2:AB:40:U:H1'	2:AB:45:A:N6	2.23	0.43
2:AB:46:A:O5'	2:AB:46:A:H8	2.02	0.43
3:AC:103:ILE:CD1	3:AC:110:PHE:CZ	3.00	0.43
3:AC:79:LYS:HG3	3:AC:119:VAL:CG1	2.49	0.43
3:AC:7:TYR:O	3:AC:10:LEU:N	2.51	0.43
4:AD:117:VAL:C	4:AD:118:VAL:HG22	2.39	0.43
4:AD:23:GLU:HB3	4:AD:205:VAL:H	1.84	0.43
4:AD:9:TYR:CG	4:AD:25:THR:HG23	2.53	0.43
5:AE:97:LYS:HG3	5:AE:100:GLU:HG3	1.99	0.43
5:AE:33:VAL:CG2	5:AE:34:VAL:N	2.80	0.43
5:AE:59:VAL:HG12	5:AE:61:ARG:N	2.32	0.43
1:AA:2636:U:C4'	5:AE:79:ARG:NH2	2.80	0.43
6:AF:169:ASN:ND2	6:AF:171:PRO:HG2	2.33	0.43
6:AF:53:THR:O	6:AF:56:GLU:HG3	2.19	0.43
6:AF:62:ARG:HG3	6:AF:63:LYS:HD3	2.00	0.43
1:AA:674:G:O3'	6:AF:74:ARG:CZ	2.66	0.43
7:AG:111:LEU:HB3	7:AG:112:PRO:HD2	1.94	0.43
7:AG:2:PRO:HA	7:AG:5:VAL:HG21	2.00	0.43
1:AA:2311:A:C2	7:AG:45:GLU:OE1	2.71	0.43
7:AG:57:ALA:N	7:AG:68:PRO:CB	2.77	0.43
7:AG:68:PRO:CB	7:AG:72:ARG:NH1	2.79	0.43
8:AH:35:VAL:HG11	8:AH:75:ALA:HB2	2.01	0.43
8:AH:43:VAL:HG13	8:AH:44:VAL:H	1.82	0.43
1:AA:1111:A:H5''	8:AH:4:ILE:HG23	2.01	0.43
32:AJ:23:VAL:HG11	32:AJ:37:PHE:CG	2.54	0.43
9:AK:102:ALA:O	9:AK:105:GLY:N	2.50	0.43
9:AK:19:GLU:HG2	9:AK:20:GLY:N	2.33	0.43
9:AK:77:GLY:C	9:AK:78:TYR:O	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:86:PRO:O	9:AK:89:LYS:CE	2.57	0.43
9:AK:89:LYS:CA	9:AK:92:ALA:HB3	2.48	0.43
9:AK:93:THR:O	9:AK:94:HIS:CD2	2.68	0.43
10:AL:18:LYS:NZ	10:AL:44:LYS:CD	2.79	0.43
10:AL:12:ASP:OD2	10:AL:93:PRO:HG3	2.19	0.43
11:AM:23:PRO:HG2	11:AM:28:GLY:C	2.38	0.43
1:AA:389:G:C6	11:AM:64:LYS:HG2	2.54	0.43
12:AN:68:ILE:HA	12:AN:68:ILE:HD12	1.86	0.43
12:AN:85:LYS:CD	12:AN:86:GLY:H	2.30	0.43
14:AP:103:GLU:CD	14:AP:103:GLU:H	2.21	0.43
14:AP:58:LEU:C	14:AP:60:GLY:H	2.20	0.43
14:AP:58:LEU:C	14:AP:60:GLY:N	2.72	0.43
16:AR:47:TYR:O	16:AR:48:ALA:C	2.56	0.43
16:AR:53:ARG:CZ	16:AR:53:ARG:CB	2.97	0.43
17:AS:69:LYS:HE2	17:AS:70:ILE:CG1	2.48	0.43
18:AT:29:LEU:O	18:AT:30:GLU:C	2.55	0.43
18:AT:37:ARG:HG3	18:AT:38:TYR:HD1	1.84	0.43
18:AT:22:ASP:HA	18:AT:75:TYR:CE2	2.54	0.43
20:AV:31:LEU:O	20:AV:32:PRO:C	2.49	0.43
20:AV:35:TYR:O	20:AV:64:GLU:O	2.36	0.43
20:AV:49:VAL:CB	20:AV:51:VAL:H	2.29	0.43
20:AV:53:PRO:HG2	20:AV:56:PRO:HA	1.99	0.43
21:AW:118:GLN:HB3	21:AW:144:LEU:HD13	2.01	0.43
21:AW:55:HIS:HB3	21:AW:101:PRO:CD	2.47	0.43
22:AX:21:LEU:HD12	22:AX:39:ARG:CB	2.40	0.43
22:AX:44:ARG:HE	22:AX:77:ARG:NE	2.17	0.43
22:AX:44:ARG:HG2	22:AX:45:PHE:CE2	2.54	0.43
23:AY:19:LEU:HD11	23:AY:23:LYS:HD3	1.99	0.43
23:AY:50:ARG:HB2	23:AY:54:ARG:NH1	2.33	0.43
34:BA:1025:U:O2	34:BA:1026:G:O6	2.36	0.43
34:BA:102:G:C6	34:BA:103:C:C5	3.07	0.43
34:BA:113:G:C5	34:BA:114:U:C4	3.07	0.43
34:BA:1220:G:H22	52:BW:55:LYS:HG3	1.82	0.43
34:BA:1239:A:H8	34:BA:1241:G:H1'	1.82	0.43
34:BA:1338:G:N2	56:BE:29:G:N2	2.66	0.43
34:BA:1402:C:H2'	34:BA:1403:C:O5'	2.18	0.43
34:BA:1520:G:C2'	34:BA:1521:G:C8	2.95	0.43
34:BA:237:C:H5''	50:BU:25:ARG:NH2	2.31	0.43
34:BA:258:G:H2'	34:BA:259:G:C8	2.52	0.43
34:BA:279:A:OP2	50:BU:95:TYR:OH	2.32	0.43
34:BA:342:C:C2	34:BA:348:G:N2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:113:G:O4'	34:BA:354:G:H5''	2.17	0.43
34:BA:483:C:N4	34:BA:484:G:N1	2.66	0.43
34:BA:486:U:C2	34:BA:487:A:C8	3.06	0.43
34:BA:529:G:N1	45:BP:49:ASN:CB	2.77	0.43
34:BA:569:C:C1'	34:BA:574:A:C2	2.99	0.43
34:BA:643:C:N3	34:BA:644:G:C8	2.86	0.43
34:BA:712:A:C6	34:BA:713:G:C6	3.06	0.43
34:BA:581:G:O6	34:BA:758:G:C8	2.71	0.43
34:BA:812:C:O2	34:BA:813:U:C5	2.67	0.43
34:BA:830:G:N1	34:BA:857:C:C4	2.87	0.43
34:BA:838:G:C2	34:BA:849:C:C2	3.06	0.43
34:BA:878:G:O4'	41:BL:3:THR:CG2	2.66	0.43
34:BA:938:A:C2'	34:BA:939:G:O5'	2.66	0.43
34:BA:977:A:C4'	34:BA:982:U:O4	2.66	0.43
56:BE:22:G:H2'	56:BE:23:A:C8	2.54	0.43
35:BF:145:LEU:O	35:BF:149:LEU:HB3	2.14	0.43
35:BF:51:LEU:HD23	35:BF:51:LEU:N	2.32	0.43
35:BF:77:ALA:O	35:BF:80:ILE:HG22	2.19	0.43
35:BF:84:GLU:CD	35:BF:233:SER:HB3	2.38	0.43
36:BG:10:PHE:O	36:BG:178:LEU:HD22	2.17	0.43
36:BG:15:THR:O	36:BG:15:THR:HG23	2.18	0.43
37:BH:200:GLU:C	37:BH:204:ILE:HD12	2.38	0.43
37:BH:13:ARG:N	37:BH:32:ALA:HB2	2.34	0.43
37:BH:57:ARG:HH22	38:BI:107:ARG:HE	1.65	0.43
37:BH:60:GLU:OE2	37:BH:202:LEU:CD1	2.67	0.43
37:BH:80:GLU:O	37:BH:83:SER:CB	2.66	0.43
39:BJ:16:GLN:O	39:BJ:19:LEU:HB3	2.17	0.43
40:BK:129:GLU:HB2	40:BK:131:LYS:HE2	1.99	0.43
41:BL:9:MET:HE3	41:BL:13:ILE:HD11	2.01	0.43
41:BL:45:ILE:HD12	41:BL:61:VAL:CG2	2.48	0.43
41:BL:22:GLU:CB	41:BL:63:LEU:HD22	2.47	0.43
42:BM:6:GLY:HA3	42:BM:84:ALA:H	1.84	0.43
36:BG:23:TYR:CG	43:BN:11:PHE:HB2	2.53	0.43
43:BN:79:ARG:HA	43:BN:79:ARG:HH11	1.84	0.43
45:BP:82:VAL:CG1	45:BP:83:VAL:N	2.77	0.43
46:BQ:108:ARG:CD	46:BQ:108:ARG:N	2.74	0.43
46:BQ:19:LEU:HD13	46:BQ:29:ARG:O	2.19	0.43
48:BS:29:VAL:HG21	48:BS:81:LEU:CD1	2.39	0.43
34:BA:729:A:H62	48:BS:51:HIS:CD2	2.36	0.43
48:BS:77:ARG:C	48:BS:77:ARG:CZ	2.86	0.43
49:BT:26:ARG:HD3	49:BT:31:LYS:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:11:VAL:CG2	50:BU:32:TYR:HD1	2.32	0.43
50:BU:41:LYS:C	50:BU:42:TYR:CD1	2.91	0.43
50:BU:22:LEU:CD1	50:BU:41:LYS:HA	2.48	0.43
50:BU:65:ILE:O	50:BU:66:SER:HB3	2.18	0.43
51:BV:31:LEU:CD2	51:BV:65:ILE:HG13	2.48	0.43
34:BA:186(A):C:H4'	53:BX:85:MET:HG3	2.00	0.43
57:BZ:549:SER:CB	57:BZ:550:GLY:CA	2.92	0.43
57:BZ:588:ARG:NE	57:BZ:592:LEU:HD21	2.33	0.43
57:BZ:73:VAL:HG21	57:BZ:88:VAL:CB	2.47	0.43
57:BZ:495:LYS:C	57:BZ:516:ALA:O	2.53	0.43
34:BA:131:C:N4	34:BA:232:G:H1	2.16	0.43
1:AA:1416:G:N3	1:AA:1583:A:C6	2.86	0.43
1:AA:1887:C:O2'	1:AA:1888:G:H5'	2.19	0.43
1:AA:132:G:N3	1:AA:132:G:H2'	2.34	0.43
1:AA:1231:G:C5	1:AA:1232:G:N7	2.87	0.43
1:AA:1009:A:C2	1:AA:1010:A:C2	3.07	0.43
1:AA:1061:U:N3	32:AJ:11:GLN:NE2	2.64	0.43
1:AA:1134:G:C4	1:AA:1136:G:OP2	2.71	0.43
1:AA:1137:G:C2'	1:AA:1138:G:O5'	2.67	0.43
1:AA:1164:G:C4	1:AA:1165:U:C6	3.07	0.43
1:AA:1165:U:O2'	1:AA:1166:C:C6	2.68	0.43
1:AA:1183:G:C3'	1:AA:1183:G:P	3.06	0.43
1:AA:1444(A):A:OP2	1:AA:1444(A):A:C8	2.71	0.43
1:AA:1472:A:HO2'	1:AA:1473:G:H8	1.65	0.43
1:AA:1669:A:O3'	1:AA:2549:G:H5'	2.17	0.43
1:AA:1718:G:N7	1:AA:1725:G:N7	2.66	0.43
1:AA:1746:G:C4	1:AA:1747:G:C8	3.06	0.43
1:AA:1818:U:C4	4:AD:156:ALA:HB3	2.53	0.43
1:AA:1946:U:O2'	1:AA:1947:C:O5'	2.27	0.43
1:AA:2009:G:H1'	13:AO:107:ASP:CA	2.46	0.43
1:AA:2015:A:C8	1:AA:2016:U:C5	3.07	0.43
1:AA:2029:G:H2'	1:AA:2030:A:O3'	2.19	0.43
1:AA:2052:G:H1'	5:AE:150:VAL:CA	2.49	0.43
1:AA:204:A:H4'	1:AA:205:G:O5'	2.18	0.43
1:AA:2180:U:H2'	1:AA:2181:G:C8	2.52	0.43
1:AA:2216:G:C2'	1:AA:2217:G:H5'	2.49	0.43
1:AA:223:A:N6	1:AA:374:A:O2'	2.51	0.43
1:AA:224:G:N7	1:AA:420:C:H5'	2.33	0.43
1:AA:2289:G:C8	1:AA:2289:G:OP2	2.71	0.43
1:AA:2303:G:N1	1:AA:2304:G:C5	2.86	0.43
1:AA:2358:G:C6	1:AA:2359:C:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2460:U:H2'	1:AA:2461:C:C5	2.54	0.43
1:AA:2603:G:H2'	1:AA:2604:U:C5'	2.49	0.43
1:AA:2616:C:C2	1:AA:2617:C:C5	3.06	0.43
1:AA:2646:C:N3	1:AA:2647:U:C4	2.84	0.43
1:AA:2668:G:N2	1:AA:2669:G:N1	2.66	0.43
1:AA:2729:G:C5	1:AA:2730:C:C5	3.07	0.43
1:AA:2765:A:C2'	1:AA:2766:G:OP1	2.67	0.43
1:AA:2811:G:C6	1:AA:2891:G:C2	3.06	0.43
1:AA:2633:G:C4'	1:AA:2812:G:OP1	2.64	0.43
1:AA:2820:A:O3'	13:AO:4:LEU:CD2	2.63	0.43
1:AA:2887:U:O2'	1:AA:2888:C:H5'	2.17	0.43
1:AA:296:C:O2'	1:AA:297:C:H5'	2.19	0.43
1:AA:332:A:C2'	1:AA:334:C:OP2	2.66	0.43
1:AA:451:C:OP1	6:AF:50:SER:OG	2.36	0.43
1:AA:498:G:P	1:AA:498:G:H8	2.41	0.43
1:AA:529:A:OP1	1:AA:529:A:H4'	2.16	0.43
1:AA:531:C:O4'	1:AA:532:A:C2	2.72	0.43
1:AA:562:U:C5	1:AA:2036:C:O4'	2.71	0.43
1:AA:582:G:N2	1:AA:1259:G:C4	2.87	0.43
1:AA:602:G:H4'	1:AA:603:A:O2'	2.18	0.43
1:AA:610:C:H2'	1:AA:611:C:C5	2.54	0.43
1:AA:60:G:C8	1:AA:63:U:C5	3.06	0.43
1:AA:819:A:OP2	1:AA:1187:G:N2	2.51	0.43
1:AA:826:U:OP1	1:AA:2428:G:C3'	2.63	0.43
1:AA:849:A:H3'	1:AA:850:C:C6	2.53	0.43
1:AA:974:G:H1'	1:AA:1186:G:C4	2.54	0.43
1:AA:978:G:N1	1:AA:979:G:N1	2.67	0.43
2:AB:44:G:H5''	2:AB:45:A:OP1	2.18	0.43
2:AB:76:G:C1'	21:AW:75:ASN:ND2	2.81	0.43
2:AB:84:C:O2	2:AB:85:G:C8	2.72	0.43
3:AC:107:TRP:CZ3	3:AC:110:PHE:HE2	2.37	0.43
1:AA:2177:C:C6	3:AC:213:TYR:CE2	3.04	0.43
3:AC:225:ASN:O	3:AC:227:HIS:N	2.51	0.43
3:AC:23:ASP:O	3:AC:24:GLU:C	2.57	0.43
4:AD:65:ILE:CD1	4:AD:104:TYR:CB	2.96	0.43
4:AD:144:ALA:O	4:AD:145:VAL:C	2.57	0.43
4:AD:90:ALA:CB	4:AD:159:ALA:HA	2.49	0.43
4:AD:21:PHE:CD2	4:AD:21:PHE:N	2.84	0.43
1:AA:2226:C:O2	4:AD:262:ARG:NE	2.51	0.43
1:AA:1568:G:P	4:AD:61:LEU:HD12	2.58	0.43
4:AD:37:LEU:CD2	4:AD:64:ILE:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:144:ARG:CG	5:AE:144:ARG:O	2.66	0.43
1:AA:2636:U:P	5:AE:78:LEU:HD12	2.58	0.43
6:AF:65:TRP:HE1	6:AF:73:ALA:CB	2.17	0.43
7:AG:100:TRP:O	7:AG:101:ILE:C	2.55	0.43
7:AG:131:TYR:CE1	7:AG:133:LEU:O	2.65	0.43
7:AG:15:VAL:HG21	7:AG:176:LEU:HD23	1.99	0.43
7:AG:59:GLU:O	7:AG:60:LEU:C	2.56	0.43
7:AG:57:ALA:CA	7:AG:67:LYS:C	2.85	0.43
7:AG:50:ALA:HA	7:AG:70:VAL:HG22	1.99	0.43
8:AH:28:GLY:HA3	8:AH:79:VAL:C	2.38	0.43
8:AH:24:VAL:CG2	8:AH:35:VAL:HG23	2.35	0.43
8:AH:41:MET:SD	8:AH:64:LEU:CD2	3.06	0.43
32:AJ:112:MET:HE2	32:AJ:122:ALA:N	2.34	0.43
32:AJ:12:LEU:HD12	32:AJ:41:PHE:CZ	2.47	0.43
9:AK:97:ARG:O	9:AK:100:GLU:CA	2.66	0.43
10:AL:114:ILE:HG22	10:AL:115:VAL:N	2.32	0.43
10:AL:88:ASN:C	10:AL:90:GLN:N	2.71	0.43
11:AM:114:ILE:CB	11:AM:130:PHE:HA	2.48	0.43
11:AM:97:PRO:CD	11:AM:102:ARG:NH2	2.82	0.43
12:AN:75:THR:HA	12:AN:91:GLU:HG2	2.01	0.43
1:AA:2690:C:H41	13:AO:14:SER:CB	2.32	0.43
13:AO:18:LEU:HB3	13:AO:22:ARG:NH2	2.22	0.43
1:AA:2882:A:C4'	13:AO:98:LEU:HD21	2.48	0.43
14:AP:3:ARG:O	14:AP:7:TYR:HB2	2.18	0.43
14:AP:57:LYS:HZ2	14:AP:65:VAL:N	2.15	0.43
14:AP:6:ALA:O	14:AP:7:TYR:C	2.55	0.43
1:AA:2295:C:OP1	14:AP:9:ARG:HD2	2.18	0.43
15:AQ:55:ASN:ND2	15:AQ:57:PHE:CE2	2.78	0.43
16:AR:39:LEU:HA	16:AR:39:LEU:HD23	1.54	0.43
1:AA:535:C:C4'	16:AR:49:HIS:HB3	2.48	0.43
1:AA:1152:C:H4'	16:AR:80:ILE:CG2	2.49	0.43
17:AS:35:LEU:O	17:AS:61:VAL:HG22	2.18	0.43
17:AS:20:LEU:HD22	17:AS:68:LYS:NZ	2.34	0.43
18:AT:25:ARG:NH2	18:AT:73:ALA:HA	2.34	0.43
18:AT:20:VAL:HG21	18:AT:47:VAL:HG11	2.01	0.43
18:AT:65:LEU:HB2	18:AT:68:ARG:HD3	2.00	0.43
18:AT:70:TYR:OH	18:AT:72:LYS:HB2	2.18	0.43
19:AU:33:LYS:HB2	19:AU:33:LYS:HZ3	1.84	0.43
20:AV:2:ARG:HE	20:AV:4:LYS:N	2.16	0.43
20:AV:67:LEU:HD12	20:AV:71:LYS:HZ1	1.84	0.43
23:AY:36:ILE:C	23:AY:38:GLN:HG3	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AZ:45:GLY:O	24:AZ:48:GLU:CG	2.50	0.43
34:BA:102:G:C6	34:BA:103:C:C4	3.06	0.43
34:BA:1063:C:C5	34:BA:1064:G:C8	3.07	0.43
34:BA:1315:U:C1'	34:BA:1361:G:C5'	2.97	0.43
34:BA:944:G:N2	34:BA:1339:A:N6	2.54	0.43
34:BA:1374:A:C4	34:BA:1375:A:C8	3.07	0.43
34:BA:1418:A:H2'	34:BA:1419:G:H5'	2.00	0.43
34:BA:1472:U:C2'	34:BA:1473:A:H5'	2.47	0.43
34:BA:1499:A:N3	34:BA:1519:A:O2'	2.41	0.43
34:BA:285:G:C4	34:BA:286:G:C8	3.07	0.43
34:BA:113:G:H4'	34:BA:354:G:H5''	2.00	0.43
34:BA:362:G:C8	45:BP:34:ARG:NH2	2.65	0.43
34:BA:375:U:H2'	34:BA:376:G:O5'	2.18	0.43
34:BA:424:G:N3	34:BA:425:G:C8	2.86	0.43
34:BA:503:C:C2	34:BA:504:C:C6	3.07	0.43
34:BA:528:C:O2'	34:BA:535:A:C8	2.69	0.43
34:BA:571:U:H5'	34:BA:572:A:OP2	2.17	0.43
34:BA:600:C:C2	34:BA:601:C:C6	3.06	0.43
34:BA:594:G:N1	34:BA:646:U:N3	2.67	0.43
34:BA:655:A:C6	34:BA:656:C:C4	3.06	0.43
34:BA:718:G:C4'	44:BO:117:ASN:ND2	2.81	0.43
34:BA:582:U:OP2	34:BA:758:G:N2	2.51	0.43
34:BA:779:C:O2'	34:BA:780:A:H5'	2.18	0.43
34:BA:780:A:C2	34:BA:803:G:N1	2.86	0.43
34:BA:872:A:N1	34:BA:874:G:C5	2.87	0.43
34:BA:887:G:O2'	34:BA:888:G:H5'	2.19	0.43
34:BA:244:U:C6	34:BA:894:G:C2	3.07	0.43
34:BA:88:C:O2'	34:BA:89:U:O5'	2.35	0.43
34:BA:986:A:H1'	52:BW:55:LYS:HG2	1.99	0.43
56:BE:19:G:H4'	56:BE:20:U:O5'	2.19	0.43
35:BF:223:ILE:HA	35:BF:226:ARG:NE	2.34	0.43
35:BF:61:LEU:CA	35:BF:64:ARG:HH11	2.31	0.43
36:BG:129:ALA:CB	36:BG:132:ARG:HD2	2.49	0.43
36:BG:39:ILE:CG2	36:BG:40:ARG:N	2.72	0.43
36:BG:42:LEU:O	36:BG:45:LYS:HB3	2.19	0.43
37:BH:57:ARG:CB	37:BH:206:PHE:HB2	2.33	0.43
38:BI:39:GLY:O	38:BI:68:GLU:OE2	2.36	0.43
38:BI:76:ILE:HD13	38:BI:142:LEU:CB	2.30	0.43
38:BI:95:ALA:H	38:BI:96:PRO:CD	2.31	0.43
39:BJ:9:VAL:HA	39:BJ:10:LEU:HD23	2.00	0.43
39:BJ:14:LEU:O	39:BJ:15:ASP:HB3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BK:104:LEU:O	40:BK:105:VAL:C	2.55	0.43
40:BK:73:MET:HE3	40:BK:146:GLU:HB2	1.99	0.43
40:BK:146:GLU:HG2	40:BK:149:ARG:HD2	1.99	0.43
40:BK:152:ALA:C	40:BK:154:TYR:H	2.22	0.43
41:BL:10:LEU:CD2	41:BL:83:ILE:HD11	2.48	0.43
42:BM:114:TYR:O	42:BM:116:LYS:NZ	2.47	0.43
42:BM:38:GLN:O	42:BM:39:GLY:C	2.57	0.43
44:BO:63:LEU:CA	44:BO:66:LEU:HG	2.47	0.43
45:BP:102:ARG:NH1	45:BP:110:VAL:HA	2.34	0.43
45:BP:110:VAL:HB	45:BP:113:ARG:CG	2.48	0.43
45:BP:57:LYS:C	45:BP:58:VAL:HG23	2.38	0.43
45:BP:57:LYS:HG2	45:BP:67:THR:CG2	2.30	0.43
46:BQ:36:LYS:HZ1	46:BQ:59:TYR:HB3	1.79	0.43
52:BW:25:LYS:HD2	52:BW:25:LYS:O	2.17	0.43
34:BA:104:G:P	53:BX:21:LYS:HZ3	2.41	0.43
53:BX:59:ALA:C	53:BX:61:SER:N	2.72	0.43
53:BX:75:ASN:HB2	53:BX:78:ALA:HB3	2.00	0.43
57:BZ:114:LYS:O	57:BZ:117:PHE:HB2	2.18	0.43
57:BZ:167:ALA:HB2	60:BZ:701:GCP:N2	2.33	0.43
57:BZ:382:VAL:H	57:BZ:578:VAL:N	2.16	0.43
57:BZ:464:LEU:N	57:BZ:464:LEU:CD1	2.74	0.43
57:BZ:514:HIS:HA	57:BZ:515:GLY:C	2.39	0.43
23:AY:11:LEU:N	23:AY:11:LEU:CD1	2.81	0.43
34:BA:513:C:H2'	34:BA:514:C:H6	1.83	0.43
57:BZ:201:LEU:O	57:BZ:201:LEU:HD23	2.19	0.43
1:AA:1035:U:H2'	1:AA:1036:G:C8	2.54	0.43
1:AA:1046:A:O2'	31:AI:61:LEU:HA	2.19	0.43
1:AA:1024:G:C5	1:AA:1134:G:H1'	2.54	0.43
1:AA:1213:A:C4	1:AA:1214:A:C8	3.06	0.43
1:AA:1238:G:C2'	1:AA:1239:G:C5'	2.94	0.43
1:AA:1268:A:H2'	1:AA:1269:A:O4'	2.18	0.43
1:AA:1351:C:O2'	1:AA:1571:A:N9	2.52	0.43
1:AA:1427:A:H1'	1:AA:1428:C:C4	2.52	0.43
1:AA:1438:U:O2'	1:AA:1439:A:H5'	2.18	0.43
1:AA:1466:G:C2'	1:AA:1547:C:N4	2.57	0.43
1:AA:1475:G:N2	1:AA:1477:A:N6	2.53	0.43
1:AA:1568:G:P	4:AD:61:LEU:CG	3.06	0.43
1:AA:1710:C:C2	1:AA:1711:C:C5	3.07	0.43
1:AA:1679:U:N3	1:AA:1764:G:H5''	2.29	0.43
1:AA:1791:A:O4'	4:AD:209:ALA:CB	2.61	0.43
1:AA:1902:C:C2'	1:AA:1903:G:C5'	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1951:U:H2'	1:AA:1951:U:O2	2.19	0.43
1:AA:1962:C:O2'	1:AA:1964:G:OP2	2.35	0.43
1:AA:1769:G:C6	1:AA:1984:G:O6	2.71	0.43
1:AA:1988:C:H2'	1:AA:1989:G:C5'	2.49	0.43
1:AA:563:G:C6	1:AA:2018:G:C6	3.06	0.43
1:AA:203:C:C6	1:AA:204:A:C8	3.07	0.43
1:AA:2084:C:N3	1:AA:2085:C:C5	2.87	0.43
1:AA:2139:C:H2'	1:AA:2140:C:C6	2.53	0.43
1:AA:2182:G:C4	1:AA:2183:C:C6	3.07	0.43
1:AA:2198:A:H2	1:AA:2225:A:H62	1.64	0.43
1:AA:227:A:HO2'	1:AA:228:A:P	2.42	0.43
1:AA:2304:G:O6	1:AA:2313:C:N4	2.52	0.43
1:AA:2320:A:C5'	1:AA:2321:G:C5	2.91	0.43
1:AA:2518:A:H3'	1:AA:2518:A:H8	1.84	0.43
1:AA:2553:G:O5'	1:AA:2554:U:OP2	2.36	0.43
1:AA:2694:G:O5'	1:AA:2694:G:H8	2.01	0.43
1:AA:2746:U:C4	1:AA:2756:U:C5	2.98	0.43
1:AA:2789:C:H4'	1:AA:2789:C:OP1	2.19	0.43
1:AA:2804:C:N3	1:AA:2805:G:C6	2.87	0.43
1:AA:2825:C:H2'	1:AA:2826:A:C8	2.53	0.43
1:AA:2827:C:H2'	1:AA:2828:C:H5'	2.00	0.43
1:AA:2887:U:N3	1:AA:2888:C:C5	2.87	0.43
1:AA:7:G:O6	1:AA:2896:C:N3	2.52	0.43
1:AA:297:C:H5''	20:AV:83:THR:CB	2.46	0.43
1:AA:412:A:C2'	1:AA:413:C:H5'	2.49	0.43
1:AA:503:A:C2	1:AA:506:G:C2	3.06	0.43
1:AA:577:G:O6	1:AA:578:A:N6	2.51	0.43
1:AA:631:A:H3'	1:AA:631:A:C8	2.53	0.43
1:AA:71:A:C2'	1:AA:72:U:OP2	2.65	0.43
1:AA:776:G:N9	1:AA:793:A:C2	2.86	0.43
1:AA:828:U:C5	1:AA:829:A:N7	2.87	0.43
1:AA:853:G:C2'	1:AA:854:G:H8	2.12	0.43
1:AA:864:G:C2'	1:AA:865:C:O4'	2.64	0.43
1:AA:9:U:O2	1:AA:9:U:C2'	2.62	0.43
2:AB:116:G:H5'	14:AP:53:SER:HA	1.99	0.43
2:AB:99:A:N3	2:AB:100:G:C8	2.87	0.43
3:AC:93:TYR:CE1	3:AC:109:ASP:HB3	2.54	0.43
3:AC:103:ILE:HD13	3:AC:127:LEU:HD11	1.99	0.43
3:AC:89:ALA:HB1	3:AC:150:GLY:O	2.19	0.43
4:AD:160:GLY:C	4:AD:196:VAL:CG2	2.87	0.43
4:AD:132:PRO:CD	4:AD:190:TYR:CZ	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:55:GLY:CA	4:AD:218:ARG:HD3	2.48	0.43
4:AD:68:LYS:HG2	4:AD:70:TRP:HZ2	1.82	0.43
4:AD:78:LYS:O	4:AD:95:LEU:CD2	2.66	0.43
4:AD:85:ASP:CG	4:AD:87:ASN:ND2	2.72	0.43
5:AE:97:LYS:CG	5:AE:100:GLU:CD	2.87	0.43
5:AE:38:THR:O	5:AE:39:PRO:C	2.56	0.43
5:AE:71:GLY:O	5:AE:72:VAL:CG1	2.67	0.43
6:AF:154:VAL:HA	6:AF:191:ARG:O	2.18	0.43
6:AF:97:TYR:O	6:AF:98:SER:O	2.37	0.43
7:AG:9:ARG:CG	7:AG:13:GLU:OE2	2.62	0.43
1:AA:2311:A:H2'	7:AG:43:LEU:CD2	2.49	0.43
8:AH:156:ALA:C	8:AH:157:TYR:CG	2.92	0.43
8:AH:26:VAL:HB	8:AH:75:ALA:HB1	2.01	0.43
8:AH:67:LEU:O	8:AH:69:ARG:N	2.52	0.43
8:AH:99:VAL:O	8:AH:99:VAL:HG12	2.18	0.43
9:AK:51:PHE:HA	9:AK:119:ARG:O	2.19	0.43
9:AK:2:LYS:HE2	9:AK:2:LYS:HB3	1.83	0.43
10:AL:113:LYS:O	10:AL:113:LYS:NZ	2.48	0.43
10:AL:78:ARG:H	10:AL:78:ARG:CD	2.31	0.43
11:AM:126:VAL:HB	11:AM:146:VAL:CG2	2.48	0.43
11:AM:131:SER:N	11:AM:134:ALA:HB2	2.34	0.43
11:AM:55:ARG:NH2	11:AM:55:ARG:HA	2.33	0.43
11:AM:57:THR:HG22	11:AM:58:THR:N	2.34	0.43
11:AM:81:GLN:CB	11:AM:86:LYS:HE3	2.48	0.43
12:AN:116:GLU:HA	12:AN:119:ARG:HD3	1.99	0.43
12:AN:54:MET:HB3	12:AN:58:PHE:CE2	2.47	0.43
12:AN:69:PHE:C	12:AN:71:ASP:H	2.21	0.43
13:AO:102:GLU:CD	13:AO:103:ARG:N	2.62	0.43
10:AL:121:VAL:HA	15:AQ:70:VAL:CG1	2.49	0.43
15:AQ:82:LEU:O	15:AQ:83:ILE:C	2.56	0.43
16:AR:33:ARG:O	16:AR:36:ARG:N	2.51	0.43
16:AR:41:ALA:O	16:AR:43:GLY:N	2.52	0.43
9:AK:38:HIS:CE1	16:AR:70:ARG:HH22	2.37	0.43
16:AR:70:ARG:O	16:AR:72:HIS:N	2.51	0.43
17:AS:6:LYS:HE3	17:AS:12:TYR:O	2.19	0.43
17:AS:22:VAL:HG11	17:AS:24:LYS:NZ	2.33	0.43
17:AS:83:ARG:C	17:AS:84:LYS:HG3	2.39	0.43
19:AU:26:TYR:C	19:AU:28:PHE:CZ	2.92	0.43
19:AU:29:TRP:HB2	19:AU:76:ARG:HH21	1.82	0.43
34:BA:1055:A:H2	36:BG:156:ARG:HD3	1.83	0.43
34:BA:1100:C:O2'	34:BA:1102:A:O5'	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1107:C:C2'	34:BA:1108:G:C5'	2.96	0.43
34:BA:1250:A:H2'	34:BA:1251:A:C8	2.53	0.43
34:BA:1291:G:N1	34:BA:1292:U:C4	2.87	0.43
34:BA:136:C:O4'	49:BT:1:MET:CE	2.67	0.43
34:BA:1376:U:OP1	40:BK:98:SER:CB	2.66	0.43
34:BA:1401:G:C6	34:BA:1402:C:C2	3.07	0.43
34:BA:318:G:O2'	34:BA:1469:G:OP1	2.36	0.43
34:BA:1483:A:H2'	34:BA:1484:C:O5'	2.18	0.43
34:BA:1418:A:N1	34:BA:1483:A:N1	2.66	0.43
34:BA:1486:G:C4	34:BA:1487:G:O4'	2.45	0.43
34:BA:154:C:HO2'	34:BA:155:C:H5'	1.79	0.43
34:BA:164:U:C2'	34:BA:164:U:O2	2.64	0.43
34:BA:183:G:N3	34:BA:223:U:O2'	2.51	0.43
34:BA:189:U:C2	50:BU:72:ARG:NH2	2.85	0.43
34:BA:193:C:O4'	53:BX:60:GLU:CG	2.67	0.43
34:BA:22:G:N9	34:BA:914:A:N6	2.67	0.43
34:BA:132:C:N3	34:BA:231:G:N2	2.66	0.43
34:BA:257:G:C5	34:BA:258:G:C8	3.06	0.43
34:BA:401:C:OP2	37:BH:73:ARG:NH2	2.52	0.43
34:BA:407:G:O2'	34:BA:408:A:H5'	2.18	0.43
34:BA:413:G:H22	34:BA:428:G:HO2'	1.64	0.43
34:BA:438:G:C2	34:BA:495:A:C8	3.07	0.43
34:BA:451:A:H1'	34:BA:452:A:C5	2.52	0.43
34:BA:483:C:H3'	34:BA:483:C:C6	2.54	0.43
34:BA:520:A:C8	34:BA:521:G:H5''	2.48	0.43
34:BA:604:G:C6	34:BA:635:G:C6	3.06	0.43
34:BA:770:C:O2'	34:BA:771:G:H5'	2.18	0.43
34:BA:864:A:N6	34:BA:865:A:N6	2.67	0.43
56:BE:8:U:C6	56:BE:8:U:O5'	2.70	0.43
35:BF:126:GLU:O	35:BF:127:ILE:C	2.57	0.43
35:BF:69:LEU:C	35:BF:69:LEU:CD1	2.87	0.43
36:BG:12:LEU:HD22	47:BR:58:LYS:HB2	2.01	0.43
36:BG:191:THR:HB	36:BG:193:TYR:CE2	2.54	0.43
36:BG:39:ILE:O	36:BG:41:GLY:N	2.52	0.43
36:BG:40:ARG:C	36:BG:43:LEU:HB3	2.38	0.43
36:BG:64:VAL:HB	36:BG:99:VAL:CG1	2.49	0.43
36:BG:50:ALA:CA	36:BG:72:LYS:HD2	2.49	0.43
37:BH:170:VAL:HG11	37:BH:174:LEU:CD1	2.49	0.43
37:BH:18:LYS:O	37:BH:19:LEU:HD23	2.19	0.43
38:BI:91:LEU:CG	38:BI:92:LYS:N	2.81	0.43
38:BI:97:GLY:O	38:BI:99:GLY:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:14:ARG:CZ	41:BL:14:ARG:HB3	2.42	0.43
41:BL:6:ILE:HD11	41:BL:85:ARG:HD3	1.98	0.43
42:BM:100:GLY:C	42:BM:101:PHE:CG	2.91	0.43
42:BM:27:THR:HB	42:BM:62:TYR:HD1	1.76	0.43
42:BM:65:VAL:CG2	42:BM:73:GLN:HB3	2.49	0.43
42:BM:10:ARG:HH21	42:BM:75:ASP:CG	2.22	0.43
42:BM:10:ARG:NH2	42:BM:75:ASP:CG	2.72	0.43
42:BM:89:ASN:O	42:BM:91:ASP:N	2.50	0.43
43:BN:16:LEU:HD12	43:BN:70:ARG:HG2	2.00	0.43
45:BP:39:VAL:CB	45:BP:57:LYS:HB2	2.34	0.43
46:BQ:36:LYS:HE3	46:BQ:59:TYR:CG	2.53	0.43
47:BR:16:PHE:CE1	52:BW:14:HIS:CE1	2.89	0.43
49:BT:19:ILE:HG22	49:BT:36:ILE:O	2.18	0.43
50:BU:5:VAL:HG13	50:BU:59:ILE:C	2.31	0.43
51:BV:17:SER:CB	51:BV:54:ARG:HH12	2.32	0.43
53:BX:64:ASP:O	53:BX:67:ALA:CA	2.66	0.43
34:BA:186(B):C:H4'	53:BX:89:ARG:HH22	1.84	0.43
57:BZ:119:TYR:HD2	57:BZ:121:LEU:HD12	1.83	0.43
57:BZ:169:ASN:HD21	57:BZ:183:MET:CB	2.26	0.43
57:BZ:2:ILE:HB	57:BZ:199:VAL:HG21	1.99	0.43
57:BZ:204:PRO:O	57:BZ:228:ARG:O	2.37	0.43
57:BZ:209:ILE:HG23	57:BZ:223:ILE:O	2.19	0.43
57:BZ:209:ILE:CA	57:BZ:223:ILE:O	2.67	0.43
57:BZ:233:PRO:HB3	57:BZ:234:ASN:CA	2.48	0.43
57:BZ:239:ILE:HB	57:BZ:244:GLY:CA	2.42	0.43
57:BZ:253:LYS:NZ	57:BZ:269:GLU:CB	2.80	0.43
57:BZ:27:GLN:HG3	57:BZ:28:GLN:CD	2.34	0.43
57:BZ:287:THR:CG2	57:BZ:297:LEU:O	2.67	0.43
57:BZ:346:ARG:NH1	57:BZ:346:ARG:CG	2.74	0.43
57:BZ:51:GLU:CD	57:BZ:52:ARG:H	2.22	0.43
57:BZ:16:HIS:O	60:BZ:701:GCP:O5'	2.37	0.43
46:BQ:50:GLU:HG3	46:BQ:54:VAL:HG23	2.00	0.43
55:BC:31:A:C2	55:BC:39:U:O4	2.71	0.43
1:AA:2797:U:H4'	1:AA:2798:C:O2'	2.19	0.43
43:BN:96:ILE:CG1	43:BN:96:ILE:O	2.55	0.43
56:BD:9:A:O2'	56:BD:10:G:C8	2.72	0.43
12:AN:139:GLU:OE1	12:AN:140:ALA:O	2.36	0.43
1:AA:1009:A:H5'	16:AR:59:ARG:HH12	1.84	0.43
1:AA:82:G:N2	1:AA:103:A:OP2	2.47	0.43
1:AA:1081:U:H2'	1:AA:1082:U:H5'	2.00	0.43
1:AA:1092:C:H6	1:AA:1092:C:C3'	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1030:G:C5	1:AA:1125:G:N2	2.87	0.43
1:AA:974:G:HO2'	1:AA:1186:G:C1'	2.31	0.43
1:AA:1260:G:N3	1:AA:1260:G:H2'	2.33	0.43
1:AA:1292:U:C2	1:AA:1293:C:C5	3.07	0.43
1:AA:1296:G:N3	1:AA:1297:C:C5	2.87	0.43
1:AA:1301:A:H2'	1:AA:1302:A:O5'	2.17	0.43
1:AA:1348:G:O6	1:AA:1599:C:C4	2.72	0.43
1:AA:1422:G:C2	1:AA:1423:G:C4	3.07	0.43
1:AA:1479:G:N2	1:AA:1515:C:C4	2.87	0.43
1:AA:1569:A:O3'	4:AD:39:LYS:CE	2.66	0.43
1:AA:1576:U:H2'	1:AA:1577:C:C5	2.54	0.43
1:AA:1700:A:H2'	1:AA:1701:A:C4'	2.49	0.43
1:AA:1707:G:C4	1:AA:1708:C:C6	3.07	0.43
1:AA:1780:A:P	1:AA:1782:C:P	3.17	0.43
1:AA:1785:A:C8	1:AA:1785:A:OP2	2.63	0.43
1:AA:1843:C:O2'	1:AA:1844:C:H5'	2.18	0.43
1:AA:1856:G:N7	1:AA:1857:G:N3	2.67	0.43
1:AA:1860:G:N3	1:AA:1860:G:H2'	2.33	0.43
1:AA:1917:U:H6	1:AA:1917:U:H3'	1.83	0.43
1:AA:1909:C:O2	1:AA:1921:G:N2	2.51	0.43
1:AA:1942:C:C6	1:AA:1943:U:C5	3.06	0.43
1:AA:1945:G:C2	1:AA:1946:U:C4	3.06	0.43
1:AA:1964:G:C6	1:AA:1967:C:C5	3.07	0.43
1:AA:2018:G:C6	1:AA:2019:A:C2	3.07	0.43
1:AA:204:A:H4'	1:AA:205:G:H5'	2.01	0.43
1:AA:2136:C:C2	1:AA:2137:C:C5	3.06	0.43
1:AA:216:A:C2	1:AA:217:G:C6	3.07	0.43
1:AA:2311:A:C5'	1:AA:2312:U:H5	2.32	0.43
1:AA:233:A:N7	1:AA:234:C:C5	2.86	0.43
1:AA:2341:G:H22	1:AA:2374:C:H4'	1.84	0.43
1:AA:411:G:N1	1:AA:2407:G:O6	2.49	0.43
1:AA:2423:U:H1'	1:AA:2425:A:N9	2.33	0.43
1:AA:2459:A:OP2	1:AA:2460:U:H5	2.01	0.43
1:AA:2515:C:C2'	1:AA:2516:G:O5'	2.67	0.43
1:AA:2531:A:O2'	1:AA:2532:G:C5'	2.66	0.43
1:AA:2557:G:C2'	1:AA:2558:C:H6	2.25	0.43
1:AA:2630:G:H1'	1:AA:2894:G:C5'	2.48	0.43
1:AA:2657:A:N6	1:AA:2664:G:C1'	2.81	0.43
1:AA:2657:A:OP1	1:AA:2657:A:O3'	2.36	0.43
1:AA:2714:G:N1	1:AA:2715:C:C4	2.87	0.43
1:AA:1754:C:C4	1:AA:2717:G:H5'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2719:G:O5'	1:AA:2719:G:C8	2.70	0.43
1:AA:2784:C:H2'	1:AA:2785:C:C6	2.51	0.43
1:AA:2786:U:H4'	5:AE:64:LYS:C	2.39	0.43
1:AA:2818:G:C2	1:AA:2819:G:C8	3.06	0.43
1:AA:288:C:H6	1:AA:288:C:O5'	2.01	0.43
1:AA:301:G:H5''	1:AA:335:C:OP1	2.18	0.43
1:AA:447:A:C1'	1:AA:449:A:N6	2.70	0.43
1:AA:530:G:O2'	1:AA:532:A:P	2.76	0.43
1:AA:557:U:O3'	9:AK:112:LEU:HD21	2.19	0.43
1:AA:585:G:C6	1:AA:1251:C:C6	3.07	0.43
1:AA:586:A:C2	1:AA:809:G:C2	3.07	0.43
1:AA:605:C:O2'	1:AA:606:U:H5'	2.19	0.43
1:AA:719:C:O2'	1:AA:720:C:H5'	2.19	0.43
1:AA:734:A:C2	1:AA:735:A:C8	3.07	0.43
1:AA:761:A:O5'	1:AA:761:A:H8	2.01	0.43
1:AA:776:G:HO2'	1:AA:777:A:P	2.33	0.43
1:AA:779:U:O4	1:AA:780:G:N1	2.50	0.43
1:AA:804:A:O3'	1:AA:806:C:N4	2.52	0.43
1:AA:811:U:H6	1:AA:811:U:C3'	2.29	0.43
1:AA:823:G:C4	1:AA:835:A:C2	3.06	0.43
1:AA:954:G:H1'	1:AA:2274:A:H2	1.83	0.43
1:AA:962:G:C2	1:AA:963:U:N3	2.87	0.43
2:AB:63:G:H2'	2:AB:64:C:C5	2.53	0.43
2:AB:84:C:H2'	2:AB:85:G:C5'	2.45	0.43
3:AC:68:LEU:CD2	3:AC:156:ILE:O	2.67	0.43
3:AC:156:ILE:HG23	3:AC:160:ARG:HB2	2.01	0.43
3:AC:28:LEU:HA	3:AC:31:GLU:OE1	2.18	0.43
3:AC:78:ALA:HA	3:AC:119:VAL:CG1	2.49	0.43
4:AD:118:VAL:O	4:AD:119:ALA:CB	2.64	0.43
4:AD:119:ALA:CB	4:AD:130:ALA:O	2.57	0.43
4:AD:142:VAL:HB	4:AD:191:ALA:HB1	2.01	0.43
4:AD:23:GLU:CB	4:AD:205:VAL:H	2.32	0.43
4:AD:258:LYS:CG	4:AD:259:THR:N	2.82	0.43
5:AE:9:VAL:CG2	15:AQ:7:ILE:HG21	2.48	0.43
6:AF:39:TRP:CE2	6:AF:106:ARG:NH2	2.87	0.43
8:AH:8:PRO:CA	8:AH:51:ARG:CZ	2.97	0.43
32:AJ:47:ASN:C	32:AJ:48:MET:CG	2.86	0.43
9:AK:116:LEU:O	9:AK:117:PHE:C	2.57	0.43
10:AL:34:THR:HB	10:AL:37:ASP:OD2	2.19	0.43
10:AL:40:VAL:HA	10:AL:58:VAL:HG12	2.00	0.43
10:AL:40:VAL:HG13	10:AL:40:VAL:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:47:ILE:HG12	10:AL:47:ILE:O	2.16	0.43
10:AL:8:LEU:HD21	10:AL:81:ASP:HB3	2.00	0.43
10:AL:85:VAL:O	10:AL:93:PRO:CG	2.67	0.43
10:AL:87:ILE:O	10:AL:88:ASN:C	2.56	0.43
1:AA:625:G:N1	11:AM:100:LEU:HB3	2.34	0.43
11:AM:107:LYS:NZ	11:AM:111:ARG:N	2.67	0.43
11:AM:29:LYS:O	11:AM:30:THR:CG2	2.63	0.43
12:AN:102:VAL:HG13	12:AN:104:PHE:CZ	2.54	0.43
12:AN:17:LEU:C	12:AN:18:LYS:HG2	2.37	0.43
12:AN:35:VAL:O	12:AN:35:VAL:CG1	2.66	0.43
13:AO:54:LEU:O	13:AO:80:PHE:HE1	2.00	0.43
14:AP:77:ALA:HA	14:AP:80:LEU:CB	2.48	0.43
10:AL:77:ILE:HG23	15:AQ:65:LYS:HE2	1.93	0.43
16:AR:85:LYS:CD	16:AR:116:ALA:O	2.58	0.43
16:AR:83:LEU:HB3	16:AR:90:VAL:HG13	2.00	0.43
17:AS:39:LEU:O	17:AS:40:LEU:CB	2.67	0.43
18:AT:24:ILE:CD1	18:AT:36:LEU:HD13	2.44	0.43
18:AT:41:LYS:CB	18:AT:41:LYS:NZ	2.72	0.43
18:AT:1:MET:N	18:AT:4:LYS:HD3	2.29	0.43
19:AU:4:ALA:HB3	23:AY:21:ARG:CZ	2.47	0.43
19:AU:5:TYR:O	19:AU:7:VAL:HG12	2.19	0.43
1:AA:1335:U:P	19:AU:65:ARG:NE	2.92	0.43
20:AV:107:ASP:HB3	20:AV:108:THR:H	1.64	0.43
21:AW:55:HIS:CD2	21:AW:124:ILE:HD13	2.54	0.43
21:AW:2:GLU:C	21:AW:3:TYR:CG	2.91	0.43
22:AX:44:ARG:CD	22:AX:45:PHE:CE2	3.01	0.43
24:AZ:17:LYS:HA	24:AZ:20:LYS:CD	2.47	0.43
24:AZ:55:ARG:HH21	24:AZ:55:ARG:CG	2.30	0.43
34:BA:1068:G:C8	34:BA:1094:G:N7	2.87	0.43
34:BA:1108:G:OP1	36:BG:176:HIS:HB2	2.18	0.43
34:BA:1061:G:N3	34:BA:1197:G:C2	2.87	0.43
34:BA:1223:C:H3'	34:BA:1223:C:H6	1.84	0.43
34:BA:1329:A:O2'	46:BQ:70:LEU:HD11	2.14	0.43
34:BA:1500:A:OP2	34:BA:1504:G:O2'	2.37	0.43
34:BA:160:A:C2'	34:BA:161:A:H5'	2.49	0.43
34:BA:226:G:O2'	34:BA:227:G:H5'	2.18	0.43
34:BA:259:G:C2	34:BA:260:G:N3	2.87	0.43
34:BA:282:A:C5	34:BA:283:C:C5	3.06	0.43
34:BA:37:U:OP1	45:BP:123:LYS:HE3	2.18	0.43
34:BA:428:G:O2'	34:BA:429:U:O5'	2.36	0.43
34:BA:407:G:N1	34:BA:436:C:C2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:519:C:H5'	45:BP:51:ALA:CB	2.49	0.43
34:BA:580:U:O2	34:BA:580:U:H2'	2.19	0.43
34:BA:589:C:C4	34:BA:590:C:N4	2.87	0.43
34:BA:625:G:C4	34:BA:626:U:C5	3.06	0.43
34:BA:721:G:H1'	34:BA:722:A:C6	2.53	0.43
34:BA:767:A:C2'	34:BA:768:A:H5'	2.49	0.43
34:BA:795:C:C1'	34:BA:1506:U:C2	3.02	0.43
34:BA:826:C:H2'	34:BA:827:U:H6	1.83	0.43
34:BA:862:C:N3	34:BA:863:U:C5	2.87	0.43
34:BA:890:G:O2'	34:BA:891:U:H6	1.98	0.43
34:BA:893:C:H2'	34:BA:894:G:H8	1.84	0.43
34:BA:918:A:H2'	34:BA:919:A:O4'	2.19	0.43
34:BA:975:A:H4'	34:BA:976:G:H5'	2.00	0.43
34:BA:1340:A:O2'	56:BE:31:A:H4'	2.18	0.43
56:BE:42:C:H5'	56:BE:42:C:H6	1.83	0.43
56:BE:68:C:H2'	56:BE:69:G:O4'	2.18	0.43
35:BF:185:ILE:HG22	35:BF:199:TYR:CB	2.47	0.43
35:BF:218:ALA:C	35:BF:220:ASP:N	2.71	0.43
35:BF:21:ARG:H	35:BF:21:ARG:HE	1.63	0.43
35:BF:82:ARG:N	35:BF:92:TYR:HE1	2.16	0.43
36:BG:84:ILE:CG1	36:BG:101:LEU:HD13	2.43	0.43
36:BG:124:ILE:CD1	36:BG:130:VAL:CG1	2.97	0.43
36:BG:12:LEU:CD2	47:BR:57:ARG:CG	2.80	0.43
36:BG:6:HIS:CD2	36:BG:9:GLY:H	2.36	0.43
37:BH:145:GLU:HB3	37:BH:184:LYS:CG	2.38	0.43
37:BH:161:ASN:O	37:BH:165:MET:CB	2.67	0.43
38:BI:43:LEU:C	38:BI:43:LEU:CD2	2.86	0.43
39:BJ:12:PRO:O	39:BJ:14:LEU:N	2.48	0.43
39:BJ:2:ARG:HH11	39:BJ:69:GLU:HB3	1.84	0.43
39:BJ:4:TYR:N	39:BJ:67:MET:HE2	2.34	0.43
39:BJ:8:ILE:HG22	39:BJ:87:ARG:O	2.19	0.43
40:BK:6:ARG:N	40:BK:6:ARG:NH1	2.67	0.43
40:BK:79:ARG:HG2	40:BK:84:ASN:HB3	2.01	0.43
41:BL:104:ARG:HB2	41:BL:108:GLY:H	1.83	0.43
41:BL:62:TYR:C	41:BL:63:LEU:O	2.56	0.43
42:BM:78:LYS:NZ	42:BM:101:PHE:CE2	2.75	0.43
43:BN:6:ILE:CD1	43:BN:73:ASP:H	2.30	0.43
44:BO:13:GLN:HA	44:BO:76:GLY:CA	2.48	0.43
44:BO:18:ARG:HB3	44:BO:83:ILE:CD1	2.48	0.43
44:BO:50:TYR:CD1	44:BO:55:LYS:HA	2.54	0.43
45:BP:92:ASP:C	45:BP:93:LEU:CD2	2.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:40:ASN:CG	46:BQ:42:ALA:HB3	2.37	0.43
46:BQ:93:ARG:HG2	46:BQ:94:ARG:NH2	2.33	0.43
34:BA:667:G:C5'	48:BS:51:HIS:CE1	3.02	0.43
48:BS:71:GLN:O	48:BS:72:ARG:C	2.57	0.43
51:BV:40:LEU:O	51:BV:43:PHE:CD1	2.63	0.43
51:BV:77:GLY:C	51:BV:78:LEU:HG	2.37	0.43
53:BX:79:ARG:NH1	53:BX:79:ARG:HG3	2.34	0.43
53:BX:88:VAL:O	53:BX:92:LEU:CG	2.66	0.43
54:BY:13:ILE:HG22	54:BY:14:TRP:H	1.84	0.43
57:BZ:236:GLN:CG	57:BZ:247:ARG:CA	2.74	0.43
57:BZ:240:ILE:C	57:BZ:242:SER:H	2.22	0.43
57:BZ:283:ASN:C	57:BZ:285:SER:N	2.70	0.43
57:BZ:288:VAL:O	57:BZ:289:CYS:CB	2.66	0.43
57:BZ:395:ARG:HB2	57:BZ:474:ASP:HB2	1.81	0.43
57:BZ:495:LYS:HA	57:BZ:516:ALA:C	2.39	0.43
57:BZ:33:ASP:CG	57:BZ:34:SER:HA	2.39	0.43
37:BH:47:ARG:HG3	37:BH:47:ARG:O	2.18	0.43
1:AA:363(D):G:C2'	1:AA:363(E):U:H5'	2.49	0.43
55:BC:23:A:C8	55:BC:24:G:N7	2.87	0.43
34:BA:1029:G:O4'	34:BA:1032(A):G:N2	2.51	0.43
47:BR:9:LYS:C	47:BR:9:LYS:HD3	2.39	0.43
1:AA:1002:G:C2'	1:AA:1003:G:O5'	2.67	0.43
1:AA:1007:C:H4'	9:AK:108:PRO:HG3	2.01	0.43
1:AA:1015:G:C6	1:AA:1148:A:C6	3.06	0.43
1:AA:1051:G:H1'	1:AA:2752:C:C5'	2.22	0.43
1:AA:1223:C:N3	1:AA:1227:A:N1	2.67	0.43
1:AA:1314:C:N4	1:AA:1315:C:N4	2.67	0.43
1:AA:1381:G:O6	1:AA:1382:G:N1	2.51	0.43
1:AA:1399:C:OP1	19:AU:53:LYS:NZ	2.52	0.43
1:AA:1469:A:C3'	1:AA:1469:A:C8	3.02	0.43
1:AA:1475:G:O6	1:AA:1517:G:C6	2.71	0.43
1:AA:146:G:C5	1:AA:147:U:C6	3.06	0.43
1:AA:1593:G:H2'	1:AA:1594:G:O4'	2.18	0.43
1:AA:1651:G:C2'	1:AA:1652:A:C8	2.94	0.43
1:AA:1697:G:O6	1:AA:1698:A:C6	2.72	0.43
1:AA:1798:U:O5'	4:AD:257:LEU:HD12	2.19	0.43
1:AA:1806:C:H2'	1:AA:1807:G:O5'	2.19	0.43
1:AA:1816:G:OP2	4:AD:43:ARG:CZ	2.67	0.43
1:AA:1827:C:C2	1:AA:1828:G:H1'	2.53	0.43
1:AA:1858:G:C5	1:AA:1883:G:C2	3.07	0.43
1:AA:1911:U:C6	1:AA:1911:U:O5'	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1930:G:O2'	1:AA:1931:U:O5'	2.34	0.43
1:AA:2014:A:C2	1:AA:2015:A:N1	2.87	0.43
1:AA:2052:G:C4	1:AA:2053:G:N7	2.87	0.43
1:AA:2140:C:O2'	1:AA:2141:G:H5'	2.19	0.43
1:AA:2212:A:H61	1:AA:2215:G:H1'	1.84	0.43
1:AA:2284:C:N3	1:AA:2285:C:C4	2.87	0.43
1:AA:2309:A:H5''	1:AA:2310:A:H8	1.84	0.43
1:AA:2417:C:O2'	1:AA:2418:A:H5'	2.18	0.43
1:AA:2444:G:H2'	1:AA:2444:G:N3	2.34	0.43
1:AA:2521:C:O2	1:AA:2522:U:C1'	2.67	0.43
1:AA:2527:C:H2'	1:AA:2528:U:H6	1.79	0.43
1:AA:2527:C:H3'	1:AA:2527:C:P	2.59	0.43
1:AA:2525:G:C2	1:AA:2539:C:C4	3.07	0.43
1:AA:2553:G:H8	1:AA:2582:G:H2'	1.84	0.43
1:AA:2589:A:N3	1:AA:2590:A:C8	2.86	0.43
1:AA:2670:A:C6	1:AA:2671:A:N6	2.87	0.43
1:AA:2718:G:H2'	1:AA:2719:G:O5'	2.19	0.43
1:AA:2847:U:C5'	15:AQ:99:LEU:HD12	2.48	0.43
1:AA:28:A:C2	1:AA:29:U:C1'	3.02	0.43
1:AA:307:G:C4	1:AA:309:G:OP2	2.72	0.43
1:AA:327:G:H2'	1:AA:327:G:N3	2.34	0.43
1:AA:32:C:H1'	1:AA:474:G:N2	2.33	0.43
1:AA:507:A:H5'	1:AA:509:C:H1'	2.00	0.43
1:AA:509:C:C2'	1:AA:510:C:OP2	2.66	0.43
1:AA:660:G:C6	1:AA:661:C:N4	2.86	0.43
1:AA:678:C:H2'	1:AA:679:C:C6	2.35	0.43
1:AA:785:G:O2'	1:AA:786:C:P	2.77	0.43
1:AA:878:A:C3'	1:AA:879:G:H5''	2.47	0.43
1:AA:892:G:C4	1:AA:893:C:C4	3.07	0.43
1:AA:909:A:C2	1:AA:912:C:N1	2.87	0.43
1:AA:838:C:C2	1:AA:941:A:N6	2.87	0.43
1:AA:973:A:H3'	1:AA:973:A:C8	2.53	0.43
2:AB:21:G:C6	2:AB:22:U:C2	3.07	0.43
3:AC:119:VAL:HG23	3:AC:123:VAL:HG23	2.01	0.43
3:AC:71:GLN:CG	3:AC:72:VAL:HG23	2.49	0.43
4:AD:105:ILE:CG1	4:AD:106:ILE:N	2.82	0.43
4:AD:163:ALA:HA	4:AD:175:LEU:HD21	2.01	0.43
1:AA:1775:U:N3	4:AD:208:LYS:HD2	2.34	0.43
4:AD:270:ILE:C	4:AD:271:ILE:O	2.57	0.43
4:AD:61:LEU:O	4:AD:62:TYR:CG	2.72	0.43
4:AD:67:PHE:O	4:AD:153:ALA:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:70:TRP:O	4:AD:73:VAL:HG22	2.18	0.43
4:AD:77:ALA:CB	4:AD:95:LEU:HD11	2.46	0.43
5:AE:127:ASP:CG	5:AE:135:HIS:N	2.72	0.43
5:AE:64:LYS:O	5:AE:67:PHE:CB	2.67	0.43
1:AA:2635:C:H5''	5:AE:78:LEU:CD1	2.49	0.43
1:AA:659:C:H4'	6:AF:102:PRO:CD	2.48	0.43
6:AF:128:ALA:O	6:AF:129:PHE:HB2	2.18	0.43
6:AF:6:VAL:CB	6:AF:18:ARG:HD2	2.41	0.43
6:AF:63:LYS:O	6:AF:64:ILE:HG22	2.19	0.43
7:AG:118:ARG:O	7:AG:180:PHE:CZ	2.71	0.43
7:AG:128:ARG:NH1	7:AG:162:THR:HA	2.28	0.43
7:AG:163:ALA:O	7:AG:164:GLU:C	2.57	0.43
7:AG:19:LEU:HA	7:AG:22:ARG:CB	2.47	0.43
7:AG:38:VAL:HG12	7:AG:93:THR:HG23	2.01	0.43
7:AG:75:LYS:CB	7:AG:84:LYS:H	2.19	0.43
8:AH:6:ARG:C	8:AH:69:ARG:NE	2.70	0.43
8:AH:89:ILE:O	8:AH:89:ILE:HG23	2.18	0.43
9:AK:107:LEU:HD13	9:AK:117:PHE:CG	2.53	0.43
9:AK:126:PRO:C	9:AK:127:ASP:OD2	2.57	0.43
9:AK:23:LEU:HD23	9:AK:61:ARG:O	2.12	0.43
9:AK:72:TYR:O	9:AK:72:TYR:CD2	2.71	0.43
10:AL:21:CYS:CB	10:AL:40:VAL:O	2.67	0.43
10:AL:59:LYS:HB3	10:AL:86:ILE:H	1.83	0.43
10:AL:92:GLU:OE2	10:AL:114:ILE:HG13	2.19	0.43
11:AM:74:GLU:CB	11:AM:107:LYS:HD3	2.49	0.43
11:AM:124:LYS:CD	11:AM:142:GLY:O	2.66	0.43
11:AM:46:LYS:NZ	11:AM:50:ARG:HH11	2.14	0.43
1:AA:2406:U:C4	11:AM:65:ARG:HB3	2.54	0.43
12:AN:102:VAL:O	12:AN:103:MET:HE2	2.19	0.43
12:AN:122:GLY:CA	12:AN:125:LEU:HG	2.41	0.43
12:AN:59:ARG:NH2	21:AW:177:PRO:CB	2.78	0.43
12:AN:86:GLY:C	12:AN:88:GLY:N	2.70	0.43
12:AN:68:ILE:HG21	12:AN:95:ALA:HB2	2.00	0.43
13:AO:79:LEU:CD2	13:AO:80:PHE:HA	2.48	0.43
14:AP:73:LEU:HA	14:AP:76:LYS:HB3	2.01	0.43
15:AQ:30:VAL:CG2	15:AQ:32:TYR:OH	2.64	0.43
15:AQ:37:GLY:HA3	15:AQ:42:ILE:O	2.18	0.43
15:AQ:53:ARG:HH22	15:AQ:101:PHE:CA	2.31	0.43
15:AQ:62:THR:HG22	15:AQ:79:HIS:N	2.28	0.43
16:AR:40:PHE:H	16:AR:40:PHE:HD1	1.66	0.43
17:AS:76:LYS:HA	17:AS:86:GLY:HA3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1334:G:C5'	19:AU:65:ARG:NH1	2.73	0.43
20:AV:67:LEU:HD12	20:AV:71:LYS:NZ	2.34	0.43
20:AV:72:VAL:O	20:AV:77:PRO:O	2.36	0.43
20:AV:96:ILE:HD12	20:AV:103:GLY:HA2	2.00	0.43
2:AB:75:G:N2	21:AW:85:HIS:CE1	2.86	0.43
23:AY:14:VAL:C	23:AY:17:GLU:HB2	2.39	0.43
34:BA:1004:A:C5'	34:BA:1025:U:C5	3.02	0.43
34:BA:1095:U:N3	34:BA:1096:C:C4	2.87	0.43
34:BA:1099:G:H2'	34:BA:1100:C:O5'	2.19	0.43
34:BA:1109:C:C2'	34:BA:1110:A:C5'	2.97	0.43
34:BA:112:G:N3	34:BA:112:G:H2'	2.32	0.43
34:BA:1161:C:H2'	34:BA:1162:C:H6	1.83	0.43
34:BA:1239:A:C8	34:BA:1241:G:H1'	2.53	0.43
34:BA:1298:C:N1	40:BK:114:ARG:NH1	2.66	0.43
34:BA:1301:U:O4	34:BA:1303:C:H1'	2.18	0.43
34:BA:1325:C:H2'	34:BA:1326:C:C6	2.54	0.43
34:BA:1331:G:C2'	34:BA:1332:A:OP2	2.66	0.43
34:BA:934:C:C5	34:BA:1344:C:C2	3.07	0.43
34:BA:1402:C:O2'	34:BA:1403:C:H5'	2.18	0.43
34:BA:1405:G:O2'	34:BA:1519:A:H5'	2.19	0.43
34:BA:1470:G:C2	34:BA:1471:G:C4	3.07	0.43
34:BA:1516:G:C2	34:BA:1518:A:P	3.12	0.43
34:BA:186(A):C:O2'	34:BA:186(B):C:H5'	2.19	0.43
34:BA:250:A:O2'	34:BA:251:G:P	2.76	0.43
34:BA:383:A:C2'	34:BA:384:G:H5'	2.49	0.43
34:BA:524:G:O2'	34:BA:525:C:C5'	2.64	0.43
34:BA:619:U:O2	34:BA:619:U:C2'	2.67	0.43
34:BA:685:G:H8	34:BA:685:G:O5'	2.01	0.43
34:BA:781:A:H2'	34:BA:782:A:C4'	2.48	0.43
34:BA:848:C:O2'	34:BA:849:C:C5'	2.66	0.43
34:BA:926:G:C6	34:BA:1505:G:N1	2.87	0.43
34:BA:947:G:O2'	34:BA:948:C:C5'	2.61	0.43
34:BA:951:G:C2	34:BA:952:U:C2	3.06	0.43
56:BE:28:G:H1	56:BE:42:C:H42	1.67	0.43
56:BE:3:C:C2	56:BE:4:C:N4	2.86	0.43
35:BF:113:HIS:ND1	35:BF:116:GLU:OE1	2.51	0.43
35:BF:118:LEU:HD22	35:BF:119:GLU:N	2.34	0.43
35:BF:135:GLN:O	35:BF:139:LYS:HB3	2.19	0.43
35:BF:119:GLU:OE1	35:BF:142:LEU:HD21	2.18	0.43
36:BG:112:SER:OG	36:BG:115:LEU:CG	2.67	0.43
36:BG:128:PHE:O	36:BG:130:VAL:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:165:MET:CG	37:BH:166:LYS:N	2.81	0.43
37:BH:63:LYS:CD	37:BH:63:LYS:H	2.31	0.43
38:BI:109:ILE:CG2	38:BI:110:LEU:H	2.32	0.43
38:BI:25:ARG:N	38:BI:25:ARG:HD3	2.33	0.43
38:BI:76:ILE:CG2	38:BI:77:PRO:HD2	2.48	0.43
39:BJ:14:LEU:HD11	39:BJ:18:GLN:HB3	1.99	0.43
39:BJ:94:GLN:C	39:BJ:95:GLU:CG	2.87	0.43
39:BJ:94:GLN:C	39:BJ:95:GLU:HG3	2.39	0.43
40:BK:11:GLN:NE2	40:BK:12:LEU:HD12	2.33	0.43
40:BK:94:ARG:HH11	40:BK:94:ARG:CG	2.27	0.43
41:BL:100:ILE:CG2	41:BL:121:ASP:HA	2.48	0.43
41:BL:121:ASP:HB3	41:BL:122:ARG:H	1.39	0.43
41:BL:67:PRO:C	41:BL:68:ARG:O	2.56	0.43
35:BF:181:PHE:CE1	41:BL:71:GLY:HA3	2.52	0.43
34:BA:1231:G:OP2	42:BM:127:LYS:HE2	2.19	0.43
42:BM:4:TYR:CE1	42:BM:59:PHE:HE2	2.14	0.43
42:BM:72:GLY:HA2	42:BM:75:ASP:OD2	2.18	0.43
43:BN:48:THR:OG1	43:BN:62:HIS:HB3	2.19	0.43
43:BN:52:GLY:O	43:BN:53:PRO:C	2.57	0.43
44:BO:34:ASP:CG	44:BO:36:ASP:H	2.22	0.43
44:BO:69:ALA:O	44:BO:72:ALA:CB	2.65	0.43
45:BP:64:TYR:C	45:BP:65:GLU:CG	2.87	0.43
45:BP:9:GLN:O	45:BP:10:LEU:C	2.57	0.43
47:BR:61:TRP:C	47:BR:61:TRP:CD1	2.92	0.43
48:BS:65:ARG:O	48:BS:66:LEU:C	2.57	0.43
48:BS:69:TYR:CZ	48:BS:73:GLU:HG3	2.54	0.43
49:BT:21:VAL:CG2	49:BT:59:TRP:HE1	2.21	0.43
34:BA:273:A:C1'	50:BU:16:GLN:OE1	2.66	0.43
34:BA:128:G:C5'	50:BU:2:PRO:HA	2.40	0.43
52:BW:9:VAL:HG21	52:BW:42:PRO:CB	2.15	0.43
34:BA:1320:C:C3'	52:BW:73:GLU:HB3	2.48	0.43
53:BX:30:LYS:O	53:BX:31:SER:C	2.56	0.43
53:BX:81:LYS:HB3	53:BX:85:MET:HE1	2.01	0.43
57:BZ:153:ALA:HB3	57:BZ:156:GLU:N	2.34	0.43
57:BZ:27:GLN:HG3	57:BZ:28:GLN:CG	2.49	0.43
57:BZ:407:VAL:HG22	57:BZ:436:ARG:HB3	1.99	0.43
57:BZ:549:SER:HB3	57:BZ:550:GLY:HA2	1.98	0.43
56:BD:49:C:O2	56:BD:50:U:C5	2.72	0.43
1:AA:1416:G:N2	1:AA:1417:C:C4	2.87	0.43
1:AA:363(C):G:C2'	1:AA:363(D):G:H5'	2.48	0.43
34:BA:1018:C:O2'	34:BA:1019:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:513:C:H6	34:BA:513:C:O5'	2.02	0.43
1:AA:1029:A:O5'	1:AA:1029:A:C8	2.61	0.43
1:AA:1055:G:N3	1:AA:1084:A:N3	2.64	0.43
1:AA:1069:A:C4'	1:AA:1070:A:H5''	2.45	0.43
1:AA:1049:C:O2	1:AA:1113:U:H4'	2.19	0.43
1:AA:1134:G:N3	1:AA:1134:G:H2'	2.34	0.43
1:AA:1197:G:C6	1:AA:1198:U:C6	3.06	0.43
1:AA:1334:G:H2'	1:AA:1335:U:C6	2.54	0.43
1:AA:1392:A:C5	1:AA:1393:A:N6	2.87	0.43
1:AA:1341:U:C4	1:AA:1398:C:H5'	2.53	0.43
1:AA:1420:U:O2'	1:AA:1421:G:C8	2.63	0.43
1:AA:1444:G:C2	1:AA:1445:C:O2	2.72	0.43
1:AA:1449(A):G:C4	1:AA:1450:C:C5	3.07	0.43
1:AA:1527:G:H2'	1:AA:1528:A:O5'	2.19	0.43
1:AA:1543:A:C8	1:AA:1544:C:H1'	2.54	0.43
1:AA:1591:G:N1	1:AA:1592:C:C4	2.86	0.43
1:AA:1615:C:N4	1:AA:1617:C:C2	2.87	0.43
1:AA:1657:C:N3	1:AA:1658:C:C5	2.87	0.43
1:AA:1672:C:H41	1:AA:1673:U:H5	1.66	0.43
1:AA:1775:U:C2'	1:AA:1776:G:O4'	2.60	0.43
1:AA:1936:A:C2	1:AA:1940:U:O2	2.72	0.43
1:AA:2067:G:N1	1:AA:2069:G:C5	2.87	0.43
1:AA:2298:A:N1	1:AA:2321:G:O6	2.52	0.43
1:AA:2460:U:C2'	1:AA:2461:C:C6	3.02	0.43
1:AA:2536:G:C5	1:AA:2537:U:C5	3.07	0.43
1:AA:2571:C:C2'	1:AA:2572:A:OP1	2.67	0.43
1:AA:2509:G:C6	1:AA:2580:U:N3	2.87	0.43
1:AA:2660:A:O5'	1:AA:2660:A:C8	2.72	0.43
1:AA:2706:G:H5'	1:AA:2852:G:OP1	2.19	0.43
1:AA:2717:G:H2'	1:AA:2718:G:H8	1.83	0.43
1:AA:2812:G:N1	1:AA:2813:A:C6	2.87	0.43
1:AA:2816:C:C2'	1:AA:2817:G:H5'	2.49	0.43
1:AA:281:G:N2	1:AA:283:A:H4'	2.34	0.43
1:AA:2894:G:N3	1:AA:2894:G:H2'	2.34	0.43
1:AA:379:G:C6	1:AA:396:G:C6	3.07	0.43
1:AA:399:G:N1	1:AA:400:G:H1'	2.34	0.43
1:AA:410:G:C6	1:AA:418:G:C2	3.07	0.43
1:AA:431:U:O2	1:AA:431:U:H2'	2.18	0.43
1:AA:55:G:C2	1:AA:56:A:C5	3.07	0.43
1:AA:583:G:O2'	1:AA:584:C:C5'	2.66	0.43
1:AA:693:C:C2'	1:AA:694:U:O5'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:770:G:N2	1:AA:771:G:H1'	2.34	0.43
1:AA:771:G:C6	1:AA:772:C:C4	3.06	0.43
1:AA:806:C:H2'	1:AA:807:U:C5	2.51	0.43
1:AA:815:C:H2'	1:AA:816:C:C6	2.54	0.43
1:AA:826:U:H3'	1:AA:828:U:C4	2.54	0.43
1:AA:922:U:O2	1:AA:923:C:C5	2.72	0.43
1:AA:945:A:C2'	1:AA:946:G:H5''	2.49	0.43
1:AA:956:G:H2'	1:AA:957:A:C8	2.54	0.43
1:AA:986:C:C3'	1:AA:986:C:C6	3.02	0.43
1:AA:993:G:N7	1:AA:994:C:N4	2.65	0.43
1:AA:996:A:C4	1:AA:997:G:N7	2.86	0.43
1:AA:997:G:O3'	16:AR:92:ARG:NH1	2.50	0.43
2:AB:4:C:N4	2:AB:117:G:N1	2.67	0.43
2:AB:1:U:O4	2:AB:2:C:N4	2.52	0.43
2:AB:29:A:C2	2:AB:56:G:C2	3.06	0.43
2:AB:78:A:H2'	2:AB:79:C:C5'	2.44	0.43
2:AB:82:G:C2'	2:AB:83:G:H8	2.26	0.43
2:AB:83:G:N2	2:AB:84:C:C1'	2.81	0.43
3:AC:99:ILE:O	3:AC:103:ILE:HG13	2.19	0.43
3:AC:102:LYS:HE3	3:AC:107:TRP:HB3	2.01	0.43
3:AC:10:LEU:HD22	3:AC:32:LEU:O	2.18	0.43
3:AC:77:ILE:HG23	3:AC:96:GLY:O	2.19	0.43
4:AD:134:ARG:HA	4:AD:168:ARG:NH2	2.34	0.43
4:AD:176:ARG:CA	4:AD:182:LEU:CD2	2.96	0.43
4:AD:183:ARG:CG	4:AD:268:ARG:HD2	2.49	0.43
5:AE:101:ARG:NH2	5:AE:171:GLU:CG	2.79	0.43
5:AE:101:ARG:O	5:AE:202:LYS:NZ	2.52	0.43
5:AE:131:ALA:C	5:AE:133:LYS:H	2.22	0.43
5:AE:37:ARG:H	5:AE:40:GLU:HB2	1.83	0.43
6:AF:7:TYR:N	6:AF:20:LEU:HD22	2.28	0.43
6:AF:93:LYS:CE	6:AF:95:ARG:HG2	2.43	0.43
7:AG:105:LYS:CA	7:AG:109:VAL:HG13	2.49	0.43
7:AG:163:ALA:O	7:AG:169:ALA:HB2	2.19	0.43
8:AH:118:PRO:HG2	8:AH:121:ILE:HG21	2.00	0.43
8:AH:155:SER:HB2	8:AH:159:GLU:HA	2.01	0.43
8:AH:97:ARG:O	8:AH:104:GLU:HG2	2.19	0.43
10:AL:110:GLY:O	10:AL:111:PHE:HB3	2.19	0.43
10:AL:27:GLY:O	10:AL:28:SER:C	2.57	0.43
10:AL:89:ASN:HD21	10:AL:91:LEU:HB2	1.74	0.43
1:AA:661:C:C5'	11:AM:15:ARG:NH1	2.79	0.43
5:AE:13:ARG:HH21	11:AM:56:SER:HB3	123.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:97:PRO:HA	11:AM:102:ARG:CZ	2.46	0.43
12:AN:25:ASP:C	12:AN:102:VAL:HB	2.34	0.43
12:AN:115:MET:C	12:AN:119:ARG:HG3	2.39	0.43
12:AN:16:ARG:HH21	12:AN:73:PRO:HG3	1.84	0.43
13:AO:105:ARG:NE	13:AO:105:ARG:CA	2.79	0.43
13:AO:63:ARG:HH12	13:AO:80:PHE:HB3	1.82	0.43
14:AP:62:LYS:O	14:AP:63:THR:C	2.57	0.43
2:AB:48:A:H4'	14:AP:95:HIS:CE1	2.54	0.43
15:AQ:78:LEU:HD23	15:AQ:79:HIS:H	1.83	0.43
10:AL:73:ASP:HB3	15:AQ:79:HIS:NE2	2.34	0.43
16:AR:98:LEU:HD13	16:AR:101:ARG:CG	2.49	0.43
18:AT:20:VAL:O	18:AT:24:ILE:HG12	2.18	0.43
18:AT:49:LYS:O	18:AT:50:VAL:C	2.56	0.43
18:AT:8:ARG:HA	18:AT:102:HIS:CD2	2.54	0.43
19:AU:25:LYS:HG2	19:AU:82:GLN:HB2	2.01	0.43
19:AU:17:ALA:CB	19:AU:27:THR:OG1	2.59	0.43
19:AU:28:PHE:N	19:AU:28:PHE:CD2	2.83	0.43
21:AW:105:VAL:O	21:AW:140:ASP:OD2	2.37	0.43
21:AW:23:LYS:HG3	21:AW:39:VAL:C	2.39	0.43
21:AW:43:GLU:CD	21:AW:43:GLU:N	2.51	0.43
21:AW:27:VAL:HG22	21:AW:85:HIS:CE1	2.35	0.43
22:AX:39:ARG:NH1	22:AX:58:THR:OG1	2.48	0.43
12:AN:82:ARG:HD2	22:AX:5:LYS:HD3	2.01	0.43
22:AX:9:SER:O	22:AX:10:THR:C	2.56	0.43
23:AY:23:LYS:HD3	23:AY:55:LEU:HD21	2.01	0.43
23:AY:35:SER:CA	23:AY:38:GLN:OE1	2.66	0.43
34:BA:107:G:H2'	34:BA:108:G:O4'	2.19	0.43
34:BA:113:G:O4'	34:BA:354:G:C5'	2.67	0.43
34:BA:1187:G:C4	34:BA:1188:A:C8	3.07	0.43
34:BA:1202:G:C4	47:BR:42:ILE:CD1	2.94	0.43
34:BA:1251:A:N1	34:BA:1285:A:H2	2.16	0.43
34:BA:1287:A:H1'	34:BA:1353:G:O2'	2.18	0.43
34:BA:1317:C:OP1	34:BA:1317:C:C6	2.72	0.43
34:BA:1321:C:H2'	34:BA:1322:C:C5	2.54	0.43
34:BA:1313:U:O4	34:BA:1325:C:C2	2.70	0.43
34:BA:1416:G:C6	34:BA:1485:U:C2	3.07	0.43
34:BA:1487:G:C2	34:BA:1488:G:N7	2.87	0.43
34:BA:149:A:C2	34:BA:150:C:C2	3.07	0.43
34:BA:196:A:O2'	34:BA:222:U:O4'	2.36	0.43
34:BA:333:G:C2	34:BA:334:C:C4	3.07	0.43
34:BA:44:G:C2	34:BA:45:U:C1'	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:494:U:O2	34:BA:495:A:O4'	2.37	0.43
34:BA:597:G:C2'	34:BA:598:U:C5'	2.95	0.43
34:BA:609:A:H2'	34:BA:610:G:H8	1.84	0.43
34:BA:61:G:N7	34:BA:62:U:C4	2.87	0.43
34:BA:632:A:O2'	34:BA:633:G:H5'	2.19	0.43
34:BA:643:C:C4	34:BA:644:G:N7	2.87	0.43
34:BA:718:G:H4'	44:BO:117:ASN:ND2	2.25	0.43
34:BA:721:G:OP1	34:BA:721:G:H8	2.02	0.43
34:BA:738:C:N3	34:BA:739:C:C5	2.87	0.43
34:BA:895:G:C2	34:BA:896:C:C4	3.07	0.43
34:BA:899:C:C4	34:BA:900:A:C6	3.07	0.43
34:BA:907:A:N3	34:BA:908:A:C8	2.86	0.43
34:BA:912:C:OP1	45:BP:94:PRO:HG3	2.19	0.43
34:BA:922:G:C2'	34:BA:923:A:H5'	2.48	0.43
34:BA:956:U:OP2	34:BA:956:U:C6	2.72	0.43
34:BA:980:C:C5	34:BA:981:U:N3	2.87	0.43
56:BE:13:C:H2'	56:BE:14:A:O5'	2.19	0.43
56:BE:21:A:H61	56:BE:46:G:C1'	2.32	0.43
35:BF:88:ALA:O	35:BF:222:ILE:HD13	2.19	0.43
36:BG:108:ASN:C	36:BG:110:ASN:H	2.22	0.43
37:BH:121:VAL:HA	37:BH:126:ILE:CD1	2.36	0.43
37:BH:165:MET:O	37:BH:167:GLY:N	2.52	0.43
37:BH:177:ASP:C	37:BH:179:GLU:H	2.22	0.43
37:BH:32:ALA:N	37:BH:34:GLU:O	2.52	0.43
37:BH:96:LEU:O	37:BH:97:LEU:C	2.58	0.43
37:BH:97:LEU:O	37:BH:103:ASN:ND2	2.49	0.43
38:BI:151:LEU:HD23	38:BI:151:LEU:HA	1.60	0.43
38:BI:65:ASN:HD21	38:BI:136:MET:CE	2.32	0.43
39:BJ:21:LEU:HD12	39:BJ:24:GLU:OE1	2.19	0.43
40:BK:135:VAL:O	40:BK:138:LYS:CB	2.56	0.43
40:BK:144:MET:HE2	40:BK:144:MET:HB3	1.89	0.43
40:BK:76:ARG:O	40:BK:156:TRP:CZ2	2.72	0.43
40:BK:29:LYS:NZ	40:BK:98:SER:O	2.48	0.43
41:BL:7:ALA:HB2	41:BL:85:ARG:HH11	1.83	0.43
43:BN:54:PHE:O	43:BN:55:LYS:C	2.58	0.43
43:BN:69:ASN:O	43:BN:70:ARG:NH1	2.51	0.43
44:BO:59:TYR:CD1	44:BO:62:GLN:NE2	2.87	0.43
45:BP:102:ARG:NE	45:BP:109:GLY:HA2	2.33	0.43
45:BP:111:LYS:O	45:BP:112:ASP:C	2.57	0.43
45:BP:53:ARG:NH2	45:BP:92:ASP:HB3	2.34	0.43
45:BP:27:LEU:CD2	45:BP:62:SER:OG	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:100:GLY:CA	46:BQ:101:GLN:CG	2.86	0.43
46:BQ:29:ARG:CD	46:BQ:64:TRP:HH2	2.12	0.43
46:BQ:67:GLU:C	46:BQ:69:GLU:H	2.20	0.43
36:BG:29:TYR:CB	47:BR:36:PHE:HE1	2.30	0.43
47:BR:46:GLU:O	47:BR:49:HIS:CB	2.64	0.43
50:BU:82:MET:C	50:BU:85:VAL:HB	2.36	0.43
51:BV:45:SER:OG	51:BV:49:LYS:HE3	2.19	0.43
53:BX:25:ARG:HB2	53:BX:25:ARG:CZ	2.49	0.43
53:BX:26:ASN:O	53:BX:27:LYS:C	2.57	0.43
53:BX:50:GLU:CA	53:BX:99:LEU:HD12	2.49	0.43
57:BZ:176:HIS:HA	57:BZ:177:GLU:HA	1.51	0.43
57:BZ:206:GLN:CD	57:BZ:227:LYS:HB2	2.28	0.43
57:BZ:406:ASP:CG	57:BZ:437:VAL:H	2.21	0.43
57:BZ:564:THR:HB	57:BZ:566:GLU:HG3	1.98	0.43
57:BZ:81:PHE:N	57:BZ:81:PHE:CD1	2.85	0.43
20:AV:42:VAL:C	20:AV:61:ILE:HD13	2.38	0.43
57:BZ:300:LEU:N	57:BZ:301:SER:HA	2.34	0.43
1:AA:2142:C:N4	1:AA:2143:C:N4	2.66	0.43
1:AA:1414:G:C2	1:AA:1415:U:C2	3.07	0.43
57:BZ:217:TYR:O	57:BZ:219:GLY:N	2.50	0.43
23:AY:47:ASP:N	23:AY:47:ASP:OD2	2.52	0.43
50:BU:96:GLN:O	50:BU:96:GLN:OE1	2.36	0.43
1:AA:104:U:O2'	1:AA:105:C:H5'	2.19	0.42
1:AA:1065:U:H6	1:AA:1065:U:O5'	2.02	0.42
1:AA:1052:C:C4	1:AA:1108:U:O2	2.68	0.42
1:AA:111:A:C2'	1:AA:112:U:C6	2.94	0.42
1:AA:72:U:H5	1:AA:112:U:HO2'	1.62	0.42
1:AA:1225:C:C4'	17:AS:87:HIS:CE1	3.02	0.42
1:AA:1346:G:C6	1:AA:1347:G:C6	3.08	0.42
1:AA:1419:A:H3'	1:AA:1420:U:O4'	2.18	0.42
1:AA:1492:G:O2'	1:AA:1493:C:C5	2.72	0.42
1:AA:1568:G:O2'	1:AA:1569:A:P	2.75	0.42
1:AA:1569:A:N1	1:AA:1570:A:C6	2.87	0.42
1:AA:1620:G:C2'	1:AA:1621:U:O5'	2.67	0.42
1:AA:1675:C:H2'	1:AA:1676:A:O4'	2.19	0.42
1:AA:1699:G:H2'	1:AA:1763:G:N2	2.34	0.42
1:AA:1689:A:N6	1:AA:1700:A:N3	2.66	0.42
1:AA:1460:A:N6	1:AA:1732:A:C2	2.87	0.42
1:AA:1742:C:C3'	1:AA:1743:G:H5''	2.38	0.42
1:AA:1891:G:C6	1:AA:1892:C:C4	3.07	0.42
1:AA:1892:C:C4	1:AA:1893:C:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1957:C:O2	1:AA:1958:C:C6	2.72	0.42
1:AA:1997:G:H2'	1:AA:1998:G:C8	2.54	0.42
1:AA:1998:G:C6	1:AA:1999:C:N4	2.86	0.42
1:AA:2044:C:C5	1:AA:2625:G:C2	3.07	0.42
1:AA:2048:G:C2	1:AA:2049:G:N9	2.86	0.42
1:AA:2081:C:HO2'	1:AA:2082:A:H5'	1.84	0.42
1:AA:2125:G:OP1	3:AC:71:GLN:CB	2.61	0.42
1:AA:2135:A:C2'	1:AA:2136:C:OP2	2.66	0.42
1:AA:2154:G:H2'	1:AA:2155:G:O4'	2.19	0.42
1:AA:2175:C:O4'	3:AC:220:PRO:HG3	2.19	0.42
1:AA:2313:C:C2	1:AA:2314:C:C5	3.07	0.42
1:AA:2331:G:N7	1:AA:2332:U:C4	2.87	0.42
1:AA:2334:G:H2'	1:AA:2335:A:OP1	2.19	0.42
1:AA:2348:U:O2'	1:AA:2349:G:H5'	2.19	0.42
1:AA:413:C:H42	1:AA:2410:G:H1	1.66	0.42
1:AA:241:A:H3'	1:AA:241:A:N3	2.34	0.42
1:AA:2435:A:C2	1:AA:2436:G:C4	3.07	0.42
1:AA:2479:G:H2'	1:AA:2480:C:O4'	2.19	0.42
1:AA:2491:U:C5	1:AA:2492:U:P	3.12	0.42
1:AA:2582:G:C3'	1:AA:2583:G:H5'	2.49	0.42
1:AA:2607:G:H2'	1:AA:2608:G:C5'	2.34	0.42
1:AA:2662:A:H2'	1:AA:2663:G:O5'	2.19	0.42
1:AA:2739:U:O2'	1:AA:2740:A:H5'	2.18	0.42
1:AA:1051:G:O4'	1:AA:2752:C:O5'	2.05	0.42
1:AA:2758:A:C5	1:AA:2759:G:N7	2.87	0.42
1:AA:2804:C:H6	1:AA:2804:C:H5''	1.83	0.42
1:AA:2857:G:C2	1:AA:2861:G:C2	3.07	0.42
1:AA:2808:U:O2	1:AA:2891:G:N2	2.51	0.42
1:AA:2631:G:OP2	1:AA:2894:G:H1'	2.18	0.42
1:AA:295:G:HO2'	1:AA:296:C:H5'	1.83	0.42
1:AA:317:G:O2'	1:AA:318:C:H5'	2.19	0.42
1:AA:333:G:C6	1:AA:334:C:C5	3.06	0.42
1:AA:35:G:H5'	1:AA:455:C:N3	2.34	0.42
1:AA:374:A:N3	1:AA:374:A:H2'	2.34	0.42
1:AA:454:A:O2'	1:AA:455:C:C2	2.68	0.42
1:AA:465:G:C2	1:AA:683:C:O2'	2.65	0.42
1:AA:447:A:C6	1:AA:473:G:H1'	2.54	0.42
1:AA:491:G:H2'	1:AA:492:A:O4'	2.19	0.42
1:AA:543:C:O2	1:AA:544:C:C5	2.71	0.42
1:AA:55:G:C2	1:AA:56:A:C8	3.06	0.42
1:AA:568:U:C2'	1:AA:570:G:N7	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:622:G:O2'	1:AA:623:G:H5'	2.18	0.42
1:AA:636:G:OP1	11:AM:132:LYS:HG3	2.19	0.42
1:AA:685:A:C2	1:AA:774:A:C2	3.07	0.42
1:AA:81:G:O2'	1:AA:294:A:C2'	2.67	0.42
1:AA:852:G:C6	1:AA:853:G:C5	3.07	0.42
1:AA:881:G:C4	1:AA:896:A:N1	2.87	0.42
1:AA:933:A:H2'	1:AA:934:G:O5'	2.19	0.42
1:AA:95:G:C6	1:AA:96:G:C8	3.07	0.42
2:AB:109:G:C2	2:AB:110:G:C5	3.07	0.42
2:AB:30:C:C2	2:AB:31:C:O4'	2.72	0.42
2:AB:31:C:C2'	2:AB:32:C:OP1	2.67	0.42
2:AB:9:G:N2	2:AB:10:C:C4	2.87	0.42
3:AC:160:ARG:HD3	3:AC:160:ARG:C	2.38	0.42
4:AD:117:VAL:HG12	4:AD:118:VAL:N	2.34	0.42
4:AD:209:ALA:O	4:AD:213:ARG:CG	2.67	0.42
4:AD:54:ARG:CA	4:AD:219:PRO:CG	2.90	0.42
4:AD:182:LEU:CG	4:AD:270:ILE:HD11	2.49	0.42
1:AA:2823:A:OP2	5:AE:113:PHE:CZ	2.71	0.42
6:AF:9:ILE:CG2	6:AF:124:LEU:O	2.67	0.42
6:AF:168:ARG:O	6:AF:169:ASN:O	2.36	0.42
7:AG:134:GLY:HA3	7:AG:156:ASP:CB	2.49	0.42
1:AA:2306:C:OP1	7:AG:136:ARG:CZ	2.67	0.42
7:AG:110:ALA:CB	7:AG:139:LEU:CG	2.90	0.42
7:AG:1:MET:O	7:AG:3:LEU:N	2.52	0.42
7:AG:4:ASP:OD1	7:AG:7:LEU:HD12	2.19	0.42
8:AH:105:LEU:O	8:AH:113:VAL:CG2	2.67	0.42
8:AH:149:ARG:HE	8:AH:149:ARG:HB2	1.53	0.42
32:AJ:10:LEU:H	32:AJ:56:GLU:HG2	1.78	0.42
32:AJ:122:ALA:CA	32:AJ:126:MET:HB2	2.33	0.42
32:AJ:44:ALA:HB3	32:AJ:66:THR:CG2	2.49	0.42
9:AK:136:GLU:O	9:AK:137:LYS:CG	2.66	0.42
10:AL:100:GLY:HA2	10:AL:118:ALA:O	2.19	0.42
10:AL:3:GLN:NE2	10:AL:33:ALA:CB	2.41	0.42
10:AL:53:LYS:HG3	10:AL:55:GLY:N	2.34	0.42
10:AL:64:ARG:HH11	10:AL:67:LYS:HE2	1.83	0.42
10:AL:6:THR:CG2	10:AL:21:CYS:HB3	2.48	0.42
10:AL:59:LYS:CG	10:AL:84:ALA:O	2.66	0.42
10:AL:8:LEU:HD11	10:AL:82:ASN:CA	2.43	0.42
11:AM:80:TYR:OH	11:AM:100:LEU:HD21	2.19	0.42
11:AM:78:PRO:CG	11:AM:115:LEU:O	2.67	0.42
1:AA:670:A:C2'	11:AM:41:ARG:CZ	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:77:LYS:O	12:AN:78:PRO:C	2.58	0.42
12:AN:78:PRO:C	12:AN:79:LEU:HD23	2.38	0.42
13:AO:35:THR:CG2	13:AO:113:LEU:HD23	2.49	0.42
13:AO:55:ALA:HA	13:AO:80:PHE:CE1	2.54	0.42
15:AQ:34:VAL:CG1	15:AQ:78:LEU:CD1	2.94	0.42
16:AR:105:VAL:HG12	16:AR:106:PHE:H	1.84	0.42
16:AR:112:ARG:HH22	17:AS:49:THR:CG2	2.22	0.42
16:AR:81:HIS:HD1	16:AR:81:HIS:HA	1.77	0.42
17:AS:15:GLU:C	17:AS:100:ARG:CZ	2.87	0.42
19:AU:85:PRO:HB2	19:AU:87:GLN:NE2	2.33	0.42
20:AV:82:PRO:HG2	20:AV:95:LYS:O	2.19	0.42
20:AV:82:PRO:O	20:AV:83:THR:OG1	2.36	0.42
21:AW:118:GLN:NE2	21:AW:172:ALA:HB1	2.33	0.42
21:AW:18:LEU:C	21:AW:23:LYS:O	2.57	0.42
22:AX:26:TYR:CD1	22:AX:29:GLN:CD	2.92	0.42
22:AX:47:PRO:CG	22:AX:53:MET:HB2	2.44	0.42
22:AX:27:GLU:N	22:AX:69:PHE:CE1	2.86	0.42
23:AY:30:LEU:CD1	23:AY:45:ILE:HA	2.49	0.42
24:AZ:27:GLY:O	24:AZ:28:LEU:O	2.37	0.42
34:BA:1049:U:O2'	34:BA:1050:G:OP2	2.32	0.42
34:BA:1095:U:C2	34:BA:1096:C:C5	3.07	0.42
34:BA:1130:A:H5''	34:BA:1131:G:OP2	2.19	0.42
34:BA:1231:G:H2'	34:BA:1232:U:H6	1.84	0.42
34:BA:1262:C:O5'	34:BA:1262:C:H6	2.02	0.42
34:BA:1326:C:O2'	34:BA:1327:C:C5'	2.67	0.42
34:BA:134:A:C8	34:BA:134:A:O5'	2.72	0.42
34:BA:1365:G:C6	34:BA:1366:C:N4	2.87	0.42
34:BA:182:U:C2'	34:BA:182:U:O2	2.67	0.42
34:BA:188:U:C2'	34:BA:189:U:O5'	2.68	0.42
34:BA:191(C):G:O2'	34:BA:191(D):U:H5'	2.18	0.42
34:BA:253:U:H2'	34:BA:254:G:C8	2.54	0.42
34:BA:293:G:N3	34:BA:294:U:C6	2.87	0.42
34:BA:44:G:C2	34:BA:45:U:H1'	2.54	0.42
34:BA:518:C:C5	34:BA:530:G:C8	3.07	0.42
34:BA:548:G:O2'	34:BA:549:C:H5'	2.18	0.42
34:BA:558:G:O5'	34:BA:559:A:O3'	2.37	0.42
34:BA:645:C:O2'	34:BA:646:U:H5'	2.18	0.42
34:BA:701:C:H5''	34:BA:702:A:C3'	2.49	0.42
34:BA:843:U:H3'	34:BA:848:C:O4'	2.19	0.42
34:BA:85:U:H2'	34:BA:86:U:H5'	2.01	0.42
34:BA:953:G:O2'	34:BA:954:G:C5'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:965:A:P	34:BA:1198:G:H5''	2.59	0.42
34:BA:979:C:O2	47:BR:19:ARG:NE	2.52	0.42
34:BA:978:A:H3'	34:BA:980:C:H41	1.83	0.42
35:BF:171:ALA:N	35:BF:174:VAL:HG23	2.32	0.42
35:BF:204:ASN:HD22	35:BF:205:ASP:N	2.17	0.42
36:BG:113:ALA:HB3	36:BG:114:PRO:HD3	2.01	0.42
36:BG:11:ARG:CA	36:BG:11:ARG:NE	2.82	0.42
36:BG:159:GLY:O	36:BG:160:ALA:O	2.36	0.42
36:BG:95:THR:HB	36:BG:97:LYS:HE2	2.01	0.42
38:BI:109:ILE:HD11	38:BI:136:MET:SD	2.59	0.42
38:BI:141:GLN:O	38:BI:142:LEU:CG	2.67	0.42
38:BI:50:GLU:CB	38:BI:53:LEU:HD23	2.48	0.42
38:BI:61:TYR:O	38:BI:65:ASN:N	2.38	0.42
39:BJ:50:TYR:CD2	39:BJ:50:TYR:N	2.87	0.42
39:BJ:7:ASN:O	39:BJ:8:ILE:HG12	2.19	0.42
40:BK:27:ILE:CG1	40:BK:43:PHE:CD1	2.99	0.42
41:BL:117:GLY:O	41:BL:119:LEU:CD2	2.67	0.42
41:BL:111:ILE:CG2	41:BL:118:VAL:CG1	2.97	0.42
42:BM:50:LEU:CD1	42:BM:56:LEU:HG	2.41	0.42
42:BM:72:GLY:O	42:BM:75:ASP:OD2	2.37	0.42
42:BM:83:ARG:HA	42:BM:86:VAL:HG23	2.01	0.42
43:BN:24:VAL:HG13	43:BN:34:VAL:HB	2.01	0.42
34:BA:969:A:C2'	43:BN:55:LYS:HZ1	2.30	0.42
44:BO:50:TYR:CE1	44:BO:60:ALA:HB2	2.54	0.42
44:BO:59:TYR:O	44:BO:62:GLN:CD	2.57	0.42
45:BP:30:ALA:HB1	45:BP:31:PRO:CD	2.49	0.42
34:BA:1491:G:H5''	45:BP:46:LYS:HZ1	1.82	0.42
47:BR:24:CYS:HA	47:BR:39:LEU:HA	2.01	0.42
47:BR:39:LEU:HB2	47:BR:44:LEU:HB2	2.01	0.42
34:BA:994:A:C4	47:BR:5:ALA:HA	2.54	0.42
50:BU:27:PHE:C	50:BU:35:VAL:HG13	2.38	0.42
50:BU:60:ILE:HG12	50:BU:61:GLU:N	2.34	0.42
52:BW:20:LEU:C	52:BW:21:GLU:HG2	2.40	0.42
57:BZ:83:GLY:HA2	57:BZ:111:PHE:HE2	1.84	0.42
57:BZ:181:GLU:CD	57:BZ:183:MET:CE	2.86	0.42
57:BZ:212:LEU:HG	57:BZ:213:ASP:N	2.34	0.42
57:BZ:426:LEU:C	57:BZ:428:ASN:N	2.72	0.42
57:BZ:43:MET:SD	57:BZ:43:MET:C	2.97	0.42
32:AJ:64:SER:CA	32:AJ:65:PHE:CB	2.97	0.42
8:AH:151:ILE:O	8:AH:151:ILE:HG23	2.19	0.42
34:BA:1382:C:C4	34:BA:1383:C:N4	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1549:C:O2'	1:AA:1550:C:H5'	2.19	0.42
3:AC:4:GLY:O	3:AC:5:LYS:NZ	2.39	0.42
1:AA:1025:G:C8	1:AA:1134:G:O4'	2.72	0.42
1:AA:1067:A:C5'	32:AJ:21:PRO:CB	2.95	0.42
1:AA:1101:U:OP1	1:AA:1101:U:C6	2.61	0.42
1:AA:1034:G:C6	1:AA:1122:G:N7	2.86	0.42
1:AA:1139:G:C2'	1:AA:1140:C:H5''	2.39	0.42
1:AA:1153:C:N4	1:AA:1154:G:O6	2.52	0.42
1:AA:1160:G:OP2	1:AA:1160:G:H8	2.02	0.42
1:AA:117:G:C6	1:AA:119:A:N6	2.87	0.42
1:AA:120:U:O2'	1:AA:149:A:O4'	2.37	0.42
1:AA:1210:A:H4'	1:AA:1211:U:C5'	2.49	0.42
1:AA:1213:A:N1	1:AA:1237:A:H1'	2.34	0.42
1:AA:1242:A:H5''	1:AA:1243:G:OP2	2.19	0.42
1:AA:1300:U:P	1:AA:1300:U:C6	3.12	0.42
1:AA:1302:A:H3'	1:AA:1303:G:H5'	2.00	0.42
1:AA:1324:G:C2	1:AA:1328:G:N1	2.87	0.42
1:AA:1343:G:C6	1:AA:1344:G:C8	3.07	0.42
1:AA:1518:C:C2	1:AA:1519:G:O4'	2.72	0.42
1:AA:154:G:C2	1:AA:155:C:C4	3.07	0.42
1:AA:1689:A:N6	1:AA:1700:A:C4	2.86	0.42
1:AA:1830:C:C2	1:AA:1831:G:N7	2.87	0.42
1:AA:1945:G:H8	1:AA:1945:G:H5'	1.84	0.42
1:AA:2082:A:H2'	1:AA:2083:G:C8	2.55	0.42
1:AA:2088:G:H2'	1:AA:2089:U:O4'	2.19	0.42
1:AA:2128:C:N4	1:AA:2129:C:C5	2.87	0.42
1:AA:2264:C:C2'	1:AA:2265:U:O5'	2.66	0.42
1:AA:2289:G:H5'	1:AA:2384:G:O2'	2.19	0.42
1:AA:2306:C:C5	1:AA:2311:A:N6	2.80	0.42
1:AA:2319:G:C4'	1:AA:2320:A:OP1	2.44	0.42
1:AA:2335:A:C2'	1:AA:2337:G:C8	3.03	0.42
1:AA:2347:C:C4	1:AA:2348:U:O4	2.72	0.42
1:AA:243:U:H2'	1:AA:244:A:C5'	2.49	0.42
1:AA:2459:A:C2	1:AA:2492:U:C4	3.02	0.42
1:AA:2576:G:H3'	1:AA:2576:G:N3	2.35	0.42
1:AA:2593:U:O4	4:AD:239:ARG:CZ	2.65	0.42
1:AA:2615:U:H5'	1:AA:2615:U:H6	1.84	0.42
1:AA:2649:U:OP2	1:AA:2649:U:H5	2.02	0.42
1:AA:2781:A:H2'	1:AA:2782:G:C3'	2.49	0.42
1:AA:2842:G:N2	1:AA:2843:G:H1'	2.34	0.42
1:AA:379:G:C6	1:AA:380:U:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:386:G:HO2'	1:AA:387:U:P	2.41	0.42
1:AA:418:G:C2	1:AA:419:C:C6	3.08	0.42
1:AA:523:C:C4	1:AA:524:U:C5	3.06	0.42
1:AA:593:G:C6	1:AA:594:U:C5	3.07	0.42
1:AA:608:A:C2'	1:AA:609:A:H5'	2.49	0.42
1:AA:666:G:H2'	1:AA:667:U:H6	1.79	0.42
1:AA:703:U:H2'	1:AA:704:G:O4'	2.19	0.42
1:AA:738:G:N7	1:AA:739:G:C2	2.87	0.42
1:AA:752:A:HO2'	1:AA:753:C:H6	1.67	0.42
1:AA:7:G:C2	1:AA:8:A:C4	3.07	0.42
1:AA:800:A:N7	1:AA:802:A:O4'	2.52	0.42
1:AA:854:G:N2	1:AA:855:G:C4	2.87	0.42
1:AA:864:G:C2'	1:AA:865:C:H1'	2.43	0.42
1:AA:878:A:N1	1:AA:897:C:C2	2.85	0.42
1:AA:930:U:O2	1:AA:932:G:N2	2.52	0.42
1:AA:947:G:N2	1:AA:971:C:C2	2.88	0.42
2:AB:48:A:O3'	14:AP:95:HIS:NE2	2.52	0.42
2:AB:73:A:C5	2:AB:104:A:C4	3.06	0.42
2:AB:79:C:H2'	2:AB:80:U:H5'	2.01	0.42
3:AC:103:ILE:CG2	3:AC:108:MET:SD	3.08	0.42
1:AA:2123:G:C2'	3:AC:215:THR:HG23	2.42	0.42
3:AC:73:ARG:CB	3:AC:93:TYR:HE2	2.32	0.42
4:AD:161:THR:N	4:AD:196:VAL:CG2	2.83	0.42
4:AD:29:PRO:HB2	4:AD:31:LYS:HZ3	1.82	0.42
4:AD:42:GLY:HA3	4:AD:60:ARG:HH22	1.80	0.42
4:AD:63:ARG:HB3	4:AD:88:ARG:HH21	1.85	0.42
1:AA:2787:C:C5'	5:AE:64:LYS:HB2	2.46	0.42
5:AE:71:GLY:C	5:AE:72:VAL:HG13	2.39	0.42
5:AE:49:LEU:CD2	5:AE:76:ARG:O	2.66	0.42
6:AF:170:LEU:HB3	6:AF:171:PRO:CD	2.49	0.42
6:AF:46:ARG:NE	6:AF:46:ARG:C	2.72	0.42
7:AG:12:TYR:CE2	7:AG:13:GLU:OE2	2.72	0.42
7:AG:150:ASP:O	7:AG:152:LEU:N	2.52	0.42
7:AG:26:GLN:CD	7:AG:29:TRP:CE3	2.91	0.42
8:AH:149:ARG:CG	8:AH:153:LYS:CD	2.97	0.42
9:AK:55:VAL:HG11	9:AK:127:ASP:HA	2.01	0.42
9:AK:57:ALA:HB1	9:AK:99:LEU:HD23	2.02	0.42
9:AK:8:GLN:O	9:AK:10:GLU:N	2.53	0.42
10:AL:70:LYS:HE2	10:AL:103:ALA:HB3	2.00	0.42
10:AL:22:ILE:HB	10:AL:23:ARG:H	1.62	0.42
10:AL:86:ILE:HG23	10:AL:90:GLN:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AM:99:LEU:CD2	11:AM:101:VAL:HG22	2.46	0.42
11:AM:72:PRO:CB	11:AM:110:TYR:O	2.67	0.42
11:AM:85:LEU:C	11:AM:86:LYS:HG2	2.39	0.42
11:AM:99:LEU:HD22	11:AM:101:VAL:CG1	2.45	0.42
12:AN:132:VAL:HB	12:AN:133:ARG:CZ	2.49	0.42
12:AN:27:VAL:HG22	12:AN:28:ALA:O	2.18	0.42
1:AA:957:A:OP1	12:AN:76:LYS:HA	2.19	0.42
13:AO:117:VAL:HG22	13:AO:117:VAL:O	2.18	0.42
13:AO:75:LEU:CA	13:AO:78:LYS:HB3	2.46	0.42
13:AO:41:ALA:CB	13:AO:97:VAL:HG13	2.36	0.42
14:AP:72:ALA:O	14:AP:73:LEU:C	2.57	0.42
15:AQ:15:VAL:HG11	15:AQ:18:ASP:OD1	2.20	0.42
15:AQ:31:SER:C	15:AQ:32:TYR:CD2	2.92	0.42
15:AQ:33:LYS:HE3	15:AQ:45:PHE:CE2	2.54	0.42
15:AQ:61:PHE:HD1	15:AQ:81:PRO:CD	2.24	0.42
15:AQ:67:SER:HA	15:AQ:75:ILE:HA	2.01	0.42
16:AR:33:ARG:O	16:AR:34:LYS:C	2.57	0.42
16:AR:65:ILE:HG23	16:AR:96:ALA:CA	2.49	0.42
1:AA:1223:C:N4	17:AS:88:ARG:HH22	2.17	0.42
18:AT:25:ARG:NE	18:AT:75:TYR:CE2	2.86	0.42
18:AT:98:LYS:CB	18:AT:98:LYS:NZ	2.82	0.42
19:AU:12:VAL:HA	19:AU:29:TRP:CD1	2.54	0.42
19:AU:21:PHE:CD2	19:AU:26:TYR:HA	2.53	0.42
19:AU:48:LYS:C	19:AU:49:VAL:HG13	2.39	0.42
19:AU:52:VAL:O	19:AU:53:LYS:O	2.37	0.42
19:AU:18:TYR:OH	19:AU:96:ILE:CD1	2.67	0.42
20:AV:35:TYR:CD1	20:AV:35:TYR:N	2.87	0.42
20:AV:97:ARG:O	20:AV:98:VAL:CG2	2.66	0.42
21:AW:138:GLU:C	21:AW:139:VAL:HG23	2.39	0.42
21:AW:153:SER:OG	21:AW:154:ASP:N	2.52	0.42
21:AW:127:LYS:CD	21:AW:165:VAL:HG23	2.42	0.42
21:AW:166:SER:HG	21:AW:167:PRO:HD2	1.80	0.42
1:AA:855:G:N2	22:AX:27:GLU:HB3	2.31	0.42
22:AX:46:LYS:HA	22:AX:47:PRO:HD3	1.77	0.42
1:AA:76:C:H5'	23:AY:54:ARG:HH22	1.84	0.42
1:AA:850:C:H4'	24:AZ:18:ASP:HB2	2.01	0.42
24:AZ:39:ASP:CG	24:AZ:44:ARG:HD3	2.39	0.42
34:BA:1051:C:H2'	34:BA:1052:U:O4'	2.19	0.42
34:BA:1103:C:C2	34:BA:1104:G:C8	3.07	0.42
34:BA:1110:A:C5	34:BA:1111:A:C8	3.06	0.42
34:BA:1141:C:C2	34:BA:1142:G:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1158:C:H3'	34:BA:1158:C:O2	2.18	0.42
34:BA:1223:C:H3'	34:BA:1223:C:C6	2.53	0.42
34:BA:1230:C:H5''	42:BM:127:LYS:HZ1	1.84	0.42
34:BA:1234:C:N4	34:BA:1235:U:C4	2.86	0.42
34:BA:1243:C:N3	34:BA:1244:C:C5	2.87	0.42
34:BA:128:G:C5	34:BA:129:U:C4	3.07	0.42
34:BA:1312:G:N3	34:BA:1326:C:N1	2.66	0.42
34:BA:1344:C:O2'	34:BA:1349:A:H5'	2.18	0.42
34:BA:1352:C:N3	34:BA:1371:G:C6	2.87	0.42
34:BA:1375:A:C2	34:BA:1376:U:O2	2.71	0.42
34:BA:1377:A:H5''	34:BA:1378:C:C5	2.54	0.42
34:BA:1412:C:C2	34:BA:1413:A:N7	2.87	0.42
34:BA:1496:C:C3'	34:BA:1496:C:C6	3.02	0.42
34:BA:1504:G:HO2'	34:BA:1505:G:P	2.30	0.42
34:BA:67:C:C1'	34:BA:172:A:H1'	2.49	0.42
34:BA:242:C:H2'	34:BA:243:A:O5'	2.19	0.42
34:BA:270:A:C6	34:BA:271:C:C4	3.07	0.42
34:BA:274:A:O3'	34:BA:275:G:O4'	2.38	0.42
34:BA:44:G:C6	34:BA:399:G:N1	2.87	0.42
34:BA:498:A:H61	34:BA:547:A:C5'	2.32	0.42
34:BA:519:C:OP1	45:BP:50:SER:OG	2.27	0.42
34:BA:584:G:C2	34:BA:585:G:C8	3.07	0.42
34:BA:594:G:C5	34:BA:595:G:N2	2.80	0.42
34:BA:707:C:C2'	34:BA:708:C:O5'	2.67	0.42
34:BA:755:G:OP2	48:BS:65:ARG:HD2	2.19	0.42
34:BA:781:A:C2	34:BA:782:A:H1'	2.54	0.42
34:BA:832:C:H2'	34:BA:833:U:C5	2.53	0.42
34:BA:843:U:C3'	34:BA:848:C:C5'	2.97	0.42
34:BA:829:G:N2	34:BA:858:G:HO2'	2.17	0.42
34:BA:85:U:H2'	34:BA:86:U:O4'	2.19	0.42
34:BA:901:A:H2'	34:BA:902:G:O4'	2.19	0.42
34:BA:924:C:H2'	34:BA:925:G:H8	1.83	0.42
34:BA:962:C:C4	34:BA:963:G:C5	3.07	0.42
34:BA:991:U:OP2	34:BA:991:U:H6	2.02	0.42
56:BE:4:C:O2	56:BE:6:G:H8	2.00	0.42
35:BF:23:ARG:H	35:BF:23:ARG:HG3	1.46	0.42
35:BF:42:ILE:CD1	35:BF:47:THR:OG1	2.68	0.42
35:BF:69:LEU:HD22	35:BF:91:PRO:HB3	1.99	0.42
35:BF:95:GLN:OE1	35:BF:95:GLN:HA	2.19	0.42
35:BF:93:VAL:HG12	35:BF:95:GLN:H	1.83	0.42
36:BG:22:TRP:CZ3	36:BG:32:LEU:HD13	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:33:LEU:HD23	36:BG:36:ASP:HB3	2.01	0.42
37:BH:73:ARG:O	37:BH:74:GLN:C	2.58	0.42
38:BI:124:GLY:O	38:BI:126:ARG:N	2.52	0.42
38:BI:33:VAL:HG22	38:BI:43:LEU:CD1	2.36	0.42
38:BI:50:GLU:HB2	38:BI:53:LEU:HG	2.01	0.42
38:BI:71:LEU:CG	38:BI:72:GLN:N	2.82	0.42
38:BI:84:PHE:CG	38:BI:134:ALA:CA	3.00	0.42
39:BJ:76:ALA:CB	39:BJ:80:ARG:NH1	2.72	0.42
40:BK:14:PRO:HB3	40:BK:19:GLY:C	2.40	0.42
40:BK:88:PRO:HD2	40:BK:152:ALA:CA	2.49	0.42
40:BK:50:ILE:CD1	40:BK:58:PRO:CB	2.96	0.42
41:BL:83:ILE:O	41:BL:83:ILE:HG23	2.19	0.42
42:BM:97:LYS:CE	42:BM:102:LEU:HD13	2.48	0.42
42:BM:121:ARG:HG2	42:BM:121:ARG:NH1	2.32	0.42
43:BN:81:THR:O	43:BN:85:LEU:CD1	2.67	0.42
44:BO:110:ASP:HA	51:BV:88:LYS:HD3	2.01	0.42
44:BO:123:LYS:N	44:BO:126:ARG:HG3	2.34	0.42
44:BO:50:TYR:HD1	44:BO:55:LYS:HA	1.83	0.42
45:BP:14:GLY:O	45:BP:15:ARG:HG3	2.19	0.42
46:BQ:6:GLY:N	46:BQ:67:GLU:OE1	2.43	0.42
34:BA:750:G:O2'	48:BS:23:GLY:O	2.35	0.42
48:BS:54:ARG:O	48:BS:55:GLY:C	2.56	0.42
50:BU:27:PHE:O	50:BU:27:PHE:CD2	2.72	0.42
34:BA:586:C:P	50:BU:34:LYS:HZ2	2.42	0.42
51:BV:22:VAL:C	51:BV:24:ALA:N	2.71	0.42
51:BV:58:LEU:HD13	51:BV:66:LEU:CD2	2.49	0.42
52:BW:22:LEU:CA	52:BW:25:LYS:NZ	2.83	0.42
52:BW:30:LEU:HB2	52:BW:48:THR:HG22	2.00	0.42
52:BW:63:THR:HG22	52:BW:64:GLU:N	2.33	0.42
53:BX:53:LEU:HD12	53:BX:100:ILE:HG13	2.00	0.42
53:BX:22:ARG:O	53:BX:23:ARG:C	2.57	0.42
53:BX:24:LEU:O	53:BX:25:ARG:C	2.58	0.42
57:BZ:17:GLY:HA3	57:BZ:20:THR:HG21	1.93	0.42
57:BZ:275:ALA:O	57:BZ:278:GLY:N	2.36	0.42
57:BZ:400:TYR:HD1	57:BZ:443:ILE:O	1.95	0.42
57:BZ:406:ASP:OD1	57:BZ:407:VAL:HG22	2.19	0.42
57:BZ:480:VAL:O	57:BZ:480:VAL:HG13	2.19	0.42
56:BD:51:U:O4	56:BD:63:G:N1	2.52	0.42
57:BZ:537:CYS:O	57:BZ:538:LEU:HD13	2.19	0.42
8:AH:150:ALA:O	8:AH:151:ILE:C	2.55	0.42
34:BA:443:C:N1	34:BA:492:G:N2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1067:A:C4	1:AA:1068:G:O6	2.72	0.42
1:AA:1068:G:O4'	1:AA:1096:A:H4'	2.19	0.42
1:AA:1103:A:H2'	1:AA:1104:C:OP1	2.19	0.42
1:AA:1148:A:N1	1:AA:1149:G:C6	2.87	0.42
1:AA:1267:U:HO2'	1:AA:1268:A:P	2.41	0.42
1:AA:1298:C:C4	1:AA:1299:G:C6	3.08	0.42
1:AA:1343:G:H3'	1:AA:1344:G:H5''	2.00	0.42
1:AA:1459:G:O6	1:AA:1461:G:C5	2.72	0.42
1:AA:1561:G:O5'	1:AA:1561:G:H8	2.02	0.42
1:AA:1674:G:H21	1:AA:1676:A:H61	1.67	0.42
1:AA:1704:G:C6	1:AA:1705:G:C5	3.08	0.42
1:AA:1826:G:N2	1:AA:1827:C:C1'	2.82	0.42
1:AA:1850:G:H2'	1:AA:1851:U:O4'	2.19	0.42
1:AA:1863:G:C5	1:AA:1864:U:C4	3.07	0.42
1:AA:1945:G:C2'	1:AA:1946:U:O5'	2.68	0.42
1:AA:2056:G:N2	1:AA:2057:A:C4	2.88	0.42
1:AA:2115:G:C2	1:AA:2117:A:C8	3.07	0.42
1:AA:2199:A:C2	1:AA:2205:C:C6	3.07	0.42
1:AA:2210:G:O2'	1:AA:2211:G:OP2	2.33	0.42
1:AA:2476:A:H2'	1:AA:2477:C:O4'	2.19	0.42
1:AA:2447:G:H3'	1:AA:2499:C:OP2	2.10	0.42
1:AA:2509:G:N1	1:AA:2580:U:C2	2.87	0.42
1:AA:2548:G:O6	1:AA:2561:A:N6	2.53	0.42
1:AA:2564:A:C5	1:AA:2565:A:N7	2.88	0.42
1:AA:2598:A:OP1	4:AD:234:GLY:CA	2.51	0.42
1:AA:2666:C:C6	1:AA:2666:C:C3'	3.02	0.42
1:AA:2675:A:OP1	10:AL:32:TYR:CE2	2.71	0.42
1:AA:2704:C:H2'	1:AA:2705:A:C1'	2.49	0.42
1:AA:270(L):U:O2	1:AA:270(M):U:C5	2.72	0.42
1:AA:1051:G:C8	1:AA:2752:C:OP1	2.73	0.42
1:AA:2790:A:H4'	1:AA:2791:C:OP1	2.19	0.42
1:AA:2807:G:C5	1:AA:2808:U:O4	2.72	0.42
1:AA:2813:A:H2'	1:AA:2814:C:H6	1.84	0.42
1:AA:2817:G:C2	1:AA:2830:G:C2	3.07	0.42
1:AA:2848:G:O2'	1:AA:2849:U:O5'	2.34	0.42
1:AA:287:C:C2'	1:AA:287:C:O2	2.65	0.42
1:AA:307:G:O2'	1:AA:309:G:N7	2.35	0.42
1:AA:295:G:N9	1:AA:345:A:C2	2.87	0.42
1:AA:408:G:H2'	1:AA:409:C:H6	1.83	0.42
1:AA:438:G:H2'	1:AA:439:G:O5'	2.19	0.42
1:AA:449:A:O2'	1:AA:450:G:C5'	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:61:G:C6	1:AA:62:C:N3	2.87	0.42
1:AA:636:G:H2'	11:AM:113:LYS:NZ	2.29	0.42
1:AA:668:G:H5'	1:AA:669:G:OP2	2.19	0.42
1:AA:6:A:N1	1:AA:2897:U:C6	2.87	0.42
1:AA:702:G:H2'	1:AA:703:U:O5'	2.20	0.42
1:AA:70:G:C3'	1:AA:71:A:H5'	2.48	0.42
1:AA:763:G:H1'	1:AA:765:G:O4'	2.20	0.42
1:AA:769:G:C6	1:AA:770:G:N7	2.88	0.42
1:AA:805:G:C6	1:AA:2068:U:OP1	2.72	0.42
1:AA:874:G:C6	1:AA:875:G:O6	2.73	0.42
1:AA:919:G:C4	1:AA:920:G:N7	2.86	0.42
1:AA:821:A:C8	1:AA:946:G:C4	3.08	0.42
1:AA:974:G:N3	1:AA:1186:G:C5	2.87	0.42
1:AA:977:G:C8	1:AA:987:G:N2	2.87	0.42
2:AB:15:A:H4'	2:AB:16:G:OP2	2.19	0.42
2:AB:71:C:C3'	2:AB:72:G:C5'	2.95	0.42
3:AC:201:PRO:C	3:AC:203:GLY:H	2.22	0.42
3:AC:21:THR:HG22	3:AC:225:ASN:HD21	1.83	0.42
3:AC:75:LEU:HD22	3:AC:110:PHE:CE1	2.51	0.42
4:AD:160:GLY:O	4:AD:162:SER:N	2.52	0.42
4:AD:39:LYS:CA	4:AD:62:TYR:HB2	2.31	0.42
4:AD:75:ILE:O	4:AD:75:ILE:HG22	2.19	0.42
5:AE:105:THR:OG1	5:AE:165:VAL:C	2.58	0.42
5:AE:119:ARG:HD2	5:AE:156:MET:N	2.29	0.42
5:AE:178:GLU:H	5:AE:178:GLU:CD	2.17	0.42
5:AE:186:GLY:O	5:AE:188:VAL:N	2.49	0.42
5:AE:40:GLU:C	5:AE:41:LYS:CE	2.87	0.42
6:AF:11:VAL:HG12	6:AF:13:SER:H	1.83	0.42
6:AF:29:ASN:ND2	6:AF:30:PRO:N	2.67	0.42
7:AG:108:ASN:OD1	7:AG:177:GLY:HA2	2.19	0.42
7:AG:141:PHE:O	7:AG:143:GLU:N	2.52	0.42
7:AG:162:THR:O	7:AG:164:GLU:HG2	2.19	0.42
7:AG:34:LEU:CD2	7:AG:172:LEU:HD11	2.48	0.42
8:AH:23:ARG:NH2	8:AH:35:VAL:C	2.73	0.42
32:AJ:51:ALA:O	32:AJ:52:ILE:HB	2.19	0.42
9:AK:39:ARG:HB2	9:AK:48:MET:SD	2.60	0.42
9:AK:39:ARG:O	9:AK:42:TRP:HB3	2.19	0.42
9:AK:74:ARG:CD	9:AK:82:LEU:CD1	2.96	0.42
9:AK:7:LYS:CD	9:AK:39:ARG:NH2	2.82	0.42
9:AK:87:LEU:HD21	9:AK:88:GLU:OE1	2.18	0.42
10:AL:113:LYS:O	10:AL:114:ILE:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:36:ALA:O	12:AN:37:LEU:CD2	2.67	0.42
13:AO:54:LEU:HA	13:AO:57:ARG:HB2	2.01	0.42
13:AO:85:PRO:C	13:AO:87:TYR:N	2.72	0.42
14:AP:23:ARG:HA	14:AP:23:ARG:HD2	1.25	0.42
14:AP:70:GLY:CA	14:AP:73:LEU:HD22	2.43	0.42
14:AP:9:ARG:HA	14:AP:12:PHE:HE2	1.80	0.42
16:AR:45:TYR:O	16:AR:47:TYR:N	2.52	0.42
16:AR:74:LEU:HB3	16:AR:78:THR:HB	1.99	0.42
16:AR:88:ILE:N	17:AS:52:VAL:CG2	2.71	0.42
16:AR:94:ASN:O	16:AR:96:ALA:N	2.52	0.42
16:AR:98:LEU:HA	16:AR:101:ARG:CG	2.45	0.42
19:AU:14:SER:O	19:AU:17:ALA:HB3	2.19	0.42
19:AU:89:ILE:O	19:AU:92:LEU:HB2	2.18	0.42
21:AW:12:GLY:O	21:AW:13:GLU:C	2.57	0.42
2:AB:104:A:O2'	21:AW:29:TYR:OH	2.19	0.42
21:AW:69:THR:HG1	21:AW:89:PHE:C	2.18	0.42
21:AW:77:ASP:O	21:AW:78:LYS:O	2.37	0.42
21:AW:30:ASN:HA	21:AW:89:PHE:CD2	2.54	0.42
22:AX:50:ASN:HB2	22:AX:81:VAL:HG23	1.99	0.42
1:AA:850:C:C5'	24:AZ:18:ASP:HB2	2.50	0.42
24:AZ:45:GLY:HA2	24:AZ:48:GLU:CG	2.46	0.42
34:BA:1080:A:N7	34:BA:1081:G:C1'	2.82	0.42
34:BA:1088:G:N2	34:BA:1089:G:H1'	2.34	0.42
34:BA:1091:U:O2	34:BA:1093:A:C8	2.72	0.42
34:BA:1272:G:H2'	34:BA:1273:G:C8	2.49	0.42
34:BA:1316:G:N2	34:BA:1319:A:C5	2.84	0.42
34:BA:1319:A:C4'	52:BW:37:ARG:CB	2.97	0.42
34:BA:1358:U:C5	34:BA:1359:C:C5	3.06	0.42
34:BA:1360:A:N1	34:BA:1361:G:N1	2.67	0.42
34:BA:1442:G:H2'	34:BA:1442:G:N3	2.33	0.42
34:BA:144:G:C4	34:BA:179:A:C2	3.07	0.42
34:BA:1499:A:C2'	34:BA:1500:A:C5'	2.87	0.42
34:BA:151:A:N6	34:BA:171:A:C6	2.87	0.42
34:BA:141:A:O2'	34:BA:182:U:C6	2.58	0.42
34:BA:20:U:N3	34:BA:21:G:C5	2.88	0.42
34:BA:244:U:H2'	34:BA:245:C:OP2	2.18	0.42
34:BA:283:C:C2	34:BA:284:G:C8	3.07	0.42
34:BA:363:A:H5''	45:BP:105:TYR:OH	2.19	0.42
34:BA:60:A:OP2	34:BA:387:U:H4'	2.19	0.42
34:BA:556:C:H2'	34:BA:557:G:O4'	2.19	0.42
34:BA:563:A:O2'	34:BA:564:C:OP2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:686:U:O4	34:BA:703:G:O2'	2.37	0.42
34:BA:774:G:C6	34:BA:775:G:C5	3.07	0.42
34:BA:812:C:O4'	34:BA:813:U:C6	2.73	0.42
34:BA:828:A:H8	34:BA:829:G:C8	2.36	0.42
34:BA:872:A:C2	34:BA:874:G:N7	2.87	0.42
34:BA:874:G:H2'	34:BA:875:C:H5'	2.01	0.42
34:BA:91:C:N3	34:BA:92:G:N7	2.67	0.42
34:BA:924:C:H2'	34:BA:925:G:O5'	2.19	0.42
55:BC:16:U:C4	55:BC:19:G:OP2	2.70	0.42
35:BF:114:ARG:HD3	35:BF:114:ARG:C	2.39	0.42
35:BF:120:ALA:O	35:BF:121:LEU:C	2.56	0.42
35:BF:171:ALA:O	35:BF:174:VAL:CB	2.63	0.42
35:BF:163:PHE:CD1	35:BF:185:ILE:O	2.72	0.42
35:BF:221:LEU:O	35:BF:221:LEU:HD13	2.19	0.42
36:BG:121:ALA:O	36:BG:122:GLU:C	2.56	0.42
36:BG:40:ARG:O	36:BG:44:GLU:HG3	2.19	0.42
36:BG:66:VAL:O	36:BG:102:ASN:HB2	2.19	0.42
37:BH:126:ILE:H	37:BH:132:ARG:HD2	1.84	0.42
37:BH:143:GLY:HA2	37:BH:185:PHE:CD1	2.53	0.42
37:BH:26:CYS:CA	37:BH:31:CYS:HB3	2.40	0.42
38:BI:108:ALA:HA	38:BI:111:GLU:CD	2.38	0.42
39:BJ:97:PHE:CE2	51:BV:65:ILE:HD11	2.54	0.42
40:BK:101:LEU:O	40:BK:102:ARG:C	2.58	0.42
40:BK:74:GLU:HA	40:BK:145:ALA:HB3	1.98	0.42
41:BL:35:ILE:N	41:BL:35:ILE:HD13	2.34	0.42
34:BA:1348:U:P	42:BM:109:VAL:HA	2.60	0.42
43:BN:13:HIS:O	43:BN:13:HIS:ND1	2.52	0.42
43:BN:30:SER:OG	43:BN:81:THR:HA	2.19	0.42
44:BO:99:GLN:HA	44:BO:105:VAL:HG22	2.00	0.42
44:BO:22:HIS:ND1	44:BO:29:ILE:CD1	2.80	0.42
44:BO:99:GLN:O	44:BO:105:VAL:CG2	2.67	0.42
34:BA:538:G:C3'	45:BP:114:LYS:HD3	2.48	0.42
46:BQ:52:GLU:HA	46:BQ:55:ARG:HD3	2.01	0.42
43:BN:49:VAL:CG1	47:BR:41:ARG:HB2	2.49	0.42
48:BS:12:ILE:HG12	48:BS:27:VAL:HG13	2.01	0.42
48:BS:62:GLN:CA	48:BS:65:ARG:NH1	2.81	0.42
49:BT:32:TYR:O	49:BT:33:ILE:C	2.57	0.42
49:BT:57:ARG:O	49:BT:60:LEU:N	2.52	0.42
34:BA:760:G:N1	50:BU:105:ALA:C	2.68	0.42
50:BU:58:GLU:OE1	50:BU:75:ARG:N	2.52	0.42
51:BV:43:PHE:HD2	51:BV:56:THR:HG22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:186(B):C:H4'	53:BX:89:ARG:NH2	2.33	0.42
54:BY:3:LYS:HZ2	54:BY:13:ILE:HG21	1.82	0.42
57:BZ:205:PHE:CE1	57:BZ:229:GLY:O	2.60	0.42
57:BZ:267:LEU:O	57:BZ:268:ALA:HB3	2.19	0.42
57:BZ:325:PHE:HB3	57:BZ:330:GLN:HB3	2.01	0.42
56:BD:63:G:C2'	56:BD:64:A:H5'	2.49	0.42
1:AA:884:C:O2	1:AA:885:C:H5'	2.18	0.42
1:AA:889:C:H3'	1:AA:889:C:O2	2.19	0.42
45:BP:126:LYS:HZ2	45:BP:128:ALA:N	2.12	0.42
57:BZ:411:HIS:HD2	57:BZ:459:THR:HG23	1.84	0.42
14:AP:33:LYS:CD	14:AP:54:LEU:HD21	2.49	0.42
3:AC:148:ASN:HD22	3:AC:151:GLU:HB2	1.84	0.42
57:BZ:184:THR:N	57:BZ:185:PRO:CD	2.74	0.42
42:BM:99:LEU:H	42:BM:99:LEU:CD2	2.31	0.42
49:BT:46:PRO:CD	49:BT:47:ASP:H	2.32	0.42
1:AA:1052:C:H6	1:AA:1052:C:H5'	1.84	0.42
1:AA:107:C:O2'	1:AA:108:U:O5'	2.37	0.42
1:AA:1120:G:O2'	1:AA:1121:C:H5'	2.19	0.42
1:AA:1022:G:N7	1:AA:1139:G:C6	2.87	0.42
1:AA:137(A):G:N1	1:AA:138:G:O6	2.52	0.42
1:AA:1387:C:C2'	1:AA:1388:G:H8	2.25	0.42
1:AA:1391:U:C2	1:AA:1394:U:H5	2.37	0.42
1:AA:138:G:H21	1:AA:140:A:H62	1.64	0.42
1:AA:1422:G:N2	1:AA:1423:G:C4	2.87	0.42
1:AA:1423:G:C2	1:AA:1424:G:C8	3.08	0.42
1:AA:1467:C:H4'	1:AA:1467:C:OP1	2.20	0.42
1:AA:1560:G:C5	1:AA:1561:G:C5	3.07	0.42
1:AA:164:U:O2	1:AA:164:U:H3'	2.20	0.42
1:AA:1675:C:C4	5:AE:128:SER:CB	3.02	0.42
1:AA:1732:A:OP1	1:AA:1733:G:C4	2.72	0.42
1:AA:174:C:H6	1:AA:174:C:H5''	1.84	0.42
1:AA:1806:C:H2'	1:AA:1807:G:H5'	2.01	0.42
1:AA:1902:C:C4	1:AA:1903:G:C4	3.07	0.42
1:AA:1996:C:O2	1:AA:1997:G:C4'	2.65	0.42
1:AA:2115:G:C4	1:AA:2117:A:N7	2.87	0.42
1:AA:2132:U:C5'	1:AA:2133:G:H5'	2.42	0.42
1:AA:2149:G:N2	1:AA:2150:U:H1'	2.34	0.42
1:AA:2175:C:C2	1:AA:2176:A:C8	3.08	0.42
1:AA:2239:G:N3	1:AA:2240:C:C6	2.87	0.42
1:AA:2286:A:C5'	1:AA:2287:A:H1'	2.49	0.42
1:AA:2357:U:H2'	1:AA:2358:G:O5'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2353:G:N1	1:AA:2365:G:C2	2.87	0.42
1:AA:2418:A:C4	1:AA:2419:U:C6	3.07	0.42
1:AA:2434:A:O4'	1:AA:2434:A:OP2	2.38	0.42
1:AA:2530:A:C3'	1:AA:2531:A:C5'	2.90	0.42
1:AA:2532:G:O5'	1:AA:2532:G:H8	2.02	0.42
1:AA:2617:C:C2'	1:AA:2618:G:O5'	2.66	0.42
1:AA:2685:G:O3'	10:AL:66:LYS:NZ	2.49	0.42
1:AA:271(C):U:O2'	1:AA:271:G:H4'	2.20	0.42
1:AA:2782:G:P	1:AA:2782:G:O4'	2.77	0.42
1:AA:2785:C:C2	1:AA:2786:U:C5	3.08	0.42
1:AA:2833:G:N3	1:AA:2833:G:C2'	2.79	0.42
1:AA:2872:G:N2	1:AA:2873:A:C6	2.88	0.42
1:AA:2899:G:H2'	1:AA:2900:A:H8	1.84	0.42
1:AA:301:G:C6	1:AA:317:G:C6	3.08	0.42
1:AA:317:G:N2	1:AA:334:C:O2	2.53	0.42
1:AA:374:A:C4	1:AA:375:C:C6	3.08	0.42
1:AA:503:A:O2'	1:AA:506:G:OP2	2.37	0.42
1:AA:586:A:OP1	6:AF:89:VAL:HG21	2.17	0.42
1:AA:598:G:O2'	11:AM:14:LYS:CE	2.67	0.42
1:AA:627:A:H5''	11:AM:75:ILE:CG2	2.49	0.42
1:AA:631:A:OP1	1:AA:631:A:C8	2.73	0.42
1:AA:662:G:OP1	11:AM:19:VAL:CG1	2.68	0.42
1:AA:734:A:N3	1:AA:735:A:C8	2.87	0.42
1:AA:824:A:C3'	1:AA:825:C:C6	3.02	0.42
1:AA:837:C:C2'	1:AA:838:C:O5'	2.67	0.42
1:AA:904:C:H2'	1:AA:905:U:H5'	2.00	0.42
1:AA:906:G:H5'	1:AA:907:U:OP2	2.19	0.42
1:AA:969:U:H2'	1:AA:970:C:C5'	2.50	0.42
1:AA:820:A:C8	1:AA:973:A:N6	2.87	0.42
2:AB:38:C:C6	2:AB:38:C:O5'	2.72	0.42
2:AB:44:G:C2	2:AB:48:A:H1'	2.51	0.42
2:AB:71:C:C2'	2:AB:71:C:O2	2.63	0.42
3:AC:103:ILE:HD13	3:AC:110:PHE:HZ	1.83	0.42
1:AA:2173:A:N3	3:AC:218:MET:CE	2.77	0.42
4:AD:101:GLU:OE1	4:AD:102:LYS:N	2.52	0.42
1:AA:1818:U:H3	4:AD:155:LEU:H	1.67	0.42
4:AD:155:LEU:CG	4:AD:155:LEU:O	2.66	0.42
1:AA:1971:A:C2	4:AD:239:ARG:CB	3.02	0.42
1:AA:1971:A:C2	4:AD:240:ALA:N	2.85	0.42
4:AD:265:PRO:O	4:AD:267:SER:N	2.53	0.42
4:AD:90:ALA:HB3	4:AD:159:ALA:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:176:ILE:HA	5:AE:177:PRO:HD2	1.76	0.42
5:AE:185:LYS:O	5:AE:185:LYS:HG2	2.19	0.42
1:AA:449:A:P	6:AF:85:GLY:HA2	2.59	0.42
7:AG:39:ILE:CG1	7:AG:157:ILE:CD1	2.93	0.42
7:AG:165:THR:O	7:AG:168:GLU:HB2	2.19	0.42
7:AG:33:ARG:CB	7:AG:33:ARG:HH21	2.32	0.42
8:AH:103:LEU:O	8:AH:113:VAL:HG12	2.19	0.42
8:AH:135:GLY:C	8:AH:136:ILE:HG22	2.39	0.42
8:AH:23:ARG:HH21	8:AH:35:VAL:C	2.22	0.42
1:AA:1068:G:P	32:AJ:21:PRO:HG2	2.59	0.42
32:AJ:62:ASP:CB	32:AJ:63:ARG:HA	2.50	0.42
9:AK:70:LYS:CD	9:AK:86:PRO:HA	2.50	0.42
10:AL:106:LEU:HD12	10:AL:107:ARG:HA	2.00	0.42
10:AL:112:MET:O	10:AL:115:VAL:CA	2.67	0.42
10:AL:22:ILE:HB	10:AL:40:VAL:HG11	2.01	0.42
10:AL:13:ASN:N	10:AL:94:ARG:CB	2.82	0.42
12:AN:34:LEU:O	12:AN:103:MET:O	2.37	0.42
12:AN:6:ARG:HG2	12:AN:70:PRO:CG	2.49	0.42
12:AN:89:ASN:ND2	12:AN:89:ASN:N	2.56	0.42
12:AN:89:ASN:HB3	12:AN:91:GLU:OE1	2.19	0.42
13:AO:20:LEU:HD13	13:AO:21:TYR:CA	2.49	0.42
13:AO:53:HIS:CD2	13:AO:56:LYS:HZ1	2.37	0.42
13:AO:54:LEU:HG	13:AO:57:ARG:HD3	2.01	0.42
14:AP:17:ARG:O	14:AP:20:ARG:HG2	2.19	0.42
14:AP:18:ILE:HD12	14:AP:18:ILE:N	2.35	0.42
14:AP:19:LYS:O	14:AP:20:ARG:O	2.37	0.42
15:AQ:64:ARG:O	15:AQ:65:LYS:O	2.37	0.42
16:AR:17:ILE:H	16:AR:17:ILE:HG12	1.60	0.42
16:AR:28:ARG:HA	16:AR:31:SER:OG	2.19	0.42
16:AR:86:ALA:O	16:AR:90:VAL:CG2	2.68	0.42
17:AS:33:VAL:HG12	17:AS:34:GLU:H	1.81	0.42
19:AU:15:GLU:N	19:AU:16:LYS:HE2	2.35	0.42
19:AU:66:LEU:HG	19:AU:70:LEU:HA	2.01	0.42
20:AV:74:PRO:CG	20:AV:100:ALA:HB3	2.45	0.42
20:AV:70:SER:O	20:AV:70:SER:OG	2.35	0.42
21:AW:4:ARG:HD3	21:AW:38:TYR:CA	2.49	0.42
34:BA:1057:G:OP1	36:BG:155:GLY:HA2	2.20	0.42
34:BA:61:G:C6	34:BA:107:G:O6	2.72	0.42
34:BA:1152:A:C2'	34:BA:1153:C:C5'	2.96	0.42
34:BA:1170:A:H8	34:BA:1170:A:H3'	1.83	0.42
34:BA:1193:G:C2'	34:BA:1194:U:O5'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1194:U:C4	34:BA:1195:C:C4	3.08	0.42
34:BA:1219:U:C1'	52:BW:34:TRP:HZ2	2.25	0.42
34:BA:1256:A:H61	34:BA:1278:U:C2'	2.32	0.42
34:BA:1291:G:C6	34:BA:1292:U:C4	3.07	0.42
34:BA:1316:G:O3'	47:BR:17:LYS:HD2	2.19	0.42
34:BA:1328:C:H2'	34:BA:1329:A:H8	1.84	0.42
34:BA:1347:G:H3'	42:BM:107:ARG:HB3	2.02	0.42
34:BA:1251:A:O2'	34:BA:1369:C:O2'	2.09	0.42
34:BA:1376:U:H2'	34:BA:1377:A:H8	1.75	0.42
34:BA:1393:U:C2'	34:BA:1394:A:OP2	2.68	0.42
34:BA:1411:C:C2	34:BA:1412:C:C6	3.08	0.42
34:BA:145:G:C6	34:BA:178:C:N4	2.88	0.42
34:BA:151:A:C6	34:BA:152:A:N3	2.87	0.42
34:BA:50:A:H2	34:BA:360:A:C2'	2.33	0.42
34:BA:390:C:H2'	34:BA:391:G:O5'	2.19	0.42
34:BA:408:A:C4	34:BA:409:G:N7	2.88	0.42
34:BA:452:A:C6	34:BA:453:A:N6	2.88	0.42
34:BA:448:A:C4	34:BA:487:A:C2	3.08	0.42
34:BA:509:A:N7	34:BA:510:A:N6	2.68	0.42
34:BA:61:G:C6	34:BA:62:U:N3	2.88	0.42
34:BA:783:C:H2'	34:BA:784:C:H6	1.85	0.42
34:BA:780:A:C2	34:BA:803:G:C6	3.04	0.42
34:BA:823:G:C6	34:BA:878:G:C6	3.07	0.42
34:BA:958:A:O2'	34:BA:959:A:H5'	2.20	0.42
34:BA:979:C:OP2	34:BA:981:U:N3	2.52	0.42
56:BE:15:G:C2	56:BE:16:U:O4	2.71	0.42
35:BF:112:VAL:O	35:BF:116:GLU:OE2	2.38	0.42
35:BF:118:LEU:O	35:BF:119:GLU:C	2.57	0.42
35:BF:47:THR:HB	35:BF:48:MET:SD	2.59	0.42
35:BF:55:PHE:HD2	35:BF:221:LEU:HB2	1.85	0.42
36:BG:147:LYS:HA	36:BG:147:LYS:HE3	2.02	0.42
36:BG:59:ARG:NE	36:BG:64:VAL:CA	2.64	0.42
37:BH:128:VAL:CG2	37:BH:133:VAL:N	2.82	0.42
37:BH:197:PRO:O	37:BH:198:VAL:CG1	2.60	0.42
38:BI:50:GLU:O	38:BI:51:VAL:C	2.57	0.42
38:BI:89:ILE:HD11	38:BI:122:GLU:OE2	2.19	0.42
39:BJ:78:GLU:HA	39:BJ:81:ILE:HD12	2.02	0.42
34:BA:1298:C:C6	40:BK:114:ARG:HD3	2.53	0.42
40:BK:111:ARG:NH1	40:BK:122:HIS:ND1	2.67	0.42
40:BK:69:VAL:O	40:BK:138:LYS:HD2	2.19	0.42
42:BM:33:PHE:HE1	42:BM:47:LEU:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:81:THR:O	43:BN:83:GLU:N	2.52	0.42
44:BO:21:ILE:O	44:BO:21:ILE:HG13	2.19	0.42
34:BA:683:G:N3	44:BO:38:ASN:ND2	2.68	0.42
44:BO:44:SER:O	44:BO:47:VAL:HB	2.20	0.42
44:BO:41:THR:HB	44:BO:71:LYS:CD	2.50	0.42
45:BP:100:ILE:O	45:BP:101:VAL:HG22	2.19	0.42
48:BS:29:VAL:O	48:BS:33:THR:OG1	2.25	0.42
48:BS:3:ILE:HA	48:BS:38:ARG:HH12	1.84	0.42
49:BT:40:ASP:O	49:BT:40:ASP:OD1	2.36	0.42
49:BT:58:TYR:O	49:BT:59:TRP:C	2.57	0.42
51:BV:62:GLU:HB3	51:BV:66:LEU:HD23	2.00	0.42
52:BW:33:THR:HG21	52:BW:49:ILE:CD1	2.43	0.42
52:BW:3:ARG:CG	52:BW:3:ARG:NH2	2.82	0.42
53:BX:49:ALA:HB3	53:BX:99:LEU:CG	2.49	0.42
53:BX:82:SER:OG	53:BX:83:ARG:N	2.52	0.42
57:BZ:129:LYS:C	57:BZ:131:ASP:N	2.73	0.42
57:BZ:136:ARG:NH1	57:BZ:139:TRP:CZ2	2.88	0.42
57:BZ:13:His:C	57:BZ:15:ASP:N	2.73	0.42
57:BZ:211:GLN:HB3	57:BZ:223:ILE:HG21	2.01	0.42
57:BZ:239:ILE:CG2	57:BZ:240:ILE:N	2.81	0.42
57:BZ:305:PRO:HB3	57:BZ:361:ARG:HE	1.83	0.42
57:BZ:400:TYR:H	57:BZ:470:SER:N	2.17	0.42
57:BZ:404:THR:HG22	57:BZ:439:LEU:HB2	1.71	0.42
57:BZ:543:LEU:HB3	57:BZ:544:THR:CB	2.49	0.42
46:BQ:50:GLU:HG3	46:BQ:54:VAL:CG2	2.50	0.42
55:BC:26:A:C5	55:BC:27:G:C5	3.07	0.42
1:AA:1483:G:N2	1:AA:1507:A:O2'	2.53	0.42
1:AA:1588:C:C2	1:AA:1589:C:C5	3.07	0.42
57:BZ:293:ASN:CA	57:BZ:294:VAL:HB	2.49	0.42
57:BZ:215:ASN:C	57:BZ:217:TYR:N	2.73	0.42
1:AA:1069:A:N7	1:AA:1073:A:C8	2.87	0.42
1:AA:1152:C:OP1	16:AR:81:HIS:CE1	2.73	0.42
1:AA:1197:G:H2'	1:AA:1197:G:N3	2.34	0.42
1:AA:1358:G:O2'	1:AA:1373:A:N6	2.40	0.42
1:AA:1358:G:H2'	1:AA:1371:G:N2	2.34	0.42
1:AA:1385:G:O2'	1:AA:1386:C:C5'	2.68	0.42
1:AA:1426:G:C3'	1:AA:1427:A:H5''	2.50	0.42
1:AA:1496:A:C5	1:AA:1577:C:O2'	2.72	0.42
1:AA:1657:C:C2'	1:AA:1658:C:H6	2.21	0.42
1:AA:1726:G:C5	1:AA:1727:U:C4	3.08	0.42
1:AA:1811:G:C2'	1:AA:1812:A:O4'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1817:G:H2'	1:AA:1818:U:C5'	2.49	0.42
1:AA:1843:C:O2	1:AA:1844:C:C6	2.73	0.42
1:AA:1864:U:C2'	1:AA:1869:G:C5'	2.90	0.42
1:AA:1949:G:N2	1:AA:1958:C:N3	2.66	0.42
1:AA:1935:G:C5	1:AA:1962:C:C5	3.08	0.42
1:AA:1964:G:OP1	1:AA:1964:G:H8	2.02	0.42
1:AA:1967:C:H2'	1:AA:1968:G:H5'	2.00	0.42
1:AA:197:A:C4	1:AA:198:C:C6	3.08	0.42
1:AA:1268:A:OP1	1:AA:2006:C:OP1	2.36	0.42
1:AA:2083:G:N3	1:AA:2084:C:C6	2.88	0.42
1:AA:2096:U:C2	1:AA:2097:C:H5	2.37	0.42
1:AA:2115:G:O2'	1:AA:2171:A:N6	2.52	0.42
1:AA:2123:G:H1'	3:AC:44:HIS:CG	2.55	0.42
1:AA:215:G:H1'	1:AA:216:A:C5'	2.49	0.42
1:AA:2353:G:C6	1:AA:2365:G:C2	3.08	0.42
1:AA:2395:C:N4	1:AA:2396:G:N7	2.67	0.42
1:AA:242:G:H2'	1:AA:254:G:H1	1.85	0.42
1:AA:2440:C:C2'	1:AA:2441:C:O5'	2.67	0.42
1:AA:2518:A:H5''	1:AA:2519:U:OP2	2.19	0.42
1:AA:2544:G:H2'	1:AA:2545:G:C4'	2.48	0.42
1:AA:2588:G:N2	1:AA:2607:G:C5	2.87	0.42
1:AA:2737:G:C4	1:AA:2738:A:N7	2.87	0.42
1:AA:2740:A:C2'	1:AA:2741:A:H8	2.27	0.42
1:AA:2812:G:C6	1:AA:2813:A:C6	3.08	0.42
1:AA:2826:A:H2'	1:AA:2827:C:H5'	2.01	0.42
1:AA:2845:G:C4	1:AA:2846:G:C8	3.08	0.42
1:AA:2869:G:C2	1:AA:2870:C:C2	3.08	0.42
1:AA:310:A:C5	1:AA:312:G:C4	3.08	0.42
1:AA:316:C:H2'	1:AA:317:G:H8	1.85	0.42
1:AA:410:G:H5''	1:AA:411:G:P	2.60	0.42
1:AA:416:C:N3	1:AA:2407:G:O6	2.52	0.42
1:AA:483:A:C2	1:AA:484:C:C1'	3.03	0.42
1:AA:491:G:C2	1:AA:492:A:N3	2.88	0.42
1:AA:491:G:H2'	1:AA:492:A:C1'	2.49	0.42
1:AA:13:A:C2	1:AA:526:A:N7	2.88	0.42
1:AA:619:G:O6	6:AF:103:LYS:NZ	2.22	0.42
1:AA:627:A:H61	1:AA:638:G:C1'	2.15	0.42
1:AA:652:C:O5'	1:AA:652:C:C6	2.63	0.42
1:AA:707:G:C6	1:AA:708:C:C4	3.08	0.42
1:AA:73:A:H2'	1:AA:74:A:OP2	2.19	0.42
1:AA:774:A:C8	1:AA:775:G:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:825:C:O2'	1:AA:826:U:C5'	2.65	0.42
1:AA:860:U:H5	1:AA:2267:A:C4'	2.31	0.42
1:AA:863:A:C2	1:AA:864:G:C6	3.08	0.42
1:AA:978:G:N2	1:AA:979:G:C2	2.88	0.42
1:AA:985:C:O5'	1:AA:985:C:C6	2.72	0.42
2:AB:99:A:C2'	2:AB:100:G:H5'	2.49	0.42
3:AC:86:ALA:HB2	3:AC:149:ILE:HG12	2.00	0.42
3:AC:71:GLN:CG	3:AC:174:PRO:HD3	2.49	0.42
3:AC:10:LEU:CD1	3:AC:32:LEU:O	2.64	0.42
4:AD:147:LEU:CD2	4:AD:154:LYS:HG3	2.49	0.42
4:AD:8:PRO:CG	4:AD:26:LYS:HG3	2.46	0.42
4:AD:37:LEU:CD1	4:AD:64:ILE:N	2.79	0.42
4:AD:78:LYS:CD	4:AD:114:GLY:O	2.67	0.42
1:AA:1655:A:O3'	5:AE:114:ALA:HA	2.18	0.42
5:AE:133:LYS:CE	5:AE:137:HIS:CB	2.97	0.42
5:AE:186:GLY:C	5:AE:188:VAL:N	2.72	0.42
6:AF:153:SER:N	6:AF:190:GLU:HG3	2.30	0.42
6:AF:156:LEU:HA	6:AF:193:VAL:O	2.20	0.42
6:AF:5:ALA:O	6:AF:7:TYR:CD1	2.73	0.42
7:AG:57:ALA:HB1	7:AG:67:LYS:HG3	2.00	0.42
7:AG:50:ALA:HA	7:AG:70:VAL:HG13	2.01	0.42
7:AG:53:LEU:HA	7:AG:72:ARG:HH21	1.84	0.42
8:AH:85:LYS:CD	8:AH:145:ALA:CB	2.93	0.42
8:AH:25:LYS:NZ	8:AH:27:LYS:NZ	2.67	0.42
8:AH:6:ARG:H	8:AH:7:LEU:HD23	1.84	0.42
32:AJ:90:LYS:CE	32:AJ:90:LYS:HA	2.41	0.42
9:AK:25:ARG:O	9:AK:29:LYS:HG3	2.20	0.42
9:AK:62:VAL:C	9:AK:64:GLY:N	2.73	0.42
9:AK:77:GLY:O	9:AK:78:TYR:O	2.37	0.42
9:AK:95:PRO:CA	9:AK:98:VAL:HG23	2.46	0.42
10:AL:63:VAL:HB	10:AL:78:ARG:CD	2.48	0.42
10:AL:17:ARG:NH2	10:AL:98:VAL:O	2.52	0.42
10:AL:98:VAL:O	10:AL:98:VAL:CG2	2.66	0.42
11:AM:49:ARG:CG	11:AM:49:ARG:NH2	2.81	0.42
11:AM:77:ARG:CZ	11:AM:79:ARG:HB3	2.50	0.42
11:AM:84:ASN:C	11:AM:85:LEU:HD12	2.39	0.42
12:AN:37:LEU:HB2	12:AN:129:THR:HA	2.01	0.42
12:AN:43:THR:HG23	12:AN:46:GLN:NE2	2.34	0.42
12:AN:54:MET:O	12:AN:55:VAL:C	2.57	0.42
13:AO:109:ALA:O	13:AO:111:LEU:HG	2.20	0.42
13:AO:57:ARG:HH11	13:AO:57:ARG:CG	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:57:ARG:CZ	13:AO:62:ALA:HB2	2.44	0.42
14:AP:14:VAL:HG12	14:AP:15:ARG:H	1.81	0.42
14:AP:34:HIS:O	14:AP:35:ILE:O	2.37	0.42
14:AP:57:LYS:CE	14:AP:58:LEU:HB3	2.49	0.42
15:AQ:20:PRO:HA	15:AQ:22:PHE:CE1	2.54	0.42
15:AQ:6:LEU:CG	15:AQ:7:ILE:N	2.82	0.42
15:AQ:8:LYS:CA	15:AQ:11:GLU:OE1	2.67	0.42
16:AR:37:GLU:C	16:AR:39:LEU:N	2.70	0.42
1:AA:1224:G:C3'	17:AS:87:HIS:CE1	3.02	0.42
18:AT:15:ARG:C	18:AT:16:LYS:HZ2	2.18	0.42
18:AT:33:ARG:HH11	18:AT:36:LEU:CB	2.26	0.42
19:AU:73:ARG:HH11	19:AU:73:ARG:CB	2.12	0.42
20:AV:83:THR:CG2	20:AV:84:ARG:N	2.78	0.42
21:AW:103:ARG:O	21:AW:138:GLU:HA	2.20	0.42
21:AW:118:GLN:HE22	21:AW:119:GLU:C	2.23	0.42
21:AW:122:ARG:HB2	21:AW:171:ILE:HA	2.01	0.42
21:AW:175:VAL:HG22	21:AW:176:PRO:CD	2.37	0.42
21:AW:43:GLU:HA	21:AW:46:LYS:HZ2	1.85	0.42
22:AX:38:VAL:CG1	22:AX:45:PHE:CE1	3.03	0.42
23:AY:19:LEU:HD13	23:AY:20:VAL:CA	2.49	0.42
23:AY:50:ARG:CB	23:AY:54:ARG:HH12	2.31	0.42
34:BA:1044:A:C6	34:BA:1045:C:H1'	2.55	0.42
34:BA:1076:C:O2'	34:BA:1077:G:H5'	2.19	0.42
34:BA:1109:C:H2'	34:BA:1110:A:C5'	2.49	0.42
34:BA:1160:G:O6	34:BA:1181:G:N1	2.52	0.42
34:BA:1161:C:C2	34:BA:1162:C:N4	2.87	0.42
34:BA:1163:C:HO2'	34:BA:1164:G:H5'	1.83	0.42
34:BA:1194:U:H5'	38:BI:22:GLY:O	2.19	0.42
34:BA:1250:A:H2'	34:BA:1251:A:O4'	2.19	0.42
34:BA:1261:A:C2	34:BA:1262:C:N3	2.88	0.42
34:BA:1317:C:C5	34:BA:1318:A:C4	2.86	0.42
34:BA:1333:A:H2'	34:BA:1334:G:H8	1.80	0.42
34:BA:1348:U:C2	34:BA:1349:A:C8	3.08	0.42
34:BA:1433:A:N1	34:BA:1434:A:N3	2.67	0.42
34:BA:1486:G:H3'	34:BA:1487:G:H5''	2.02	0.42
34:BA:254:G:N2	50:BU:16:GLN:OE1	2.53	0.42
34:BA:265:G:C8	34:BA:267:C:C4	3.08	0.42
34:BA:317:G:C2	34:BA:318:G:C8	3.08	0.42
34:BA:377:G:H2'	34:BA:378:G:H8	1.84	0.42
34:BA:440:A:C2'	34:BA:442:C:H6	2.31	0.42
34:BA:450:G:N7	34:BA:481:G:C5	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:519:C:C5	34:BA:520:A:C2	3.07	0.42
34:BA:608:A:C2'	34:BA:608:A:N3	2.81	0.42
34:BA:78:G:C6	34:BA:79:G:N7	2.88	0.42
34:BA:854:G:OP2	34:BA:871:U:O2	2.38	0.42
34:BA:865:A:C5	34:BA:866:C:O2	2.73	0.42
34:BA:880:C:OP2	45:BP:9:GLN:NE2	2.52	0.42
34:BA:921:U:H2'	34:BA:922:G:H8	1.83	0.42
34:BA:961:U:C2'	34:BA:962:C:O4'	2.65	0.42
34:BA:971:G:H2'	34:BA:1365:G:O2'	2.19	0.42
34:BA:979:C:C5	34:BA:980:C:C5	3.08	0.42
35:BF:105:PHE:O	35:BF:109:SER:CB	2.67	0.42
35:BF:115:LEU:O	35:BF:118:LEU:HD13	2.19	0.42
35:BF:163:PHE:CZ	35:BF:186:ALA:CA	3.02	0.42
35:BF:193:ASP:N	35:BF:193:ASP:OD1	2.41	0.42
35:BF:73:THR:O	35:BF:78:GLN:HB2	2.19	0.42
35:BF:92:TYR:CD2	35:BF:92:TYR:N	2.87	0.42
35:BF:8:LYS:HB3	35:BF:9:GLU:H	1.61	0.42
36:BG:180:ALA:O	36:BG:182:ILE:HG13	2.20	0.42
36:BG:182:ILE:HG22	36:BG:183:ASP:H	1.83	0.42
36:BG:194:GLY:O	36:BG:196:LEU:CD2	2.68	0.42
36:BG:34:LEU:O	36:BG:38:ARG:HG2	2.19	0.42
36:BG:43:LEU:CD1	36:BG:55:VAL:HG21	2.49	0.42
38:BI:107:ARG:HB3	38:BI:107:ARG:HH11	1.84	0.42
39:BJ:90:VAL:HG13	39:BJ:90:VAL:O	2.18	0.42
40:BK:41:ARG:HB3	40:BK:41:ARG:CZ	2.49	0.42
40:BK:71:PRO:CD	40:BK:96:GLN:HG3	2.50	0.42
40:BK:72:ARG:CG	40:BK:72:ARG:HH11	2.32	0.42
40:BK:79:ARG:HD3	40:BK:84:ASN:HB3	2.01	0.42
38:BI:78:HIS:HB3	41:BL:104:ARG:HD3	1.98	0.42
41:BL:26:VAL:HG22	41:BL:27:PRO:HD3	1.98	0.42
42:BM:116:LYS:HB3	42:BM:122:ALA:N	2.34	0.42
42:BM:33:PHE:CZ	42:BM:46:ALA:HB3	2.54	0.42
42:BM:5:TYR:OH	42:BM:16:ARG:CG	2.67	0.42
46:BQ:27:LYS:HB2	54:BY:7:ARG:HH12	1.75	0.42
46:BQ:91:ARG:O	46:BQ:96:LEU:HD21	2.19	0.42
36:BG:6:HIS:CB	47:BR:49:HIS:CE1	3.01	0.42
48:BS:54:ARG:CA	48:BS:57:LEU:HD13	2.49	0.42
50:BU:62:SER:HB3	50:BU:72:ARG:CD	2.48	0.42
50:BU:92:ARG:O	50:BU:93:GLN:C	2.57	0.42
51:BV:71:LYS:O	51:BV:75:ILE:HG13	2.19	0.42
52:BW:30:LEU:HD23	52:BW:32:LYS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:61:SER:O	53:BX:65:LYS:HG2	2.18	0.42
57:BZ:171:ILE:O	57:BZ:172:ALA:HB3	2.20	0.42
57:BZ:204:PRO:O	57:BZ:228:ARG:HB3	2.19	0.42
57:BZ:311:PHE:O	57:BZ:355:ALA:N	2.46	0.42
57:BZ:59:LYS:NZ	57:BZ:66:TRP:HZ2	2.17	0.42
56:BD:52:G:O6	56:BD:63:G:C6	2.73	0.42
56:BD:70:G:C8	56:BD:70:G:O5'	2.71	0.42
55:BC:42:C:H2'	55:BC:43:C:H6	1.85	0.42
32:AJ:64:SER:C	32:AJ:65:PHE:CD1	2.92	0.42
1:AA:1767:C:N3	1:AA:1768:U:C5	2.88	0.42
34:BA:513:C:N4	34:BA:514:C:N4	2.68	0.42
57:BZ:462:THR:OG1	57:BZ:462:THR:O	2.33	0.42
1:AA:1080:C:H5''	32:AJ:128:ALA:HB1	0.46	0.42
1:AA:1179:C:C2'	1:AA:1180:C:C6	3.00	0.42
1:AA:1388:G:C4	1:AA:1400:G:N2	2.87	0.42
1:AA:1529:A:C8	1:AA:1530:G:C4	3.08	0.42
1:AA:1571:A:H2'	1:AA:1571:A:N3	2.35	0.42
1:AA:1603:A:H2'	1:AA:1603:A:N3	2.33	0.42
1:AA:1659:U:H2'	1:AA:1660:C:H6	1.84	0.42
1:AA:1727:U:C2'	1:AA:1728:G:OP1	2.68	0.42
1:AA:1731:G:N3	1:AA:1731:G:C3'	2.83	0.42
1:AA:1741:C:O2'	1:AA:1742:C:O4'	2.38	0.42
1:AA:1753:G:N1	1:AA:1756:G:C2	2.87	0.42
1:AA:1796:U:H2'	1:AA:1797:C:C6	2.55	0.42
1:AA:1842:G:C6	1:AA:1901:A:C6	3.07	0.42
1:AA:1921:G:C6	58:AA:3001:NMY:N6	2.88	0.42
1:AA:1992:G:N2	1:AA:1995:U:C5	2.83	0.42
1:AA:2026:C:H2'	1:AA:2027:G:O4'	2.20	0.42
1:AA:2033:A:C6	1:AA:2036:C:N3	2.88	0.42
1:AA:2132:U:C2	1:AA:2133:G:H5''	2.54	0.42
1:AA:2210:G:O6	4:AD:70:TRP:CH2	2.72	0.42
1:AA:2253:G:N1	59:AA:3003:8AN:C5	2.82	0.42
1:AA:2289:G:H5'	1:AA:2384:G:C1'	2.39	0.42
1:AA:2310:A:N1	7:AG:80:PHE:CD2	2.87	0.42
1:AA:2338:G:C6	1:AA:2339:G:N7	2.88	0.42
1:AA:2373:G:N3	1:AA:2374:C:C5	2.88	0.42
1:AA:2389:G:H5''	1:AA:2390:U:H6	1.84	0.42
1:AA:2391:G:O6	1:AA:2425:A:H5''	2.19	0.42
1:AA:199:A:C2	1:AA:2433:A:C4	3.07	0.42
1:AA:2542:A:O4'	1:AA:2542:A:OP1	2.38	0.42
1:AA:2638:G:O2'	1:AA:2639:A:H8	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2699:C:H2'	1:AA:2700:C:C5'	2.49	0.42
1:AA:270(C):C:OP1	1:AA:365:C:C2'	2.67	0.42
1:AA:2760:C:O2'	1:AA:2761:G:H5'	2.19	0.42
1:AA:2784:C:O2'	5:AE:36:ARG:NH2	2.53	0.42
1:AA:281:G:O2'	1:AA:282:A:H5''	2.19	0.42
1:AA:2882:A:HO2'	1:AA:2883:A:P	2.42	0.42
1:AA:2899:G:C4	1:AA:2900:A:C8	3.08	0.42
1:AA:479:A:O2'	1:AA:480:A:C8	2.69	0.42
1:AA:482:A:N6	1:AA:506:G:C6	2.87	0.42
1:AA:519:U:O5'	18:AT:75:TYR:HD1	2.02	0.42
1:AA:533:G:C5	1:AA:534:U:C4	3.08	0.42
1:AA:545:G:O3'	1:AA:546:C:C5	2.72	0.42
1:AA:565:C:H1'	1:AA:577:G:N2	2.34	0.42
1:AA:576:U:OP1	1:AA:2503:A:OP1	2.38	0.42
1:AA:617:G:C8	1:AA:617:G:H3'	2.54	0.42
1:AA:633:A:H5''	1:AA:634:C:OP2	2.19	0.42
1:AA:659:C:C4'	6:AF:102:PRO:CD	2.97	0.42
1:AA:667:U:H2'	1:AA:668:G:C1'	2.50	0.42
1:AA:685:A:C2'	1:AA:686:G:OP2	2.67	0.42
1:AA:723:G:C2	1:AA:724:U:C1'	3.02	0.42
1:AA:728:G:H4'	1:AA:729:G:C8	2.55	0.42
1:AA:693:C:N4	1:AA:770:G:O6	2.52	0.42
1:AA:794:G:C4	1:AA:795:C:C5	3.08	0.42
1:AA:860:U:H6	1:AA:2267:A:C5'	2.33	0.42
1:AA:895:U:H5''	1:AA:896:A:H5''	2.00	0.42
1:AA:909:A:C2	1:AA:912:C:C6	3.08	0.42
1:AA:910:A:C6	1:AA:911:A:N6	2.88	0.42
1:AA:945:A:C2'	1:AA:946:G:C5'	2.98	0.42
1:AA:957:A:C5	1:AA:959:A:N7	2.87	0.42
1:AA:97:C:C4	1:AA:98:G:C8	3.08	0.42
2:AB:73:A:C5	2:AB:104:A:N3	2.88	0.42
2:AB:59:A:C3'	2:AB:60:C:H5'	2.49	0.42
2:AB:78:A:C4	2:AB:99:A:N6	2.86	0.42
3:AC:18:LYS:HG2	3:AC:20:TYR:N	2.20	0.42
3:AC:211:SER:HB2	3:AC:213:TYR:OH	2.19	0.42
1:AA:2129:C:H4'	3:AC:6:ARG:HG2	0.45	0.42
3:AC:81:GLU:OE2	3:AC:82:LYS:CD	2.67	0.42
3:AC:87:GLU:OE2	3:AC:94:VAL:CG1	2.68	0.42
4:AD:73:VAL:HG12	4:AD:120:GLY:HA2	2.00	0.42
4:AD:208:LYS:HB3	4:AD:211:ARG:CG	2.50	0.42
4:AD:34:VAL:N	4:AD:104:TYR:HH	2.14	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:119:ARG:CZ	5:AE:155:LYS:CG	2.98	0.42
5:AE:104:VAL:HG22	5:AE:198:VAL:CA	2.49	0.42
5:AE:13:ARG:NE	5:AE:21:VAL:N	2.68	0.42
5:AE:38:THR:O	5:AE:42:ASP:N	2.53	0.42
5:AE:49:LEU:CG	5:AE:76:ARG:O	2.67	0.42
6:AF:202:PHE:CZ	6:AF:205:ARG:NH1	2.87	0.42
7:AG:101:ILE:O	7:AG:101:ILE:CD1	2.52	0.42
7:AG:167:GLU:OE1	7:AG:167:GLU:N	2.45	0.42
7:AG:55:LYS:CE	7:AG:152:LEU:HD11	2.50	0.42
7:AG:80:PHE:O	7:AG:82:LEU:N	2.47	0.42
32:AJ:56:GLU:HG2	32:AJ:57:ILE:H	1.84	0.42
9:AK:103:VAL:HG22	9:AK:104:LYS:CE	2.49	0.42
9:AK:15:LEU:CD2	9:AK:137:LYS:HB3	2.50	0.42
10:AL:11:ALA:C	10:AL:97:ARG:HH22	2.22	0.42
10:AL:86:ILE:CD1	10:AL:90:GLN:HG3	2.49	0.42
11:AM:74:GLU:HB2	11:AM:107:LYS:HD3	2.01	0.42
11:AM:46:LYS:CA	11:AM:49:ARG:NH1	2.82	0.42
12:AN:125:LEU:CD2	12:AN:125:LEU:H	2.31	0.42
12:AN:12:GLN:HE22	12:AN:13:GLN:CD	2.18	0.42
13:AO:53:HIS:CE1	13:AO:56:LYS:HE2	2.54	0.42
13:AO:90:ARG:CB	13:AO:94:TYR:HE2	2.33	0.42
14:AP:11:LYS:CA	14:AP:14:VAL:HB	2.49	0.42
15:AQ:30:VAL:CG2	15:AQ:31:SER:H	2.33	0.42
15:AQ:3:ARG:HA	15:AQ:6:LEU:CD2	2.50	0.42
15:AQ:72:VAL:O	15:AQ:74:ARG:HD2	2.20	0.42
16:AR:108:GLU:C	16:AR:111:GLU:HG2	2.39	0.42
16:AR:17:ILE:HG21	16:AR:36:ARG:HD3	2.02	0.42
16:AR:66:ASN:HB3	16:AR:70:ARG:HD3	2.01	0.42
17:AS:40:LEU:HD11	17:AS:55:ALA:CA	2.40	0.42
17:AS:20:LEU:HD13	17:AS:95:LEU:HD13	2.01	0.42
1:AA:520:G:P	18:AT:25:ARG:HH12	2.41	0.42
18:AT:28:SER:N	18:AT:31:GLU:OE2	2.30	0.42
18:AT:3:ALA:HB2	18:AT:58:ALA:HB2	2.01	0.42
19:AU:47:PHE:O	19:AU:49:VAL:HG13	2.19	0.42
21:AW:104:PHE:CE1	21:AW:171:ILE:HG13	2.55	0.42
21:AW:138:GLU:C	21:AW:139:VAL:CG2	2.87	0.42
21:AW:48:PHE:CA	21:AW:54:HIS:HE1	2.32	0.42
23:AY:28:MET:HB3	23:AY:32:PHE:CE1	2.54	0.42
24:AZ:41:PRO:CA	24:AZ:44:ARG:HH11	2.17	0.42
24:AZ:41:PRO:CA	24:AZ:44:ARG:NH1	2.80	0.42
34:BA:1001:G:C8	34:BA:1001:G:H3'	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1087:G:H2'	34:BA:1088:G:H8	1.84	0.42
34:BA:1068:G:O6	34:BA:1108:G:N3	2.53	0.42
34:BA:1287:A:H61	34:BA:1371:G:H5'	1.85	0.42
34:BA:1305:G:OP2	34:BA:1305:G:O4'	2.38	0.42
34:BA:1331:G:O2'	34:BA:1332:A:P	2.78	0.42
34:BA:1414:U:O4	34:BA:1487:G:C6	2.63	0.42
34:BA:170:U:O2	34:BA:170:U:H2'	2.20	0.42
34:BA:19:C:OP1	38:BI:86:ALA:HB1	2.20	0.42
34:BA:248:C:H4'	34:BA:283:C:H1'	2.01	0.42
34:BA:254:G:N3	34:BA:255:G:C8	2.88	0.42
34:BA:280:C:C1'	50:BU:38:ARG:CZ	2.98	0.42
34:BA:302:G:O6	34:BA:303:A:C6	2.72	0.42
34:BA:315:A:N1	34:BA:330:C:N1	2.67	0.42
34:BA:50:A:C2	34:BA:360:A:H2'	2.54	0.42
34:BA:425:G:H2'	34:BA:426:G:H5'	2.01	0.42
34:BA:427:U:N1	34:BA:428:G:N7	2.66	0.42
34:BA:519:C:C2'	34:BA:520:A:C5'	2.90	0.42
34:BA:540:G:C6	34:BA:541:G:C6	3.07	0.42
34:BA:555:C:H2'	34:BA:555:C:O2	2.18	0.42
34:BA:573:A:C2'	34:BA:574:A:C8	2.92	0.42
34:BA:611:A:N6	34:BA:629:G:C6	2.74	0.42
34:BA:687:A:C2	34:BA:704:A:C5	3.07	0.42
34:BA:728:A:C8	48:BS:54:ARG:NH1	2.88	0.42
34:BA:738:C:C4	34:BA:739:C:N4	2.88	0.42
34:BA:755:G:H2'	34:BA:756:C:H6	1.83	0.42
34:BA:766:A:C2'	34:BA:767:A:C8	2.99	0.42
34:BA:86:U:C2'	34:BA:87:A:H5'	2.47	0.42
34:BA:900:A:C4	34:BA:901:A:N7	2.87	0.42
34:BA:906:G:H5'	34:BA:907:A:OP2	2.20	0.42
34:BA:972:C:OP2	43:BN:57:LYS:NZ	2.52	0.42
35:BF:92:TYR:O	35:BF:152:PHE:CA	2.67	0.42
35:BF:177:ALA:CB	35:BF:184:VAL:HG22	2.49	0.42
35:BF:44:LEU:HB2	35:BF:45:GLN:H	1.62	0.42
35:BF:55:PHE:HA	35:BF:58:ILE:HG13	2.01	0.42
35:BF:84:GLU:CA	35:BF:84:GLU:OE2	2.68	0.42
36:BG:175:LEU:O	36:BG:176:HIS:O	2.37	0.42
36:BG:28:GLN:CA	36:BG:30:ARG:CZ	2.95	0.42
34:BA:1191:A:H5''	36:BG:4:LYS:CE	2.50	0.42
36:BG:54:ARG:O	36:BG:68:VAL:HG13	2.19	0.42
36:BG:97:LYS:O	36:BG:98:ASN:O	2.37	0.42
37:BH:101:LEU:HD21	37:BH:121:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:76:ARG:HG3	37:BH:207:TYR:CD2	2.54	0.42
37:BH:78:LEU:O	37:BH:81:GLU:HB3	2.19	0.42
38:BI:105:VAL:HG12	38:BI:106:PRO:HD3	1.99	0.42
38:BI:152:ARG:O	38:BI:152:ARG:HD3	2.19	0.42
39:BJ:9:VAL:HG22	39:BJ:60:PHE:CD2	2.53	0.42
40:BK:10:ARG:HH11	40:BK:10:ARG:CB	2.33	0.42
41:BL:75:ARG:CG	41:BL:75:ARG:HH11	2.32	0.42
42:BM:8:GLY:O	42:BM:15:ALA:O	2.37	0.42
42:BM:33:PHE:CE2	42:BM:43:ALA:O	2.73	0.42
45:BP:119:LYS:HB2	45:BP:119:LYS:HE3	1.67	0.42
48:BS:18:PHE:CE1	48:BS:21:ASP:HB2	2.53	0.42
34:BA:740:U:OP2	48:BS:2:PRO:HB3	2.20	0.42
48:BS:39:LEU:HD22	48:BS:56:LEU:CD2	2.42	0.42
48:BS:8:LYS:HE2	48:BS:9:GLN:NE2	2.35	0.42
49:BT:19:ILE:O	49:BT:36:ILE:O	2.37	0.42
50:BU:104:LYS:O	50:BU:105:ALA:C	2.57	0.42
51:BV:60:ALA:C	51:BV:64:ARG:NH1	2.73	0.42
51:BV:70:ILE:O	51:BV:74:ARG:CD	2.59	0.42
52:BW:53:ASN:HD21	52:BW:56:GLN:CB	2.13	0.42
52:BW:40:ILE:CB	52:BW:67:VAL:O	2.65	0.42
53:BX:76:ALA:O	53:BX:77:ALA:C	2.56	0.42
53:BX:41:ILE:O	53:BX:91:LEU:CD1	2.68	0.42
53:BX:99:LEU:HD23	53:BX:99:LEU:N	2.33	0.42
54:BY:18:TYR:HA	54:BY:22:ARG:HB3	2.02	0.42
57:BZ:128:ASN:O	57:BZ:129:LYS:HB2	2.20	0.42
57:BZ:158:LEU:N	57:BZ:159:ASP:HB3	2.34	0.42
57:BZ:206:GLN:HE21	57:BZ:227:LYS:CB	2.31	0.42
57:BZ:382:VAL:HA	57:BZ:383:SER:O	2.19	0.42
57:BZ:404:THR:HG21	57:BZ:437:VAL:O	2.20	0.42
57:BZ:52:ARG:NH1	57:BZ:54:ILE:HG12	2.34	0.42
57:BZ:564:THR:CG2	57:BZ:566:GLU:CG	2.83	0.42
57:BZ:9:ALA:CB	57:BZ:88:VAL:HG11	2.49	0.42
56:BD:52:G:C2	56:BD:63:G:C2	3.07	0.42
37:BH:193:ASP:OD2	37:BH:194:LEU:CD2	2.67	0.42
1:AA:1887:C:H2'	1:AA:1888:G:O4'	2.20	0.42
31:AI:66:LEU:O	31:AI:70:GLU:CA	2.66	0.42
1:AA:2655:G:N3	1:AA:2655:G:H2'	2.33	0.42
57:BZ:214:TYR:CE2	57:BZ:219:GLY:HA2	2.54	0.42
37:BH:151:LYS:CD	37:BH:151:LYS:N	2.78	0.42
34:BA:1537:U:C4	34:BA:1538:C:C5	3.07	0.42
1:AA:1031:G:C4	1:AA:1032:A:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1031:G:N1	1:AA:1032:A:C5	2.87	0.42
1:AA:1036:G:C4	1:AA:1120:G:N1	2.87	0.42
1:AA:1069:A:C2	1:AA:1073:A:OP2	2.73	0.42
1:AA:1069:A:C5'	1:AA:1070:A:N7	2.82	0.42
1:AA:1080:C:C3'	1:AA:1080:C:C6	3.02	0.42
1:AA:1179:C:H3'	1:AA:1179:C:OP2	2.19	0.42
1:AA:1212:G:C6	1:AA:1236:G:C6	3.08	0.42
1:AA:1305:C:O2'	1:AA:1306:C:H5'	2.19	0.42
1:AA:1313:U:C2'	1:AA:1314:C:H5'	2.49	0.42
1:AA:1314:C:N3	1:AA:1315:C:C4	2.88	0.42
1:AA:1389:G:C2	1:AA:1390:U:C4	3.07	0.42
1:AA:1426:G:H3'	1:AA:1427:A:H8	1.84	0.42
1:AA:1491:G:H4'	4:AD:72:LYS:HZ1	1.84	0.42
1:AA:120:U:C5	1:AA:150:C:H5	2.37	0.42
1:AA:1519:G:H3'	1:AA:1520:U:O4'	2.18	0.42
1:AA:1535:U:O2	1:AA:1536:A:H1'	2.19	0.42
1:AA:1545:A:H3'	1:AA:1545(A):A:C8	2.54	0.42
1:AA:154:G:C2	1:AA:155:C:C2	3.07	0.42
1:AA:1608:A:H2'	1:AA:1611:C:H41	1.84	0.42
1:AA:1631:A:C6	1:AA:1632:A:C2	3.08	0.42
1:AA:1668:A:H2	1:AA:1994:C:C6	2.38	0.42
1:AA:740:U:O5'	1:AA:1784:A:C6	2.72	0.42
1:AA:1835:G:C2	1:AA:1836:C:C6	3.08	0.42
1:AA:1855:G:C5	1:AA:1856:G:N7	2.88	0.42
1:AA:1964:G:C6	1:AA:1967:C:H5	2.38	0.42
1:AA:1769:G:C5	1:AA:1984:G:C6	3.08	0.42
1:AA:1988:C:C2	1:AA:1989:G:C8	3.08	0.42
1:AA:1997:G:N2	1:AA:1998:G:C4	2.87	0.42
1:AA:2019:A:C3'	1:AA:2020:A:C5'	2.91	0.42
1:AA:2042:A:H2'	1:AA:2043:C:OP2	2.19	0.42
1:AA:2088:G:C6	1:AA:2089:U:N3	2.87	0.42
1:AA:2093:G:O2'	1:AA:2094:G:H5'	2.19	0.42
1:AA:2133:G:O6	1:AA:2157:G:H1'	2.19	0.42
1:AA:220:G:HO2'	1:AA:233:A:H2	1.62	0.42
1:AA:2284:C:C2	1:AA:2285:C:C5	3.07	0.42
1:AA:2312:U:HO2'	7:AG:40:ASN:ND2	2.17	0.42
1:AA:2346:A:C2	1:AA:2383:G:C2	3.07	0.42
1:AA:2390:U:O2'	1:AA:2391:G:C5'	2.58	0.42
1:AA:2423:U:O4'	1:AA:2425:A:C8	2.72	0.42
1:AA:2433:A:N3	1:AA:2433:A:C2'	2.76	0.42
1:AA:2472:G:C4	1:AA:2475:C:N3	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2493:U:H6	1:AA:2493:U:C3'	2.19	0.42
1:AA:2532:G:C2'	1:AA:2664:G:HO2'	2.32	0.42
1:AA:2554:U:H5	1:AA:2556:C:C4	2.36	0.42
1:AA:2570:G:C2'	1:AA:2570:G:N3	2.82	0.42
1:AA:2661:G:O6	8:AH:175:LYS:HE2	2.05	0.42
1:AA:2671:A:H2'	1:AA:2672:G:H8	1.75	0.42
1:AA:2678:C:H2'	1:AA:2679:A:H8	1.85	0.42
1:AA:2685:G:H4'	10:AL:66:LYS:NZ	2.34	0.42
1:AA:270:A:O2'	1:AA:270(A):A:OP1	2.32	0.42
1:AA:2756:U:O2'	1:AA:2757:A:P	2.78	0.42
1:AA:2772:C:N3	1:AA:2773:C:C5	2.88	0.42
1:AA:26:G:N2	1:AA:27:G:C2	2.87	0.42
1:AA:2808:U:O2	1:AA:2810:A:C8	2.72	0.42
1:AA:28:A:N3	1:AA:29:U:H4'	2.34	0.42
1:AA:300:A:HO2'	1:AA:318:C:H1'	1.85	0.42
1:AA:402:A:N1	1:AA:403:U:C6	2.88	0.42
1:AA:471:A:C5	1:AA:472:A:N7	2.87	0.42
1:AA:515:A:N7	1:AA:516:C:C5	2.87	0.42
1:AA:659:C:C2	1:AA:660:G:C8	3.07	0.42
1:AA:669:G:C5	1:AA:801:G:N1	2.88	0.42
1:AA:684:G:C2	1:AA:794:G:N2	2.87	0.42
1:AA:724:U:O2	1:AA:725:G:O4'	2.38	0.42
1:AA:756:C:C4	1:AA:757:U:C5	3.08	0.42
1:AA:757:U:H2'	1:AA:758:C:O5'	2.20	0.42
1:AA:771:G:N3	1:AA:772:C:C5	2.88	0.42
1:AA:866:A:H2'	1:AA:867:C:O5'	2.20	0.42
1:AA:973:A:C1'	1:AA:1188:U:C5	3.02	0.42
2:AB:117:G:N3	2:AB:117:G:C2'	2.81	0.42
2:AB:19:G:N2	2:AB:20:C:C2	2.88	0.42
3:AC:116:THR:C	3:AC:120:MET:HG2	2.38	0.42
3:AC:163:PHE:HA	3:AC:171:ILE:CD1	2.47	0.42
3:AC:180:PHE:HB3	3:AC:182:PRO:HA	1.98	0.42
3:AC:65:PRO:CD	3:AC:187:ASP:OD1	2.51	0.42
3:AC:65:PRO:O	3:AC:66:HIS:CB	2.68	0.42
4:AD:131:LEU:HA	4:AD:131:LEU:HD12	1.68	0.42
4:AD:37:LEU:HA	4:AD:37:LEU:HD13	1.69	0.42
4:AD:49:ILE:HD12	4:AD:49:ILE:H	1.84	0.42
5:AE:156:MET:O	5:AE:157:ALA:O	2.38	0.42
5:AE:21:VAL:HA	5:AE:22:PRO:HD3	1.90	0.42
6:AF:78:ILE:HD13	6:AF:83:PHE:HZ	1.85	0.42
7:AG:53:LEU:N	7:AG:53:LEU:HD12	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:63:ILE:HD12	7:AG:63:ILE:HA	1.93	0.42
32:AJ:36:GLU:HG3	32:AJ:36:GLU:O	2.19	0.42
9:AK:107:LEU:C	9:AK:107:LEU:CD2	2.70	0.42
9:AK:33:LEU:HD11	9:AK:52:VAL:CB	2.49	0.42
10:AL:77:ILE:CA	10:AL:78:ARG:NH1	2.82	0.42
11:AM:128:HIS:HA	11:AM:147:LEU:HD22	1.96	0.42
11:AM:70:GLN:O	11:AM:71:VAL:HG23	2.19	0.42
12:AN:88:GLY:O	12:AN:89:ASN:HB2	2.20	0.42
13:AO:84:ALA:N	13:AO:85:PRO:CD	2.81	0.42
14:AP:49:VAL:HG11	14:AP:77:ALA:HA	2.02	0.42
16:AR:31:SER:O	16:AR:35:ALA:N	2.39	0.42
16:AR:48:ALA:C	16:AR:52:ARG:NE	2.73	0.42
16:AR:67:ALA:CB	16:AR:71:GLN:HE22	2.21	0.42
16:AR:88:ILE:HB	17:AS:52:VAL:HA	2.01	0.42
18:AT:13:SER:CB	18:AT:14:PRO:HD2	2.34	0.42
18:AT:3:ALA:HB3	18:AT:107:LEU:CB	2.42	0.42
18:AT:58:ALA:HB1	18:AT:69:LEU:HD21	2.01	0.42
19:AU:15:GLU:O	19:AU:18:TYR:HB2	2.19	0.42
20:AV:9:LYS:H	20:AV:9:LYS:HG3	1.53	0.42
21:AW:116:VAL:HG12	21:AW:176:PRO:CA	2.49	0.42
21:AW:162:GLU:OE1	21:AW:162:GLU:HA	2.19	0.42
21:AW:19:ARG:HH21	21:AW:84:GLU:CA	2.32	0.42
21:AW:20:ARG:CG	21:AW:20:ARG:NH1	2.82	0.42
21:AW:41:LEU:HG	21:AW:41:LEU:H	1.62	0.42
22:AX:27:GLU:OE1	22:AX:27:GLU:CA	2.68	0.42
23:AY:26:GLU:HA	23:AY:29:GLU:CG	2.50	0.42
24:AZ:7:LYS:HE2	24:AZ:32:GLN:HA	2.02	0.42
1:AA:928:G:O2'	24:AZ:43:ILE:CD1	2.67	0.42
34:BA:1003:G:OP2	34:BA:1004:A:C2	2.73	0.42
34:BA:1067:A:N3	34:BA:1068:G:C1'	2.83	0.42
34:BA:1073:U:C2	34:BA:1074:G:C8	3.08	0.42
34:BA:1107:C:C3'	34:BA:1108:G:H5'	2.49	0.42
34:BA:1202:G:O2'	34:BA:1203:C:O5'	2.38	0.42
34:BA:1276:G:HO2'	34:BA:1282:C:H4'	1.85	0.42
34:BA:1297:C:H5'	34:BA:1298:C:OP1	2.19	0.42
34:BA:1324:A:C2	34:BA:1325:C:C6	3.07	0.42
34:BA:1438:G:C5	34:BA:1439:C:C4	3.07	0.42
34:BA:147:G:C6	34:BA:148:G:C5	3.08	0.42
34:BA:194:C:H4'	53:BX:68:LYS:HE2	2.00	0.42
34:BA:24:U:O2'	34:BA:25:C:H5'	2.20	0.42
34:BA:293:G:C2	34:BA:294:U:C6	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:390:C:C2	34:BA:391:G:N7	2.88	0.42
34:BA:32:A:OP1	34:BA:398:C:H1'	2.20	0.42
34:BA:46:G:C4	34:BA:396:G:N1	2.88	0.42
34:BA:579:G:O5'	34:BA:579:G:C8	2.68	0.42
34:BA:667:G:C6	34:BA:740:U:C4	3.08	0.42
34:BA:735:C:HO2'	34:BA:736:C:C5'	2.31	0.42
34:BA:748:C:O2'	34:BA:749:C:O4'	2.38	0.42
34:BA:766:A:C8	34:BA:814:A:N1	2.87	0.42
34:BA:855:G:H2'	34:BA:856:C:C5'	2.49	0.42
34:BA:994:A:N7	34:BA:1216:G:C4'	2.69	0.42
56:BE:39:U:O2'	56:BE:40:C:H5'	2.20	0.42
35:BF:114:ARG:O	35:BF:118:LEU:CB	2.68	0.42
35:BF:126:GLU:O	35:BF:127:ILE:O	2.37	0.42
35:BF:149:LEU:C	35:BF:151:GLY:H	2.22	0.42
35:BF:157:ARG:CA	35:BF:158:LEU:HD23	2.50	0.42
35:BF:167:PRO:C	35:BF:169:LYS:N	2.72	0.42
36:BG:131:ARG:HH22	38:BI:51:VAL:HG23	1.85	0.42
36:BG:182:ILE:HD11	36:BG:203:PHE:CE1	2.54	0.42
36:BG:33:LEU:HD11	47:BR:54:PRO:CD	2.29	0.42
36:BG:66:VAL:O	36:BG:102:ASN:ND2	2.53	0.42
37:BH:126:ILE:O	37:BH:132:ARG:HB2	2.20	0.42
37:BH:152:SER:C	37:BH:154:ASN:ND2	2.72	0.42
37:BH:145:GLU:CG	37:BH:184:LYS:HE2	2.44	0.42
37:BH:32:ALA:HA	37:BH:37:PRO:HA	2.02	0.42
37:BH:51:PRO:O	37:BH:51:PRO:HG2	2.19	0.42
37:BH:6:GLY:O	37:BH:8:VAL:N	2.52	0.42
38:BI:51:VAL:O	38:BI:52:PRO:C	2.55	0.42
39:BJ:46:ARG:NH2	51:BV:37:VAL:HG21	2.35	0.42
39:BJ:59:TYR:C	39:BJ:60:PHE:CD1	2.93	0.42
39:BJ:65:VAL:HG23	39:BJ:66:GLU:C	2.40	0.42
40:BK:94:ARG:C	40:BK:94:ARG:HH11	2.22	0.42
41:BL:101:PRO:O	41:BL:102:ARG:CG	2.67	0.42
41:BL:102:ARG:HH11	41:BL:102:ARG:CG	2.32	0.42
41:BL:101:PRO:HG2	41:BL:102:ARG:N	2.32	0.42
41:BL:104:ARG:HD3	41:BL:107:LEU:HD11	2.01	0.42
41:BL:84:ARG:C	41:BL:135:CYS:SG	2.98	0.42
41:BL:28:ALA:HB3	41:BL:57:PRO:O	2.20	0.42
41:BL:87:SER:HB3	41:BL:93:VAL:N	2.30	0.42
43:BN:48:THR:OG1	43:BN:62:HIS:CD2	2.72	0.42
43:BN:79:ARG:NH2	43:BN:82:ILE:CG2	2.82	0.42
44:BO:122:LYS:O	44:BO:124:LYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:18:PHE:C	48:BS:20:GLY:H	2.23	0.42
48:BS:5:LYS:HG3	48:BS:6:GLU:OE2	2.19	0.42
49:BT:8:ARG:NH1	49:BT:11:SER:O	2.51	0.42
49:BT:20:VAL:HG11	49:BT:32:TYR:CG	2.54	0.42
49:BT:35:LYS:NZ	49:BT:37:GLY:CA	2.83	0.42
49:BT:55:ARG:HH21	49:BT:58:TYR:CB	2.32	0.42
34:BA:760:G:N1	50:BU:105:ALA:OXT	2.40	0.42
50:BU:68:ARG:N	50:BU:70:ARG:CZ	2.83	0.42
51:BV:18:ARG:HH21	51:BV:21:LYS:CG	2.33	0.42
52:BW:18:LYS:HE2	52:BW:22:LEU:CB	2.48	0.42
52:BW:25:LYS:CD	52:BW:25:LYS:C	2.82	0.42
52:BW:48:THR:HG23	52:BW:60:VAL:O	2.20	0.42
57:BZ:246:THR:OG1	57:BZ:247:ARG:N	2.49	0.42
57:BZ:240:ILE:HG12	57:BZ:297:LEU:HD21	2.01	0.42
57:BZ:408:GLU:O	57:BZ:410:GLN:N	2.51	0.42
57:BZ:572:ILE:O	57:BZ:573:ASP:HB2	2.19	0.42
56:BD:48:C:C2'	56:BD:59:U:O4'	2.67	0.42
56:BD:7:A:C6	56:BD:66:U:C2	3.07	0.42
57:BZ:515:GLY:O	57:BZ:516:ALA:O	2.38	0.42
1:AA:883:G:O6	1:AA:884:C:H5	2.01	0.42
57:BZ:364:LEU:HA	57:BZ:364:LEU:HD23	1.78	0.42
34:BA:1030:C:H2'	34:BA:1031:G:C8	2.55	0.42
57:BZ:217:TYR:C	57:BZ:219:GLY:N	2.73	0.42
45:BP:43:VAL:HG12	45:BP:44:THR:N	2.33	0.42
1:AA:276:A:C2'	1:AA:276:A:N3	2.82	0.42
35:BF:228:GLY:O	35:BF:230:VAL:HG23	2.19	0.42
17:AS:71:LEU:HA	17:AS:71:LEU:HD23	1.84	0.42
56:BE:44:G:O2'	56:BE:45:U:H5'	2.20	0.42
1:AA:1014:U:HO2'	1:AA:1015:G:H5'	1.79	0.42
1:AA:1072:C:O2'	1:AA:1093:G:C5	2.71	0.42
1:AA:1100:C:H2'	1:AA:1101:U:OP1	2.20	0.42
1:AA:1102:C:C2	1:AA:1103:A:N7	2.88	0.42
1:AA:1223:C:O2	1:AA:1225:C:C5'	2.66	0.42
1:AA:1225:C:N3	1:AA:1226:G:C2	2.88	0.42
1:AA:1212:G:N7	1:AA:1235:G:N1	2.67	0.42
1:AA:1275:A:C2'	1:AA:1276:A:O5'	2.67	0.42
1:AA:1372:U:H3'	1:AA:1372:U:C6	2.54	0.42
1:AA:137(A):G:O2'	1:AA:138:G:C8	2.68	0.42
1:AA:141:A:C2	1:AA:1596:A:C2'	3.01	0.42
1:AA:1455:G:C6	1:AA:1456:G:C8	3.07	0.42
1:AA:1460:A:N1	1:AA:1732:A:C2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1471:A:O2'	1:AA:1472:A:H5'	2.20	0.42
1:AA:1517:G:N2	1:AA:1518:C:O2	2.53	0.42
1:AA:1520:U:C3'	1:AA:1521:G:C5'	2.98	0.42
1:AA:1522:G:C3'	1:AA:1522:G:C8	3.01	0.42
1:AA:1532:C:C6	1:AA:1532:C:OP2	2.72	0.42
1:AA:1535:U:N3	1:AA:1536:A:C4	2.88	0.42
1:AA:1552:G:N3	1:AA:1552:G:H2'	2.33	0.42
1:AA:1673:U:O2'	1:AA:1674:G:OP1	2.37	0.42
1:AA:1772:G:O2'	1:AA:1773:A:H4'	2.19	0.42
1:AA:1792:G:N3	1:AA:1792:G:C2'	2.79	0.42
1:AA:1808:U:C2	1:AA:1810:A:H2	2.38	0.42
1:AA:1854:A:H2'	1:AA:1855:G:O4'	2.20	0.42
1:AA:1924:C:O2'	1:AA:1925:C:H5'	2.20	0.42
1:AA:194:G:H8	1:AA:194:G:O5'	2.03	0.42
1:AA:1992:G:C6	1:AA:1997:G:N3	2.88	0.42
1:AA:2041:U:H6	1:AA:2041:U:OP2	2.03	0.42
1:AA:2121:G:C4'	3:AC:167:LYS:NZ	2.83	0.42
1:AA:2208:U:H4'	4:AD:151:LYS:HZ3	1.81	0.42
1:AA:2293:C:N3	1:AA:2294:C:C5	2.88	0.42
1:AA:2331:G:N2	1:AA:2385:C:C5	2.88	0.42
1:AA:2352:A:O2'	1:AA:2353:G:H5'	2.20	0.42
1:AA:2354:G:O2'	1:AA:2355:C:H5'	2.20	0.42
1:AA:2391:G:C2'	1:AA:2392:A:OP2	2.68	0.42
1:AA:2423:U:H1'	1:AA:2425:A:N3	2.35	0.42
1:AA:2512:C:O4'	5:AE:139:GLY:HA3	2.20	0.42
1:AA:2543:G:C6	1:AA:2544:G:N1	2.88	0.42
1:AA:2544:G:C2'	1:AA:2545:G:C5'	2.98	0.42
1:AA:2553:G:N7	1:AA:2583:G:C4'	2.67	0.42
1:AA:2580:U:H2'	1:AA:2581:G:C8	2.54	0.42
1:AA:2626:C:C3'	1:AA:2626:C:C6	3.02	0.42
1:AA:262:A:C4	1:AA:263:C:C6	3.08	0.42
1:AA:2639:A:C2'	1:AA:2640:G:O5'	2.66	0.42
1:AA:2644:G:N1	1:AA:2645:G:C2	2.88	0.42
1:AA:2683:C:C5	1:AA:2684:U:C5	3.08	0.42
1:AA:2748:A:N3	8:AH:67:LEU:CD1	2.82	0.42
1:AA:2749:A:N7	1:AA:2750:A:N7	2.66	0.42
1:AA:2853:C:C2	1:AA:2854:G:C8	3.08	0.42
1:AA:303:U:C2'	1:AA:304:G:C5'	2.97	0.42
1:AA:360:G:C8	1:AA:361:G:C8	3.07	0.42
1:AA:477:A:C4	1:AA:478:A:N7	2.88	0.42
1:AA:527:C:C5	1:AA:2779:U:H3'	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:559:G:C5'	1:AA:559:G:C8	2.98	0.42
1:AA:601:C:O4'	6:AF:104:LYS:NZ	2.40	0.42
1:AA:601:C:O2'	1:AA:604:G:OP1	2.37	0.42
1:AA:647:G:C2	1:AA:648:G:C5	3.07	0.42
1:AA:671:C:C4	1:AA:672:C:N4	2.87	0.42
1:AA:723:G:HO2'	1:AA:724:U:C4'	2.33	0.42
1:AA:73:A:C2'	1:AA:74:A:OP2	2.67	0.42
1:AA:74:A:C2	23:AY:46:ARG:NE	2.88	0.42
1:AA:849:A:H2'	1:AA:850:C:H6	1.84	0.42
1:AA:892:G:HO2'	1:AA:893:C:C1'	2.22	0.42
1:AA:899:A:H2	1:AA:900:A:H2	1.53	0.42
1:AA:901:A:C2	1:AA:902:C:N1	2.88	0.42
1:AA:932:G:C2'	1:AA:933:A:C8	2.87	0.42
1:AA:960:A:C5	1:AA:962:G:C8	3.08	0.42
2:AB:103:U:H4'	21:AW:97:GLU:OE2	2.20	0.42
2:AB:45:A:N6	2:AB:46:A:C2	2.88	0.42
3:AC:116:THR:C	3:AC:118:ASP:H	2.23	0.42
3:AC:138:PRO:HB3	3:AC:145:VAL:HG22	2.02	0.42
3:AC:162:GLU:CG	3:AC:163:PHE:N	2.67	0.42
3:AC:46:LYS:CD	3:AC:211:SER:HB3	2.34	0.42
3:AC:8:ARG:HD2	3:AC:8:ARG:HA	1.68	0.42
4:AD:145:VAL:HG13	4:AD:191:ALA:CB	2.39	0.42
4:AD:177:LEU:HB2	4:AD:178:PRO:CD	2.30	0.42
4:AD:177:LEU:CD2	4:AD:181:GLU:O	2.60	0.42
4:AD:172:TYR:HA	4:AD:186:HIS:HA	2.00	0.42
4:AD:145:VAL:HG22	4:AD:191:ALA:HB1	2.02	0.42
1:AA:2589:A:OP1	4:AD:226:MET:SD	2.77	0.42
4:AD:248:SER:O	4:AD:248:SER:OG	2.38	0.42
1:AA:1816:G:P	4:AD:43:ARG:NH2	2.93	0.42
5:AE:104:VAL:HG13	5:AE:198:VAL:CA	2.45	0.42
5:AE:22:PRO:HA	5:AE:185:LYS:N	2.34	0.42
5:AE:49:LEU:HD12	5:AE:50:GLY:N	2.34	0.42
6:AF:132:VAL:HG22	6:AF:135:LYS:HB3	2.02	0.42
6:AF:51:THR:O	6:AF:52:LYS:CG	2.64	0.42
6:AF:8:GLN:O	6:AF:9:ILE:HD12	2.19	0.42
7:AG:125:PHE:HD2	7:AG:129:GLY:CA	2.33	0.42
7:AG:36:LYS:HB2	7:AG:95:ARG:O	2.20	0.42
9:AK:33:LEU:O	9:AK:35:ARG:CG	2.66	0.42
10:AL:14:THR:OG1	10:AL:16:ALA:C	2.58	0.42
10:AL:24:VAL:HG21	10:AL:26:LYS:CG	2.47	0.42
10:AL:42:SER:CA	10:AL:55:GLY:O	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:53:LYS:HG3	10:AL:54:GLU:N	2.34	0.42
11:AM:122:PRO:HD3	11:AM:137:LYS:HB3	2.01	0.42
11:AM:124:LYS:HG2	11:AM:143:GLY:HA3	2.01	0.42
11:AM:27:HIS:HB3	11:AM:28:GLY:H	1.63	0.42
11:AM:70:GLN:C	11:AM:71:VAL:HG23	2.40	0.42
11:AM:74:GLU:N	11:AM:107:LYS:CE	2.83	0.42
11:AM:80:TYR:CZ	11:AM:100:LEU:HG	2.55	0.42
12:AN:76:LYS:NZ	12:AN:78:PRO:O	2.51	0.42
14:AP:57:LYS:HD3	14:AP:58:LEU:N	2.34	0.42
14:AP:95:HIS:C	14:AP:99:LYS:HB2	2.40	0.42
15:AQ:67:SER:CB	15:AQ:75:ILE:CG2	2.98	0.42
15:AQ:86:ILE:HG22	15:AQ:87:ASP:H	1.84	0.42
15:AQ:95:ARG:CZ	15:AQ:96:ARG:NH2	2.83	0.42
16:AR:64:ARG:O	16:AR:67:ALA:CB	2.49	0.42
17:AS:3:ALA:CB	17:AS:44:LYS:CE	2.97	0.42
1:AA:814:C:P	17:AS:85:LYS:HB2	2.59	0.42
17:AS:67:GLY:HA2	17:AS:94:LEU:CA	2.49	0.42
18:AT:14:PRO:CA	18:AT:16:LYS:HZ1	2.33	0.42
1:AA:1312:U:O3'	19:AU:63:LYS:CD	2.67	0.42
21:AW:118:GLN:CD	21:AW:172:ALA:HB1	2.39	0.42
22:AX:56:ASP:O	22:AX:57:PHE:CB	2.64	0.42
23:AY:16:LEU:HD21	23:AY:59:LEU:HB2	2.01	0.42
24:AZ:29:ARG:C	24:AZ:30:ARG:HD2	2.40	0.42
24:AZ:5:LYS:HZ1	24:AZ:57:GLU:HB2	1.84	0.42
24:AZ:7:LYS:CE	24:AZ:32:GLN:HA	2.50	0.42
34:BA:1014:A:C2	34:BA:1219:U:H1'	2.54	0.42
34:BA:1109:C:HO2'	34:BA:1110:A:H5'	1.81	0.42
34:BA:1174:G:H8	34:BA:1174:G:H5'	1.84	0.42
34:BA:1200:C:C5'	34:BA:1201:A:O3'	2.63	0.42
34:BA:1201:A:H2'	34:BA:1202:G:OP2	2.19	0.42
34:BA:1234:C:C4'	34:BA:1364:U:O2'	2.68	0.42
34:BA:1314:C:H2'	34:BA:1315:U:H5	1.77	0.42
34:BA:1336:C:O2'	34:BA:1337:G:OP2	2.37	0.42
34:BA:1338:G:H2'	34:BA:1339:A:N7	2.32	0.42
34:BA:1368:G:H2'	34:BA:1369:C:H6	1.84	0.42
34:BA:1407:C:C2'	34:BA:1408:A:C5'	2.86	0.42
34:BA:1454:G:C5	34:BA:1455:G:C5	3.08	0.42
34:BA:68:G:C5'	34:BA:171:A:H1'	2.50	0.42
34:BA:186(C):G:HO2'	34:BA:186(D):C:H5'	1.84	0.42
34:BA:193:C:N3	34:BA:194:C:N4	2.67	0.42
34:BA:22:G:C2'	34:BA:23:C:C6	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:278:G:N2	34:BA:279:A:N6	2.67	0.42
34:BA:30:U:H2'	34:BA:31:G:OP1	2.19	0.42
34:BA:38:G:N3	34:BA:397:A:C6	2.86	0.42
34:BA:421:U:O2	36:BG:127:ARG:CZ	2.68	0.42
34:BA:450:G:H3'	34:BA:481:G:H1	1.84	0.42
34:BA:373:A:C5	34:BA:482:A:N7	2.88	0.42
34:BA:584:G:C6	34:BA:585:G:N7	2.88	0.42
34:BA:594:G:N2	34:BA:596:C:H41	2.18	0.42
34:BA:627:G:C2'	34:BA:628:G:O5'	2.68	0.42
34:BA:658:G:C2	34:BA:659:U:C2	3.07	0.42
34:BA:66:G:P	34:BA:66:G:H8	2.42	0.42
34:BA:66:G:H2'	34:BA:67:C:O5'	2.20	0.42
34:BA:680:C:C2	34:BA:711:G:C2	3.08	0.42
34:BA:696:A:C4	34:BA:697:U:O4'	2.72	0.42
34:BA:696:A:N1	34:BA:697:U:H1'	2.34	0.42
34:BA:856:C:O2	34:BA:856:C:H2'	2.19	0.42
34:BA:821:G:C6	34:BA:880:C:N3	2.88	0.42
34:BA:568:G:H21	34:BA:883:C:H1'	1.85	0.42
34:BA:897:C:H2'	34:BA:898:G:O5'	2.20	0.42
35:BF:28:PHE:HE1	35:BF:31:TYR:C	2.22	0.42
36:BG:186:PHE:C	36:BG:186:PHE:CD1	2.90	0.42
36:BG:33:LEU:HD21	47:BR:52:GLN:O	2.20	0.42
36:BG:33:LEU:O	36:BG:36:ASP:N	2.52	0.42
36:BG:70:VAL:HG12	36:BG:71:ALA:N	2.31	0.42
37:BH:11:LEU:O	37:BH:14:ARG:HB3	2.19	0.42
37:BH:153:ARG:O	37:BH:154:ASN:CB	2.66	0.42
37:BH:3:ARG:HG3	37:BH:118:ARG:CZ	2.49	0.42
38:BI:55:VAL:C	38:BI:57:LYS:N	2.71	0.42
38:BI:53:LEU:O	38:BI:57:LYS:CB	2.68	0.42
38:BI:87:SER:HB3	38:BI:131:ILE:CG1	2.48	0.42
38:BI:96:PRO:O	38:BI:97:GLY:C	2.55	0.42
39:BJ:50:TYR:CE1	39:BJ:52:ILE:HD11	2.55	0.42
39:BJ:34:GLY:O	39:BJ:68:PRO:HD3	2.19	0.42
40:BK:12:LEU:HD21	40:BK:25:ALA:HB2	2.02	0.42
40:BK:72:ARG:NH2	40:BK:138:LYS:NZ	2.63	0.42
41:BL:1:MET:CG	41:BL:2:LEU:N	2.82	0.42
41:BL:25:ASP:OD1	41:BL:25:ASP:N	2.53	0.42
41:BL:65:TYR:HB3	41:BL:76:PRO:HB2	2.02	0.42
41:BL:65:TYR:CD2	41:BL:78:GLN:HA	2.55	0.42
41:BL:97:VAL:CG1	41:BL:98:LYS:NZ	2.81	0.42
42:BM:19:LEU:HD22	42:BM:20:ARG:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:23:TYR:CD1	43:BN:11:PHE:HB2	2.54	0.42
43:BN:12:ASP:O	43:BN:15:THR:CG2	2.67	0.42
44:BO:31:THR:CG2	44:BO:32:ILE:N	2.81	0.42
45:BP:102:ARG:HH11	45:BP:110:VAL:HG13	1.85	0.42
45:BP:59:ARG:HE	45:BP:65:GLU:HG2	1.84	0.42
46:BQ:22:ILE:CG1	46:BQ:25:ILE:CD1	2.82	0.42
46:BQ:55:ARG:HG3	46:BQ:55:ARG:H	1.63	0.42
49:BT:71:ARG:HB3	49:BT:71:ARG:HH11	1.85	0.42
51:BV:69:THR:C	51:BV:71:LYS:N	2.71	0.42
52:BW:80:TYR:CD1	52:BW:81:ARG:N	2.74	0.42
57:BZ:148:PHE:O	57:BZ:151:LEU:N	2.50	0.42
57:BZ:154:THR:C	57:BZ:156:GLU:N	2.73	0.42
57:BZ:18:LYS:HD3	57:BZ:49:GLU:O	2.20	0.42
57:BZ:19:THR:CG2	57:BZ:22:VAL:HG13	2.49	0.42
57:BZ:237:VAL:O	57:BZ:245:LYS:N	2.45	0.42
57:BZ:311:PHE:CZ	57:BZ:358:VAL:HG21	2.54	0.42
57:BZ:564:THR:CB	57:BZ:567:GLN:HB2	2.49	0.42
31:AI:49:ALA:O	31:AI:90:ALA:HB2	2.19	0.42
56:BD:66:U:O2'	56:BD:67:C:C2	2.70	0.42
1:AA:1487:G:C5	1:AA:1488:G:N7	2.88	0.42
55:BC:66:U:O2'	55:BC:67:C:H5'	2.20	0.42
34:BA:1009:G:C2	34:BA:1010:G:C8	3.08	0.42
57:BZ:99:VAL:CG1	57:BZ:100:ASP:N	2.81	0.42
57:BZ:417:GLN:NE2	57:BZ:418:ALA:N	2.68	0.42
34:BA:418:C:O2'	34:BA:419:C:H5'	2.20	0.42
1:AA:1024:G:C3'	1:AA:1025:G:C5'	2.96	0.42
1:AA:1161:C:O2'	17:AS:22:VAL:CG1	2.68	0.42
1:AA:443:A:C1'	1:AA:1201:C:O4'	2.68	0.42
1:AA:1222:C:C2'	1:AA:1223:C:C5'	2.96	0.42
1:AA:1271:G:OP2	1:AA:1272:A:OP1	2.38	0.42
1:AA:1292:U:N3	1:AA:1293:C:C5	2.88	0.42
1:AA:1324:G:C2'	1:AA:1325:G:OP1	2.68	0.42
1:AA:1387:C:O2'	1:AA:1388:G:O5'	2.37	0.42
1:AA:1344:G:C6	1:AA:1404:C:C4	3.08	0.42
1:AA:1406:U:O2	1:AA:1407:C:C6	2.72	0.42
1:AA:140:A:C5	1:AA:141:A:C8	3.08	0.42
1:AA:142:G:H4'	19:AU:37:THR:OG1	2.19	0.42
1:AA:1516:U:C6	1:AA:1517:G:N7	2.88	0.42
1:AA:1661:G:N1	1:AA:2000:G:C4	2.88	0.42
1:AA:1679:U:O4	1:AA:1764:G:H5''	2.20	0.42
1:AA:1684:C:N3	1:AA:1705:G:C2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1809:A:H2'	1:AA:1810:A:C5'	2.35	0.42
1:AA:1820:U:O2'	1:AA:1821:A:P	2.78	0.42
1:AA:1832:C:C5	1:AA:1833:U:C5	3.07	0.42
1:AA:1858:G:C6	1:AA:1883:G:N1	2.87	0.42
1:AA:1941:C:C6	1:AA:1965:C:C2	3.07	0.42
1:AA:1967:C:O2	1:AA:1968:G:O4'	2.38	0.42
1:AA:1980:G:O2'	1:AA:1981:A:C5'	2.66	0.42
1:AA:1993:U:C4	1:AA:1994:C:N4	2.67	0.42
1:AA:1993:U:C5	1:AA:1994:C:H5	2.34	0.42
1:AA:18:C:C2	1:AA:19:C:C6	3.08	0.42
1:AA:2053:G:H4'	5:AE:145:LYS:NZ	2.34	0.42
1:AA:2094:G:N7	1:AA:2095:C:C5	2.88	0.42
1:AA:2160:G:N2	1:AA:2161:C:O2	2.52	0.42
1:AA:2239:G:C3'	1:AA:2240:C:C5'	2.87	0.42
1:AA:2253:G:H2'	1:AA:2254:C:O5'	2.20	0.42
1:AA:2261:C:N4	22:AX:15:ASP:O	2.53	0.42
1:AA:2263:C:O2	1:AA:2263:C:H2'	2.18	0.42
1:AA:2309:A:C3'	1:AA:2309:A:N3	2.83	0.42
1:AA:2507:C:N1	1:AA:2583:G:N2	2.68	0.42
1:AA:2510:C:N4	1:AA:2575:C:N3	2.68	0.42
1:AA:2511:U:C4	1:AA:2512:C:C4	3.07	0.42
1:AA:250:G:O2'	1:AA:251:A:O5'	2.36	0.42
1:AA:2521:C:O2	1:AA:2522:U:O4'	2.38	0.42
1:AA:2542:A:HO2'	1:AA:2543:G:H8	1.67	0.42
1:AA:2545:G:HO2'	1:AA:2565:A:H61	1.68	0.42
1:AA:2557:G:C4	1:AA:2558:C:C5	3.08	0.42
1:AA:2556:C:C2'	1:AA:2557:G:C5'	2.97	0.42
1:AA:2559:C:C2	1:AA:2560:C:C5	3.07	0.42
1:AA:1952:A:H1'	1:AA:2560:C:O2'	2.20	0.42
1:AA:2583:G:C4	1:AA:2584:U:N3	2.83	0.42
1:AA:2596:U:O2'	4:AD:242:ARG:HD3	2.19	0.42
1:AA:2616:C:H3'	1:AA:2617:C:C5	2.54	0.42
1:AA:2644:G:C6	1:AA:2645:G:C2	3.07	0.42
1:AA:2666:C:C4	1:AA:2667:C:C5	2.99	0.42
1:AA:2705:A:HO2'	1:AA:2706:G:P	2.43	0.42
1:AA:2707:G:O2'	13:AO:68:ARG:HG3	2.20	0.42
1:AA:2723:C:O3'	13:AO:2:ARG:N	2.53	0.42
1:AA:2748:A:O2'	8:AH:66:GLY:CA	2.62	0.42
1:AA:2857:G:C3'	1:AA:2857:G:C8	3.03	0.42
1:AA:292:C:C3'	1:AA:293:U:C2	3.02	0.42
1:AA:292:C:H41	1:AA:346:A:H62	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:449:A:N3	1:AA:450:G:C8	2.88	0.42
1:AA:465:G:N2	1:AA:683:C:C2'	2.83	0.42
1:AA:475:U:H2'	1:AA:475:U:O2	2.19	0.42
1:AA:491:G:H3'	1:AA:492:A:H8	1.85	0.42
1:AA:491:G:C4	1:AA:492:A:C8	3.08	0.42
1:AA:511:U:C5	1:AA:512:G:H1'	2.55	0.42
1:AA:28:A:C8	1:AA:513:A:N6	2.88	0.42
1:AA:531:C:H42	16:AR:38:THR:HG22	1.84	0.42
1:AA:612:G:C2	1:AA:615:G:N2	2.88	0.42
1:AA:623:G:N7	1:AA:624:C:C4	2.88	0.42
1:AA:626:U:H4'	1:AA:653:A:C2	2.55	0.42
1:AA:733:G:C8	1:AA:761:A:C6	3.08	0.42
1:AA:784:A:OP1	1:AA:2587:A:O2'	2.36	0.42
1:AA:813:U:C5	11:AM:25:SER:CB	3.03	0.42
1:AA:832:G:C5	1:AA:833:U:O4	2.73	0.42
1:AA:863:A:N1	1:AA:864:G:C6	2.88	0.42
1:AA:873:G:N1	1:AA:905:U:C2	2.87	0.42
1:AA:880:G:N3	1:AA:881:G:O2'	2.53	0.42
1:AA:861:A:N6	1:AA:917:A:N3	2.68	0.42
1:AA:969:U:OP1	24:AZ:20:LYS:NZ	2.53	0.42
1:AA:971:C:H2'	1:AA:972:G:O4'	2.20	0.42
1:AA:974(A):C:H1'	1:AA:1186:G:N2	2.35	0.42
1:AA:994:C:C5'	1:AA:995:C:OP1	2.68	0.42
2:AB:28:C:H2'	2:AB:29:A:C8	2.55	0.42
2:AB:57:A:N3	7:AG:29:TRP:CD1	2.87	0.42
2:AB:69:G:C4	2:AB:70:C:C5	3.08	0.42
3:AC:137:LEU:HD23	3:AC:138:PRO:CD	2.49	0.42
3:AC:181:PRO:HB2	3:AC:184:LYS:HG3	2.02	0.42
4:AD:10:THR:N	4:AD:11:PRO:HD2	2.34	0.42
4:AD:141:VAL:O	4:AD:194:GLY:N	2.47	0.42
4:AD:59:LYS:O	4:AD:62:TYR:OH	2.38	0.42
4:AD:75:ILE:HD13	4:AD:99:ASP:CG	2.40	0.42
4:AD:90:ALA:HB2	4:AD:159:ALA:HB2	2.01	0.42
5:AE:105:THR:HG22	5:AE:199:ARG:CZ	2.50	0.42
5:AE:176:ILE:HG23	5:AE:181:LEU:H	1.85	0.42
5:AE:38:THR:CG2	5:AE:39:PRO:HD3	2.50	0.42
6:AF:182:ASN:OD1	6:AF:185:ASP:N	2.52	0.42
6:AF:37:VAL:O	6:AF:184:TYR:CE1	2.72	0.42
7:AG:12:TYR:O	7:AG:13:GLU:C	2.56	0.42
7:AG:124:SER:OG	7:AG:132:ASN:O	2.32	0.42
7:AG:113:ARG:HH21	7:AG:139:LEU:CD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:77:ILE:C	7:AG:83:ARG:NE	2.73	0.42
7:AG:96:ARG:HB2	7:AG:96:ARG:HH11	1.84	0.42
8:AH:25:LYS:CE	8:AH:32:GLU:HB2	2.49	0.42
1:AA:1080:C:O4'	32:AJ:128:ALA:HB3	2.01	0.42
32:AJ:24:GLY:O	32:AJ:26:ALA:N	2.53	0.42
9:AK:100:GLU:OE2	9:AK:100:GLU:CA	2.55	0.42
9:AK:17:ASP:O	9:AK:18:ALA:CB	2.64	0.42
9:AK:34:LEU:HD21	9:AK:52:VAL:CG1	2.44	0.42
9:AK:39:ARG:HG2	9:AK:40:PRO:HD2	2.02	0.42
9:AK:34:LEU:HA	9:AK:49:GLY:CA	2.50	0.42
10:AL:10:VAL:N	10:AL:17:ARG:CG	2.75	0.42
11:AM:89:ALA:O	11:AM:124:LYS:O	2.38	0.42
11:AM:13:ASN:O	11:AM:14:LYS:C	2.57	0.42
1:AA:2415:G:P	11:AM:61:ARG:HD2	2.58	0.42
12:AN:125:LEU:HB3	12:AN:126:PRO:CD	2.50	0.42
12:AN:118:LEU:HB3	12:AN:131:ILE:HD13	2.01	0.42
12:AN:38:GLU:N	12:AN:39:PRO:CD	2.76	0.42
12:AN:67:ARG:HD3	12:AN:103:MET:SD	2.60	0.42
12:AN:77:LYS:HB2	12:AN:78:PRO:HD3	1.95	0.42
14:AP:66:ALA:C	14:AP:68:GLN:N	2.72	0.42
16:AR:16:LYS:HD2	16:AR:17:ILE:HD13	2.02	0.42
16:AR:2:PRO:HB2	16:AR:3:ARG:H	1.56	0.42
1:AA:1009:A:C4'	16:AR:62:ILE:HG21	2.46	0.42
17:AS:68:LYS:HG2	17:AS:95:LEU:CD1	2.47	0.42
1:AA:2010:G:OP2	18:AT:41:LYS:HE2	2.20	0.42
20:AV:12:THR:HA	20:AV:73:ARG:NH2	2.33	0.42
1:AA:329:G:OP2	20:AV:66:PRO:HG3	2.19	0.42
20:AV:84:ARG:CG	20:AV:85:VAL:N	2.82	0.42
20:AV:86:ARG:HA	20:AV:91:GLU:O	2.19	0.42
21:AW:30:ASN:HA	21:AW:89:PHE:CE2	2.55	0.42
23:AY:27:LEU:CD1	23:AY:48:LEU:HD23	2.50	0.42
34:BA:993:G:C2	34:BA:1046:A:C2	3.08	0.42
34:BA:1180:A:C2'	34:BA:1181:G:C5'	2.86	0.42
34:BA:1285:A:O2'	34:BA:1286:A:P	2.77	0.42
34:BA:1290:G:C6	34:BA:1291:G:N7	2.88	0.42
34:BA:1298:C:N4	40:BK:114:ARG:CB	2.82	0.42
34:BA:129(A):G:C2	34:BA:191(A):G:C8	3.07	0.42
34:BA:130:A:C2	34:BA:264:U:H6	2.38	0.42
34:BA:1331:G:HO2'	34:BA:1332:A:P	2.43	0.42
34:BA:1339:A:C3'	34:BA:1340:A:H5'	2.48	0.42
34:BA:1347:G:H3'	42:BM:107:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1404:C:C2	34:BA:1405:G:C8	3.08	0.42
34:BA:1433:A:H8	34:BA:1433:A:O5'	2.02	0.42
34:BA:1453:G:C2'	34:BA:1454:G:C5'	2.98	0.42
34:BA:1481:U:H2'	34:BA:1482:G:H8	1.78	0.42
34:BA:1509:C:O2'	34:BA:1510:U:C5'	2.56	0.42
34:BA:103:C:C1'	34:BA:151:A:C2	3.01	0.42
34:BA:174:C:OP1	34:BA:197:A:H2	2.03	0.42
34:BA:236:G:C2'	34:BA:237:C:H6	2.33	0.42
34:BA:297:G:N2	34:BA:299:G:H3'	2.35	0.42
34:BA:307:C:O5'	34:BA:307:C:C6	2.72	0.42
34:BA:336:C:O2'	34:BA:337:C:H5'	2.20	0.42
34:BA:354:G:C2	34:BA:355:C:C4	3.08	0.42
34:BA:380:G:H2'	34:BA:382:A:OP2	2.20	0.42
34:BA:44:G:C2	34:BA:399:G:C2	3.08	0.42
34:BA:455:C:C6	34:BA:455:C:O5'	2.73	0.42
34:BA:552:U:H2'	34:BA:553:A:O4'	2.20	0.42
34:BA:20:U:O4'	34:BA:572:A:C2	2.72	0.42
34:BA:594:G:C3'	34:BA:595:G:O4'	2.65	0.42
34:BA:720:C:H4'	51:BV:50:ILE:CG2	2.49	0.42
34:BA:763:G:N2	34:BA:764:C:C2	2.88	0.42
34:BA:828:A:C2'	34:BA:829:G:O4'	2.57	0.42
34:BA:873:A:H4'	34:BA:874:G:OP2	2.20	0.42
34:BA:892:A:C2	34:BA:907:A:C4	3.07	0.42
34:BA:894:G:C5	34:BA:895:G:C8	3.07	0.42
34:BA:970:C:C5'	34:BA:972:C:C6	3.03	0.42
56:BE:15:G:C3'	56:BE:16:U:C5'	2.97	0.42
35:BF:25:ASN:HD21	35:BF:27:LYS:HB2	1.85	0.42
35:BF:46:LYS:O	35:BF:47:THR:C	2.58	0.42
35:BF:60:ASP:O	35:BF:63:MET:N	2.52	0.42
35:BF:92:TYR:HE2	35:BF:151:GLY:C	2.22	0.42
36:BG:12:LEU:HD11	36:BG:18:TRP:CZ2	2.55	0.42
36:BG:138:VAL:HG12	36:BG:149:ALA:HB3	2.01	0.42
36:BG:147:LYS:HB2	36:BG:203:PHE:HD2	1.83	0.42
36:BG:10:PHE:CD1	36:BG:178:LEU:CD2	3.00	0.42
36:BG:29:TYR:HA	36:BG:32:LEU:HD12	2.02	0.42
36:BG:35:GLU:CD	36:BG:95:THR:HG21	2.40	0.42
36:BG:59:ARG:HG2	36:BG:59:ARG:HH11	1.85	0.42
37:BH:120:LEU:O	37:BH:121:VAL:C	2.57	0.42
37:BH:149:ALA:O	37:BH:150:GLU:C	2.58	0.42
37:BH:169:LYS:HG2	37:BH:176:LEU:CD2	2.47	0.42
37:BH:107:ARG:HD2	37:BH:173:TRP:CH2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:4:TYR:CZ	37:BH:5:ILE:O	2.73	0.42
38:BI:84:PHE:HZ	38:BI:133:TYR:HB3	1.68	0.42
38:BI:83:GLU:HG2	38:BI:88:LYS:HE2	2.02	0.42
39:BJ:14:LEU:HD21	39:BJ:18:GLN:HG2	2.00	0.42
39:BJ:35:ALA:O	39:BJ:36:ARG:CG	2.62	0.42
39:BJ:80:ARG:O	39:BJ:81:ILE:O	2.37	0.42
40:BK:88:PRO:HD2	40:BK:152:ALA:HA	2.01	0.42
40:BK:93:PRO:O	40:BK:96:GLN:N	2.53	0.42
41:BL:108:GLY:HA2	41:BL:138:TRP:CB	2.49	0.42
42:BM:17:VAL:HG11	42:BM:81:ILE:HG12	2.02	0.42
43:BN:16:LEU:CD2	43:BN:16:LEU:H	2.33	0.42
43:BN:47:PHE:HZ	43:BN:65:LEU:CB	2.33	0.42
43:BN:48:THR:O	43:BN:49:VAL:HG23	2.19	0.42
44:BO:42:TRP:C	44:BO:42:TRP:CE3	2.93	0.42
47:BR:24:CYS:HA	47:BR:38:GLY:O	2.19	0.42
48:BS:71:GLN:CA	48:BS:78:TYR:CD1	3.03	0.42
49:BT:75:ARG:HG3	49:BT:80:PHE:CG	2.55	0.42
49:BT:9:PHE:CD2	49:BT:9:PHE:N	2.88	0.42
50:BU:18:THR:CG2	50:BU:43:LEU:HD21	2.30	0.42
50:BU:97:SER:C	50:BU:98:LEU:HD22	2.39	0.42
51:BV:53:ARG:C	51:BV:55:ARG:H	2.23	0.42
53:BX:74:LYS:H	53:BX:74:LYS:HD3	1.85	0.42
57:BZ:401:GLU:HB3	57:BZ:467:SER:CA	2.50	0.42
57:BZ:483:ARG:HG3	57:BZ:483:ARG:H	1.75	0.42
57:BZ:509:LYS:HG3	57:BZ:510:LEU:H	1.85	0.42
57:BZ:58:ALA:HB1	57:BZ:60:ASN:OD1	2.20	0.42
57:BZ:6:ARG:CA	57:BZ:69:ARG:CB	2.96	0.42
57:BZ:313:VAL:CG1	57:BZ:326:VAL:O	2.66	0.42
56:BD:1:G:O6	56:BD:72:C:C5	2.60	0.42
57:BZ:41:ARG:CB	57:BZ:42:VAL:HG13	2.49	0.42
23:AY:6:GLU:OE1	23:AY:6:GLU:HA	2.20	0.42
1:AA:1589:C:C2	1:AA:1590:U:C6	3.07	0.42
1:AA:1767:C:N4	1:AA:1768:U:C4	2.87	0.42
55:BC:8:U:C5	55:BC:13:C:C4	3.08	0.42
37:BH:160:GLN:HA	37:BH:160:GLN:OE1	2.20	0.42
1:AA:363(F):A:H2'	1:AA:363(F):A:N3	2.34	0.42
1:AA:1014:U:H2'	1:AA:1015:G:C5'	2.49	0.42
1:AA:1028:A:O2'	1:AA:1029:A:H5'	2.19	0.42
1:AA:104:U:OP2	1:AA:105:C:C5	2.73	0.42
1:AA:1067:A:C5	1:AA:1068:G:O6	2.73	0.42
1:AA:1083:U:C1'	1:AA:1085:A:N6	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1131:G:N3	9:AK:74:ARG:HD2	2.35	0.42
1:AA:1170:G:C2'	1:AA:1170:G:N3	2.68	0.42
1:AA:1268:A:OP2	1:AA:2005:A:H5''	2.19	0.42
1:AA:1270:C:H1'	1:AA:1325:G:C6	2.55	0.42
1:AA:1423:G:H5'	1:AA:1493:C:H1'	2.02	0.42
1:AA:142:G:H2'	1:AA:143:C:H6	1.82	0.42
1:AA:1491:G:H2'	1:AA:1492:G:C3'	2.50	0.42
1:AA:174:C:H2'	1:AA:175:G:C5'	2.43	0.42
1:AA:1806:C:O5'	1:AA:1806:C:H6	2.03	0.42
1:AA:1861:G:N2	1:AA:1862:G:C1'	2.82	0.42
1:AA:189:G:N2	1:AA:206:U:C5	2.88	0.42
1:AA:1839:G:C1'	1:AA:1927:A:H5'	2.50	0.42
1:AA:1955:U:C2'	1:AA:1955:U:O2	2.65	0.42
1:AA:1:G:H2'	1:AA:2:G:H8	1.84	0.42
1:AA:2027:G:C4	1:AA:2037:G:N1	2.88	0.42
1:AA:2087:G:H8	1:AA:2087:G:H5''	1.83	0.42
1:AA:2128:C:O5'	3:AC:35:ALA:CB	2.61	0.42
1:AA:2160:G:O2'	1:AA:2161:C:C5'	2.68	0.42
1:AA:217:G:H2'	1:AA:218:A:C5'	2.50	0.42
1:AA:2289:G:OP2	1:AA:2289:G:N7	2.52	0.42
1:AA:2292:C:H2'	1:AA:2293:C:C6	2.54	0.42
1:AA:2310:A:H2'	1:AA:2311:A:OP2	2.20	0.42
1:AA:2336:A:H2	22:AX:57:PHE:CZ	2.38	0.42
1:AA:2349:G:C6	1:AA:2369:A:C6	3.08	0.42
1:AA:241:A:H8	1:AA:243:U:C2	2.37	0.42
1:AA:2495:G:H2'	1:AA:2496:C:O4'	2.19	0.42
1:AA:2563:U:H2'	1:AA:2565:A:OP2	2.19	0.42
1:AA:2586:C:C3'	1:AA:2586:C:C6	3.02	0.42
1:AA:262:A:O2'	1:AA:263:C:C5'	2.66	0.42
1:AA:2722:G:C6	1:AA:2723:C:C4	3.08	0.42
1:AA:2744:G:C2	1:AA:2761:G:C4	3.08	0.42
1:AA:2826:A:O2'	1:AA:2827:C:H5'	2.19	0.42
1:AA:2843:G:C2	1:AA:2844:G:C8	3.08	0.42
1:AA:284:U:O4'	1:AA:284:U:OP2	2.37	0.42
1:AA:349:G:H2'	1:AA:349:G:N3	2.35	0.42
1:AA:357:A:C5	1:AA:358:U:C5	3.08	0.42
1:AA:37:C:H2'	1:AA:38:A:C8	2.54	0.42
1:AA:36:G:H2'	1:AA:37:C:O4'	2.20	0.42
1:AA:414:C:C1'	1:AA:1864:U:O2'	2.67	0.42
1:AA:449:A:O3'	6:AF:52:LYS:HD3	2.20	0.42
1:AA:450:G:O6	1:AA:453:C:O5'	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:52:A:C5	1:AA:118:A:C2	3.08	0.42
1:AA:580:C:N3	1:AA:581:C:C5	2.87	0.42
1:AA:650:C:N3	1:AA:651:G:N3	2.68	0.42
1:AA:659:C:C4'	6:AF:102:PRO:HD3	2.50	0.42
1:AA:696:G:C2	1:AA:697:C:C5	3.08	0.42
1:AA:710:G:H2'	1:AA:711:G:H8	1.85	0.42
1:AA:733:G:C6	1:AA:761:A:C5	3.08	0.42
1:AA:800:A:O2'	1:AA:801:G:OP2	2.34	0.42
1:AA:816:C:C4	1:AA:1192:G:N1	2.88	0.42
1:AA:826:U:C4	1:AA:828:U:H6	2.38	0.42
1:AA:850:C:HO2'	1:AA:851:U:H5'	1.83	0.42
1:AA:864:G:C2'	1:AA:865:C:C1'	2.91	0.42
1:AA:878:A:N3	1:AA:878:A:C2'	2.82	0.42
1:AA:876:C:N3	1:AA:902:C:C2	2.88	0.42
1:AA:954:G:C6	1:AA:964:C:N3	2.87	0.42
1:AA:971:C:H4'	1:AA:983:A:O2'	2.19	0.42
2:AB:110:G:N3	2:AB:111:U:H1'	2.35	0.42
2:AB:16:G:C6	2:AB:17:C:C4	3.07	0.42
2:AB:25:A:C2	2:AB:26:A:H1'	2.55	0.42
2:AB:7:G:O2'	2:AB:8:U:P	2.78	0.42
3:AC:114:VAL:HG12	3:AC:144:THR:HA	2.01	0.42
3:AC:7:TYR:HE2	3:AC:11:LEU:HD22	1.85	0.42
3:AC:13:LYS:HB2	3:AC:32:LEU:HD23	2.01	0.42
3:AC:25:ALA:O	3:AC:29:VAL:HG12	2.19	0.42
1:AA:2125:G:C4'	3:AC:40:THR:HG21	2.39	0.42
3:AC:64:LEU:HD12	3:AC:161:ILE:CG2	2.44	0.42
4:AD:105:ILE:HG13	4:AD:106:ILE:CD1	2.49	0.42
4:AD:244:ARG:HB3	4:AD:252:TRP:HD1	1.85	0.42
4:AD:269:PHE:O	4:AD:270:ILE:CG1	2.67	0.42
4:AD:55:GLY:HA3	4:AD:217:ARG:NH2	2.34	0.42
1:AA:2210:G:C6	4:AD:70:TRP:CD2	3.08	0.42
4:AD:7:LYS:HD3	4:AD:9:TYR:CE1	2.55	0.42
5:AE:27:LEU:O	5:AE:180:ASN:HB3	2.20	0.42
6:AF:34:TRP:HA	6:AF:34:TRP:HE3	1.77	0.42
7:AG:36:LYS:HZ1	7:AG:160:VAL:CG2	2.33	0.42
7:AG:80:PHE:CG	7:AG:81:LYS:N	2.87	0.42
8:AH:105:LEU:O	8:AH:113:VAL:HG21	2.20	0.42
8:AH:11:VAL:N	8:AH:50:VAL:CG2	2.83	0.42
32:AJ:129:GLY:O	32:AJ:132:ARG:HB2	2.20	0.42
32:AJ:33:ASN:HB2	32:AJ:60:TYR:O	2.19	0.42
1:AA:558:G:OP1	9:AK:109:LYS:CG	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:16:ILE:O	9:AK:54:VAL:CG2	2.64	0.42
1:AA:2640:G:C4'	9:AK:75:TYR:OH	2.63	0.42
10:AL:106:LEU:O	10:AL:109:LYS:HG3	2.20	0.42
10:AL:24:VAL:HG13	10:AL:30:ALA:CB	2.39	0.42
10:AL:72:PRO:HB2	15:AQ:84:GLN:HE21	1.84	0.42
10:AL:86:ILE:HD13	10:AL:90:GLN:CG	2.50	0.42
11:AM:117:GLU:O	11:AM:121:LYS:CG	2.58	0.42
1:AA:944:G:O6	11:AM:35:HIS:NE2	2.53	0.42
11:AM:45:LEU:HB3	11:AM:46:LYS:HE3	2.01	0.42
11:AM:81:GLN:CA	11:AM:86:LYS:HG2	2.48	0.42
11:AM:81:GLN:O	11:AM:86:LYS:CG	2.68	0.42
12:AN:50:ALA:O	12:AN:54:MET:HG2	2.20	0.42
12:AN:6:ARG:HH21	12:AN:8:LYS:N	2.17	0.42
13:AO:102:GLU:CA	13:AO:102:GLU:OE2	2.68	0.42
1:AA:2690:C:N4	13:AO:14:SER:OG	2.52	0.42
13:AO:28:LEU:C	13:AO:28:LEU:CD1	2.88	0.42
14:AP:47:THR:O	14:AP:48:LEU:O	2.37	0.42
14:AP:70:GLY:O	14:AP:73:LEU:N	2.53	0.42
16:AR:110:VAL:HG12	16:AR:114:LYS:NZ	2.35	0.42
1:AA:535:C:O2'	16:AR:53:ARG:CG	2.66	0.42
17:AS:25:LEU:HG	17:AS:28:GLU:OE1	2.20	0.42
20:AV:13:VAL:HA	20:AV:73:ARG:HH11	1.83	0.42
21:AW:55:HIS:N	21:AW:55:HIS:ND1	2.67	0.42
22:AX:20:ARG:HB3	22:AX:24:LYS:HZ1	1.85	0.42
23:AY:39:LEU:N	23:AY:39:LEU:HD23	2.34	0.42
1:AA:851:U:C1'	24:AZ:46:ASN:HB2	2.50	0.42
24:AZ:3:ARG:NH2	24:AZ:59:VAL:CG1	2.75	0.42
34:BA:1102:A:N6	34:BA:1103:C:N4	2.68	0.42
34:BA:1185:G:O5'	34:BA:1185:G:H8	2.03	0.42
34:BA:1220:G:N3	52:BW:54:GLY:C	2.63	0.42
34:BA:1307:U:C2	34:BA:1308:U:C6	3.07	0.42
34:BA:1333:A:C2'	34:BA:1334:G:O4'	2.67	0.42
34:BA:1410:G:N2	34:BA:1411:C:C2	2.88	0.42
34:BA:1422:G:N3	34:BA:1423:G:C8	2.88	0.42
34:BA:1439:C:H6	34:BA:1439:C:O5'	2.02	0.42
34:BA:1447:G:O2'	34:BA:1448:C:H5'	2.20	0.42
34:BA:1499:A:H8	34:BA:1500:A:N7	2.09	0.42
34:BA:307:C:N3	34:BA:308:C:H5	2.14	0.42
34:BA:35:G:C5	34:BA:36:C:C5	3.08	0.42
34:BA:464:G:O5'	34:BA:464:G:H8	2.03	0.42
34:BA:48:C:H2'	34:BA:49:U:OP1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:50:A:H61	34:BA:361:G:C5'	2.33	0.42
34:BA:51:A:H4'	34:BA:52:G:H5''	2.01	0.42
34:BA:51:A:N1	34:BA:353:A:N1	2.67	0.42
34:BA:25:C:H4'	34:BA:524:G:C2	2.54	0.42
34:BA:671:G:C2'	34:BA:672:U:O4'	2.67	0.42
34:BA:684:A:O4'	44:BO:38:ASN:ND2	2.51	0.42
34:BA:689:C:OP2	44:BO:55:LYS:NZ	2.49	0.42
34:BA:730:G:C2'	34:BA:731:G:H5'	2.49	0.42
34:BA:753:A:O2'	34:BA:754:C:OP2	2.34	0.42
34:BA:942:G:N2	42:BM:124:GLN:CD	2.74	0.42
55:BC:57:G:H21	55:BC:58:A:H4'	1.85	0.42
35:BF:158:LEU:O	35:BF:160:ASP:OD2	2.38	0.42
35:BF:102:LEU:HD23	35:BF:176:GLU:HB3	1.95	0.42
35:BF:189:ASP:HB2	35:BF:205:ASP:CG	2.40	0.42
35:BF:223:ILE:C	35:BF:226:ARG:HB3	2.37	0.42
35:BF:44:LEU:CD2	35:BF:44:LEU:H	2.22	0.42
35:BF:53:ARG:O	35:BF:56:ARG:NH1	2.53	0.42
35:BF:96:ARG:O	35:BF:98:LEU:N	2.53	0.42
36:BG:142:MET:HG3	36:BG:143:GLU:N	2.35	0.42
34:BA:1056:U:H5'	36:BG:163:ALA:CB	2.50	0.42
36:BG:18:TRP:O	36:BG:21:ARG:HG2	2.20	0.42
36:BG:33:LEU:HD23	36:BG:36:ASP:CB	2.50	0.42
36:BG:36:ASP:O	36:BG:36:ASP:OD2	2.36	0.42
36:BG:38:ARG:HB2	36:BG:94:LEU:CG	2.50	0.42
36:BG:40:ARG:HE	47:BR:52:GLN:NE2	2.18	0.42
37:BH:146:ILE:CD1	37:BH:146:ILE:C	2.88	0.42
37:BH:69:GLY:C	37:BH:70:ILE:HG12	2.40	0.42
39:BJ:48:LEU:N	39:BJ:48:LEU:CD2	2.65	0.42
39:BJ:59:TYR:CE2	39:BJ:61:LEU:HD21	2.55	0.42
39:BJ:41:GLU:CB	39:BJ:62:TRP:HE3	2.26	0.42
39:BJ:11:ASN:ND2	39:BJ:86:ARG:NH2	2.60	0.42
40:BK:126:ASP:CB	40:BK:131:LYS:HG3	2.50	0.42
41:BL:111:ILE:H	41:BL:111:ILE:HD12	1.76	0.42
34:BA:642:A:C5	41:BL:115:SER:HA	2.54	0.42
41:BL:18:ARG:H	41:BL:18:ARG:NE	2.18	0.42
41:BL:40:ALA:HB2	41:BL:45:ILE:CG2	2.49	0.42
41:BL:75:ARG:HG3	41:BL:75:ARG:HH11	1.85	0.42
41:BL:6:ILE:CD1	41:BL:85:ARG:NE	2.83	0.42
42:BM:3:GLN:HG3	42:BM:20:ARG:HD3	2.02	0.42
42:BM:19:LEU:CD2	42:BM:59:PHE:HD2	2.26	0.42
43:BN:51:ARG:HB2	43:BN:59:SER:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:101:SER:O	44:BO:102:GLY:C	2.57	0.42
44:BO:104:GLN:HE22	44:BO:106:LYS:CB	2.33	0.42
44:BO:87:THR:HG22	44:BO:91:ARG:CZ	2.49	0.42
46:BQ:15:VAL:CG2	46:BQ:39:ILE:CB	2.89	0.42
46:BQ:19:LEU:C	46:BQ:21:TYR:N	2.73	0.42
47:BR:48:ALA:N	47:BR:53:LEU:HD12	2.35	0.42
48:BS:7:GLU:C	48:BS:10:LYS:HG2	2.34	0.42
49:BT:80:PHE:O	49:BT:80:PHE:CD2	2.72	0.42
50:BU:10:VAL:HB	50:BU:54:GLY:H	1.85	0.42
50:BU:35:VAL:C	50:BU:36:ILE:HD13	2.40	0.42
39:BJ:62:TRP:CD1	51:BV:35:ARG:NH2	2.88	0.42
52:BW:13:ASP:HA	52:BW:16:LEU:HB3	2.01	0.42
52:BW:41:VAL:O	52:BW:44:MET:HB2	2.19	0.42
57:BZ:117:PHE:HE1	57:BZ:148:PHE:HD2	1.67	0.42
57:BZ:156:GLU:HG2	57:BZ:156:GLU:O	2.20	0.42
57:BZ:19:THR:OG1	57:BZ:19:THR:O	2.31	0.42
57:BZ:206:GLN:CG	57:BZ:227:LYS:CB	2.27	0.42
57:BZ:253:LYS:HD2	57:BZ:262:ARG:CD	2.49	0.42
57:BZ:310:PHE:C	57:BZ:384:ARG:N	2.69	0.42
57:BZ:436:ARG:NH1	57:BZ:436:ARG:HG2	2.35	0.42
57:BZ:59:LYS:NZ	57:BZ:66:TRP:CZ2	2.88	0.42
57:BZ:502:PHE:HE2	57:BZ:555:VAL:C	2.11	0.42
31:AI:49:ALA:C	31:AI:51:LEU:N	2.73	0.42
56:BD:6:G:C2	56:BD:67:C:N3	2.88	0.42
56:BD:43:C:C2'	56:BD:44:G:H5'	2.50	0.42
1:AA:1585:C:C5'	1:AA:1586:A:OP1	2.57	0.42
50:BU:100:LYS:HB3	50:BU:100:LYS:HZ2	1.84	0.42
34:BA:1536:C:C2	34:BA:1537:U:C5	3.08	0.42
34:BA:1537:U:C2	34:BA:1538:C:C5	3.08	0.42
49:BT:2:VAL:HG12	49:BT:2:VAL:O	2.20	0.42
35:BF:22:LYS:HE2	35:BF:22:LYS:HB2	1.82	0.42
1:AA:104:U:OP2	1:AA:104:U:C6	2.73	0.41
1:AA:105:C:H2'	1:AA:106:C:H6	1.83	0.41
1:AA:1103:A:C2'	1:AA:1104:C:OP1	2.67	0.41
1:AA:1122:G:N2	1:AA:1123:C:C2	2.88	0.41
1:AA:1154:G:OP1	16:AR:62:ILE:CD1	2.57	0.41
1:AA:1193:G:H2'	1:AA:1194:A:O4'	2.19	0.41
1:AA:1196:C:H2'	1:AA:1197:G:N9	2.35	0.41
1:AA:1257:C:H1'	6:AF:83:PHE:HB2	2.02	0.41
1:AA:1287:A:C2'	1:AA:1287:A:N3	2.82	0.41
1:AA:1657:C:C2	1:AA:1658:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1684:C:C2	1:AA:1705:G:N2	2.88	0.41
1:AA:1689:A:C6	1:AA:1700:A:C4	3.08	0.41
1:AA:1841:U:C2	1:AA:1842:G:C8	3.08	0.41
1:AA:185:U:O2'	1:AA:186:G:O4'	2.27	0.41
1:AA:1920:C:C2	1:AA:1921:G:C8	3.08	0.41
1:AA:1977:A:C2	1:AA:1978:A:H1'	2.54	0.41
1:AA:2027:G:O2'	1:AA:2028:U:C5'	2.64	0.41
1:AA:2074:U:O2	1:AA:2075:U:C6	2.72	0.41
1:AA:2169:A:N1	1:AA:2170:A:C6	2.88	0.41
1:AA:2213:U:C4'	1:AA:2215:G:N7	2.83	0.41
1:AA:2236:C:C5	1:AA:2237:G:C5	3.08	0.41
1:AA:2285:C:C4'	1:AA:2288:A:N6	2.83	0.41
1:AA:2298:A:C2	1:AA:2321:G:N1	2.88	0.41
1:AA:2318:G:C2'	1:AA:2319:G:OP2	2.68	0.41
1:AA:2367:G:C2	1:AA:2368:C:C5	3.08	0.41
1:AA:2371:G:N2	1:AA:2372:G:C2	2.88	0.41
1:AA:2372:G:N3	1:AA:2372:G:H2'	2.34	0.41
1:AA:2520:C:HO2'	1:AA:2521:C:H5'	1.79	0.41
1:AA:2532:G:H4'	1:AA:2657:A:C4	2.53	0.41
1:AA:2556:C:O2	57:BZ:546:MET:HE2	2.20	0.41
1:AA:2585:U:H2'	1:AA:2586:C:OP2	2.19	0.41
1:AA:2706:G:C2	1:AA:2707:G:C4	3.08	0.41
1:AA:270(B):A:H4'	1:AA:270(C):C:C6	2.56	0.41
1:AA:2786:U:C2	1:AA:2787:C:C5	3.08	0.41
1:AA:2789:C:H2'	1:AA:2893:G:H21	1.81	0.41
1:AA:2850:A:C4	1:AA:2851:A:C8	3.08	0.41
1:AA:2887:U:N3	1:AA:2888:C:C4	2.88	0.41
1:AA:342:G:C2	1:AA:343:C:C2	3.08	0.41
1:AA:431:U:H6	1:AA:431:U:O5'	2.03	0.41
1:AA:531:C:C2'	1:AA:531:C:O2	2.68	0.41
1:AA:545:G:C1'	1:AA:549:G:N2	2.66	0.41
1:AA:558:G:O2'	1:AA:559:G:H5'	2.20	0.41
1:AA:629:G:H5'	1:AA:649:G:C2	2.55	0.41
1:AA:677:A:C4	1:AA:678:C:C5	3.08	0.41
1:AA:708:C:H2'	1:AA:709:U:C6	2.55	0.41
1:AA:726:G:H5''	1:AA:727:A:OP1	2.20	0.41
1:AA:738:G:C6	1:AA:759:G:O6	2.73	0.41
1:AA:764:A:H3'	1:AA:765:G:C5'	2.49	0.41
1:AA:833:U:C2'	1:AA:834:C:O5'	2.68	0.41
1:AA:861:A:C5	1:AA:862:G:C8	3.07	0.41
1:AA:861:A:P	1:AA:862:G:OP2	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:893:C:C5	1:AA:894:C:C4	3.06	0.41
1:AA:876:C:C2	1:AA:902:C:C2	3.08	0.41
1:AA:909:A:C2	1:AA:912:C:H1'	2.54	0.41
1:AA:983:A:H2'	1:AA:984:A:N7	2.34	0.41
2:AB:43:C:H2'	2:AB:44:G:C5'	2.50	0.41
2:AB:46:A:O2'	2:AB:47:C:C5'	2.68	0.41
2:AB:58:A:C8	2:AB:58:A:O5'	2.60	0.41
2:AB:83:G:O2'	2:AB:84:C:C5'	2.61	0.41
2:AB:85:G:C2	2:AB:86:G:C5	3.07	0.41
3:AC:223:ARG:HH11	3:AC:223:ARG:CB	2.33	0.41
1:AA:2124:G:O2'	3:AC:40:THR:O	2.38	0.41
3:AC:87:GLU:CG	3:AC:94:VAL:HG11	2.50	0.41
4:AD:122:ASP:O	4:AD:123:ALA:O	2.37	0.41
4:AD:182:LEU:HG	4:AD:270:ILE:HD11	2.02	0.41
4:AD:173:VAL:O	4:AD:184:LYS:HG3	2.20	0.41
4:AD:201:HIS:HB3	4:AD:202:LYS:HD2	2.02	0.41
4:AD:212:SER:O	4:AD:215:LEU:HB2	2.20	0.41
4:AD:244:ARG:CA	4:AD:252:TRP:CD1	3.02	0.41
4:AD:268:ARG:O	4:AD:269:PHE:CG	2.73	0.41
4:AD:37:LEU:CG	4:AD:63:ARG:HA	2.49	0.41
4:AD:66:ASP:OD2	4:AD:103:ARG:NH1	2.45	0.41
4:AD:85:ASP:OD2	4:AD:87:ASN:ND2	2.53	0.41
1:AA:2723:C:P	5:AE:109:LYS:HZ3	2.43	0.41
6:AF:116:ASP:O	6:AF:119:ARG:CD	2.68	0.41
6:AF:145:GLU:C	6:AF:147:GLY:N	2.73	0.41
6:AF:38:ARG:O	6:AF:42:ALA:CB	2.68	0.41
7:AG:152:LEU:HB2	7:AG:155:MET:CE	2.50	0.41
7:AG:41:GLN:NE2	7:AG:155:MET:CA	2.75	0.41
8:AH:142:GLY:O	8:AH:145:ALA:HB3	2.20	0.41
8:AH:96:ALA:HB3	8:AH:128:PRO:HB2	2.00	0.41
32:AJ:36:GLU:C	32:AJ:38:VAL:N	2.73	0.41
9:AK:21:LYS:CB	9:AK:26:LEU:HD22	2.50	0.41
9:AK:39:ARG:CG	9:AK:40:PRO:HD2	2.50	0.41
10:AL:11:ALA:HA	10:AL:14:THR:HG21	2.02	0.41
1:AA:636:G:P	11:AM:132:LYS:HG3	2.60	0.41
14:AP:40:ILE:CG2	14:AP:41:ASP:H	2.33	0.41
14:AP:68:GLN:C	14:AP:70:GLY:N	2.71	0.41
14:AP:69:VAL:HG12	14:AP:73:LEU:CD2	2.50	0.41
15:AQ:102:ILE:O	15:AQ:103:ARG:C	2.56	0.41
15:AQ:59:THR:C	15:AQ:61:PHE:CE1	2.93	0.41
16:AR:65:ILE:HB	16:AR:76:TYR:OH	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AR:89:GLU:HB3	17:AS:51:VAL:CA	2.49	0.41
17:AS:35:LEU:O	17:AS:61:VAL:CG1	2.63	0.41
17:AS:5:VAL:HG13	17:AS:39:LEU:CA	2.48	0.41
18:AT:24:ILE:HG22	18:AT:32:ALA:CA	2.49	0.41
19:AU:39:ILE:CG2	19:AU:54:VAL:CG1	2.96	0.41
19:AU:8:ILE:H	19:AU:9:LEU:CD1	2.34	0.41
20:AV:29:GLU:CD	20:AV:32:PRO:HG2	2.37	0.41
20:AV:82:PRO:CG	20:AV:97:ARG:N	2.66	0.41
21:AW:152:ALA:O	21:AW:155:LEU:CD2	2.60	0.41
21:AW:17:ALA:O	21:AW:20:ARG:CB	2.68	0.41
21:AW:24:LEU:HD12	21:AW:41:LEU:CD2	2.50	0.41
21:AW:48:PHE:HZ	21:AW:86:VAL:HG11	1.73	0.41
23:AY:24:LYS:HA	23:AY:52:ILE:HD13	2.02	0.41
24:AZ:40:THR:HG22	24:AZ:42:ALA:CB	2.50	0.41
34:BA:101:A:N3	34:BA:102:G:C8	2.88	0.41
34:BA:1106:G:N2	34:BA:1107:C:C2	2.88	0.41
34:BA:1130:A:C6	34:BA:1146:A:N1	2.88	0.41
34:BA:1127:G:N2	34:BA:1147:C:N4	2.67	0.41
34:BA:1191:A:C2'	34:BA:1191:A:N3	2.79	0.41
34:BA:120:A:C6	34:BA:122:G:C2	3.07	0.41
34:BA:1291:G:C2	34:BA:1292:U:C2	3.07	0.41
34:BA:1318:A:C8	52:BW:37:ARG:HB3	2.54	0.41
34:BA:1424:C:H2'	34:BA:1425:U:H6	1.85	0.41
34:BA:1431:C:H2'	34:BA:1432:G:C5'	2.49	0.41
34:BA:1485:U:C2'	34:BA:1486:G:H8	2.32	0.41
34:BA:148:G:H1	34:BA:174:C:N4	2.09	0.41
34:BA:66:G:O4'	34:BA:173:U:C4	2.72	0.41
34:BA:40:C:H2'	34:BA:41:G:O5'	2.20	0.41
34:BA:41:G:C5	34:BA:42:G:N7	2.88	0.41
34:BA:46:G:N2	34:BA:366:C:C1'	2.83	0.41
34:BA:468:A:H3'	34:BA:474:G:H8	1.85	0.41
34:BA:498:A:H4'	34:BA:500:G:C5'	2.47	0.41
34:BA:587:G:N3	34:BA:755:G:C6	2.88	0.41
34:BA:606:G:C2	34:BA:631:G:C2	3.08	0.41
34:BA:624:C:H4'	49:BT:10:GLY:C	2.41	0.41
34:BA:63:C:N3	34:BA:105:G:C6	2.88	0.41
34:BA:589:C:H1'	34:BA:653:A:N6	2.35	0.41
34:BA:673:G:O2'	34:BA:674:G:C8	2.73	0.41
34:BA:698:G:C2	34:BA:699:C:C2	3.08	0.41
34:BA:747:C:H2'	34:BA:748:C:C1'	2.49	0.41
34:BA:761:G:H2'	34:BA:762:C:H6	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:776:G:N2	34:BA:802:A:OP2	2.53	0.41
34:BA:811:C:C5	34:BA:812:C:O2	2.73	0.41
34:BA:874:G:C6	34:BA:875:C:C4	3.08	0.41
34:BA:953:G:N1	34:BA:1229:A:C6	2.88	0.41
56:BE:4:C:H5"	56:BE:4:C:H6	1.85	0.41
35:BF:118:LEU:CD2	35:BF:142:LEU:HD12	2.49	0.41
35:BF:15:VAL:HG23	35:BF:16:HIS:HD1	1.82	0.41
37:BH:88:VAL:O	37:BH:92:VAL:HG23	2.20	0.41
38:BI:111:GLU:H	38:BI:111:GLU:HG3	1.56	0.41
38:BI:129:ILE:O	38:BI:132:ALA:N	2.53	0.41
38:BI:132:ALA:O	38:BI:135:THR:CB	2.68	0.41
38:BI:141:GLN:C	38:BI:142:LEU:CG	2.87	0.41
38:BI:14:ARG:HG3	38:BI:14:ARG:O	2.20	0.41
34:BA:923:A:H5"	38:BI:21:ALA:HB2	2.02	0.41
39:BJ:23:LYS:HE3	39:BJ:61:LEU:HD11	2.02	0.41
39:BJ:76:ALA:CA	39:BJ:79:LEU:HG	2.50	0.41
40:BK:12:LEU:HD11	40:BK:21:VAL:HB	2.02	0.41
40:BK:69:VAL:HG13	40:BK:135:VAL:HG22	2.02	0.41
40:BK:139:GLU:CD	40:BK:139:GLU:N	2.72	0.41
40:BK:77:SER:OG	40:BK:86:GLN:OE1	2.37	0.41
40:BK:75:VAL:HG13	40:BK:87:VAL:N	2.35	0.41
41:BL:120:THR:O	41:BL:123:GLU:OE1	2.38	0.41
41:BL:12:ARG:HB2	41:BL:26:VAL:HG21	2.01	0.41
41:BL:46:LYS:NZ	41:BL:65:TYR:H	2.11	0.41
42:BM:9:ARG:HA	42:BM:76:ALA:HB1	2.01	0.41
43:BN:46:ARG:NE	43:BN:64:GLU:OE2	2.53	0.41
44:BO:15:ALA:HA	44:BO:78:GLN:NE2	2.35	0.41
45:BP:57:LYS:HE2	45:BP:67:THR:CG2	2.50	0.41
45:BP:7:ILE:O	45:BP:8:ASN:C	2.58	0.41
45:BP:82:VAL:HG12	45:BP:105:TYR:CD1	2.55	0.41
46:BQ:14:ARG:O	46:BQ:45:VAL:HG21	2.20	0.41
47:BR:3:ARG:CG	47:BR:3:ARG:O	2.68	0.41
47:BR:4:LYS:O	47:BR:6:LEU:N	2.53	0.41
48:BS:13:GLN:O	48:BS:15:PHE:N	2.53	0.41
34:BA:765:G:OP1	48:BS:50:HIS:CD2	2.72	0.41
48:BS:29:VAL:HG22	48:BS:67:LEU:HD21	2.01	0.41
48:BS:79:ARG:O	48:BS:80:ALA:C	2.57	0.41
34:BA:255:G:OP1	50:BU:69:LYS:CE	2.67	0.41
52:BW:77:THR:HG23	52:BW:78:ARG:HG2	2.01	0.41
34:BA:1455:G:H4'	53:BX:31:SER:HG	1.83	0.41
53:BX:40:ALA:O	53:BX:42:GLN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1305:G:C5'	54:BY:4:GLY:C	2.88	0.41
54:BY:5:ASP:O	54:BY:6:ARG:HG2	2.20	0.41
57:BZ:200:ASP:C	57:BZ:202:ASP:N	2.73	0.41
57:BZ:19:THR:HA	57:BZ:20:THR:CB	2.50	0.41
57:BZ:220:VAL:C	57:BZ:221:ILE:HD12	2.40	0.41
57:BZ:250:LYS:C	57:BZ:274:VAL:HG23	2.41	0.41
57:BZ:276:ILE:HA	57:BZ:277:THR:HA	1.61	0.41
57:BZ:509:LYS:HZ2	57:BZ:561:ILE:CG1	2.30	0.41
57:BZ:374:ARG:CB	57:BZ:582:PRO:HA	2.50	0.41
1:AA:1914:C:C4	1:AA:1915:U:C4	3.08	0.41
55:BC:66:U:H2'	55:BC:67:C:C6	2.55	0.41
1:AA:1416:G:C2	1:AA:1417:C:N4	2.87	0.41
1:AA:2797:U:C3'	1:AA:2797:U:C6	3.03	0.41
31:AI:135:ARG:C	31:AI:137:GLU:N	2.73	0.41
31:AI:19:ARG:C	31:AI:21:GLN:N	2.73	0.41
1:AA:1058:G:C2'	1:AA:1059:G:H5''	2.50	0.41
1:AA:1135:C:O2'	1:AA:1136:G:C5'	2.67	0.41
1:AA:1138:G:N2	1:AA:1139:G:C1'	2.72	0.41
1:AA:1183:G:H4'	1:AA:1184:G:O4'	2.20	0.41
1:AA:991:C:H5'	1:AA:1185:C:H2'	2.02	0.41
1:AA:1238:G:N1	1:AA:1239:G:C4	2.89	0.41
1:AA:1272:A:C6	1:AA:1618:A:N3	2.88	0.41
1:AA:1278:A:O3'	13:AO:34:ILE:HG23	2.20	0.41
1:AA:1304:C:H2'	1:AA:1305:C:O5'	2.20	0.41
1:AA:1385:G:C5	1:AA:1386:C:C5	3.08	0.41
1:AA:1449:A:C8	1:AA:1529:A:C2	3.07	0.41
1:AA:1817:G:C2'	1:AA:1818:U:C5'	2.95	0.41
1:AA:1908:C:N4	58:AA:3001:NMY:H82	2.35	0.41
1:AA:1923:U:H6	1:AA:1923:U:H5''	1.84	0.41
1:AA:194:G:C6	1:AA:195:A:C6	3.09	0.41
1:AA:203:C:C5	1:AA:204:A:N7	2.88	0.41
1:AA:677:A:O2'	1:AA:2071:A:H5'	2.20	0.41
1:AA:2083:G:C2	1:AA:2084:C:N3	2.88	0.41
1:AA:2107:C:H5''	1:AA:2108:C:O5'	2.19	0.41
1:AA:2256:G:C6	1:AA:2257:U:C4	3.08	0.41
1:AA:227:A:H62	1:AA:2407:G:H8	1.68	0.41
1:AA:21:A:H2'	1:AA:22:C:O4'	2.20	0.41
1:AA:2345:G:N3	1:AA:2381:C:H2'	2.34	0.41
1:AA:2350:C:H2'	1:AA:2351:G:O5'	2.20	0.41
1:AA:2462:U:N3	1:AA:2463:C:C4	2.88	0.41
1:AA:2468:G:C3'	1:AA:2476:A:C2	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:570:G:N2	1:AA:2498:C:O2'	2.52	0.41
1:AA:2507:C:O2'	59:AA:3002:8AN:N3	2.52	0.41
1:AA:2556:C:H2'	1:AA:2557:G:C4'	2.50	0.41
1:AA:2605:U:H2'	1:AA:2606:C:H5'	2.01	0.41
1:AA:2621:A:O2'	1:AA:2622:C:H5'	2.20	0.41
1:AA:2642:G:H2'	1:AA:2643:G:C8	2.50	0.41
1:AA:270(S):G:H2'	1:AA:270(T):G:H8	1.86	0.41
1:AA:270(T):G:C6	1:AA:270(U):C:C4	3.08	0.41
1:AA:2721:A:C2	1:AA:2873:A:N1	2.88	0.41
1:AA:2770:G:O5'	1:AA:2770:G:C8	2.67	0.41
1:AA:2810:A:H62	1:AA:2891:G:H21	1.68	0.41
1:AA:328:U:O2'	20:AV:67:LEU:N	2.51	0.41
1:AA:330:A:H1'	1:AA:1210:A:C5	2.55	0.41
1:AA:373:U:C2'	1:AA:374:A:OP2	2.68	0.41
1:AA:412:A:H2'	1:AA:413:C:H5'	2.01	0.41
1:AA:451:C:H2'	1:AA:453:C:H5	1.84	0.41
1:AA:463:G:H3'	1:AA:463:G:C8	2.55	0.41
1:AA:480:A:H2'	1:AA:481:G:OP1	2.20	0.41
1:AA:58:G:OP1	19:AU:75:ASP:N	2.53	0.41
1:AA:592:G:C6	1:AA:593:G:C5	3.08	0.41
1:AA:596:G:H3'	1:AA:597:U:H6	1.85	0.41
1:AA:617:G:C3'	1:AA:617:G:C8	3.01	0.41
1:AA:60:G:N7	1:AA:63:U:O4	2.53	0.41
1:AA:70:G:C4'	1:AA:71:A:C5'	2.88	0.41
1:AA:819:A:H2'	1:AA:820:A:C1'	2.49	0.41
1:AA:849:A:H3'	1:AA:850:C:H6	1.85	0.41
1:AA:858:U:OP1	22:AX:44:ARG:CZ	2.68	0.41
1:AA:873:G:N2	1:AA:874:G:H1'	2.35	0.41
1:AA:843:G:C2	1:AA:936:C:N3	2.88	0.41
1:AA:95:G:O2'	23:AY:42:ASN:CB	2.64	0.41
2:AB:6:C:N3	2:AB:115:G:N2	2.69	0.41
2:AB:85:G:C4	2:AB:86:G:C8	3.08	0.41
3:AC:156:ILE:O	3:AC:159:GLY:CA	2.68	0.41
3:AC:10:LEU:HD21	3:AC:33:ALA:HB2	2.02	0.41
3:AC:52:ARG:CG	3:AC:53:ARG:N	2.84	0.41
1:AA:1820:U:C1'	4:AD:202:LYS:CG	2.97	0.41
4:AD:22:SER:HA	4:AD:205:VAL:O	2.20	0.41
4:AD:208:LYS:HB3	4:AD:211:ARG:HG3	2.02	0.41
1:AA:1567:A:OP2	4:AD:86:PRO:HA	2.20	0.41
5:AE:11:MET:CG	5:AE:12:THR:N	2.83	0.41
5:AE:149:ARG:HB2	5:AE:150:VAL:H	1.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:61:ARG:CB	5:AE:62:PRO:CD	2.99	0.41
5:AE:64:LYS:HG2	5:AE:67:PHE:CD1	2.55	0.41
5:AE:49:LEU:HD11	5:AE:76:ARG:H	1.85	0.41
6:AF:142:TRP:O	6:AF:143:ALA:C	2.58	0.41
7:AG:149:VAL:CG1	7:AG:150:ASP:H	2.32	0.41
7:AG:35:GLU:OE2	7:AG:160:VAL:CG1	2.68	0.41
8:AH:24:VAL:HG23	8:AH:35:VAL:CG2	2.36	0.41
8:AH:25:LYS:HG3	8:AH:27:LYS:HG3	2.02	0.41
8:AH:7:LEU:HB3	8:AH:65:HIS:CD2	2.55	0.41
9:AK:71:ILE:HG22	9:AK:72:TYR:H	1.85	0.41
9:AK:87:LEU:CD2	9:AK:88:GLU:CD	2.88	0.41
11:AM:46:LYS:NZ	11:AM:50:ARG:CZ	2.83	0.41
12:AN:137:TYR:O	12:AN:138:ASP:OD2	2.33	0.41
13:AO:75:LEU:CD2	13:AO:78:LYS:HB3	2.51	0.41
2:AB:29:A:P	14:AP:34:HIS:ND1	2.93	0.41
14:AP:36:TYR:CD1	14:AP:37:ALA:N	2.89	0.41
14:AP:75:GLU:O	14:AP:78:LEU:CB	2.66	0.41
14:AP:99:LYS:O	14:AP:103:GLU:CD	2.59	0.41
15:AQ:16:ARG:HH11	15:AQ:16:ARG:HG3	1.86	0.41
15:AQ:27:THR:CG2	15:AQ:28:VAL:H	2.23	0.41
17:AS:70:ILE:HG22	17:AS:89:GLN:O	2.20	0.41
18:AT:72:LYS:O	18:AT:106:ILE:HG23	2.18	0.41
20:AV:2:ARG:HD2	20:AV:3:VAL:CA	2.49	0.41
21:AW:151:HIS:CG	21:AW:168:GLU:CG	3.03	0.41
21:AW:179:ASP:OD1	21:AW:180:VAL:N	2.46	0.41
22:AX:21:LEU:HD11	22:AX:40:GLN:C	2.41	0.41
23:AY:25:ARG:O	23:AY:28:MET:CB	2.61	0.41
23:AY:29:GLU:C	23:AY:33:GLN:OE1	2.58	0.41
34:BA:1053:G:O5'	34:BA:1055:A:OP1	2.38	0.41
34:BA:1057:G:C2'	34:BA:1058:G:O5'	2.67	0.41
34:BA:1091:U:C6	34:BA:1093:A:OP2	2.73	0.41
34:BA:1183:A:C2'	34:BA:1184:G:OP1	2.68	0.41
34:BA:118:U:H3'	34:BA:288:A:N6	2.35	0.41
34:BA:1249:C:C1'	42:BM:70:LYS:HZ3	2.34	0.41
34:BA:1268:A:N3	34:BA:1311:G:C2	2.88	0.41
34:BA:1279:A:H5''	43:BN:7:LYS:HE2	2.02	0.41
34:BA:1371:G:C5	34:BA:1372:U:C6	3.08	0.41
34:BA:1455:G:C2'	34:BA:1459:C:C5'	2.88	0.41
1:AA:1961:C:H5'	34:BA:1484:C:O2'	2.20	0.41
34:BA:1484:C:O2'	34:BA:1485:U:C5'	2.56	0.41
34:BA:149:A:C6	34:BA:150:C:N4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1518:A:C6	34:BA:1519:A:N6	2.88	0.41
34:BA:15:G:N3	34:BA:16:A:C8	2.88	0.41
34:BA:255:G:C6	34:BA:256:U:C4	3.08	0.41
34:BA:255:G:OP1	50:BU:69:LYS:NZ	2.53	0.41
34:BA:266:G:H2'	34:BA:267:C:OP2	2.19	0.41
34:BA:299:G:C2'	34:BA:300:A:N7	2.73	0.41
34:BA:319:G:H2'	34:BA:320:C:H5'	2.02	0.41
34:BA:328:C:C3'	34:BA:328:C:O2	2.68	0.41
34:BA:438:G:N3	34:BA:495:A:C8	2.88	0.41
34:BA:42:G:C4	34:BA:43:C:C5	3.08	0.41
34:BA:537:G:O2'	34:BA:538:G:H5'	2.20	0.41
34:BA:607:A:C4	34:BA:608:A:H8	2.38	0.41
34:BA:671:G:H2'	34:BA:671:G:N3	2.35	0.41
34:BA:685:G:H4'	44:BO:40:ILE:HA	2.02	0.41
34:BA:688:G:N1	34:BA:700:G:C6	2.89	0.41
34:BA:818:G:C3'	34:BA:819:A:H5''	2.49	0.41
34:BA:828:A:N3	34:BA:859:A:N3	2.68	0.41
34:BA:838:G:N2	34:BA:849:C:C2	2.88	0.41
34:BA:89:U:C4	34:BA:90:C:C5	3.07	0.41
34:BA:937:A:N3	34:BA:1379:G:N1	2.68	0.41
34:BA:95:G:H2'	34:BA:96:G:O4'	2.20	0.41
34:BA:993:G:N2	34:BA:995:C:N4	2.68	0.41
34:BA:996:A:N1	34:BA:997:U:C4	2.88	0.41
56:BE:7:A:O2'	56:BE:8:U:O5'	2.33	0.41
35:BF:130:ARG:NE	35:BF:130:ARG:CA	2.78	0.41
35:BF:89:GLY:O	35:BF:90:MET:HG2	2.20	0.41
36:BG:160:ALA:C	36:BG:162:GLN:N	2.69	0.41
34:BA:1107:C:P	36:BG:172:ARG:HG2	2.60	0.41
37:BH:22:LYS:HB3	37:BH:26:CYS:HB3	2.02	0.41
38:BI:135:THR:HG22	38:BI:139:LEU:HD11	2.02	0.41
38:BI:149:GLU:OE2	38:BI:152:ARG:HG3	2.20	0.41
38:BI:39:GLY:C	38:BI:68:GLU:OE2	2.59	0.41
38:BI:78:HIS:ND1	41:BL:104:ARG:CD	2.82	0.41
40:BK:118:VAL:HG12	40:BK:122:HIS:CE1	2.55	0.41
40:BK:27:ILE:HA	40:BK:30:ILE:HD12	2.02	0.41
40:BK:30:ILE:HD11	40:BK:43:PHE:HD1	1.86	0.41
41:BL:109:ILE:HG12	41:BL:137:VAL:C	2.40	0.41
41:BL:35:ILE:O	41:BL:37:ARG:N	2.53	0.41
41:BL:49:GLU:CD	41:BL:60:ARG:HB3	2.40	0.41
41:BL:65:TYR:HE2	41:BL:78:GLN:CD	2.24	0.41
41:BL:92:ARG:HG2	41:BL:92:ARG:NH1	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:5:TYR:CZ	42:BM:18:PHE:CE2	3.08	0.41
44:BO:42:TRP:C	44:BO:42:TRP:HE3	2.24	0.41
44:BO:69:ALA:O	44:BO:70:LYS:C	2.58	0.41
44:BO:83:ILE:CD1	44:BO:83:ILE:N	2.82	0.41
45:BP:5:PRO:HG3	45:BP:15:ARG:NH2	2.35	0.41
46:BQ:74:VAL:O	46:BQ:78:ILE:HD12	2.20	0.41
46:BQ:78:ILE:C	46:BQ:81:LEU:CD1	2.89	0.41
34:BA:980:C:H1'	47:BR:19:ARG:HA	2.01	0.41
50:BU:22:LEU:HD12	50:BU:23:VAL:N	2.34	0.41
57:BZ:13:HIS:O	57:BZ:15:ASP:N	2.53	0.41
57:BZ:180:ALA:N	57:BZ:181:GLU:C	2.72	0.41
57:BZ:200:ASP:O	57:BZ:202:ASP:N	2.54	0.41
57:BZ:211:GLN:HA	57:BZ:284:ILE:HG12	2.02	0.41
57:BZ:212:LEU:HD21	57:BZ:282:LEU:HB2	1.62	0.41
57:BZ:426:LEU:O	57:BZ:428:ASN:N	2.52	0.41
57:BZ:510:LEU:HD23	57:BZ:524:ILE:O	2.20	0.41
57:BZ:565:LEU:HD21	57:BZ:585:ILE:HD12	2.03	0.41
57:BZ:565:LEU:N	57:BZ:566:GLU:CB	2.72	0.41
57:BZ:564:THR:O	57:BZ:566:GLU:OE2	2.38	0.41
57:BZ:382:VAL:O	57:BZ:578:VAL:HG23	2.20	0.41
57:BZ:500:ALA:N	57:BZ:540:GLY:H	2.18	0.41
32:AJ:15:GLY:CA	32:AJ:45:THR:O	2.66	0.41
23:AY:10:LYS:N	23:AY:10:LYS:HD3	2.35	0.41
23:AY:3:LYS:HA	23:AY:3:LYS:HD3	1.82	0.41
1:AA:1579:A:H3'	1:AA:1580:A:O4'	2.19	0.41
57:BZ:258:LEU:CD2	57:BZ:259:GLY:HA3	2.49	0.41
1:AA:2186:G:C2	1:AA:2187:G:C6	3.08	0.41
3:AC:4:GLY:C	3:AC:5:LYS:HD2	2.39	0.41
34:BA:73:G:N2	34:BA:74:C:C2	2.88	0.41
34:BA:1534:A:C2	34:BA:1535:C:C6	3.08	0.41
1:AA:1049:C:N4	1:AA:1050:A:H62	2.16	0.41
1:AA:1150:C:H2'	1:AA:1151:G:O4'	2.20	0.41
1:AA:1155:A:C3'	1:AA:1155:A:P	3.08	0.41
1:AA:119:A:O2'	1:AA:120:U:H3'	2.20	0.41
1:AA:1257:C:C1'	6:AF:83:PHE:HB2	2.50	0.41
1:AA:1389:G:H5'	1:AA:1525:G:H5'	1.99	0.41
1:AA:1419:A:H3'	1:AA:1420:U:N1	2.34	0.41
1:AA:1448:G:C4'	1:AA:1543:A:C6	2.90	0.41
1:AA:1601:G:N3	1:AA:1601:G:H2'	2.34	0.41
1:AA:1605:C:C5	1:AA:1606:G:C5	3.09	0.41
1:AA:1651:G:O3'	1:AA:1652:A:O4'	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1754:C:H5	15:AQ:98:LYS:CD	2.33	0.41
1:AA:1884:A:O4'	1:AA:1884:A:P	2.78	0.41
1:AA:1945:G:O2'	1:AA:1946:U:H5'	2.20	0.41
1:AA:1944:U:O2'	1:AA:1955:U:C1'	2.68	0.41
1:AA:1826:G:N2	1:AA:1970:A:H2	2.15	0.41
1:AA:2014:A:C2'	1:AA:2015:A:OP2	2.69	0.41
1:AA:2018:G:C5	1:AA:2019:A:C5	3.08	0.41
1:AA:2032:G:H4'	1:AA:2033:A:OP1	2.19	0.41
1:AA:2074:U:C2	1:AA:2436:G:C2	3.08	0.41
1:AA:2148:G:C4	1:AA:2149:G:C8	3.08	0.41
1:AA:2155:G:C2'	1:AA:2156:G:O5'	2.68	0.41
1:AA:2167:U:O2	1:AA:2167:U:H2'	2.20	0.41
1:AA:2236:C:C5'	1:AA:2236:C:H6	2.33	0.41
1:AA:192:C:OP1	1:AA:2243:U:OP1	2.38	0.41
1:AA:2284:C:H2'	1:AA:2285:C:C6	2.56	0.41
1:AA:2340:G:C2	1:AA:2341:G:C8	3.08	0.41
1:AA:2427:C:H4'	1:AA:2428:G:H5''	2.01	0.41
1:AA:245:G:C2	1:AA:246:C:C5	3.08	0.41
1:AA:2626:C:O5'	1:AA:2626:C:C6	2.71	0.41
1:AA:2640:G:C5	1:AA:2641:G:N7	2.88	0.41
1:AA:2680:C:OP1	5:AE:190:GLY:CA	2.66	0.41
1:AA:2721:A:H3'	1:AA:2722:G:C8	2.55	0.41
1:AA:2729:G:H2'	1:AA:2730:C:O4'	2.20	0.41
1:AA:2755:C:H4'	1:AA:2756:U:H6	1.85	0.41
1:AA:2792:G:C4	1:AA:2805:G:N1	2.86	0.41
1:AA:2817:G:N2	1:AA:2830:G:C4	2.89	0.41
1:AA:2847:U:C6	1:AA:2848:G:C8	3.09	0.41
1:AA:2893:G:C5'	1:AA:2894:G:OP1	2.66	0.41
1:AA:559:G:HO2'	1:AA:560:C:C5'	2.26	0.41
1:AA:618:G:C8	1:AA:618(A):C:H5	2.36	0.41
1:AA:696:G:C4	1:AA:697:C:C5	3.08	0.41
1:AA:727:A:C2	1:AA:728:G:H5'	2.55	0.41
1:AA:956:G:C8	1:AA:956:G:C3'	3.04	0.41
1:AA:996:A:N3	1:AA:997:G:C8	2.88	0.41
2:AB:18:G:C2	2:AB:19:G:C8	3.07	0.41
2:AB:85:G:H2'	2:AB:86:G:H8	1.86	0.41
1:AA:2208:U:C4'	4:AD:151:LYS:NZ	2.76	0.41
4:AD:177:LEU:CD2	4:AD:181:GLU:C	2.88	0.41
4:AD:132:PRO:CB	4:AD:190:TYR:CE1	3.02	0.41
4:AD:262:ARG:O	4:AD:263:ARG:C	2.58	0.41
5:AE:119:ARG:CD	5:AE:156:MET:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:1:MET:O	5:AE:2:LYS:HG3	2.20	0.41
5:AE:38:THR:CB	5:AE:39:PRO:CD	2.98	0.41
6:AF:153:SER:H	6:AF:190:GLU:CG	2.32	0.41
6:AF:168:ARG:HB2	6:AF:169:ASN:H	1.66	0.41
6:AF:173:VAL:HG22	6:AF:174:VAL:N	2.33	0.41
6:AF:205:ARG:O	6:AF:206:ILE:C	2.59	0.41
6:AF:5:ALA:O	6:AF:7:TYR:HD1	2.03	0.41
7:AG:112:PRO:HG2	7:AG:112:PRO:O	2.20	0.41
7:AG:110:ALA:CB	7:AG:139:LEU:HD11	2.50	0.41
7:AG:176:LEU:HD13	7:AG:176:LEU:C	2.40	0.41
7:AG:86:MET:H	7:AG:87:PRO:HD2	1.81	0.41
32:AJ:106:GLU:O	32:AJ:109:LYS:HG3	2.21	0.41
9:AK:10:GLU:HG2	9:AK:12:ARG:HH22	1.85	0.41
9:AK:27:ALA:C	9:AK:29:LYS:N	2.74	0.41
9:AK:74:ARG:HG2	9:AK:76:SER:OG	2.20	0.41
10:AL:28:SER:O	10:AL:29:ASN:CB	2.64	0.41
11:AM:119:GLU:C	11:AM:120:ALA:O	2.57	0.41
11:AM:18:ARG:C	11:AM:20:GLY:N	2.74	0.41
12:AN:110:THR:O	12:AN:111:GLU:HG2	2.19	0.41
12:AN:11:LYS:HZ3	12:AN:73:PRO:CG	2.31	0.41
12:AN:72:LYS:O	12:AN:93:TYR:HA	2.20	0.41
12:AN:42:ILE:C	12:AN:94:VAL:CG2	2.87	0.41
13:AO:22:ARG:HD3	13:AO:69:ASP:O	2.21	0.41
13:AO:97:VAL:C	13:AO:98:LEU:CG	2.85	0.41
13:AO:9:LYS:O	13:AO:10:LEU:HD23	2.20	0.41
14:AP:69:VAL:O	14:AP:73:LEU:HD22	2.19	0.41
15:AQ:21:GLU:HG3	15:AQ:88:ILE:CD1	2.43	0.41
15:AQ:65:LYS:CE	15:AQ:75:ILE:CD1	2.98	0.41
15:AQ:50:ILE:CG2	15:AQ:68:TYR:CB	2.98	0.41
16:AR:108:GLU:HA	16:AR:111:GLU:HG2	2.02	0.41
9:AK:42:TRP:HZ3	16:AR:71:GLN:NE2	2.17	0.41
16:AR:94:ASN:O	16:AR:97:ASP:HB2	2.19	0.41
17:AS:20:LEU:HG	17:AS:20:LEU:O	2.21	0.41
17:AS:1:MET:N	17:AS:45:THR:OG1	2.50	0.41
16:AR:94:ASN:ND2	17:AS:6:LYS:HZ1	2.13	0.41
19:AU:27:THR:HG22	19:AU:80:ILE:HD12	2.02	0.41
20:AV:95:LYS:HE3	20:AV:103:GLY:CA	2.49	0.41
21:AW:102:LEU:CD2	21:AW:125:LEU:HD12	2.49	0.41
21:AW:80:ARG:HB2	21:AW:81:ARG:H	1.37	0.41
23:AY:34:ALA:O	23:AY:35:SER:CB	2.67	0.41
24:AZ:51:ALA:O	24:AZ:52:HIS:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:999:U:C4	34:BA:1042:G:C6	3.08	0.41
34:BA:1050:G:H2'	34:BA:1050:G:N3	2.35	0.41
34:BA:1090:U:O2'	34:BA:1091:U:C5'	2.68	0.41
34:BA:1107:C:H2'	34:BA:1108:G:H5''	2.01	0.41
34:BA:1170:A:H3'	34:BA:1170:A:C8	2.56	0.41
34:BA:1201:A:N3	34:BA:1201:A:C2'	2.80	0.41
34:BA:1055:A:N6	34:BA:1206:G:C4	2.89	0.41
34:BA:1221:G:C6	34:BA:1222:G:C5	3.08	0.41
34:BA:1226:C:H2'	34:BA:1226:C:O2	2.21	0.41
34:BA:971:G:O5'	34:BA:1231:G:N2	2.54	0.41
34:BA:1331:G:OP1	34:BA:1331:G:C4'	2.68	0.41
34:BA:1475:G:H2'	34:BA:1476:G:O5'	2.21	0.41
34:BA:1476:G:C2	34:BA:1477:C:C4	3.07	0.41
34:BA:1494:G:H1'	34:BA:1495:U:OP1	2.20	0.41
34:BA:1511:G:C5	34:BA:1512:U:C5	3.08	0.41
34:BA:20:U:H5'	34:BA:572:A:C6	2.49	0.41
34:BA:222:U:C2'	34:BA:223:U:O5'	2.68	0.41
34:BA:253:U:H2'	34:BA:254:G:H8	1.85	0.41
34:BA:265:G:H5'	50:BU:64:PRO:C	2.40	0.41
34:BA:284:G:O2'	34:BA:285:G:C5'	2.62	0.41
34:BA:51:A:N1	34:BA:353:A:C2	2.87	0.41
34:BA:410:G:N2	34:BA:429:U:C2	2.88	0.41
34:BA:427:U:C6	34:BA:427:U:O5'	2.64	0.41
34:BA:42:G:C6	34:BA:43:C:C4	3.08	0.41
34:BA:51:A:H4'	34:BA:52:G:O5'	2.16	0.41
34:BA:576:G:N7	34:BA:881:G:O4'	2.53	0.41
34:BA:648:A:O2'	34:BA:649:G:H5'	2.19	0.41
34:BA:697:U:C3'	34:BA:698:G:H8	2.33	0.41
34:BA:724:G:N2	34:BA:725:G:N9	2.68	0.41
34:BA:667:G:C2	34:BA:740:U:C2	3.09	0.41
34:BA:652:U:C5	34:BA:752:G:C2	3.08	0.41
34:BA:782:A:C8	34:BA:783:C:C5	3.08	0.41
34:BA:826:C:H6	34:BA:826:C:O5'	2.02	0.41
34:BA:835:U:O2	34:BA:852:G:N2	2.53	0.41
34:BA:892:A:C4	34:BA:907:A:C6	3.09	0.41
34:BA:938:A:C2'	34:BA:939:G:C5'	2.98	0.41
34:BA:961:U:O4'	34:BA:983:A:C2	2.73	0.41
55:BC:58:A:H1'	55:BC:60:U:H5	1.80	0.41
42:BM:127:LYS:HB2	56:BE:31:A:OP1	2.15	0.41
56:BE:5:G:H2'	56:BE:5:G:N3	2.36	0.41
56:BE:74:C:O5'	56:BE:74:C:H6	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:11:LEU:HD23	35:BF:11:LEU:N	2.36	0.41
36:BG:59:ARG:HD3	36:BG:61:ALA:O	2.20	0.41
36:BG:6:HIS:CD2	36:BG:8:ILE:HG22	2.55	0.41
37:BH:106:TYR:CZ	37:BH:112:VAL:O	2.73	0.41
37:BH:106:TYR:OH	37:BH:112:VAL:O	2.22	0.41
37:BH:126:ILE:C	37:BH:149:ALA:HB2	2.39	0.41
38:BI:109:ILE:CD1	38:BI:139:LEU:HD11	2.50	0.41
38:BI:72:GLN:NE2	38:BI:144:THR:CG2	2.76	0.41
40:BK:15:ASP:HB3	40:BK:20:ASP:H	1.84	0.41
40:BK:87:VAL:HG21	40:BK:154:TYR:CB	2.49	0.41
41:BL:118:VAL:C	41:BL:119:LEU:HD22	2.40	0.41
41:BL:119:LEU:HB3	41:BL:123:GLU:OE2	2.20	0.41
41:BL:77:GLU:HB3	41:BL:78:GLN:H	1.45	0.41
41:BL:85:ARG:HD2	41:BL:86:ILE:H	1.85	0.41
42:BM:101:PHE:C	42:BM:102:LEU:CD2	2.81	0.41
42:BM:31:GLN:HG2	42:BM:35:GLU:OE1	2.21	0.41
36:BG:23:TYR:CE1	43:BN:10:GLY:C	2.94	0.41
43:BN:33:GLN:O	43:BN:34:VAL:HG23	2.20	0.41
43:BN:44:VAL:HG22	43:BN:66:ARG:HD2	2.01	0.41
43:BN:37:PRO:HA	43:BN:72:VAL:HA	2.03	0.41
44:BO:61:ALA:HB1	44:BO:94:ALA:CA	2.50	0.41
45:BP:117:ARG:O	45:BP:121:GLY:CA	2.68	0.41
47:BR:49:HIS:O	47:BR:50:LYS:C	2.58	0.41
47:BR:4:LYS:HA	47:BR:7:ILE:CD1	2.49	0.41
48:BS:36:ILE:HD11	48:BS:60:VAL:HA	2.02	0.41
49:BT:30:GLY:O	49:BT:31:LYS:C	2.58	0.41
34:BA:760:G:C2'	50:BU:103:GLY:HA3	2.49	0.41
50:BU:97:SER:O	50:BU:98:LEU:CD2	2.61	0.41
52:BW:78:ARG:O	52:BW:79:THR:OG1	2.21	0.41
53:BX:51:GLU:CB	53:BX:54:LYS:NZ	2.77	0.41
53:BX:74:LYS:N	53:BX:74:LYS:HD3	2.35	0.41
34:BA:263:A:H5''	53:BX:75:ASN:HD21	1.83	0.41
57:BZ:11:ILE:HA	57:BZ:112:VAL:HG11	2.03	0.41
57:BZ:160:PHE:HA	57:BZ:162:ILE:HG13	2.03	0.41
57:BZ:206:GLN:O	57:BZ:227:LYS:CA	2.67	0.41
57:BZ:24:LYS:O	57:BZ:26:LEU:N	2.54	0.41
57:BZ:253:LYS:HB2	57:BZ:262:ARG:CG	2.43	0.41
57:BZ:6:ARG:CA	57:BZ:69:ARG:HB3	2.50	0.41
57:BZ:85:VAL:CG1	57:BZ:88:VAL:HG21	2.49	0.41
1:AA:2101:G:C6	1:AA:2102:U:C4	3.09	0.41
34:BA:1029:G:N3	34:BA:1031:G:OP2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1023:U:H2'	1:AA:1024:G:C4'	2.50	0.41
1:AA:1051:G:C2'	1:AA:1052:C:H5''	2.49	0.41
1:AA:1060:U:OP1	32:AJ:52:ILE:HD12	2.18	0.41
1:AA:1150:C:C2	1:AA:1151:G:C8	3.08	0.41
1:AA:996:A:C5	1:AA:1160:G:C2	3.08	0.41
1:AA:1168:G:H8	1:AA:1168:G:O5'	2.04	0.41
1:AA:1272:A:H5'	1:AA:1646:C:N3	2.35	0.41
1:AA:1283:G:H22	1:AA:1286:A:C5'	2.33	0.41
1:AA:1353:A:O2'	1:AA:1354:A:H5'	2.19	0.41
1:AA:1496:A:H2'	1:AA:1497:U:H5	1.84	0.41
1:AA:149:A:H8	1:AA:150:C:O4'	2.01	0.41
1:AA:1517:G:C2	1:AA:1518:C:C2	3.09	0.41
1:AA:1593:G:H2'	1:AA:1594:G:H8	1.85	0.41
1:AA:1343:G:C8	1:AA:1597:A:N6	2.89	0.41
1:AA:1761:C:C6	1:AA:1761:C:H3'	2.55	0.41
1:AA:1777:U:C2'	1:AA:1778:U:C5'	2.97	0.41
1:AA:1786:A:C5	1:AA:1787:A:C5	3.08	0.41
1:AA:1853:A:OP2	1:AA:1853:A:H8	2.03	0.41
1:AA:1920:C:C5	1:AA:1921:G:N7	2.89	0.41
1:AA:1946:U:C2'	1:AA:1947:C:O5'	2.68	0.41
1:AA:1954:G:O2'	1:AA:1956:U:C4	2.65	0.41
1:AA:2027:G:C4	1:AA:2028:U:C6	3.08	0.41
1:AA:2040:C:C2'	1:AA:2041:U:O5'	2.68	0.41
1:AA:2075:U:O2	1:AA:2238:G:N2	2.53	0.41
1:AA:2077:A:H1'	1:AA:2434:A:HO2'	1.84	0.41
1:AA:2087:G:H8	1:AA:2087:G:C5'	2.34	0.41
1:AA:2093:G:C2'	1:AA:2094:G:H5'	2.51	0.41
1:AA:2094:G:N7	1:AA:2095:C:C4	2.88	0.41
1:AA:221:A:C8	1:AA:266:G:N7	2.88	0.41
1:AA:2285:C:H4'	1:AA:2288:A:C6	2.55	0.41
1:AA:2331:G:C4	1:AA:2332:U:C2	3.08	0.41
1:AA:2320:A:C2	1:AA:2334:G:OP1	2.74	0.41
1:AA:2287:A:H2	1:AA:2346:A:N6	2.18	0.41
1:AA:235:U:O5'	1:AA:235:U:H6	2.03	0.41
1:AA:2351:G:H22	1:AA:2365:G:H2'	1.85	0.41
1:AA:2441:C:O2	1:AA:2441:C:H2'	2.20	0.41
1:AA:2508:G:N2	1:AA:2509:G:H1'	2.35	0.41
1:AA:2582:G:C5'	1:AA:2582:G:C8	2.98	0.41
1:AA:2684:U:O2'	10:AL:67:LYS:CD	2.69	0.41
1:AA:2000:G:O2'	1:AA:2689:U:C5	2.73	0.41
1:AA:2695:C:O2'	1:AA:2696:U:C6	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2705:A:C8	1:AA:2706:G:N7	2.89	0.41
1:AA:270(B):A:C2'	1:AA:270(C):C:H6	2.34	0.41
1:AA:2717:G:HO2'	1:AA:2718:G:P	2.38	0.41
1:AA:2867:G:O3'	1:AA:2868:A:H8	2.03	0.41
1:AA:2884:U:H2'	1:AA:2885:C:H5'	2.01	0.41
1:AA:2886:G:H21	1:AA:2887:U:H1'	1.85	0.41
1:AA:344:G:C2	1:AA:345:A:N6	2.88	0.41
1:AA:388:G:N2	1:AA:390:A:N1	2.68	0.41
1:AA:413:C:N4	1:AA:2410:G:H1	2.19	0.41
1:AA:428:A:H3'	1:AA:429:A:C8	2.56	0.41
1:AA:558:G:N3	1:AA:559:G:C8	2.89	0.41
1:AA:573:G:C3'	1:AA:574:C:H5''	2.51	0.41
1:AA:651:G:C8	1:AA:652:C:C1'	3.03	0.41
1:AA:656:G:O2'	1:AA:657:U:O5'	2.38	0.41
1:AA:665:C:O2'	1:AA:666:G:O5'	2.19	0.41
1:AA:725:G:O6	1:AA:726:G:N2	2.50	0.41
1:AA:73:A:O5'	1:AA:73:A:H8	2.03	0.41
1:AA:763:G:N1	1:AA:765:G:C4	2.88	0.41
1:AA:781:A:N1	1:AA:1776:G:O2'	2.39	0.41
1:AA:781:A:H2'	1:AA:781:A:N3	2.35	0.41
1:AA:848:G:N3	1:AA:933:A:N3	2.68	0.41
1:AA:93:C:H2'	1:AA:94:G:H8	1.80	0.41
2:AB:112:G:N2	2:AB:113:C:H1'	2.34	0.41
2:AB:47:C:H2'	2:AB:48:A:C5'	2.47	0.41
2:AB:68:C:C2'	2:AB:69:G:H8	2.34	0.41
3:AC:22:ILE:O	3:AC:25:ALA:CB	2.63	0.41
3:AC:83:ILE:O	3:AC:87:GLU:CB	2.52	0.41
4:AD:123:ALA:HB1	4:AD:129:ASN:HB3	2.02	0.41
1:AA:1813:G:HO2'	4:AD:52:ARG:NH2	2.13	0.41
4:AD:5:LYS:HA	4:AD:28:GLU:CB	2.50	0.41
4:AD:29:PRO:HG3	4:AD:82:ILE:HG22	2.01	0.41
4:AD:90:ALA:HB2	4:AD:159:ALA:HB1	2.01	0.41
1:AA:1656:C:C5'	5:AE:136:ARG:CZ	2.98	0.41
5:AE:173:VAL:CG1	5:AE:184:VAL:CA	2.77	0.41
5:AE:23:VAL:HG11	5:AE:188:VAL:HG22	2.01	0.41
5:AE:195:LEU:HD13	5:AE:196:VAL:CA	2.42	0.41
1:AA:600:G:H1'	6:AF:105:VAL:CG2	2.50	0.41
6:AF:133:ASN:CG	6:AF:162:LEU:CD1	2.89	0.41
7:AG:173:LEU:HD12	7:AG:176:LEU:CD1	2.40	0.41
7:AG:19:LEU:HA	7:AG:22:ARG:HG2	2.01	0.41
7:AG:19:LEU:CA	7:AG:22:ARG:HG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:5:VAL:HG12	7:AG:6:ALA:N	2.35	0.41
8:AH:35:VAL:HG21	8:AH:75:ALA:HB2	2.00	0.41
32:AJ:86:LYS:C	32:AJ:88:ALA:H	2.24	0.41
9:AK:115:ARG:HA	9:AK:118:LYS:CG	2.49	0.41
9:AK:23:LEU:HD23	9:AK:23:LEU:N	2.34	0.41
10:AL:24:VAL:H	10:AL:30:ALA:HB1	1.85	0.41
1:AA:1664:A:O2'	10:AL:66:LYS:CE	2.69	0.41
10:AL:78:ARG:CD	10:AL:78:ARG:N	2.84	0.41
12:AN:12:GLN:O	12:AN:12:GLN:CD	2.59	0.41
12:AN:134:ARG:C	12:AN:134:ARG:NH1	2.67	0.41
12:AN:51:ARG:HG2	12:AN:51:ARG:HH11	1.83	0.41
12:AN:63:LYS:CD	12:AN:64:ILE:N	2.76	0.41
12:AN:98:LYS:N	12:AN:98:LYS:HE2	2.34	0.41
13:AO:115:GLU:HG2	13:AO:116:LEU:O	2.20	0.41
13:AO:7:GLY:O	13:AO:8:ARG:O	2.38	0.41
14:AP:71:ARG:HA	14:AP:104:GLY:O	2.20	0.41
14:AP:96:GLY:O	14:AP:98:VAL:N	2.54	0.41
15:AQ:19:LEU:O	15:AQ:20:PRO:O	2.38	0.41
15:AQ:28:VAL:HG23	15:AQ:94:ALA:CA	2.50	0.41
16:AR:105:VAL:HG12	16:AR:106:PHE:N	2.32	0.41
16:AR:61:TRP:O	16:AR:64:ARG:N	2.53	0.41
16:AR:97:ASP:O	16:AR:100:VAL:HG23	2.20	0.41
17:AS:83:ARG:CG	17:AS:84:LYS:N	2.83	0.41
18:AT:30:GLU:OE2	18:AT:31:GLU:N	2.54	0.41
20:AV:6:HIS:CD2	20:AV:33:LYS:NZ	2.89	0.41
21:AW:127:LYS:HD2	21:AW:163:LEU:C	2.40	0.41
21:AW:139:VAL:HG11	21:AW:155:LEU:O	2.19	0.41
21:AW:177:PRO:CG	21:AW:178:GLU:N	2.69	0.41
21:AW:1:MET:H2	21:AW:58:VAL:HG11	1.85	0.41
23:AY:27:LEU:HD11	23:AY:48:LEU:CG	2.49	0.41
24:AZ:32:GLN:N	24:AZ:32:GLN:CD	2.72	0.41
24:AZ:40:THR:HB	24:AZ:43:ILE:CB	2.49	0.41
24:AZ:43:ILE:O	24:AZ:47:VAL:HG23	2.20	0.41
24:AZ:7:LYS:O	24:AZ:54:VAL:CG2	2.59	0.41
34:BA:1033:G:C2	34:BA:1034:G:C4	3.09	0.41
34:BA:1084:G:OP1	34:BA:1086:U:C1'	2.68	0.41
34:BA:1107:C:C2'	34:BA:1108:G:H5''	2.51	0.41
34:BA:111:G:C5'	34:BA:112:G:OP2	2.67	0.41
34:BA:1175:G:H2'	34:BA:1176:A:C8	2.56	0.41
34:BA:1189:C:HO2'	34:BA:1190:G:H5'	1.86	0.41
34:BA:1193:G:H2'	34:BA:1194:U:C5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1314:C:N4	34:BA:1323:G:H1	2.19	0.41
34:BA:1311:G:H1'	34:BA:1327:C:H1'	2.02	0.41
34:BA:1474:G:C6	34:BA:1475:G:N7	2.88	0.41
34:BA:1475:G:H2'	34:BA:1476:G:H8	1.85	0.41
34:BA:1521:G:N3	34:BA:1522:U:C6	2.89	0.41
34:BA:221:C:C2	34:BA:222:U:C5	3.08	0.41
34:BA:299:G:C4	34:BA:300:A:N6	2.88	0.41
34:BA:305:G:O2'	34:BA:306:G:OP2	2.33	0.41
34:BA:310:G:C4	34:BA:311:C:C5	3.08	0.41
34:BA:375:U:C2'	34:BA:376:G:C5'	2.99	0.41
34:BA:453:A:OP2	34:BA:453:A:C8	2.71	0.41
34:BA:498:A:C8	34:BA:547:A:C6	3.08	0.41
34:BA:558:G:H5''	34:BA:559:A:C5'	2.51	0.41
34:BA:562:C:O2'	45:BP:15:ARG:CG	2.68	0.41
34:BA:62:U:H2'	34:BA:63:C:C6	2.55	0.41
34:BA:713:G:C2'	34:BA:714:G:C8	2.94	0.41
34:BA:744:C:H4'	34:BA:852:G:O2'	2.20	0.41
34:BA:952:U:C2'	34:BA:953:G:H5'	2.50	0.41
34:BA:994:A:H2	47:BR:4:LYS:HG2	1.85	0.41
55:BC:20:U:O4	55:BC:59:U:O4	2.38	0.41
56:BE:14:A:C3'	56:BE:15:G:H5'	2.50	0.41
56:BE:5:G:H5''	56:BE:6:G:N2	2.32	0.41
35:BF:69:LEU:CB	35:BF:159:PRO:HB2	2.48	0.41
35:BF:187:LEU:HB2	35:BF:201:ILE:HG22	2.02	0.41
35:BF:20:GLU:O	35:BF:40:HIS:HB2	2.20	0.41
35:BF:43:ASP:O	35:BF:44:LEU:O	2.38	0.41
35:BF:92:TYR:HD2	35:BF:92:TYR:N	2.18	0.41
36:BG:150:LYS:HD3	36:BG:150:LYS:C	2.40	0.41
37:BH:17:VAL:HG12	37:BH:17:VAL:O	2.20	0.41
37:BH:31:CYS:O	37:BH:33:MET:SD	2.78	0.41
37:BH:62:GLN:NE2	37:BH:62:GLN:HA	2.36	0.41
38:BI:103:GLY:C	38:BI:107:ARG:NH1	2.71	0.41
38:BI:109:ILE:CD1	38:BI:136:MET:SD	3.08	0.41
38:BI:9:LYS:HD3	38:BI:108:ALA:HB1	2.02	0.41
39:BJ:41:GLU:HB3	39:BJ:62:TRP:O	2.21	0.41
39:BJ:97:PHE:CD2	51:BV:31:LEU:HD22	2.54	0.41
40:BK:68:ASN:HB3	40:BK:135:VAL:HG11	2.02	0.41
40:BK:146:GLU:HG3	40:BK:149:ARG:CZ	2.50	0.41
41:BL:14:ARG:NE	41:BL:15:ASN:ND2	2.68	0.41
41:BL:23:SER:HA	41:BL:62:TYR:CD1	2.55	0.41
41:BL:33:GLU:CD	41:BL:59:LEU:HD21	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BM:121:ARG:O	42:BM:121:ARG:HG2	2.21	0.41
42:BM:45:ALA:O	42:BM:78:LYS:CG	2.66	0.41
42:BM:7:THR:CG2	42:BM:9:ARG:NH1	2.83	0.41
43:BN:34:VAL:CA	43:BN:74:ILE:HG12	2.40	0.41
44:BO:114:VAL:CG2	44:BO:115:PRO:CD	2.98	0.41
45:BP:86:ARG:NH2	45:BP:119:LYS:HD3	2.35	0.41
45:BP:83:VAL:C	45:BP:104:VAL:CG1	2.88	0.41
45:BP:9:GLN:O	45:BP:12:ARG:N	2.50	0.41
34:BA:1302:U:P	46:BQ:21:TYR:CE2	3.08	0.41
46:BQ:65:LYS:CG	46:BQ:69:GLU:CG	2.92	0.41
47:BR:40:CYS:C	47:BR:42:ILE:N	2.74	0.41
48:BS:36:ILE:HG22	48:BS:37:ASN:N	2.35	0.41
49:BT:53:VAL:CG2	49:BT:54:GLU:N	2.81	0.41
51:BV:26:LEU:HD22	51:BV:39:VAL:HG21	2.03	0.41
51:BV:53:ARG:O	51:BV:55:ARG:N	2.53	0.41
51:BV:53:ARG:CA	51:BV:63:GLN:HE21	2.26	0.41
52:BW:35:SER:O	52:BW:37:ARG:N	2.53	0.41
52:BW:51:VAL:CB	52:BW:75:ALA:CB	2.99	0.41
52:BW:51:VAL:HB	52:BW:75:ALA:HB2	2.01	0.41
34:BA:192:U:C4'	53:BX:103:GLY:N	2.83	0.41
57:BZ:266:ASP:CG	57:BZ:267:LEU:N	2.73	0.41
1:AA:2660:A:C5	57:BZ:457:THR:HA	2.55	0.41
57:BZ:64:ILE:HD11	57:BZ:188:GLN:N	2.36	0.41
56:BD:2:C:C5	56:BD:3:C:N4	2.89	0.41
57:BZ:41:ARG:CD	57:BZ:42:VAL:HG13	2.50	0.41
55:BC:69:G:H3'	55:BC:70:G:H5''	2.01	0.41
1:AA:2190:G:C6	1:AA:2191:G:N7	2.89	0.41
34:BA:1015:A:C5	34:BA:1016:A:C6	3.09	0.41
1:AA:1109:C:H2'	1:AA:1110:G:O4'	2.21	0.41
1:AA:1136:G:N2	1:AA:1137:G:C1'	2.84	0.41
1:AA:1024:G:C6	1:AA:1138:G:O6	2.73	0.41
1:AA:118:A:C8	1:AA:119:A:C8	3.09	0.41
1:AA:1234:U:C4	1:AA:1235:G:C2	3.08	0.41
1:AA:1300:U:O2	1:AA:1301:A:N6	2.54	0.41
1:AA:1305:C:O2'	1:AA:1306:C:C5'	2.68	0.41
1:AA:1342:A:O5'	1:AA:1342:A:H8	2.04	0.41
1:AA:1364:G:O5'	1:AA:1809:A:N1	2.53	0.41
1:AA:1498:C:H2'	1:AA:1498:C:O2	2.21	0.41
1:AA:1536:A:C5	1:AA:1537:C:C4	3.08	0.41
1:AA:1410:G:N2	1:AA:1593:G:C4	2.88	0.41
1:AA:1613:G:N7	1:AA:1617:C:C5	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1649:G:C6	1:AA:1650:G:N7	2.89	0.41
1:AA:1660:C:N3	1:AA:2001:A:C6	2.88	0.41
1:AA:1698:A:C2'	1:AA:1699:G:OP2	2.68	0.41
1:AA:1779:U:C3'	1:AA:1779:U:H6	2.30	0.41
1:AA:1829:A:H5'	1:AA:1830:C:OP2	2.20	0.41
1:AA:1932:A:N6	1:AA:1933:G:C6	2.88	0.41
1:AA:1972:A:C2	1:AA:1973:G:N7	2.89	0.41
1:AA:1977:A:O2'	1:AA:1978:A:O5'	2.39	0.41
1:AA:2000:G:N1	1:AA:2001:A:C5	2.88	0.41
1:AA:2007:C:O2'	1:AA:2008:C:H5'	2.21	0.41
1:AA:2011:U:C2'	1:AA:2012:G:O4'	2.65	0.41
1:AA:2090:G:C2	1:AA:2091:U:N3	2.89	0.41
1:AA:213:A:C2	1:AA:214:G:O4'	2.74	0.41
1:AA:213:A:N1	1:AA:214:G:N3	2.68	0.41
1:AA:2178:C:P	3:AC:211:SER:CB	3.09	0.41
1:AA:2287:A:N7	1:AA:2289:G:C4	2.88	0.41
1:AA:2304:G:H4'	7:AG:132:ASN:HD21	1.84	0.41
1:AA:2361:A:C4	1:AA:2362:G:C8	3.08	0.41
1:AA:2423:U:O2'	1:AA:2425:A:H5'	2.20	0.41
1:AA:2491:U:C5	1:AA:2492:U:O5'	2.73	0.41
1:AA:2572:A:C4'	1:AA:2573:C:OP1	2.69	0.41
1:AA:256:A:H2'	1:AA:257:A:C8	2.55	0.41
1:AA:2698:U:N3	1:AA:2699:C:N4	2.68	0.41
1:AA:1629:U:H1'	1:AA:2699:C:P	2.61	0.41
1:AA:2746:U:H2'	1:AA:2747:G:H8	1.86	0.41
1:AA:2776:A:C4	1:AA:2778:A:C8	3.08	0.41
1:AA:2801:A:OP1	1:AA:2802:G:P	2.79	0.41
1:AA:281:G:O2'	1:AA:282:A:C5'	2.68	0.41
1:AA:2851:A:H1'	13:AO:61:HIS:NE2	2.36	0.41
1:AA:2879:C:O2	1:AA:2879:C:C2'	2.68	0.41
1:AA:2881:C:C2	1:AA:2882:A:C8	3.09	0.41
1:AA:291:C:C4	1:AA:292:C:C5	3.08	0.41
1:AA:312:G:N3	1:AA:313:C:C5	2.89	0.41
1:AA:358:U:O2	1:AA:358:U:H2'	2.19	0.41
1:AA:364:C:O5'	1:AA:364:C:H6	2.03	0.41
1:AA:410:G:C5'	1:AA:411:G:OP2	2.69	0.41
1:AA:434:U:P	1:AA:434:U:H6	2.43	0.41
1:AA:452:G:N2	1:AA:458:G:H21	2.19	0.41
1:AA:471:A:C8	1:AA:472:A:N7	2.89	0.41
1:AA:503:A:O2'	1:AA:506:G:C8	2.71	0.41
1:AA:541:C:H5''	1:AA:542:C:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:C:C2	1:AA:543:C:C6	3.08	0.41
1:AA:563:G:C4	1:AA:2018:G:C2	3.08	0.41
1:AA:569:U:H2'	1:AA:983:A:N6	2.35	0.41
1:AA:601:C:H2'	1:AA:602:G:H5'	2.03	0.41
1:AA:607:U:N3	1:AA:608:A:N7	2.69	0.41
1:AA:666:G:O2'	1:AA:667:U:C5'	2.68	0.41
1:AA:696:G:H2'	1:AA:697:C:H6	1.86	0.41
1:AA:730:C:C2	1:AA:731:C:C5	3.08	0.41
1:AA:736:C:N4	1:AA:737:C:N4	2.68	0.41
1:AA:779:U:H3'	1:AA:780:G:H8	1.85	0.41
1:AA:834:C:C2	1:AA:835:A:C8	3.07	0.41
1:AA:84:A:O3'	1:AA:85:G:O4'	2.38	0.41
1:AA:867:C:OP1	1:AA:868:U:OP2	2.38	0.41
1:AA:907:U:H6	1:AA:907:U:H5''	1.86	0.41
1:AA:939:G:H2'	1:AA:940:G:O5'	2.21	0.41
1:AA:974:G:C4	1:AA:1186:G:C5	3.08	0.41
2:AB:40:U:H6	2:AB:40:U:O5'	2.04	0.41
2:AB:4:C:C5	2:AB:5:C:C5	3.09	0.41
2:AB:82:G:H2'	2:AB:83:G:OP2	2.20	0.41
2:AB:85:G:C2	2:AB:92:G:C2	3.08	0.41
3:AC:213:TYR:HB3	3:AC:222:VAL:O	2.20	0.41
3:AC:213:TYR:HA	3:AC:224:ILE:HG12	2.02	0.41
3:AC:34:THR:O	3:AC:34:THR:CG2	2.59	0.41
3:AC:46:LYS:HG3	3:AC:211:SER:N	2.35	0.41
3:AC:63:SER:H	3:AC:191:ALA:CB	2.28	0.41
4:AD:175:LEU:CD2	4:AD:176:ARG:O	2.69	0.41
4:AD:234:GLY:CA	4:AD:241:PRO:HG2	2.48	0.41
4:AD:181:GLU:OE1	4:AD:270:ILE:HG22	2.20	0.41
4:AD:28:GLU:OE1	4:AD:28:GLU:N	2.53	0.41
4:AD:5:LYS:O	4:AD:27:THR:HG23	2.19	0.41
4:AD:63:ARG:CA	4:AD:63:ARG:CZ	2.98	0.41
1:AA:2820:A:N6	5:AE:192:ASN:O	2.53	0.41
5:AE:13:ARG:NE	5:AE:21:VAL:CA	2.83	0.41
5:AE:4:ILE:C	5:AE:4:ILE:CD1	2.88	0.41
5:AE:59:VAL:HB	5:AE:62:PRO:CG	2.49	0.41
6:AF:136:THR:O	6:AF:139:PHE:N	2.53	0.41
6:AF:168:ARG:HD3	6:AF:169:ASN:N	2.34	0.41
6:AF:181:LEU:N	6:AF:181:LEU:CD1	2.76	0.41
6:AF:7:TYR:OH	6:AF:23:ASP:O	2.34	0.41
6:AF:30:PRO:HG2	6:AF:31:HIS:N	2.35	0.41
7:AG:138:GLN:C	7:AG:140:ILE:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:148:MET:CG	7:AG:151:ALA:H	2.34	0.41
8:AH:35:VAL:HB	8:AH:72:ILE:HG23	2.02	0.41
1:AA:1061:U:H2'	32:AJ:52:ILE:HG23	2.01	0.41
9:AK:7:LYS:CE	9:AK:8:GLN:H	2.27	0.41
10:AL:111:PHE:HD1	10:AL:115:VAL:HG23	1.86	0.41
11:AM:15:ARG:HA	11:AM:15:ARG:NE	2.35	0.41
11:AM:86:LYS:NZ	11:AM:99:LEU:CD1	2.83	0.41
1:AA:958:U:C6	12:AN:41:TRP:HH2	2.39	0.41
12:AN:45:GLN:N	12:AN:45:GLN:OE1	2.53	0.41
12:AN:79:LEU:O	12:AN:80:GLU:HG3	2.20	0.41
13:AO:73:VAL:CG2	13:AO:74:LYS:H	2.25	0.41
1:AA:2378:A:C4	14:AP:20:ARG:NH1	2.88	0.41
14:AP:17:ARG:HH11	14:AP:25:ARG:HD2	1.82	0.41
14:AP:94:TYR:C	14:AP:99:LYS:CB	2.88	0.41
15:AQ:17:THR:HG21	15:AQ:20:PRO:CG	2.50	0.41
15:AQ:61:PHE:O	15:AQ:62:THR:CG2	2.67	0.41
16:AR:46:ALA:N	16:AR:49:HIS:ND1	2.69	0.41
16:AR:49:HIS:CA	16:AR:52:ARG:CZ	2.84	0.41
16:AR:86:ALA:O	16:AR:90:VAL:HG21	2.21	0.41
17:AS:72:VAL:CG1	17:AS:73:SER:H	2.24	0.41
18:AT:66:GLU:CA	18:AT:69:LEU:HD13	2.48	0.41
20:AV:23:ARG:CG	20:AV:39:VAL:HG22	2.49	0.41
21:AW:11:GLU:N	21:AW:36:LYS:HZ2	2.19	0.41
2:AB:102:G:C2'	21:AW:73:GLN:NE2	2.63	0.41
22:AX:21:LEU:HD11	22:AX:40:GLN:N	2.36	0.41
24:AZ:26:LEU:CG	24:AZ:47:VAL:HG22	2.37	0.41
34:BA:1053:G:O3'	34:BA:1054:C:H4'	2.19	0.41
34:BA:1055:A:N6	34:BA:1206:G:C8	2.88	0.41
34:BA:1066:C:H5''	34:BA:1067:A:P	2.60	0.41
34:BA:1080:A:C8	34:BA:1080:A:O5'	2.74	0.41
34:BA:1081:G:OP1	38:BI:18:ARG:CA	2.69	0.41
34:BA:1130:A:C2	34:BA:1146:A:C2	3.07	0.41
34:BA:1181:G:C8	34:BA:1182:G:N3	2.88	0.41
34:BA:1240:U:HO2'	34:BA:1241:G:P	2.42	0.41
34:BA:1251:A:C2	34:BA:1252:A:N1	2.88	0.41
34:BA:1253:G:H22	34:BA:1285:A:N6	2.19	0.41
34:BA:1302:U:O2'	34:BA:1303:C:H5'	2.19	0.41
34:BA:1315:U:H3	34:BA:1319:A:N6	2.18	0.41
34:BA:1350:A:H2'	34:BA:1351:U:H6	1.86	0.41
34:BA:1386:G:H2'	34:BA:1387:G:H8	1.86	0.41
34:BA:1386:G:O2'	34:BA:1387:G:C5'	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1405:G:C6	34:BA:1497:G:N1	2.88	0.41
34:BA:1487:G:C2	34:BA:1488:G:C8	3.08	0.41
34:BA:1488:G:N2	34:BA:1489:G:C5	2.88	0.41
34:BA:149:A:C2	34:BA:150:C:C4	3.08	0.41
34:BA:172:A:N7	34:BA:174:C:C4	2.89	0.41
34:BA:22:G:N3	34:BA:23:C:C6	2.89	0.41
34:BA:248:C:O4'	34:BA:282:A:H2	2.03	0.41
34:BA:293:G:C6	34:BA:305:G:C2	3.08	0.41
34:BA:439:A:C4	34:BA:496:A:C5	3.09	0.41
34:BA:668:G:H2'	34:BA:669:U:H6	1.86	0.41
34:BA:681:C:O2'	34:BA:682:G:H5'	2.20	0.41
34:BA:698:G:C6	34:BA:699:C:N4	2.89	0.41
34:BA:741:G:H2'	34:BA:742:G:H8	1.86	0.41
34:BA:867:G:N3	34:BA:868:C:C6	2.89	0.41
34:BA:869:G:H5''	34:BA:870:U:OP1	2.21	0.41
34:BA:880:C:H2'	34:BA:881:G:O5'	2.19	0.41
34:BA:89:U:O2'	34:BA:90:C:H5'	2.21	0.41
34:BA:975:A:H4'	34:BA:976:G:C5'	2.49	0.41
35:BF:42:ILE:HD12	35:BF:203:GLY:N	2.36	0.41
35:BF:213:LEU:HD21	35:BF:217:ARG:HE	1.85	0.41
35:BF:50:GLU:O	35:BF:53:ARG:HB3	2.21	0.41
35:BF:71:VAL:O	35:BF:164:VAL:CG2	2.63	0.41
36:BG:183:ASP:OD2	36:BG:184:TYR:N	2.54	0.41
36:BG:84:ILE:HA	36:BG:101:LEU:CD1	2.50	0.41
34:BA:543:C:OP2	37:BH:10:ARG:NH2	2.53	0.41
37:BH:105:VAL:HB	37:BH:117:ALA:HB1	2.01	0.41
37:BH:112:VAL:HG22	37:BH:161:ASN:HD21	1.81	0.41
37:BH:177:ASP:C	37:BH:179:GLU:N	2.74	0.41
37:BH:61:LYS:CG	37:BH:207:TYR:CE1	2.92	0.41
37:BH:4:TYR:CD2	37:BH:5:ILE:N	2.89	0.41
38:BI:57:LYS:NZ	38:BI:61:TYR:OH	2.45	0.41
38:BI:71:LEU:HG	38:BI:72:GLN:N	2.35	0.41
38:BI:72:GLN:CG	38:BI:77:PRO:HD3	2.49	0.41
40:BK:41:ARG:CG	40:BK:41:ARG:NH1	2.84	0.41
40:BK:64:GLN:HB3	40:BK:128:ALA:CB	2.45	0.41
41:BL:114:THR:C	41:BL:116:LYS:N	2.72	0.41
41:BL:9:MET:CG	41:BL:26:VAL:HG11	2.41	0.41
41:BL:37:ARG:O	41:BL:38:ILE:C	2.57	0.41
41:BL:20:TYR:HD1	41:BL:65:TYR:CZ	2.38	0.41
42:BM:113:LYS:C	42:BM:115:GLY:H	2.21	0.41
43:BN:26:ALA:O	43:BN:84:GLN:CD	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:44:SER:HB2	44:BO:47:VAL:HG23	2.02	0.41
45:BP:62:SER:O	45:BP:64:TYR:N	2.53	0.41
45:BP:6:THR:CB	45:BP:9:GLN:OE1	2.69	0.41
47:BR:47:LEU:HA	47:BR:47:LEU:HD23	1.67	0.41
49:BT:34:GLU:OE1	49:BT:36:ILE:HG23	2.20	0.41
50:BU:13:ASP:HB3	50:BU:52:LYS:HG2	2.03	0.41
50:BU:10:VAL:HG11	50:BU:53:LEU:N	2.36	0.41
50:BU:5:VAL:O	50:BU:6:LEU:CB	2.68	0.41
34:BA:255:G:P	50:BU:69:LYS:NZ	2.94	0.41
34:BA:1320:C:H1'	52:BW:71:LEU:O	2.20	0.41
57:BZ:153:ALA:HB3	57:BZ:156:GLU:H	1.86	0.41
57:BZ:160:PHE:CA	57:BZ:161:ALA:C	2.86	0.41
57:BZ:18:LYS:N	60:BZ:701:GCP:O1A	2.53	0.41
57:BZ:403:VAL:O	57:BZ:465:LEU:CG	2.68	0.41
57:BZ:427:LYS:HD3	57:BZ:427:LYS:HA	1.59	0.41
57:BZ:527:HIS:CE1	57:BZ:531:ASN:HD21	2.38	0.41
45:BP:80:HIS:HD2	57:BZ:326:VAL:N	2.17	0.41
57:BZ:539:THR:C	57:BZ:541:LYS:H	2.24	0.41
57:BZ:33:ASP:HA	57:BZ:34:SER:HA	1.85	0.41
34:BA:131:C:H2'	34:BA:131:C:O2	2.19	0.41
34:BA:131:C:C5	34:BA:232:G:N2	2.88	0.41
1:AA:1482:U:H1'	1:AA:1512:G:H22	1.84	0.41
34:BA:1009:G:N3	34:BA:1010:G:C8	2.89	0.41
1:AA:1582:C:O5'	1:AA:1583:A:H5''	2.20	0.41
1:AA:1588:C:O2'	1:AA:1589:C:H5'	2.21	0.41
34:BA:1537:U:N3	34:BA:1538:C:C5	2.89	0.41
31:AI:129:PRO:C	31:AI:131:MET:N	2.73	0.41
1:AA:1008:C:OP1	1:AA:1008:C:C6	2.72	0.41
1:AA:1076:C:C6	1:AA:1076:C:C3'	3.03	0.41
1:AA:1106:G:C5	1:AA:1107:G:C5	3.03	0.41
1:AA:1151:G:H2'	1:AA:1152:C:H6	1.76	0.41
1:AA:1166:C:C2'	1:AA:1167:U:O5'	2.69	0.41
1:AA:1177:A:C6	1:AA:1178:C:N4	2.88	0.41
1:AA:1284:A:C6	1:AA:1285:G:C2	3.08	0.41
1:AA:1343:G:C2	1:AA:1405:U:C6	3.08	0.41
1:AA:1358:G:C8	1:AA:1371:G:C6	3.09	0.41
1:AA:1455:G:H2'	1:AA:1456:G:O4'	2.21	0.41
1:AA:1429:G:H1'	1:AA:1568:G:N3	2.36	0.41
1:AA:1635:G:O2'	1:AA:1636:C:H5'	2.20	0.41
1:AA:1702:G:C5	1:AA:1703:G:C8	3.08	0.41
1:AA:1789:A:H5'	1:AA:1790:C:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:179:G:H3'	1:AA:180:G:C8	2.54	0.41
1:AA:1952:A:H2'	1:AA:1953:A:O4'	2.20	0.41
1:AA:1970:A:C6	1:AA:1972:A:N7	2.89	0.41
1:AA:2025:C:C3'	1:AA:2026:C:H6	2.34	0.41
1:AA:2117:A:O3'	1:AA:2147:G:N2	2.54	0.41
1:AA:2218:G:C6	1:AA:2219:G:C5	3.09	0.41
1:AA:2230:G:N1	1:AA:2231:C:C4	2.89	0.41
1:AA:2244:U:O2	1:AA:2244:U:C2'	2.65	0.41
1:AA:2295:C:OP1	14:AP:9:ARG:NE	2.54	0.41
1:AA:2320:A:H5'	1:AA:2321:G:C6	2.55	0.41
1:AA:2297:C:O2'	1:AA:2322:A:N3	2.53	0.41
1:AA:2345:G:H21	1:AA:2381:C:H2'	1.84	0.41
1:AA:2356:C:H5''	1:AA:2356:C:C6	2.55	0.41
1:AA:234:C:O2'	1:AA:235:U:H5'	2.20	0.41
1:AA:2370:G:C4	1:AA:2371:G:C8	3.08	0.41
1:AA:2371:G:H2'	1:AA:2372:G:C1'	2.51	0.41
1:AA:2383:G:N2	1:AA:2384:G:C2	2.89	0.41
1:AA:2392:A:N1	1:AA:2424:C:O2	2.53	0.41
1:AA:2469:A:OP2	1:AA:2476:A:C2	2.74	0.41
1:AA:2511:U:O4	1:AA:2512:C:N4	2.54	0.41
1:AA:2548:G:C2'	1:AA:2549:G:O5'	2.69	0.41
1:AA:2570:G:N2	1:AA:2571:C:C1'	2.83	0.41
1:AA:1672:C:O2	1:AA:2582:G:H1'	2.20	0.41
1:AA:14:A:C2	1:AA:2625:G:O2'	2.73	0.41
1:AA:2631:G:C5	1:AA:2632:A:C8	3.08	0.41
1:AA:2640:G:O3'	9:AK:75:TYR:CE1	2.74	0.41
1:AA:2652:C:O2'	1:AA:2653:U:P	2.79	0.41
1:AA:2673:G:C2'	1:AA:2674:G:H5'	2.48	0.41
1:AA:2691:C:N3	1:AA:2719:G:C2	2.88	0.41
1:AA:2705:A:N7	1:AA:2706:G:N7	2.68	0.41
1:AA:270(T):G:N1	1:AA:270(U):C:C4	2.88	0.41
1:AA:2794:C:H42	1:AA:2799:A:H1'	1.85	0.41
1:AA:2817:G:C6	1:AA:2818:G:C5	3.08	0.41
1:AA:2842:G:C2	1:AA:2843:G:H1'	2.55	0.41
1:AA:28:A:H2'	1:AA:29:U:C5'	2.45	0.41
1:AA:365:C:C4	1:AA:366:C:N4	2.88	0.41
1:AA:416:C:C5	1:AA:417:C:C5	3.09	0.41
1:AA:459:U:O2'	1:AA:460:A:H5'	2.20	0.41
1:AA:447:A:C4	1:AA:473:G:C8	3.08	0.41
1:AA:507:A:C4'	1:AA:509:C:C6	3.03	0.41
1:AA:481:G:O2'	1:AA:507:A:N6	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:508:G:O2'	1:AA:509:C:C5'	2.61	0.41
1:AA:528:A:C8	1:AA:528:A:H3'	2.55	0.41
1:AA:545:G:N3	1:AA:545:G:H2'	2.36	0.41
1:AA:5:A:N1	1:AA:2899:G:C8	2.89	0.41
1:AA:682:G:C4	1:AA:683:C:C5	3.08	0.41
1:AA:693:C:H4'	1:AA:1354:A:H1'	2.03	0.41
1:AA:735:A:C8	1:AA:735:A:C3'	3.04	0.41
1:AA:743:G:C6	1:AA:744:G:C6	3.09	0.41
1:AA:684:G:C2	1:AA:775:G:C5	3.09	0.41
1:AA:793:A:O4'	1:AA:793:A:OP2	2.39	0.41
1:AA:800:A:C8	1:AA:802:A:H5'	2.55	0.41
1:AA:813:U:OP2	11:AM:26:GLY:CA	2.57	0.41
1:AA:844:C:OP2	1:AA:845:G:C5	2.74	0.41
1:AA:849:A:C6	1:AA:931:G:N1	2.86	0.41
1:AA:850:C:C2	1:AA:851:U:C6	3.09	0.41
1:AA:955:C:O3'	12:AN:87:LYS:NZ	2.51	0.41
1:AA:960:A:O5'	1:AA:960:A:H8	2.04	0.41
1:AA:967:C:O2'	1:AA:968:G:H5'	2.20	0.41
1:AA:987:G:C5	1:AA:988:A:C8	3.08	0.41
3:AC:175:VAL:HG11	3:AC:189:ILE:CA	2.12	0.41
3:AC:47:LEU:HA	3:AC:208:PHE:O	2.21	0.41
1:AA:2124:G:O3'	3:AC:42:GLU:OE2	2.37	0.41
3:AC:75:LEU:HD22	3:AC:110:PHE:CE2	2.54	0.41
4:AD:117:VAL:HG13	4:AD:129:ASN:N	2.35	0.41
4:AD:159:ALA:O	4:AD:196:VAL:CG1	2.63	0.41
4:AD:244:ARG:HA	4:AD:252:TRP:HE1	1.83	0.41
1:AA:2227:A:C4'	4:AD:262:ARG:CG	2.99	0.41
5:AE:102:VAL:CG2	5:AE:104:VAL:HG23	2.50	0.41
5:AE:14:ILE:O	5:AE:14:ILE:CD1	2.69	0.41
5:AE:44:TYR:CD2	5:AE:44:TYR:C	2.94	0.41
5:AE:4:ILE:HD11	5:AE:76:ARG:NH1	2.33	0.41
6:AF:124:LEU:HG	6:AF:197:ASP:HB2	2.02	0.41
6:AF:201:VAL:CB	6:AF:205:ARG:HH21	2.32	0.41
7:AG:119:GLY:CA	7:AG:180:PHE:CG	3.04	0.41
7:AG:71:THR:O	7:AG:71:THR:CG2	2.58	0.41
1:AA:2748:A:O2'	8:AH:63:SER:O	2.29	0.41
9:AK:18:ALA:N	9:AK:21:LYS:HD2	2.35	0.41
9:AK:36:GLY:HA2	9:AK:47:ALA:C	2.41	0.41
9:AK:37:LYS:HZ3	9:AK:37:LYS:HG2	1.78	0.41
10:AL:53:LYS:HG3	10:AL:55:GLY:H	1.84	0.41
1:AA:2484:G:C1'	12:AN:124:LYS:NZ	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:37:LEU:HD12	12:AN:129:THR:C	2.41	0.41
12:AN:59:ARG:NH1	21:AW:177:PRO:HB2	2.36	0.41
13:AO:52:ILE:CG2	13:AO:53:HIS:N	2.83	0.41
13:AO:96:ARG:CD	13:AO:98:LEU:HD11	2.51	0.41
14:AP:17:ARG:NH1	14:AP:89:ARG:HB2	2.25	0.41
15:AQ:58:ASN:N	15:AQ:61:PHE:HD2	2.15	0.41
15:AQ:64:ARG:C	15:AQ:65:LYS:O	2.56	0.41
15:AQ:50:ILE:HG22	15:AQ:67:SER:C	2.41	0.41
15:AQ:71:GLY:N	15:AQ:74:ARG:HH11	2.15	0.41
15:AQ:6:LEU:CD2	15:AQ:7:ILE:N	2.82	0.41
16:AR:97:ASP:O	16:AR:101:ARG:NE	2.53	0.41
16:AR:28:ARG:CB	16:AR:38:THR:HG21	2.37	0.41
16:AR:65:ILE:C	16:AR:67:ALA:N	2.71	0.41
16:AR:80:ILE:C	16:AR:82:GLY:N	2.72	0.41
21:AW:116:VAL:HG23	21:AW:144:LEU:O	2.20	0.41
21:AW:118:GLN:CD	21:AW:118:GLN:C	2.79	0.41
21:AW:49:ARG:C	21:AW:51:ALA:H	2.21	0.41
24:AZ:17:LYS:CA	24:AZ:20:LYS:HZ3	2.32	0.41
34:BA:1032(B):G:C2	34:BA:1033:G:C4	3.08	0.41
34:BA:1092:A:N1	34:BA:1110:A:H4'	2.36	0.41
34:BA:1109:C:C2	34:BA:1110:A:C8	3.08	0.41
34:BA:1175:G:N1	34:BA:1176:A:C6	2.88	0.41
34:BA:1268:A:O2'	34:BA:1269:A:O5'	2.38	0.41
34:BA:134:A:C5	34:BA:325:A:C2	3.09	0.41
34:BA:1415:G:H2'	34:BA:1416:G:C5'	2.50	0.41
15:AQ:115:ARG:CD	34:BA:1463:C:OP1	2.67	0.41
34:BA:1507:A:N6	34:BA:1530:G:C5	2.88	0.41
34:BA:186(B):C:C4'	53:BX:89:ARG:NH2	2.83	0.41
34:BA:173:U:C5'	34:BA:197:A:C2'	2.99	0.41
34:BA:451:A:HO2'	34:BA:452:A:C1'	2.34	0.41
34:BA:518:C:O2	34:BA:529:G:O6	2.38	0.41
34:BA:498:A:N6	34:BA:547:A:O5'	2.45	0.41
34:BA:579:G:O4'	34:BA:728:A:H1'	2.20	0.41
34:BA:723:U:O2	34:BA:723:U:C2'	2.68	0.41
34:BA:570:G:OP2	34:BA:820:U:O2'	2.39	0.41
34:BA:834:C:O2'	34:BA:835:U:C4'	2.69	0.41
34:BA:866:C:H5''	34:BA:867:G:C8	2.56	0.41
34:BA:879:C:N3	34:BA:880:C:C5	2.88	0.41
34:BA:880:C:C2'	34:BA:881:G:O5'	2.68	0.41
34:BA:97:U:O5'	34:BA:97:U:H6	2.04	0.41
35:BF:20:GLU:O	35:BF:39:ILE:CG1	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:80:ILE:CG2	35:BF:212:GLN:HE21	2.34	0.41
35:BF:59:GLU:HA	35:BF:221:LEU:HD11	2.01	0.41
35:BF:59:GLU:N	35:BF:221:LEU:HD11	2.36	0.41
35:BF:85:ALA:HB3	35:BF:92:TYR:CD1	2.56	0.41
36:BG:15:THR:HG21	36:BG:181:ASN:H	1.85	0.41
36:BG:22:TRP:CH2	36:BG:33:LEU:N	2.86	0.41
36:BG:82:GLU:O	36:BG:85:ARG:CB	2.65	0.41
38:BI:71:LEU:HD11	38:BI:74:GLY:CA	2.37	0.41
39:BJ:82:ARG:O	39:BJ:83:ASP:C	2.59	0.41
39:BJ:86:ARG:HA	39:BJ:86:ARG:HD3	1.75	0.41
40:BK:118:VAL:HG12	40:BK:122:HIS:NE2	2.36	0.41
40:BK:45:ASP:HA	40:BK:48:LYS:HZ1	1.82	0.41
40:BK:49:ILE:N	40:BK:49:ILE:HD12	2.34	0.41
41:BL:86:ILE:CB	41:BL:133:LEU:HB2	2.50	0.41
42:BM:17:VAL:HG11	42:BM:81:ILE:CG1	2.50	0.41
42:BM:26:VAL:CG1	42:BM:63:ILE:HD13	2.51	0.41
40:BK:16:LEU:O	42:BM:41:VAL:CG1	2.69	0.41
34:BA:1124:G:OP1	43:BN:36:GLY:HA3	2.20	0.41
44:BO:120:ARG:HE	44:BO:126:ARG:NH2	2.19	0.41
44:BO:54:ARG:O	44:BO:57:THR:N	2.54	0.41
44:BO:90:GLY:O	44:BO:91:ARG:C	2.58	0.41
34:BA:551:U:C5'	45:BP:119:LYS:HZ3	2.28	0.41
45:BP:32:PHE:HB3	45:BP:86:ARG:HA	2.02	0.41
45:BP:37:CYS:SG	45:BP:78:GLN:O	2.78	0.41
34:BA:520:A:OP1	45:BP:52:LEU:CD2	2.68	0.41
45:BP:61:THR:O	45:BP:62:SER:CB	2.68	0.41
45:BP:69:TYR:O	45:BP:100:ILE:HD11	2.21	0.41
34:BA:1226:C:N3	46:BQ:104:ARG:CG	2.71	0.41
46:BQ:104:ARG:HG2	46:BQ:105:THR:HG23	2.03	0.41
43:BN:46:ARG:CZ	47:BR:61:TRP:CE3	3.03	0.41
48:BS:34:LEU:HD11	48:BS:35:ARG:HG3	2.02	0.41
49:BT:9:PHE:HD2	49:BT:9:PHE:N	2.19	0.41
50:BU:78:GLU:HG3	50:BU:79:SER:N	2.34	0.41
50:BU:87:LYS:C	50:BU:91:ARG:HE	2.24	0.41
52:BW:18:LYS:CE	52:BW:22:LEU:HB2	2.51	0.41
52:BW:7:LYS:C	52:BW:7:LYS:NZ	2.73	0.41
53:BX:53:LEU:HB2	53:BX:100:ILE:HD11	2.02	0.41
57:BZ:236:GLN:NE2	57:BZ:245:LYS:N	2.49	0.41
57:BZ:374:ARG:C	57:BZ:376:GLU:N	2.74	0.41
57:BZ:50:LYS:HD3	57:BZ:50:LYS:O	2.19	0.41
57:BZ:583:THR:O	57:BZ:584:SER:OG	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:539:THR:CA	57:BZ:541:LYS:N	2.73	0.41
1:AA:1489:U:H4'	1:AA:1490:A:OP2	2.20	0.41
55:BC:39:U:O2	55:BC:39:U:H3'	2.20	0.41
32:AJ:94:GLU:O	32:AJ:95:LYS:HB2	2.19	0.41
56:BD:43:C:O2'	56:BD:44:G:H5'	2.21	0.41
1:AA:1019:U:OP1	1:AA:1120:G:N2	2.42	0.41
1:AA:1183:G:O4'	1:AA:1183:G:N3	2.53	0.41
1:AA:1213:A:C8	1:AA:1237:A:C2	3.09	0.41
1:AA:1221:C:C2'	1:AA:1221:C:O2	2.68	0.41
1:AA:1255:U:OP1	1:AA:1256:G:H4'	2.20	0.41
1:AA:1260:G:C2	1:AA:1261:C:C6	3.09	0.41
1:AA:1333:C:N3	1:AA:1334:G:N7	2.69	0.41
1:AA:1342:A:N7	1:AA:1601:G:O6	2.53	0.41
1:AA:1352:U:C2'	1:AA:1352:U:O2	2.62	0.41
1:AA:1353:A:C6	1:AA:1378:A:C5	3.09	0.41
1:AA:1410:G:C6	1:AA:1411:C:C4	3.08	0.41
1:AA:1476:C:C2'	1:AA:1476:C:O2	2.69	0.41
1:AA:1500:G:C4	1:AA:1501:C:C5	3.08	0.41
1:AA:150:C:O2'	1:AA:151:C:C5'	2.67	0.41
1:AA:1520:U:O5'	1:AA:1520:U:C6	2.74	0.41
1:AA:1553:A:H2'	1:AA:1555:G:N7	2.36	0.41
1:AA:1558:A:H4'	1:AA:1559:G:N7	2.35	0.41
1:AA:1565:C:H6	1:AA:1565:C:H5''	1.86	0.41
1:AA:1571:A:O4'	1:AA:1571:A:OP2	2.38	0.41
1:AA:1675:C:O2	1:AA:1676:A:C8	2.73	0.41
1:AA:1696:G:H2'	1:AA:1697:G:C1'	2.51	0.41
1:AA:1742:C:O4'	1:AA:1742:C:P	2.79	0.41
1:AA:1807:G:H21	1:AA:1809:A:H4'	1.85	0.41
1:AA:1858:G:HO2'	1:AA:1859:A:C5'	2.34	0.41
1:AA:1935:G:C2'	1:AA:1936:A:OP2	2.68	0.41
1:AA:1951:U:C2	1:AA:1953:A:C5'	3.03	0.41
1:AA:1951:U:C2'	1:AA:1953:A:O5'	2.66	0.41
1:AA:1964:G:C6	1:AA:1967:C:N4	2.78	0.41
1:AA:2161:C:N3	1:AA:2162:G:N7	2.68	0.41
1:AA:2264:C:C2	1:AA:2277:G:N2	2.89	0.41
1:AA:2482:G:H2'	1:AA:2483:C:C5'	2.48	0.41
1:AA:2491:U:C5	1:AA:2492:U:C5'	3.00	0.41
1:AA:2648:C:C3'	1:AA:2649:U:C6	3.01	0.41
1:AA:2665:A:C2	1:AA:2666:C:N3	2.89	0.41
1:AA:2694:G:N2	1:AA:2716:U:C2	2.89	0.41
1:AA:270(D):C:O3'	1:AA:270(E):G:O4'	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2766:G:N3	1:AA:2767:C:C5	2.89	0.41
1:AA:2822:G:OP2	1:AA:2822:G:C8	2.73	0.41
1:AA:2823:A:C5'	1:AA:2824:C:OP2	2.69	0.41
1:AA:2848:G:O2'	1:AA:2849:U:P	2.78	0.41
1:AA:2856:C:O5'	1:AA:2856:C:H6	2.03	0.41
1:AA:28:A:C3'	1:AA:29:U:H5'	2.50	0.41
1:AA:29:U:C2'	1:AA:30:G:C8	2.95	0.41
1:AA:326:G:C4	1:AA:327:G:N7	2.89	0.41
1:AA:408:G:C2	1:AA:409:C:C6	3.09	0.41
1:AA:521:G:C2	1:AA:522:G:C8	3.09	0.41
1:AA:522:G:C5	1:AA:523:C:C5	3.08	0.41
1:AA:573:G:O3'	1:AA:576:U:O4	2.39	0.41
1:AA:596:G:H2'	1:AA:597:U:O4'	2.20	0.41
1:AA:622:G:C6	1:AA:623:G:N2	2.89	0.41
1:AA:64:A:H2'	1:AA:65:C:O4'	2.21	0.41
1:AA:822:U:O2	1:AA:823:G:C8	2.72	0.41
1:AA:856:C:H1'	22:AX:69:PHE:CD1	2.56	0.41
1:AA:893:C:HO2'	1:AA:894:C:H5'	1.81	0.41
1:AA:985:C:H6	1:AA:985:C:O5'	2.04	0.41
1:AA:991:C:O4'	1:AA:1185:C:H2'	2.20	0.41
1:AA:997:G:H5''	16:AR:92:ARG:CD	2.44	0.41
2:AB:82:G:O2'	2:AB:83:G:P	2.79	0.41
3:AC:137:LEU:HD23	3:AC:138:PRO:N	2.35	0.41
3:AC:36:LYS:HA	3:AC:36:LYS:HD2	1.85	0.41
3:AC:64:LEU:HA	3:AC:188:ASN:HA	1.41	0.41
4:AD:46:GLN:HE22	4:AD:51:VAL:CG2	2.34	0.41
4:AD:47:GLY:O	4:AD:49:ILE:CD1	2.66	0.41
4:AD:5:LYS:HB2	4:AD:82:ILE:CG1	2.50	0.41
5:AE:113:PHE:HA	5:AE:158:GLY:CA	2.51	0.41
5:AE:5:LEU:O	5:AE:195:LEU:HD22	2.21	0.41
5:AE:8:LYS:CE	5:AE:8:LYS:C	2.88	0.41
6:AF:11:VAL:CB	6:AF:17:ARG:HH12	2.33	0.41
7:AG:119:GLY:CA	7:AG:180:PHE:CD2	3.03	0.41
7:AG:63:ILE:HG23	7:AG:64:THR:N	2.36	0.41
8:AH:104:GLU:C	8:AH:105:LEU:CG	2.89	0.41
8:AH:24:VAL:HG13	8:AH:37:VAL:HG12	2.03	0.41
8:AH:25:LYS:HD3	8:AH:27:LYS:HZ2	1.81	0.41
8:AH:85:LYS:NZ	8:AH:85:LYS:CB	2.82	0.41
9:AK:53:VAL:CG1	9:AK:123:TYR:HE2	2.33	0.41
9:AK:63:THR:O	9:AK:65:LYS:CD	2.68	0.41
9:AK:74:ARG:O	9:AK:76:SER:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AL:22:ILE:CG1	10:AL:40:VAL:HG13	2.50	0.41
10:AL:97:ARG:NH1	10:AL:98:VAL:O	2.42	0.41
11:AM:111:ARG:CD	11:AM:129:ALA:HB2	2.50	0.41
11:AM:32:THR:OG1	11:AM:33:ARG:N	2.53	0.41
11:AM:79:ARG:HE	11:AM:83:VAL:HG12	1.86	0.41
12:AN:119:ARG:HB3	12:AN:119:ARG:HE	1.25	0.41
12:AN:42:ILE:HD13	12:AN:43:THR:CA	2.49	0.41
12:AN:83:MET:HE1	12:AN:83:MET:O	2.21	0.41
1:AA:1275:A:H1'	13:AO:12:ARG:HH21	1.85	0.41
15:AQ:43:GLN:H	15:AQ:43:GLN:CD	2.05	0.41
16:AR:57:PHE:CD2	16:AR:60:LEU:CD1	2.99	0.41
17:AS:1:MET:HB3	17:AS:15:GLU:CG	2.50	0.41
18:AT:28:SER:C	18:AT:31:GLU:OE1	2.59	0.41
18:AT:75:TYR:O	18:AT:104:THR:C	2.58	0.41
21:AW:155:LEU:O	21:AW:156:LYS:CB	2.68	0.41
21:AW:150:LEU:O	21:AW:171:ILE:CG2	2.68	0.41
22:AX:33:ALA:CA	22:AX:61:ALA:O	2.60	0.41
22:AX:63:VAL:HG22	22:AX:81:VAL:HB	2.03	0.41
23:AY:20:VAL:HB	23:AY:55:LEU:HB3	2.01	0.41
23:AY:57:THR:O	23:AY:60:ASN:HB3	2.21	0.41
34:BA:1026:G:O6	34:BA:1036:G:N2	2.53	0.41
34:BA:1128:C:H4'	34:BA:1148:U:H5	1.85	0.41
34:BA:1139:G:C6	34:BA:1143:G:O6	2.74	0.41
34:BA:1245:A:C6	34:BA:1293:G:N1	2.89	0.41
34:BA:1250:A:N7	34:BA:1251:A:C5	2.88	0.41
34:BA:1301:U:C5	34:BA:1303:C:C5	3.09	0.41
34:BA:1302:U:H4'	34:BA:1303:C:OP1	2.20	0.41
34:BA:1306:A:H3'	34:BA:1307:U:C5	2.55	0.41
34:BA:130:A:O2'	34:BA:190:G:N2	2.53	0.41
34:BA:1346:A:C8	34:BA:1348:U:C4	3.09	0.41
34:BA:1360:A:C2	34:BA:1361:G:C4	3.09	0.41
34:BA:1433:A:C2'	34:BA:1434:A:H5'	2.50	0.41
34:BA:335:C:H4'	34:BA:1434:A:H4'	2.02	0.41
34:BA:1468:A:C2'	34:BA:1469:G:H5'	2.51	0.41
34:BA:815:A:N6	34:BA:1529:G:C4	2.89	0.41
34:BA:68:G:C4'	34:BA:171:A:C1'	2.98	0.41
34:BA:188:U:H2'	34:BA:189:U:O5'	2.20	0.41
34:BA:20:U:O2'	34:BA:21:G:C5'	2.65	0.41
34:BA:258:G:C6	34:BA:259:G:C5	3.08	0.41
34:BA:261:U:C3'	34:BA:263:A:OP2	2.69	0.41
34:BA:292:G:C8	34:BA:293:G:H1'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:319:G:C2'	34:BA:320:C:C5'	2.98	0.41
34:BA:426:G:C2	34:BA:427:U:C2	3.09	0.41
34:BA:448:A:C5	34:BA:487:A:C2	3.08	0.41
34:BA:485:G:O2'	34:BA:486:U:C6	2.70	0.41
34:BA:518:C:O2'	45:BP:50:SER:CB	2.66	0.41
34:BA:535:A:C4'	34:BA:536:C:OP2	2.63	0.41
34:BA:577:G:HO2'	34:BA:578:C:P	2.42	0.41
34:BA:619:U:O2	34:BA:619:U:H2'	2.20	0.41
34:BA:643:C:O2'	41:BL:132:GLU:CD	2.58	0.41
34:BA:690:G:C2	34:BA:691:G:O4'	2.74	0.41
34:BA:957:U:O2	34:BA:960:U:C6	2.73	0.41
34:BA:978:A:C2	34:BA:1319:A:N3	2.89	0.41
34:BA:988:G:C6	34:BA:989:C:C4	3.09	0.41
35:BF:9:GLU:CG	35:BF:10:LEU:N	2.83	0.41
35:BF:118:LEU:O	35:BF:121:LEU:N	2.53	0.41
35:BF:136:VAL:C	35:BF:139:LYS:HG2	2.40	0.41
35:BF:91:PRO:CB	35:BF:152:PHE:CD1	2.95	0.41
35:BF:173:ALA:C	35:BF:176:GLU:HB2	2.41	0.41
35:BF:39:ILE:HG23	35:BF:41:ILE:CD1	2.40	0.41
35:BF:33:TYR:HB3	35:BF:42:ILE:O	2.20	0.41
35:BF:43:ASP:OD2	35:BF:45:GLN:HB2	2.21	0.41
36:BG:164:ARG:CG	36:BG:165:THR:H	2.34	0.41
36:BG:52:LEU:O	36:BG:115:LEU:HD21	2.21	0.41
36:BG:65:ALA:O	36:BG:66:VAL:CB	2.69	0.41
37:BH:179:GLU:C	37:BH:181:MET:H	2.21	0.41
37:BH:3:ARG:HH11	37:BH:3:ARG:HG3	1.85	0.41
37:BH:77:ASN:O	37:BH:78:LEU:C	2.57	0.41
39:BJ:11:ASN:HB3	39:BJ:84:ASN:HB3	2.03	0.41
40:BK:108:ALA:O	40:BK:119:ARG:HG2	2.20	0.41
40:BK:112:PRO:O	40:BK:113:GLU:HG2	2.19	0.41
40:BK:38:LEU:CA	40:BK:41:ARG:HG3	2.45	0.41
41:BL:103:VAL:O	41:BL:104:ARG:C	2.59	0.41
34:BA:599:C:O3'	41:BL:96:GLY:HA3	2.21	0.41
42:BM:113:LYS:HB2	42:BM:114:TYR:H	1.39	0.41
43:BN:4:ILE:O	43:BN:4:ILE:HG22	2.20	0.41
43:BN:46:ARG:CD	43:BN:64:GLU:OE2	2.69	0.41
43:BN:5:ARG:CD	43:BN:6:ILE:N	2.83	0.41
44:BO:86:GLY:N	44:BO:112:THR:HG23	2.35	0.41
44:BO:99:GLN:O	44:BO:102:GLY:N	2.52	0.41
45:BP:6:THR:HG21	45:BP:9:GLN:OE1	2.21	0.41
34:BA:1187:G:O2'	47:BR:61:TRP:OXT	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:54:ARG:O	48:BS:57:LEU:CB	2.51	0.41
49:BT:55:ARG:HA	49:BT:55:ARG:NE	2.23	0.41
49:BT:55:ARG:O	49:BT:59:TRP:HB2	2.19	0.41
50:BU:43:LEU:HD22	50:BU:43:LEU:C	2.37	0.41
50:BU:92:ARG:O	50:BU:95:TYR:CB	2.56	0.41
51:BV:80:PRO:O	51:BV:82:THR:N	2.53	0.41
52:BW:27:GLU:CG	52:BW:28:LYS:H	2.25	0.41
52:BW:7:LYS:C	52:BW:7:LYS:HZ1	2.23	0.41
53:BX:72:LEU:HD13	53:BX:77:ALA:HA	2.01	0.41
53:BX:73:HIS:CD2	53:BX:74:LYS:NZ	2.89	0.41
53:BX:49:ALA:HB3	53:BX:99:LEU:HG	2.01	0.41
54:BY:25:LYS:O	54:BY:25:LYS:CD	2.68	0.41
57:BZ:171:ILE:CD1	57:BZ:182:ASP:OD1	2.68	0.41
57:BZ:288:VAL:CG1	57:BZ:289:CYS:N	2.84	0.41
57:BZ:560:PRO:HB3	57:BZ:561:ILE:C	2.27	0.41
57:BZ:565:LEU:HG	57:BZ:566:GLU:OE2	2.19	0.41
57:BZ:556:VAL:O	57:BZ:557:LEU:CD2	2.68	0.41
56:BD:16:U:C3'	56:BD:17:C:C5'	2.96	0.41
56:BD:52:G:C4	56:BD:63:G:N3	2.86	0.41
57:BZ:499:PHE:CG	57:BZ:540:GLY:O	2.72	0.41
57:BZ:37:GLU:CA	57:BZ:39:GLN:HB3	2.33	0.41
55:BC:36:A:H3'	55:BC:37:A:H5''	2.02	0.41
55:BC:41:C:C2'	55:BC:42:C:H5'	2.50	0.41
1:AA:2103:C:C2'	1:AA:2104:G:H8	2.13	0.41
45:BP:126:LYS:C	45:BP:126:LYS:HD2	2.41	0.41
45:BP:126:LYS:O	45:BP:128:ALA:N	2.54	0.41
3:AC:148:ASN:HB2	3:AC:151:GLU:CD	2.41	0.41
41:BL:54:ASP:C	41:BL:56:LYS:N	2.74	0.41
1:AA:1009:A:N1	1:AA:1010:A:C2	2.89	0.41
1:AA:1012:U:H5'	1:AA:1013:C:P	2.61	0.41
1:AA:1083:U:C4	1:AA:1085:A:C8	3.06	0.41
1:AA:1085:A:H1'	1:AA:1086:A:O5'	2.20	0.41
1:AA:1079:C:H42	1:AA:1088:A:H5'	1.77	0.41
1:AA:1144:G:C2'	1:AA:1145:C:C6	2.83	0.41
1:AA:1147:C:C2	1:AA:1148:A:C8	3.08	0.41
1:AA:1229:G:H2'	1:AA:1230:C:H5'	2.03	0.41
1:AA:1239:G:C2'	1:AA:1240:U:H5'	2.51	0.41
1:AA:1348:G:O6	1:AA:1349:A:C6	2.74	0.41
1:AA:1420:U:C6	1:AA:1420:U:OP2	2.73	0.41
1:AA:1422:G:H4'	1:AA:1493:C:O2'	2.21	0.41
1:AA:1444(A):A:H4'	1:AA:1445:C:O5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1519:G:N3	1:AA:1519:G:H2'	2.35	0.41
1:AA:1571:A:N3	1:AA:1571:A:C2'	2.83	0.41
1:AA:1693:U:O4	1:AA:1977:A:N7	2.53	0.41
1:AA:150:C:N4	1:AA:176:G:H22	2.19	0.41
1:AA:1899:G:N2	1:AA:1901:A:C6	2.85	0.41
1:AA:1920:C:H1'	1:AA:1921:G:OP1	2.21	0.41
1:AA:1953:A:H1'	1:AA:2560:C:O4'	2.21	0.41
1:AA:1990:C:C4	1:AA:1991:U:O4	2.73	0.41
1:AA:1991:U:C2'	1:AA:1992:G:OP2	2.69	0.41
1:AA:2051:A:O2'	1:AA:2052:G:O5'	2.39	0.41
1:AA:2077:A:C5	1:AA:2435:A:N7	2.88	0.41
1:AA:2106:G:N1	1:AA:2184:G:C5	2.89	0.41
1:AA:2175:C:N3	1:AA:2176:A:C8	2.89	0.41
1:AA:224:G:N2	1:AA:225:A:H1'	2.36	0.41
1:AA:2281:C:O2'	1:AA:2282:G:C5'	2.67	0.41
1:AA:2408:U:O2'	1:AA:2409:G:C5'	2.64	0.41
1:AA:2414:G:O6	1:AA:2415:G:O6	2.38	0.41
1:AA:241:A:O4'	1:AA:241:A:P	2.79	0.41
1:AA:2424:C:O2	1:AA:2424:C:C2'	2.65	0.41
1:AA:2474:C:H2'	1:AA:2475:C:O5'	2.20	0.41
1:AA:2469:A:N6	1:AA:2481:G:H1'	2.33	0.41
1:AA:2515:C:H2'	1:AA:2516:G:O5'	2.20	0.41
1:AA:2554:U:C4	1:AA:2555:U:O4	2.73	0.41
1:AA:2581:G:O6	1:AA:2610:C:H2'	2.18	0.41
1:AA:2691:C:O4'	1:AA:2872:G:C5	2.74	0.41
1:AA:270(D):C:H2'	1:AA:270(E):G:C8	2.56	0.41
1:AA:2720:U:H2'	1:AA:2721:A:C8	2.52	0.41
1:AA:2741:A:C2	1:AA:2742:C:H1'	2.56	0.41
1:AA:2803:C:N4	1:AA:2804:C:H42	2.19	0.41
1:AA:2791:C:O2	1:AA:2807:G:C5	2.74	0.41
1:AA:295:G:OP1	1:AA:338:G:O6	2.38	0.41
58:AA:3001:NMY:N23	58:AA:3001:NMY:C15	2.83	0.41
1:AA:301:G:C5	1:AA:317:G:N1	2.89	0.41
1:AA:303:U:H2'	1:AA:304:G:C5'	2.50	0.41
1:AA:432:A:O5'	1:AA:432:A:H8	2.04	0.41
1:AA:480:A:C2'	1:AA:481:G:OP1	2.68	0.41
1:AA:54:G:N2	1:AA:55:G:C4	2.89	0.41
1:AA:568:U:H2'	1:AA:570:G:H8	1.75	0.41
1:AA:627:A:P	1:AA:637:A:H61	2.43	0.41
1:AA:64:A:N3	19:AU:66:LEU:CD2	2.71	0.41
1:AA:718:A:H8	1:AA:719:C:C6	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:790:C:C6	1:AA:790:C:C3'	3.03	0.41
1:AA:824:A:H2'	1:AA:825:C:C6	2.54	0.41
1:AA:830:G:H1'	1:AA:2448:A:N1	2.35	0.41
1:AA:83:G:O2'	1:AA:84:A:O5'	2.38	0.41
1:AA:848:G:H3'	1:AA:848:G:H8	1.85	0.41
1:AA:918:A:H2'	2:AB:80:U:O2'	2.20	0.41
2:AB:104:A:O2'	21:AW:29:TYR:CE2	2.74	0.41
2:AB:118:G:C4	2:AB:119:A:N7	2.89	0.41
2:AB:2:C:OP2	2:AB:2:C:C6	2.74	0.41
2:AB:37:C:N4	2:AB:44:G:C6	2.89	0.41
2:AB:45:A:N3	2:AB:45:A:H2'	2.36	0.41
2:AB:73:A:C2'	2:AB:74:U:O5'	2.69	0.41
2:AB:85:G:N1	2:AB:86:G:C5	2.88	0.41
3:AC:199:HIS:O	3:AC:200:LYS:C	2.59	0.41
3:AC:59:ARG:NH2	3:AC:164:ARG:NH1	2.69	0.41
4:AD:105:ILE:HD11	4:AD:106:ILE:HG23	2.03	0.41
4:AD:146:GLU:HA	4:AD:154:LYS:O	2.20	0.41
1:AA:1789:A:H2'	4:AD:213:ARG:HH12	1.86	0.41
4:AD:243:GLY:O	4:AD:244:ARG:CG	2.68	0.41
1:AA:1901:A:O2'	4:AD:244:ARG:HD2	2.20	0.41
4:AD:245:PRO:HA	4:AD:246:PRO:HD3	1.68	0.41
4:AD:259:THR:CG2	4:AD:260:ARG:NH1	2.83	0.41
5:AE:119:ARG:HH11	5:AE:120:TRP:CA	2.30	0.41
5:AE:40:GLU:HA	5:AE:40:GLU:OE2	2.20	0.41
5:AE:46:ALA:HB2	5:AE:85:ASN:OD1	2.21	0.41
6:AF:118:ALA:C	6:AF:122:LYS:HB2	2.41	0.41
6:AF:138:GLU:H	6:AF:138:GLU:HG2	1.43	0.41
6:AF:31:HIS:O	6:AF:38:ARG:NH2	2.54	0.41
1:AA:443:A:C5'	6:AF:45:ARG:NH1	2.62	0.41
6:AF:57:VAL:HG12	6:AF:58:ALA:N	2.35	0.41
6:AF:63:LYS:C	6:AF:64:ILE:CG2	2.88	0.41
7:AG:55:LYS:HE3	7:AG:152:LEU:CD2	2.41	0.41
7:AG:93:THR:O	7:AG:94:LEU:C	2.58	0.41
8:AH:22:GLY:O	8:AH:37:VAL:HG22	2.20	0.41
9:AK:34:LEU:HA	9:AK:49:GLY:HA2	2.03	0.41
9:AK:42:TRP:CZ3	16:AR:67:ALA:CB	3.01	0.41
9:AK:43:THR:O	9:AK:44:PRO:C	2.58	0.41
9:AK:74:ARG:CZ	9:AK:82:LEU:HD21	2.51	0.41
9:AK:91:LEU:HA	9:AK:95:PRO:HA	2.03	0.41
10:AL:13:ASN:CB	10:AL:94:ARG:HB2	2.50	0.41
11:AM:52:GLU:O	11:AM:53:GLY:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:245:G:P	11:AM:65:ARG:HH21	2.43	0.41
11:AM:97:PRO:HA	11:AM:102:ARG:HE	1.83	0.41
13:AO:108:GLY:O	13:AO:110:PRO:CD	2.65	0.41
13:AO:28:LEU:HD13	13:AO:28:LEU:O	2.21	0.41
1:AA:1279:G:H4'	13:AO:31:HIS:CD2	2.55	0.41
13:AO:53:HIS:O	13:AO:56:LYS:CG	2.60	0.41
13:AO:45:ARG:CA	13:AO:95:THR:HG21	2.51	0.41
14:AP:65:VAL:HG22	14:AP:66:ALA:H	1.86	0.41
15:AQ:29:ARG:HA	15:AQ:51:ARG:CA	2.47	0.41
1:AA:997:G:C3'	16:AR:92:ARG:NH1	2.84	0.41
17:AS:1:MET:SD	17:AS:15:GLU:OE2	2.78	0.41
17:AS:17:GLY:O	17:AS:19:LYS:N	2.51	0.41
17:AS:52:VAL:CG1	17:AS:53:GLU:N	2.69	0.41
18:AT:13:SER:O	18:AT:17:VAL:CG2	2.65	0.41
19:AU:4:ALA:C	23:AY:21:ARG:NH2	2.74	0.41
19:AU:68:ARG:CB	19:AU:68:ARG:NH1	2.84	0.41
20:AV:76:CYS:HB2	20:AV:100:ALA:CB	2.50	0.41
20:AV:105:ALA:O	20:AV:107:ASP:N	2.53	0.41
23:AY:15:GLU:O	23:AY:17:GLU:N	2.54	0.41
24:AZ:41:PRO:HG3	24:AZ:44:ARG:NH1	2.36	0.41
24:AZ:3:ARG:O	24:AZ:59:VAL:O	2.39	0.41
34:BA:1092:A:C8	34:BA:1183:A:N7	2.89	0.41
34:BA:1093:A:H2	34:BA:1110:A:H1'	1.85	0.41
34:BA:136:C:C2	34:BA:137:C:C5	3.09	0.41
34:BA:1387:G:O2'	34:BA:1388:C:H5'	2.21	0.41
34:BA:1395:C:H3'	34:BA:1395:C:P	2.60	0.41
34:BA:1422:G:C2	34:BA:1479:C:C2	3.09	0.41
34:BA:1428:A:H2'	34:BA:1429:C:C5	2.50	0.41
34:BA:1517:G:C6	34:BA:1518:A:C2	3.09	0.41
34:BA:161:A:N1	34:BA:347:G:O2'	2.48	0.41
34:BA:181:G:O2'	34:BA:182:U:C6	2.70	0.41
34:BA:186(B):C:H2'	34:BA:186(C):G:C5'	2.51	0.41
34:BA:235:C:H1'	50:BU:61:GLU:OE1	2.21	0.41
34:BA:321:A:HO2'	34:BA:322:C:H6	1.69	0.41
34:BA:354:G:N3	34:BA:355:C:C6	2.88	0.41
34:BA:369:C:C2	34:BA:370:C:C5	3.09	0.41
34:BA:371:G:O2'	34:BA:372:C:H5'	2.18	0.41
34:BA:378:G:C4	34:BA:379:C:C5	3.09	0.41
34:BA:409:G:OP2	37:BH:22:LYS:HE2	2.20	0.41
34:BA:413:G:N1	37:BH:36:ARG:NH1	2.69	0.41
34:BA:458:C:C4	34:BA:464:G:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:467:G:O2'	34:BA:468:A:H5'	2.21	0.41
34:BA:468:A:N6	34:BA:474:G:N1	2.69	0.41
34:BA:548:G:C6	34:BA:549:C:N4	2.89	0.41
34:BA:547:A:C4'	34:BA:548:G:OP1	2.69	0.41
34:BA:637:G:C2	34:BA:638:G:C8	3.08	0.41
34:BA:716:A:HO2'	34:BA:717:C:H5'	1.86	0.41
34:BA:760:G:H5'	34:BA:761:G:OP2	2.20	0.41
34:BA:780:A:N3	34:BA:803:G:N1	2.69	0.41
34:BA:783:C:HO2'	34:BA:784:C:H5'	1.81	0.41
34:BA:791:G:N7	34:BA:792:A:N7	2.68	0.41
34:BA:885:G:O2'	34:BA:915:A:C2	2.74	0.41
34:BA:924:C:C2	34:BA:925:G:C8	3.08	0.41
34:BA:938:A:H2'	34:BA:939:G:O5'	2.19	0.41
34:BA:942:G:N2	34:BA:943:U:C2	2.88	0.41
34:BA:991:U:O2'	34:BA:993:G:C8	2.69	0.41
34:BA:993:G:N2	34:BA:1046:A:N3	2.68	0.41
56:BE:15:G:C4	56:BE:16:U:C5	3.09	0.41
35:BF:125:PRO:C	35:BF:127:ILE:HG13	2.41	0.41
35:BF:169:LYS:NZ	35:BF:170:GLU:HB2	2.35	0.41
35:BF:179:LYS:HB3	41:BL:72:PRO:HB3	2.03	0.41
36:BG:72:LYS:O	36:BG:76:VAL:CB	2.68	0.41
37:BH:169:LYS:HA	37:BH:176:LEU:HD11	2.02	0.41
39:BJ:81:ILE:CG2	39:BJ:82:ARG:N	2.56	0.41
40:BK:147:ALA:C	40:BK:149:ARG:N	2.74	0.41
40:BK:38:LEU:HD12	40:BK:41:ARG:CD	2.49	0.41
40:BK:69:VAL:C	40:BK:100:ALA:HB1	2.41	0.41
40:BK:71:PRO:HB2	40:BK:72:ARG:H	1.77	0.41
41:BL:14:ARG:CD	41:BL:15:ASN:ND2	2.83	0.41
41:BL:39:LEU:CD1	41:BL:39:LEU:C	2.88	0.41
41:BL:49:GLU:OE1	41:BL:49:GLU:C	2.59	0.41
42:BM:47:LEU:HD11	42:BM:56:LEU:CD1	2.51	0.41
42:BM:89:ASN:C	42:BM:91:ASP:H	2.23	0.41
43:BN:5:ARG:HH11	43:BN:5:ARG:HG2	1.86	0.41
43:BN:51:ARG:N	43:BN:60:ARG:HA	2.35	0.41
46:BQ:40:ASN:C	46:BQ:42:ALA:N	2.73	0.41
48:BS:34:LEU:HD12	48:BS:35:ARG:CA	2.50	0.41
49:BT:21:VAL:HG22	49:BT:36:ILE:CD1	2.51	0.41
50:BU:12:SER:HG	50:BU:14:LYS:HD2	1.86	0.41
50:BU:14:LYS:O	50:BU:15:MET:O	2.39	0.41
50:BU:76:LEU:O	50:BU:76:LEU:HD23	2.20	0.41
53:BX:56:MET:O	53:BX:56:MET:SD	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:190:ILE:CG2	57:BZ:194:VAL:HG21	2.50	0.41
57:BZ:398:GLU:N	57:BZ:472:TYR:CD1	2.89	0.41
1:AA:2660:A:C8	57:BZ:457:THR:HG23	2.55	0.41
55:BC:67:C:C4	55:BC:68:C:N4	2.89	0.41
1:AA:1418:G:C4	1:AA:1581:G:N2	2.85	0.41
57:BZ:319:CYS:C	57:BZ:321:LYS:HG2	2.41	0.41
8:AH:152:ARG:CG	8:AH:152:ARG:NH2	2.82	0.41
34:BA:1029:G:O2'	34:BA:1031:G:N7	2.43	0.41
34:BA:1540:U:C6	34:BA:1540:U:O5'	2.74	0.41
34:BA:74:C:O2'	34:BA:75:C:H5'	2.21	0.41
34:BA:1121:U:H6	34:BA:1121:U:O5'	2.04	0.41
1:AA:766:C:H2'	1:AA:767:U:H6	1.86	0.41
1:AA:1019:U:C3'	1:AA:1019:U:C6	3.04	0.41
1:AA:1062:G:O2'	1:AA:1064:C:OP2	2.38	0.41
1:AA:1069:A:H4'	1:AA:1070:A:H3'	2.01	0.41
1:AA:1081:U:H4'	32:AJ:125:ARG:HD2	2.02	0.41
1:AA:109:G:N1	1:AA:110:G:C8	2.88	0.41
1:AA:1247:A:H2'	1:AA:1248:G:H5''	2.03	0.41
1:AA:1266:G:H2'	1:AA:1267:U:OP2	2.20	0.41
1:AA:1325:G:OP2	1:AA:1616:A:C8	2.74	0.41
1:AA:1367:A:N6	1:AA:1368:G:H1'	2.35	0.41
1:AA:1449:A:C6	1:AA:1449(A):G:C5	3.08	0.41
1:AA:1521:G:H8	1:AA:1522:G:O4'	2.03	0.41
1:AA:154:G:C2	1:AA:173:G:C2	3.09	0.41
1:AA:1655:A:H2'	1:AA:1656:C:C1'	2.50	0.41
1:AA:1699:G:C5	1:AA:1763:G:N3	2.89	0.41
1:AA:1845:G:C5	1:AA:1896:G:N1	2.89	0.41
1:AA:1900:A:C2	1:AA:1970:A:N6	2.89	0.41
1:AA:1926:U:O2'	1:AA:1927:A:C8	2.70	0.41
1:AA:1936:A:C1'	1:AA:1940:U:N3	2.82	0.41
1:AA:1956:U:O2'	1:AA:1985:G:C5'	2.69	0.41
1:AA:1967:C:O2'	1:AA:1968:G:OP1	2.38	0.41
1:AA:1769:G:C2	1:AA:1984:G:C4	3.09	0.41
1:AA:1999:C:O2'	1:AA:2722:G:N2	2.52	0.41
1:AA:202:U:H2'	1:AA:203:C:N1	2.36	0.41
1:AA:2040:C:C4	1:AA:2041:U:O4	2.74	0.41
1:AA:2252:G:N7	1:AA:2253:G:N7	2.69	0.41
1:AA:225:A:N6	1:AA:226:G:C6	2.89	0.41
1:AA:2249:U:O2'	1:AA:2275:C:C2	2.73	0.41
1:AA:2279:G:N3	1:AA:2280:G:C8	2.88	0.41
1:AA:2345:G:H21	1:AA:2381:C:C2'	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2380:C:O5'	1:AA:2380:C:H6	2.04	0.41
1:AA:2394:C:C2'	1:AA:2394:C:O2	2.64	0.41
1:AA:792:G:C6	1:AA:2440:C:C6	3.09	0.41
1:AA:2458:G:HO2'	1:AA:2459:A:C5'	2.34	0.41
1:AA:957:A:C2	1:AA:2459:A:OP1	2.74	0.41
1:AA:2447:G:N7	1:AA:2500:U:C6	2.89	0.41
1:AA:2505:G:C8	1:AA:2505:G:C3'	3.03	0.41
1:AA:2509:G:H21	1:AA:2510:C:H1'	1.86	0.41
1:AA:2674:G:C2	1:AA:2675:A:C5	3.09	0.41
1:AA:2708:G:C4'	13:AO:71:GLN:OE1	2.68	0.41
1:AA:270(W):G:C5	1:AA:270(X):G:N7	2.88	0.41
1:AA:1665:A:H8	1:AA:2726:U:H3	1.54	0.41
1:AA:1051:G:HO2'	1:AA:2752:C:C5'	2.18	0.41
1:AA:2784:C:C4'	5:AE:41:LYS:CE	2.95	0.41
1:AA:183:C:O2'	1:AA:432:A:N3	2.52	0.41
1:AA:43:G:C2	1:AA:438:G:C4	3.08	0.41
1:AA:468:G:C2'	1:AA:469:G:H5'	2.51	0.41
1:AA:535:C:C2'	1:AA:536:A:C5'	2.98	0.41
1:AA:544:C:H2'	1:AA:545:G:C5'	2.50	0.41
1:AA:545:G:C8	1:AA:545:G:O5'	2.74	0.41
1:AA:579:G:N1	1:AA:580:C:C4	2.89	0.41
1:AA:609:A:N6	1:AA:619:G:N2	2.61	0.41
1:AA:623:G:P	11:AM:105:LEU:CD2	3.03	0.41
1:AA:667:U:C4	1:AA:668:G:N7	2.89	0.41
1:AA:720:C:C2	1:AA:721:C:C6	3.09	0.41
1:AA:774:A:H5'	1:AA:778:G:C4'	2.50	0.41
1:AA:196:A:N6	1:AA:831:G:O2'	2.53	0.41
1:AA:903:C:H2'	1:AA:904:C:H6	1.66	0.41
1:AA:903:C:C6	1:AA:903:C:O5'	2.74	0.41
1:AA:928:G:C8	1:AA:929:G:C8	3.09	0.41
1:AA:948:G:C6	1:AA:949:C:C4	3.09	0.41
1:AA:997:G:O5'	17:AS:10:LYS:NZ	2.53	0.41
2:AB:40:U:H2'	2:AB:41:U:OP1	2.21	0.41
2:AB:44:G:H1'	2:AB:47:C:H42	1.85	0.41
2:AB:62:C:N3	2:AB:63:G:N7	2.68	0.41
2:AB:95:U:C2	2:AB:96:G:N7	2.89	0.41
3:AC:120:MET:CG	3:AC:145:VAL:HG13	2.48	0.41
3:AC:20:TYR:O	3:AC:21:THR:HG23	2.21	0.41
1:AA:2123:G:H1'	3:AC:44:HIS:ND1	2.35	0.41
4:AD:112:GLN:N	4:AD:115:GLN:HE21	2.14	0.41
4:AD:21:PHE:C	4:AD:205:VAL:HG13	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:258:LYS:CA	4:AD:261:LYS:NZ	2.71	0.41
4:AD:270:ILE:C	4:AD:271:ILE:HG13	2.40	0.41
4:AD:51:VAL:HG12	4:AD:52:ARG:HD3	2.02	0.41
4:AD:91:ARG:HH22	4:AD:198:ASN:CG	2.24	0.41
5:AE:154:LYS:CD	5:AE:154:LYS:O	2.69	0.41
5:AE:8:LYS:O	5:AE:192:ASN:CB	2.62	0.41
6:AF:54:ARG:HA	6:AF:56:GLU:OE1	2.21	0.41
7:AG:11:TYR:O	7:AG:15:VAL:CG2	2.67	0.41
7:AG:39:ILE:CG1	7:AG:157:ILE:HG13	2.48	0.41
7:AG:172:LEU:HD12	7:AG:172:LEU:C	2.41	0.41
7:AG:64:THR:CG2	7:AG:92:VAL:HG11	2.51	0.41
8:AH:11:VAL:HG21	8:AH:17:VAL:CG2	2.50	0.41
8:AH:7:LEU:CB	8:AH:65:HIS:NE2	2.80	0.41
1:AA:1079:C:H2'	32:AJ:129:GLY:HA2	2.02	0.41
32:AJ:18:THR:CG2	32:AJ:38:VAL:HG11	2.07	0.41
1:AA:1061:U:O2'	32:AJ:52:ILE:HG23	2.20	0.41
9:AK:100:GLU:CB	9:AK:104:LYS:HE2	2.50	0.41
9:AK:26:LEU:O	9:AK:30:ILE:CD1	2.69	0.41
9:AK:30:ILE:O	9:AK:33:LEU:HD12	2.21	0.41
9:AK:46:VAL:CG1	9:AK:119:ARG:HH12	2.34	0.41
9:AK:58:ASP:OD1	9:AK:59:LYS:HG3	2.20	0.41
9:AK:22:THR:CG2	9:AK:61:ARG:CZ	2.98	0.41
10:AL:69:VAL:C	10:AL:104:ARG:HH21	2.24	0.41
10:AL:96:THR:CG2	10:AL:97:ARG:N	2.54	0.41
11:AM:108:LYS:HG2	11:AM:109:GLY:N	2.35	0.41
11:AM:124:LYS:HB3	11:AM:143:GLY:HA2	2.02	0.41
12:AN:132:VAL:CG1	12:AN:133:ARG:NH2	2.82	0.41
12:AN:22:LYS:CE	12:AN:23:GLY:N	2.84	0.41
12:AN:77:LYS:HB3	12:AN:78:PRO:CD	2.39	0.41
1:AA:1277:G:O2'	13:AO:24:GLN:CG	2.69	0.41
13:AO:30:THR:CG2	13:AO:31:HIS:CE1	3.04	0.41
13:AO:45:ARG:HB2	13:AO:97:VAL:CG2	2.51	0.41
13:AO:4:LEU:O	13:AO:5:LYS:C	2.58	0.41
13:AO:97:VAL:O	13:AO:98:LEU:HG	2.20	0.41
15:AQ:26:ASP:CA	15:AQ:100:TYR:CE2	3.00	0.41
15:AQ:110:ILE:HB	15:AQ:113:LYS:CG	2.50	0.41
15:AQ:23:ARG:NH2	15:AQ:89:VAL:HA	2.36	0.41
15:AQ:50:ILE:HG23	15:AQ:68:TYR:CB	2.48	0.41
15:AQ:73:GLU:HG3	15:AQ:73:GLU:O	2.21	0.41
16:AR:45:TYR:HD1	16:AR:45:TYR:HA	1.81	0.41
16:AR:92:ARG:CA	16:AR:95:LEU:HG	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:49:THR:HG22	17:AS:50:PRO:CD	2.37	0.41
18:AT:25:ARG:CA	18:AT:71:VAL:CG1	2.97	0.41
19:AU:25:LYS:O	19:AU:26:TYR:CD1	2.73	0.41
20:AV:36:ALA:HB1	20:AV:62:GLU:O	2.20	0.41
20:AV:46:LYS:HD3	20:AV:52:SER:CB	2.51	0.41
21:AW:155:LEU:HD12	21:AW:155:LEU:HA	1.87	0.41
21:AW:23:LYS:HE3	21:AW:38:TYR:CB	2.51	0.41
1:AA:2331:G:H4'	22:AX:42:GLY:C	2.41	0.41
19:AU:7:VAL:CG2	23:AY:31:ARG:CZ	2.99	0.41
23:AY:31:ARG:H	23:AY:31:ARG:HG2	1.62	0.41
34:BA:1001:G:C8	34:BA:1001:G:C3'	3.04	0.41
34:BA:102:G:N3	34:BA:151:A:C2	2.88	0.41
34:BA:1103:C:O2'	35:BF:111:ARG:CD	2.69	0.41
34:BA:1114:C:O2'	47:BR:60:SER:CB	2.67	0.41
34:BA:1119:C:C2'	34:BA:1120:G:C8	2.87	0.41
34:BA:1164:G:H2'	34:BA:1165:C:C5'	2.48	0.41
34:BA:1167:A:N1	34:BA:1169:A:C2	2.89	0.41
34:BA:1188:A:H2'	34:BA:1189:C:C6	2.56	0.41
34:BA:1274:G:N3	34:BA:1274:G:H2'	2.36	0.41
34:BA:1308:U:C3'	34:BA:1309:G:P	2.99	0.41
34:BA:1313:U:N3	34:BA:1325:C:O2	2.54	0.41
34:BA:1309:G:N2	34:BA:1328:C:C2'	2.83	0.41
34:BA:265:G:H5''	50:BU:65:ILE:HA	2.03	0.41
34:BA:160:A:H2	34:BA:343:U:H1'	1.84	0.41
34:BA:343:U:H2'	34:BA:345:C:H5	1.86	0.41
34:BA:424:G:O5'	34:BA:424:G:H8	2.02	0.41
34:BA:47:C:C4'	34:BA:48:C:C5'	2.86	0.41
34:BA:438:G:N2	34:BA:494:U:C2	2.88	0.41
34:BA:563:A:O2'	34:BA:566:G:C2'	2.68	0.41
34:BA:689:C:H2'	34:BA:690:G:O4'	2.21	0.41
34:BA:791:G:C6	34:BA:792:A:N6	2.87	0.41
34:BA:80:G:C2'	34:BA:81:G:H8	2.34	0.41
34:BA:981:U:OP2	34:BA:981:U:C5	2.73	0.41
55:BC:56:C:C2	55:BC:57:G:H8	2.39	0.41
42:BM:127:LYS:HB2	56:BE:31:A:P	2.61	0.41
56:BE:48:C:H2'	56:BE:59:U:C1'	2.51	0.41
35:BF:122:PHE:O	35:BF:123:ALA:C	2.59	0.41
35:BF:167:PRO:CG	35:BF:168:THR:N	2.83	0.41
35:BF:188:ALA:O	35:BF:205:ASP:HB3	2.21	0.41
35:BF:80:ILE:HD12	35:BF:208:ILE:CD1	2.50	0.41
36:BG:172:ARG:HH11	36:BG:172:ARG:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1112:C:C1'	36:BG:179:ARG:NH2	2.60	0.41
37:BH:100:ARG:NH1	37:BH:137:SER:HA	2.35	0.41
37:BH:13:ARG:NH1	37:BH:36:ARG:HB2	2.28	0.41
37:BH:59:ARG:CA	37:BH:63:LYS:HZ2	2.34	0.41
39:BJ:2:ARG:CD	39:BJ:69:GLU:HG2	2.51	0.41
39:BJ:82:ARG:O	39:BJ:84:ASN:N	2.54	0.41
39:BJ:3:ARG:O	39:BJ:93:SER:CB	2.69	0.41
39:BJ:4:TYR:CA	39:BJ:93:SER:OG	2.68	0.41
41:BL:104:ARG:O	41:BL:107:LEU:HD23	2.21	0.41
41:BL:44:PHE:CE2	41:BL:109:ILE:HD13	2.50	0.41
41:BL:109:ILE:HG12	41:BL:137:VAL:H	1.84	0.41
44:BO:54:ARG:HH11	44:BO:54:ARG:CG	2.22	0.41
40:BK:150:ALA:HA	44:BO:59:TYR:HB2	2.03	0.41
45:BP:54:LYS:HB3	45:BP:70:ILE:CB	2.38	0.41
45:BP:33:ARG:HG3	45:BP:60:LEU:HD23	2.00	0.41
45:BP:85:ILE:CD1	45:BP:99:HIS:O	2.69	0.41
46:BQ:23:TYR:O	46:BQ:25:ILE:HG13	2.20	0.41
48:BS:66:LEU:O	48:BS:67:LEU:C	2.58	0.41
49:BT:58:TYR:HD1	49:BT:59:TRP:CA	2.33	0.41
52:BW:12:ASP:C	52:BW:14:HIS:N	2.73	0.41
34:BA:986:A:H2	52:BW:52:TYR:OH	2.01	0.41
53:BX:51:GLU:HA	53:BX:54:LYS:HE3	1.97	0.41
53:BX:53:LEU:O	53:BX:55:ILE:N	2.54	0.41
53:BX:80:ARG:HA	53:BX:80:ARG:HD3	1.87	0.41
57:BZ:236:GLN:HB2	57:BZ:247:ARG:CG	2.51	0.41
57:BZ:374:ARG:NE	57:BZ:581:THR:N	2.61	0.41
57:BZ:564:THR:OG1	57:BZ:567:GLN:HB2	2.21	0.41
1:AA:1007:C:C2	1:AA:1008:C:N4	2.89	0.41
1:AA:1036:G:C2	1:AA:1037:G:C8	3.09	0.41
1:AA:1050:A:N3	1:AA:2752:C:H5	2.19	0.41
1:AA:1058:G:H2'	1:AA:1059:G:H5''	2.01	0.41
1:AA:1069:A:H5'	1:AA:1070:A:N7	2.36	0.41
1:AA:1136:G:H2'	1:AA:1137:G:H5'	2.03	0.41
1:AA:112:U:N3	1:AA:113:G:H1'	2.35	0.41
1:AA:1142:U:H2'	1:AA:1142(A):A:O5'	2.21	0.41
1:AA:1207:C:H5''	1:AA:1207:C:H6	1.86	0.41
1:AA:1274:A:O2'	1:AA:1275:A:H5'	2.21	0.41
1:AA:1291:C:C5'	1:AA:1535:U:O3'	2.69	0.41
1:AA:1310:G:H1	1:AA:1604:C:N4	2.18	0.41
1:AA:1360:A:H2'	1:AA:1361:G:C5'	2.51	0.41
1:AA:137(A):G:HO2'	1:AA:138:G:H8	1.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1431:U:C4	1:AA:1432:C:C5	3.09	0.41
1:AA:146:G:H2'	1:AA:147:U:H5''	2.03	0.41
1:AA:1614:A:H5''	1:AA:1615:C:OP2	2.21	0.41
1:AA:1670:C:C3'	1:AA:1671:U:H5'	2.51	0.41
1:AA:1676:A:C2'	1:AA:1677:A:O5'	2.69	0.41
1:AA:1688:U:H3	1:AA:1700:A:C5'	2.34	0.41
1:AA:1786:A:H2'	1:AA:1787:A:C8	2.56	0.41
1:AA:1786:A:N7	1:AA:1787:A:N7	2.69	0.41
1:AA:1800:C:H1'	1:AA:1802:A:C8	2.56	0.41
1:AA:1825:A:C6	1:AA:1826:G:C6	3.08	0.41
1:AA:1847:A:O2'	1:AA:1848:A:C8	2.74	0.41
1:AA:1905:C:H2'	1:AA:1906:G:OP2	2.20	0.41
1:AA:1982:C:H5''	1:AA:1983:C:OP2	2.21	0.41
1:AA:2075:U:C2'	1:AA:2076:U:H5''	2.40	0.41
1:AA:2097:C:C4	1:AA:2193:G:C6	3.09	0.41
1:AA:2157:G:O2'	1:AA:2158:A:P	2.79	0.41
1:AA:2287:A:H2	1:AA:2346:A:H61	1.69	0.41
1:AA:2305:A:C8	1:AA:2306:C:H5'	2.56	0.41
1:AA:222:A:N6	1:AA:232:G:N3	2.68	0.41
1:AA:2327:A:N7	1:AA:2388:A:C6	2.89	0.41
1:AA:2390:U:H2'	1:AA:2391:G:O5'	2.21	0.41
1:AA:2246:G:C1'	1:AA:2426:A:C2	3.04	0.41
1:AA:2459:A:C5	1:AA:2493:U:C4	3.08	0.41
1:AA:2490:G:O2'	1:AA:2491:U:O5'	2.35	0.41
1:AA:2531:A:H1'	1:AA:2658:C:O2'	2.21	0.41
1:AA:2610:C:C2'	1:AA:2611:U:OP2	2.68	0.41
1:AA:2652:C:H4'	1:AA:2653:U:OP1	2.19	0.41
1:AA:270(B):A:O2'	1:AA:270(C):C:H3'	2.21	0.41
1:AA:2714:G:C6	1:AA:2715:C:C5	3.08	0.41
1:AA:2737:G:N3	1:AA:2738:A:C8	2.89	0.41
1:AA:2788:C:H4'	1:AA:2810:A:C5'	2.37	0.41
1:AA:278:A:OP1	1:AA:278:A:O4'	2.38	0.41
1:AA:2791:C:H1'	1:AA:2807:G:C4	2.56	0.41
1:AA:280:C:H3'	1:AA:282:A:OP2	2.20	0.41
1:AA:2:G:H1'	1:AA:2902:C:O2	2.21	0.41
1:AA:317:G:C2'	1:AA:318:C:H5'	2.50	0.41
1:AA:355:G:C6	1:AA:356:G:O6	2.74	0.41
1:AA:358:U:OP2	1:AA:359:A:N7	2.54	0.41
1:AA:379:G:H4'	1:AA:2232:U:H5''	2.02	0.41
1:AA:392:C:C2	1:AA:393:C:C5	3.09	0.41
1:AA:424:G:C2'	1:AA:425:G:C5'	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:558:G:N1	1:AA:559:G:C6	2.89	0.41
1:AA:562:U:C2'	1:AA:563:G:OP2	2.69	0.41
1:AA:598:G:H21	1:AA:599:G:H1'	1.85	0.41
1:AA:613:U:C5	1:AA:614:U:C2	3.09	0.41
1:AA:657:U:C4	1:AA:658:C:N4	2.89	0.41
2:AB:66:A:H2	2:AB:108:C:C1'	2.33	0.41
2:AB:10:C:O5'	2:AB:10:C:H6	2.04	0.41
2:AB:16:G:C6	2:AB:69:G:C2	3.09	0.41
4:AD:120:GLY:O	4:AD:131:LEU:CD1	2.48	0.41
4:AD:121:PRO:C	4:AD:135:PHE:CE2	2.80	0.41
4:AD:132:PRO:HB2	4:AD:134:ARG:HD3	2.02	0.41
4:AD:122:ASP:HA	4:AD:135:PHE:CD2	2.56	0.41
4:AD:168:ARG:HD3	4:AD:173:VAL:CG2	2.33	0.41
4:AD:261:LYS:C	4:AD:263:ARG:H	2.23	0.41
4:AD:70:TRP:N	4:AD:70:TRP:CD1	2.88	0.41
1:AA:1567:A:N6	4:AD:84:TYR:CE1	2.89	0.41
5:AE:8:LYS:CB	5:AE:24:THR:CG2	2.98	0.41
6:AF:155:LEU:HB2	6:AF:189:THR:OG1	2.21	0.41
6:AF:4:VAL:HG12	6:AF:4:VAL:O	2.20	0.41
6:AF:63:LYS:O	6:AF:63:LYS:HG2	2.21	0.41
6:AF:74:ARG:NH1	6:AF:75:HIS:C	2.73	0.41
7:AG:139:LEU:C	7:AG:142:PRO:HD3	2.40	0.41
7:AG:30:GLU:HB2	7:AG:162:THR:HG21	2.02	0.41
7:AG:22:ARG:HG3	7:AG:23:PHE:HD2	1.84	0.41
7:AG:33:ARG:NH2	7:AG:34:LEU:CA	2.84	0.41
7:AG:36:LYS:HE2	7:AG:38:VAL:CG1	2.29	0.41
7:AG:72:ARG:HA	7:AG:88:ILE:CD1	2.51	0.41
8:AH:144:VAL:O	8:AH:145:ALA:C	2.60	0.41
8:AH:156:ALA:O	8:AH:157:TYR:CD2	2.74	0.41
31:AI:152:VAL:C	31:AI:155:GLY:N	2.74	0.41
32:AJ:35:MET:CG	32:AJ:36:GLU:N	2.83	0.41
32:AJ:86:LYS:HD2	32:AJ:87:GLY:H	1.78	0.41
32:AJ:87:GLY:C	32:AJ:89:HIS:N	2.74	0.41
9:AK:53:VAL:HG12	9:AK:130:HIS:NE2	2.36	0.41
1:AA:1952:A:C2	10:AL:22:ILE:HG23	2.55	0.41
10:AL:23:ARG:CD	10:AL:23:ARG:H	2.29	0.41
11:AM:40:SER:O	11:AM:42:SER:N	2.50	0.41
12:AN:11:LYS:HD2	12:AN:13:GLN:O	2.20	0.41
12:AN:6:ARG:CD	12:AN:7:MET:N	2.84	0.41
14:AP:57:LYS:HZ3	14:AP:62:LYS:CB	2.34	0.41
14:AP:98:VAL:O	14:AP:99:LYS:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:113:LYS:O	15:AQ:116:ALA:CB	2.65	0.41
15:AQ:114:LEU:O	15:AQ:117:ASP:OD1	2.39	0.41
15:AQ:59:THR:O	15:AQ:81:PRO:HG2	2.21	0.41
17:AS:22:VAL:HG13	17:AS:23:GLU:N	2.36	0.41
18:AT:35:ILE:HG23	18:AT:36:LEU:N	2.36	0.41
19:AU:35:THR:H	19:AU:38:GLU:HB2	1.86	0.41
19:AU:70:LEU:CD2	19:AU:71:GLY:N	2.76	0.41
19:AU:83:VAL:HG11	19:AU:87:GLN:O	2.20	0.41
20:AV:1:MET:HA	20:AV:33:LYS:CE	2.49	0.41
21:AW:160:GLY:O	21:AW:161:VAL:O	2.38	0.41
21:AW:15:PRO:HB2	21:AW:19:ARG:NH1	2.35	0.41
22:AX:31:VAL:HG13	22:AX:67:VAL:HG23	2.03	0.41
23:AY:51:GLN:HA	23:AY:54:ARG:CD	2.51	0.41
24:AZ:16:PRO:O	24:AZ:19:GLN:HB3	2.20	0.41
1:AA:850:C:O2'	24:AZ:46:ASN:ND2	2.54	0.41
24:AZ:47:VAL:O	24:AZ:50:VAL:HB	2.21	0.41
34:BA:1068:G:H2'	34:BA:1069:C:O4'	2.20	0.41
34:BA:1109:C:C3'	34:BA:1110:A:H8	2.34	0.41
34:BA:1169:A:C5	34:BA:1170:A:N1	2.89	0.41
34:BA:1225:A:O3'	52:BW:80:TYR:HB3	2.21	0.41
34:BA:1245:A:C4	34:BA:1246:C:C5	3.08	0.41
34:BA:11:G:O2'	34:BA:12:U:H5'	2.21	0.41
34:BA:130:A:C4	34:BA:264:U:C1'	3.01	0.41
34:BA:1339:A:C8	34:BA:1339:A:O5'	2.73	0.41
34:BA:1224:G:N2	34:BA:1362(A):C:C4	2.81	0.41
34:BA:321:A:H5'	34:BA:1435:G:O2'	2.21	0.41
34:BA:1442:G:H5''	34:BA:1443:G:O5'	2.20	0.41
34:BA:1480:G:O2'	34:BA:1481:U:C5'	2.61	0.41
34:BA:1480:G:C2'	34:BA:1481:U:H5'	2.50	0.41
34:BA:220:G:H2'	34:BA:221:C:O5'	2.20	0.41
34:BA:222:U:C2	34:BA:223:U:C5	3.09	0.41
34:BA:279:A:H5'	34:BA:280:C:C3'	2.33	0.41
34:BA:27:G:P	34:BA:27:G:H8	2.44	0.41
34:BA:280:C:H1'	50:BU:38:ARG:CD	2.51	0.41
34:BA:47:C:H5	34:BA:365:U:H2'	1.86	0.41
34:BA:429:U:O2	34:BA:431:A:N7	2.54	0.41
34:BA:41:G:O2'	34:BA:42:G:O4'	2.21	0.41
34:BA:437:U:C5	34:BA:438:G:C5	3.09	0.41
34:BA:455:C:O2'	34:BA:456:C:H5'	2.21	0.41
34:BA:578:C:C6	34:BA:578:C:H3'	2.55	0.41
34:BA:730:G:N7	34:BA:731:G:C1'	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:796:C:OP1	44:BO:123:LYS:HD3	2.20	0.41
34:BA:815:A:H1'	34:BA:817:C:H41	1.74	0.41
34:BA:986:A:H2'	34:BA:987:G:C8	2.56	0.41
55:BC:51:U:H3	55:BC:63:G:H1	1.69	0.41
35:BF:114:ARG:HG3	35:BF:115:LEU:N	2.35	0.41
35:BF:144:ARG:O	35:BF:147:LYS:N	2.54	0.41
35:BF:201:ILE:HD12	35:BF:201:ILE:H	1.86	0.41
35:BF:215:LEU:HD22	35:BF:215:LEU:HA	1.82	0.41
35:BF:70:PHE:O	35:BF:92:TYR:CB	2.67	0.41
37:BH:106:TYR:O	37:BH:108:LEU:N	2.54	0.41
37:BH:129:ASN:OD1	37:BH:145:GLU:N	2.54	0.41
38:BI:11:ILE:CD1	38:BI:104:ALA:HB1	2.47	0.41
41:BL:49:GLU:CG	41:BL:62:TYR:OH	2.69	0.41
41:BL:32:LYS:CG	41:BL:59:LEU:HD12	2.51	0.41
42:BM:33:PHE:CZ	42:BM:43:ALA:O	2.74	0.41
42:BM:49:PRO:CD	42:BM:78:LYS:HZ3	2.31	0.41
43:BN:47:PHE:O	43:BN:62:HIS:HB2	2.21	0.41
45:BP:7:ILE:O	45:BP:10:LEU:HB2	2.21	0.41
34:BA:1308:U:P	46:BQ:99:ARG:N	2.88	0.41
47:BR:16:PHE:HB3	47:BR:18:VAL:HG22	2.03	0.41
47:BR:35:ARG:C	47:BR:37:PHE:H	2.23	0.41
48:BS:79:ARG:HG3	48:BS:82:ILE:HD12	2.02	0.41
49:BT:26:ARG:CD	49:BT:31:LYS:HB3	2.51	0.41
51:BV:41:LYS:O	51:BV:44:LEU:CG	2.52	0.41
52:BW:77:THR:C	52:BW:78:ARG:HG2	2.40	0.41
53:BX:102:GLY:O	53:BX:104:LEU:N	2.54	0.41
34:BA:324:G:OP1	53:BX:22:ARG:HB3	2.20	0.41
53:BX:85:MET:HG2	53:BX:85:MET:H	1.62	0.41
57:BZ:236:GLN:HA	57:BZ:247:ARG:CB	2.44	0.41
57:BZ:338:GLU:HG3	57:BZ:345:LEU:HD22	2.02	0.41
57:BZ:407:VAL:HG23	57:BZ:436:ARG:CA	2.50	0.41
57:BZ:406:ASP:HB3	57:BZ:407:VAL:O	2.20	0.41
56:BD:64:A:C2	56:BD:65:G:C5	3.09	0.41
55:BC:39:U:O2	55:BC:39:U:H5'	2.21	0.41
1:AA:1511:A:C8	1:AA:1512:G:H5''	2.56	0.41
1:AA:1581:G:H2'	1:AA:1582:C:C6	2.56	0.41
37:BH:191:ARG:O	37:BH:194:LEU:HD23	2.20	0.41
37:BH:191:ARG:CD	37:BH:192:GLU:N	2.69	0.41
57:BZ:258:LEU:CB	57:BZ:259:GLY:CA	2.95	0.41
31:AI:73:GLY:C	31:AI:75:GLN:N	2.74	0.41
34:BA:489:C:O2'	34:BA:490:G:C5'	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AK:140:VAL:OXT	9:AK:140:VAL:CG1	2.69	0.41
21:AW:92:SER:O	21:AW:93:ASP:CB	2.65	0.41
31:AI:118:THR:O	31:AI:119:ALA:HB3	2.21	0.41
40:BK:90:GLU:N	40:BK:90:GLU:OE2	2.54	0.41
57:BZ:505:GLN:NE2	57:BZ:506:ASP:CG	2.74	0.41
3:AC:207:THR:O	3:AC:207:THR:HG22	2.21	0.41
1:AA:1013:C:OP2	1:AA:1142:U:C2	2.73	0.41
1:AA:1082:U:O5'	1:AA:1082:U:H6	2.03	0.41
1:AA:1101:U:O2	1:AA:1102:C:C6	2.73	0.41
1:AA:121:G:O4'	1:AA:148:C:H2'	2.20	0.41
1:AA:1241:A:C2	1:AA:1241:A:C5'	2.89	0.41
1:AA:1296:G:C2	1:AA:1297:C:C4	3.09	0.41
1:AA:1453:A:C2	1:AA:1454:U:C1'	3.04	0.41
1:AA:146:G:C2'	1:AA:147:U:H5''	2.49	0.41
1:AA:1540:G:H2'	1:AA:1541:U:H4'	2.02	0.41
1:AA:1545(A):A:H8	1:AA:1545(A):A:P	2.44	0.41
1:AA:1332:G:C6	1:AA:1609:A:C6	3.09	0.41
1:AA:1703:G:H2'	1:AA:1704:G:O4'	2.21	0.41
1:AA:1749:A:C2'	1:AA:1750:G:H5'	2.51	0.41
1:AA:184:C:H2'	1:AA:185:U:H5	1.85	0.41
1:AA:1861:G:C2	1:AA:1862:G:N9	2.89	0.41
1:AA:1967:C:N3	1:AA:1968:G:N3	2.68	0.41
1:AA:2003:G:O6	1:AA:2004:G:C6	2.74	0.41
1:AA:2015:A:H2'	1:AA:2016:U:H6	1.86	0.41
1:AA:2018:G:O6	1:AA:2035:G:C6	2.74	0.41
1:AA:2033:A:C2'	1:AA:2034:U:O5'	2.68	0.41
1:AA:2040:C:H2'	1:AA:2041:U:C6	2.56	0.41
1:AA:2072:G:C2	1:AA:2073:C:C5	3.09	0.41
1:AA:2216:G:C2	1:AA:2217:G:C8	3.09	0.41
1:AA:2373:G:N3	1:AA:2374:C:C4	2.89	0.41
1:AA:2437:U:O2'	1:AA:2438:U:H5'	2.21	0.41
1:AA:2472:G:H3'	1:AA:2475:C:N4	2.34	0.41
1:AA:251:A:O2'	1:AA:252:G:OP1	2.36	0.41
1:AA:266:G:H2'	1:AA:267:C:O5'	2.21	0.41
1:AA:270(C):C:O2'	1:AA:270(D):C:C5'	2.62	0.41
1:AA:2756:U:C5	1:AA:2758:A:N6	2.89	0.41
1:AA:2794:C:C6	1:AA:2799:A:C2	3.09	0.41
1:AA:2870:C:O2	1:AA:2871:C:H1'	2.21	0.41
1:AA:6:A:N3	1:AA:2898:U:C2	2.89	0.41
1:AA:412:A:C6	1:AA:413:C:C2	3.09	0.41
1:AA:466:A:N1	1:AA:795:C:O2'	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:470:A:H2'	1:AA:471:A:C4'	2.51	0.41
1:AA:479:A:C6	1:AA:481:G:C4	3.09	0.41
1:AA:566:U:C3'	1:AA:567:A:H8	2.32	0.41
1:AA:577:G:C6	1:AA:578:A:C5	3.08	0.41
1:AA:604:G:H2'	1:AA:605:C:C6	2.56	0.41
1:AA:638:G:N2	1:AA:651:G:H5'	2.35	0.41
1:AA:598:G:C6	1:AA:660:G:C6	3.09	0.41
1:AA:672:C:N4	1:AA:809:G:N1	2.69	0.41
1:AA:699:A:H8	1:AA:699:A:O5'	2.03	0.41
1:AA:815:C:C2	1:AA:816:C:C5	3.09	0.41
1:AA:987:G:O6	1:AA:988:A:C6	2.74	0.41
2:AB:46:A:C2'	2:AB:47:C:O5'	2.68	0.41
2:AB:78:A:N7	2:AB:99:A:N6	2.69	0.41
3:AC:46:LYS:CE	3:AC:210:ARG:NE	2.69	0.41
1:AA:2152:G:H4'	3:AC:2:LYS:HD2	2.02	0.41
3:AC:62:VAL:CG1	3:AC:192:PHE:CB	2.99	0.41
4:AD:147:LEU:HD23	4:AD:154:LYS:CG	2.49	0.41
4:AD:245:PRO:O	4:AD:252:TRP:CH2	2.74	0.41
4:AD:98:VAL:HG23	4:AD:98:VAL:H	1.63	0.41
1:AA:2820:A:H62	5:AE:192:ASN:H	1.69	0.41
6:AF:106:ARG:NH2	6:AF:106:ARG:CB	2.84	0.41
6:AF:120:GLU:N	6:AF:120:GLU:OE1	2.53	0.41
6:AF:80:ALA:O	6:AF:83:PHE:CD2	2.74	0.41
6:AF:90:PHE:O	6:AF:91:GLY:O	2.39	0.41
7:AG:120:LEU:HA	7:AG:181:ARG:CG	2.51	0.41
7:AG:153:ARG:C	7:AG:155:MET:SD	3.00	0.41
7:AG:153:ARG:N	7:AG:155:MET:HE3	2.36	0.41
8:AH:104:GLU:O	8:AH:105:LEU:O	2.39	0.41
8:AH:97:ARG:HA	8:AH:125:VAL:CG1	2.46	0.41
1:AA:1061:U:H2'	32:AJ:73:PRO:HG2	2.02	0.41
9:AK:100:GLU:CA	9:AK:104:LYS:HE2	2.51	0.41
9:AK:16:ILE:HG22	9:AK:21:LYS:HZ2	1.86	0.41
10:AL:112:MET:CE	34:BA:345:C:N4	2.84	0.41
11:AM:76:LYS:HD3	11:AM:112:LEU:HB3	2.02	0.41
11:AM:123:LEU:O	11:AM:138:LEU:CD2	2.69	0.41
11:AM:126:VAL:HG23	11:AM:127:ALA:H	1.85	0.41
12:AN:25:ASP:C	12:AN:26:TYR:CD2	2.95	0.41
12:AN:37:LEU:CB	12:AN:38:GLU:OE2	2.69	0.41
12:AN:97:VAL:N	12:AN:98:LYS:HE2	2.36	0.41
14:AP:24:LEU:HG	14:AP:41:ASP:CA	2.49	0.41
15:AQ:33:LYS:HB2	15:AQ:45:PHE:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AQ:50:ILE:HD12	15:AQ:76:PHE:HB3	2.00	0.41
16:AR:104:GLN:O	16:AR:105:VAL:C	2.59	0.41
16:AR:112:ARG:O	16:AR:113:ALA:C	2.60	0.41
16:AR:36:ARG:O	16:AR:37:GLU:C	2.59	0.41
17:AS:15:GLU:CB	17:AS:16:PRO:CD	2.97	0.41
17:AS:37:VAL:O	17:AS:37:VAL:CG1	2.68	0.41
17:AS:62:LEU:HA	17:AS:99:ILE:HB	2.03	0.41
18:AT:21:VAL:CG2	18:AT:75:TYR:CD2	3.03	0.41
18:AT:88:ARG:O	18:AT:89:ALA:CB	2.69	0.41
18:AT:8:ARG:O	18:AT:10:VAL:N	2.53	0.41
18:AT:98:LYS:C	18:AT:98:LYS:CE	2.89	0.41
19:AU:11:PRO:O	19:AU:13:LEU:HD23	2.21	0.41
19:AU:25:LYS:HG2	19:AU:82:GLN:HE21	1.86	0.41
20:AV:19:LYS:NZ	20:AV:39:VAL:HG12	2.36	0.41
21:AW:110:GLY:CA	21:AW:144:LEU:CB	2.94	0.41
23:AY:36:ILE:HG23	23:AY:41:GLN:NE2	2.35	0.41
23:AY:27:LEU:CD1	23:AY:52:ILE:HD11	2.40	0.41
24:AZ:17:LYS:O	24:AZ:18:ASP:C	2.59	0.41
34:BA:1109:C:OP1	36:BG:176:HIS:CE1	2.67	0.41
34:BA:1110:A:C2'	34:BA:1111:A:C5'	2.94	0.41
34:BA:116:A:OP1	34:BA:289:G:OP1	2.39	0.41
34:BA:119:A:H62	34:BA:287:U:H3	1.66	0.41
34:BA:1210:C:H4'	34:BA:1214:C:C4	2.55	0.41
34:BA:1270:C:C4	34:BA:1271:G:N7	2.89	0.41
34:BA:1300:G:N2	34:BA:1335:C:C2	2.89	0.41
34:BA:1358:U:OP1	47:BR:35:ARG:HG3	2.21	0.41
34:BA:1395:C:O2'	34:BA:1396:A:O5'	2.39	0.41
34:BA:1405:G:H4'	34:BA:1519:A:C5'	2.50	0.41
34:BA:1419:G:H2'	34:BA:1420:C:H6	1.74	0.41
34:BA:1438:G:H2'	34:BA:1439:C:C5'	2.50	0.41
34:BA:1485:U:H2'	34:BA:1486:G:H8	1.81	0.41
34:BA:279:A:C1'	34:BA:281:G:N3	2.79	0.41
34:BA:329:A:C6	34:BA:332:G:C2	3.09	0.41
34:BA:397:A:C2'	34:BA:398:C:OP2	2.69	0.41
34:BA:444:C:H2'	34:BA:445:G:H8	1.86	0.41
34:BA:406:G:C8	34:BA:495:A:C2	3.09	0.41
34:BA:507:C:H3'	34:BA:508:C:H6	1.86	0.41
34:BA:528:C:C4'	34:BA:535:A:N6	2.84	0.41
34:BA:498:A:C4	34:BA:547:A:C2	3.09	0.41
34:BA:609:A:O2'	34:BA:610:G:H5'	2.21	0.41
34:BA:657:G:C5	34:BA:658:G:C8	3.10	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:690:G:C2'	34:BA:691:G:O5'	2.69	0.41
34:BA:766:A:C2'	34:BA:767:A:H8	2.34	0.41
34:BA:577:G:C1'	34:BA:816:A:C2	3.03	0.41
34:BA:835:U:C2	34:BA:852:G:N2	2.89	0.41
34:BA:837:G:C2	34:BA:838:G:C5	3.08	0.41
34:BA:899:C:C4	34:BA:900:A:N1	2.89	0.41
34:BA:937:A:C8	34:BA:938:A:N7	2.88	0.41
34:BA:993:G:H21	34:BA:995:C:N4	2.19	0.41
35:BF:137:ARG:O	35:BF:141:GLU:HB2	2.21	0.41
35:BF:213:LEU:O	35:BF:216:SER:HB3	2.21	0.41
35:BF:46:LYS:O	35:BF:49:GLU:N	2.54	0.41
37:BH:13:ARG:HA	37:BH:32:ALA:HB1	2.03	0.41
38:BI:31:LEU:HB2	38:BI:129:ILE:HG23	2.03	0.41
38:BI:9:LYS:HD3	38:BI:108:ALA:CB	2.51	0.41
40:BK:113:GLU:OE1	40:BK:122:HIS:ND1	2.54	0.41
40:BK:21:VAL:HG23	40:BK:22:LEU:HD23	2.03	0.41
40:BK:46:ALA:HA	40:BK:49:ILE:CD1	2.22	0.41
41:BL:33:GLU:HG2	41:BL:59:LEU:HD21	2.03	0.41
41:BL:46:LYS:HG3	41:BL:64:LYS:HG3	2.03	0.41
41:BL:6:ILE:CD1	41:BL:85:ARG:CD	2.98	0.41
41:BL:96:GLY:O	41:BL:97:VAL:O	2.38	0.41
43:BN:52:GLY:HA2	43:BN:53:PRO:HD2	1.83	0.41
44:BO:18:ARG:HB3	44:BO:83:ILE:HD11	2.03	0.41
44:BO:12:ARG:NH1	44:BO:40:ILE:HG23	2.35	0.41
44:BO:29:ILE:CA	44:BO:44:SER:OG	2.68	0.41
44:BO:50:TYR:CE2	44:BO:54:ARG:HB3	2.56	0.41
45:BP:58:VAL:CG1	45:BP:59:ARG:H	2.32	0.41
46:BQ:19:LEU:O	46:BQ:21:TYR:N	2.54	0.41
46:BQ:66:LEU:N	46:BQ:70:LEU:CA	2.84	0.41
48:BS:79:ARG:CZ	48:BS:79:ARG:HB2	2.51	0.41
34:BA:392:G:C5'	49:BT:12:LYS:NZ	2.78	0.41
50:BU:22:LEU:HD12	50:BU:23:VAL:H	1.86	0.41
50:BU:27:PHE:O	50:BU:36:ILE:HG12	2.20	0.41
51:BV:21:LYS:HE2	51:BV:23:LYS:CB	2.51	0.41
51:BV:47:THR:N	51:BV:49:LYS:HE2	2.36	0.41
51:BV:63:GLN:O	51:BV:66:LEU:CD1	2.69	0.41
52:BW:46:GLY:HA2	52:BW:61:TYR:HE2	1.86	0.41
57:BZ:324:LYS:HG3	57:BZ:325:PHE:CZ	2.56	0.41
57:BZ:383:SER:N	57:BZ:384:ARG:HB2	2.35	0.41
57:BZ:426:LEU:CA	57:BZ:441:TYR:CD2	3.04	0.41
57:BZ:497:VAL:O	57:BZ:500:ALA:N	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:884:C:H1'	1:AA:885:C:O5'	2.20	0.41
57:BZ:35:ARG:HA	57:BZ:36:ALA:CB	2.40	0.41
32:AJ:15:GLY:HA2	32:AJ:45:THR:C	2.42	0.41
23:AY:1:MET:C	23:AY:3:LYS:N	2.74	0.41
56:BD:41:C:C3'	56:BD:42:C:C5'	2.94	0.41
34:BA:799:G:C6	34:BA:800:G:C2	3.09	0.41
34:BA:1097:C:O2'	34:BA:1098:C:C5'	2.67	0.41
34:BA:77:C:O5'	34:BA:77:C:H6	2.03	0.41
1:AA:1029:A:N6	1:AA:1125:G:N2	2.70	0.40
1:AA:1087:G:C2	1:AA:1103:A:C2	3.09	0.40
1:AA:1180:C:H2'	1:AA:1181:C:C5	2.54	0.40
1:AA:331:A:C4	1:AA:1209:G:N1	2.89	0.40
1:AA:1264:G:C6	1:AA:1265:A:N7	2.86	0.40
1:AA:1280:G:C2'	1:AA:1281:G:H5'	2.51	0.40
1:AA:1322:A:OP1	18:AT:11:ARG:NE	2.47	0.40
1:AA:1363:C:O2	1:AA:1363:C:C2'	2.59	0.40
1:AA:1364:G:C8	1:AA:1364:G:OP2	2.74	0.40
1:AA:1355:G:C2	1:AA:1377:G:C2	3.09	0.40
1:AA:1472:A:H61	1:AA:1518:C:N4	2.18	0.40
1:AA:1528:A:N7	1:AA:1529:A:C2	2.90	0.40
1:AA:152:G:H2'	1:AA:153:C:C6	2.57	0.40
1:AA:1542:G:H1'	1:AA:1543:A:C2	2.53	0.40
1:AA:1559:G:N3	1:AA:1559:G:H3'	2.36	0.40
1:AA:1631:A:H2'	1:AA:1632:A:O5'	2.22	0.40
1:AA:1652:A:N7	1:AA:1653:G:C2	2.89	0.40
1:AA:1664:A:O2'	10:AL:66:LYS:NZ	2.52	0.40
1:AA:1665:A:H5'	10:AL:66:LYS:CD	2.47	0.40
1:AA:1669:A:H4'	1:AA:2549:G:O3'	2.21	0.40
1:AA:1957:C:H2'	1:AA:1958:C:C6	2.55	0.40
1:AA:2015:A:OP2	1:AA:2015:A:O4'	2.38	0.40
1:AA:214:G:C2'	1:AA:215:G:O4'	2.70	0.40
1:AA:2199:A:C4	1:AA:2205:C:C6	3.09	0.40
1:AA:2286:A:C3'	1:AA:2286:A:C8	2.91	0.40
1:AA:2300:G:C2'	1:AA:2301:C:H5'	2.52	0.40
1:AA:2302:G:C2	1:AA:2303:G:C8	3.08	0.40
1:AA:2382:G:H8	1:AA:2382:G:O5'	2.05	0.40
1:AA:2384:G:H3'	1:AA:2386:C:P	2.61	0.40
1:AA:2457:U:C4	1:AA:2458:G:C2	3.09	0.40
1:AA:2469:A:N7	1:AA:2470:G:C8	2.88	0.40
1:AA:2496:C:C3'	1:AA:2497:A:C2	3.00	0.40
1:AA:2602:A:N6	56:BD:74:C:O2'	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2634:G:HO2'	1:AA:2635:C:C5'	2.33	0.40
1:AA:2637:U:O2'	1:AA:2638:G:C1'	2.69	0.40
1:AA:2644:G:C6	1:AA:2645:G:N2	2.89	0.40
1:AA:2648:C:C2	1:AA:2649:U:C2	3.08	0.40
1:AA:2660:A:H8	1:AA:2660:A:O5'	2.04	0.40
1:AA:2692:C:C2	1:AA:2693:A:C8	3.09	0.40
1:AA:270(V):G:H5'	1:AA:270(W):G:OP2	2.21	0.40
1:AA:2737:G:C4	1:AA:2738:A:C8	3.09	0.40
1:AA:2821:A:OP2	5:AE:110:GLY:O	2.40	0.40
1:AA:2825:C:N4	1:AA:2826:A:N6	2.69	0.40
1:AA:7:G:O6	1:AA:2896:C:C2	2.73	0.40
1:AA:319:C:C4	1:AA:320:A:C5	3.09	0.40
1:AA:385:C:O2'	1:AA:386:G:H5''	2.21	0.40
1:AA:433:C:H2'	1:AA:434:U:C6	2.56	0.40
1:AA:445:C:O2'	1:AA:449:A:C8	2.74	0.40
1:AA:465:G:C6	1:AA:466:A:C5	3.08	0.40
1:AA:463:G:C2	1:AA:467:G:C5	3.09	0.40
1:AA:491:G:C6	1:AA:492:A:C6	3.09	0.40
1:AA:514:A:H2'	1:AA:515:A:C5'	2.50	0.40
1:AA:564:C:O2'	1:AA:1252:G:N1	2.44	0.40
1:AA:573:G:H22	1:AA:2029:G:H21	1.69	0.40
1:AA:584:C:O2'	1:AA:585:G:H5'	2.21	0.40
1:AA:609(A):G:C5	1:AA:610:C:C5	3.09	0.40
1:AA:612:G:C4'	1:AA:616:A:C6	2.94	0.40
1:AA:629:G:C6	1:AA:630:G:C6	3.09	0.40
1:AA:638:G:H21	1:AA:651:G:H5'	1.86	0.40
1:AA:658:C:C2'	1:AA:659:C:O5'	2.70	0.40
1:AA:678:C:C4	1:AA:679:C:C5	3.09	0.40
1:AA:746:A:C2'	1:AA:747:U:OP2	2.69	0.40
1:AA:730:C:O5'	1:AA:761:A:OP1	2.38	0.40
1:AA:76:C:C2'	1:AA:76:C:O2	2.65	0.40
1:AA:793:A:C2'	1:AA:794:G:OP2	2.69	0.40
1:AA:807:U:O2	1:AA:807:U:C2'	2.69	0.40
1:AA:840:C:O2'	1:AA:841:A:H5'	2.21	0.40
1:AA:932:G:N2	1:AA:933:A:C2	2.89	0.40
1:AA:958:U:H2'	1:AA:959:A:OP2	2.22	0.40
1:AA:967:C:C6	1:AA:967:C:H3'	2.55	0.40
2:AB:63:G:C4	2:AB:64:C:C5	3.09	0.40
3:AC:111:ASP:O	3:AC:136:LEU:CD2	2.69	0.40
3:AC:25:ALA:O	3:AC:26:ALA:C	2.57	0.40
3:AC:52:ARG:CB	3:AC:52:ARG:NH1	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:62:VAL:HG13	3:AC:191:ALA:HB3	2.02	0.40
4:AD:105:ILE:CD1	4:AD:106:ILE:HG23	2.51	0.40
5:AE:111:ARG:N	5:AE:161:GLY:CA	2.57	0.40
5:AE:118:LYS:CA	5:AE:118:LYS:CE	2.85	0.40
5:AE:118:LYS:HD3	5:AE:119:ARG:H	1.85	0.40
5:AE:171:GLU:CD	5:AE:173:VAL:H	2.24	0.40
5:AE:53:PRO:CG	5:AE:75:VAL:CG2	2.86	0.40
6:AF:114:VAL:CG2	6:AF:186:ILE:HD13	2.51	0.40
6:AF:118:ALA:HB1	6:AF:122:LYS:CB	2.49	0.40
7:AG:118:ARG:NH1	7:AG:118:ARG:CB	2.78	0.40
7:AG:55:LYS:HE2	7:AG:148:MET:HB3	2.02	0.40
7:AG:19:LEU:HG	7:AG:22:ARG:NH1	2.29	0.40
7:AG:47:LYS:CG	7:AG:72:ARG:O	2.68	0.40
7:AG:93:THR:CG2	7:AG:93:THR:O	2.66	0.40
8:AH:119:GLU:N	8:AH:121:ILE:CG2	2.83	0.40
8:AH:97:ARG:NH1	8:AH:99:VAL:HG22	2.36	0.40
32:AJ:33:ASN:H	32:AJ:59:ILE:HG22	1.86	0.40
9:AK:126:PRO:HG2	9:AK:128:HIS:ND1	2.36	0.40
9:AK:13:TRP:O	9:AK:136:GLU:OE2	2.39	0.40
10:AL:108:GLU:O	10:AL:109:LYS:CB	2.61	0.40
10:AL:39:ILE:O	10:AL:58:VAL:CA	2.70	0.40
10:AL:54:GLU:OE1	10:AL:54:GLU:HA	2.21	0.40
10:AL:88:ASN:HB2	10:AL:89:ASN:OD1	2.20	0.40
11:AM:113:LYS:HG2	11:AM:114:ILE:H	1.86	0.40
11:AM:124:LYS:HB3	11:AM:143:GLY:CA	2.50	0.40
11:AM:34:GLY:O	11:AM:36:LYS:N	2.54	0.40
13:AO:14:SER:O	13:AO:17:ARG:CG	2.54	0.40
14:AP:32:LEU:C	14:AP:34:HIS:N	2.74	0.40
14:AP:71:ARG:N	14:AP:104:GLY:HA3	2.35	0.40
15:AQ:82:LEU:HD23	15:AQ:82:LEU:HA	1.81	0.40
16:AR:16:LYS:CD	16:AR:17:ILE:HD13	2.52	0.40
16:AR:33:ARG:CZ	16:AR:33:ARG:HB2	2.50	0.40
17:AS:100:ARG:HA	17:AS:100:ARG:NE	2.36	0.40
17:AS:83:ARG:CD	17:AS:84:LYS:N	2.80	0.40
17:AS:15:GLU:O	17:AS:98:GLU:OE1	2.39	0.40
18:AT:12:ILE:HG12	18:AT:101:SER:CB	2.40	0.40
18:AT:78:GLU:OE2	18:AT:99:ARG:C	2.60	0.40
18:AT:98:LYS:C	18:AT:98:LYS:HE2	2.42	0.40
19:AU:20:GLY:C	19:AU:25:LYS:O	2.60	0.40
19:AU:33:LYS:HB2	19:AU:33:LYS:HZ2	1.85	0.40
20:AV:50:ARG:HG3	20:AV:54:LYS:CB	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AV:81:LYS:NZ	20:AV:96:ILE:HG12	2.36	0.40
20:AV:82:PRO:HB2	20:AV:83:THR:H	1.70	0.40
21:AW:18:LEU:HB3	21:AW:23:LYS:HB3	2.03	0.40
21:AW:40:ASP:N	21:AW:44:PHE:CE1	2.89	0.40
21:AW:44:PHE:HB3	21:AW:48:PHE:HE1	1.86	0.40
21:AW:1:MET:CE	21:AW:61:LEU:HG	2.51	0.40
21:AW:78:LYS:CG	21:AW:79:ARG:N	2.82	0.40
24:AZ:2:PRO:O	24:AZ:39:ASP:HB2	2.20	0.40
34:BA:1105:A:O2'	34:BA:1106:G:C5'	2.38	0.40
34:BA:1125:U:OP2	34:BA:1125:U:H4'	2.21	0.40
34:BA:1133:G:C5	34:BA:1134:G:N7	2.89	0.40
34:BA:1167:A:N3	34:BA:1167:A:C2'	2.83	0.40
34:BA:1180:A:O2'	34:BA:1181:G:C5'	2.66	0.40
34:BA:1187:G:C4	34:BA:1188:A:N7	2.89	0.40
34:BA:122:G:H2'	34:BA:123:C:O4'	2.21	0.40
34:BA:1316:G:H5"	47:BR:17:LYS:HZ2	1.81	0.40
34:BA:1318:A:O5'	34:BA:1318:A:H8	2.04	0.40
34:BA:1371:G:C6	34:BA:1372:U:C4	3.08	0.40
34:BA:136:C:O2	34:BA:137:C:C6	2.74	0.40
34:BA:1417:G:H2'	34:BA:1482:G:H21	1.74	0.40
34:BA:1423:G:C6	34:BA:1424:C:C4	3.09	0.40
34:BA:1447:G:C6	34:BA:1460:A:N1	2.88	0.40
34:BA:174:C:C2	34:BA:175:C:H5	2.32	0.40
34:BA:217:C:C4	34:BA:218:C:C4	3.09	0.40
34:BA:246:A:H1'	34:BA:247:G:C1'	2.48	0.40
34:BA:253:U:O4'	34:BA:276:G:H1'	2.21	0.40
34:BA:323:U:O4	34:BA:324:G:N3	2.54	0.40
34:BA:386:C:N4	34:BA:387:U:C4	2.89	0.40
34:BA:398:C:H2'	34:BA:399:G:C8	2.56	0.40
34:BA:403:C:H2'	34:BA:404:U:C6	2.55	0.40
34:BA:454:C:H3'	34:BA:455:C:H6	1.83	0.40
34:BA:520:A:H3'	34:BA:520:A:C8	2.56	0.40
34:BA:521:G:P	45:BP:54:LYS:NZ	2.95	0.40
34:BA:52:G:O2'	34:BA:53:A:C5'	2.68	0.40
34:BA:22:G:OP2	34:BA:561:U:O2	2.39	0.40
34:BA:582:U:H2'	34:BA:583:A:O5'	2.21	0.40
34:BA:592:G:C6	34:BA:648:A:N6	2.89	0.40
34:BA:634:C:H2'	34:BA:635:G:H8	1.86	0.40
34:BA:712:A:H2'	34:BA:713:G:O4'	2.21	0.40
34:BA:867:G:C2	34:BA:868:C:C5	3.09	0.40
34:BA:894:G:C6	34:BA:895:G:N7	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:979:C:OP2	34:BA:980:C:N4	2.54	0.40
56:BE:40:C:H2'	56:BE:41:C:C6	2.56	0.40
56:BE:73:A:O2'	56:BE:74:C:C4	2.69	0.40
35:BF:49:GLU:O	35:BF:52:GLU:OE2	2.39	0.40
35:BF:62:ALA:CB	35:BF:225:ALA:HB3	2.51	0.40
36:BG:126:ARG:C	36:BG:127:ARG:HG3	2.41	0.40
36:BG:143:GLU:C	36:BG:145:GLY:N	2.72	0.40
36:BG:8:ILE:O	36:BG:9:GLY:C	2.59	0.40
37:BH:101:LEU:HG	37:BH:102:ASP:N	2.35	0.40
37:BH:8:VAL:HG12	37:BH:11:LEU:HD12	2.03	0.40
37:BH:198:VAL:HG23	37:BH:199:ASN:N	2.25	0.40
37:BH:20:TYR:CD2	37:BH:27:TYR:CD2	3.09	0.40
34:BA:1081:G:OP1	38:BI:18:ARG:CB	2.68	0.40
38:BI:33:VAL:C	38:BI:34:VAL:CG2	2.87	0.40
38:BI:72:GLN:NE2	38:BI:144:THR:CA	2.83	0.40
38:BI:82:VAL:O	38:BI:82:VAL:HG13	2.21	0.40
38:BI:95:ALA:HB3	38:BI:96:PRO:HD3	2.03	0.40
41:BL:81:HIS:CD2	41:BL:138:TRP:O	2.74	0.40
41:BL:39:LEU:HB3	41:BL:40:ALA:H	1.75	0.40
41:BL:6:ILE:HD12	41:BL:85:ARG:CD	2.51	0.40
45:BP:109:GLY:O	45:BP:111:LYS:N	2.54	0.40
34:BA:1226:C:C5	46:BQ:104:ARG:HA	2.50	0.40
46:BQ:37:THR:CG2	46:BQ:39:ILE:CG1	2.97	0.40
46:BQ:64:TRP:HE1	46:BQ:66:LEU:HD22	1.80	0.40
48:BS:40:SER:O	48:BS:41:GLU:C	2.58	0.40
49:BT:32:TYR:O	49:BT:34:GLU:N	2.54	0.40
49:BT:74:LEU:HD23	49:BT:74:LEU:HA	1.82	0.40
51:BV:50:ILE:HG22	51:BV:50:ILE:O	2.20	0.40
47:BR:16:PHE:CZ	52:BW:14:HIS:HE2	1.78	0.40
52:BW:17:GLU:HG3	52:BW:18:LYS:H	1.86	0.40
34:BA:195:A:P	53:BX:68:LYS:HZ1	2.44	0.40
57:BZ:51:GLU:CD	57:BZ:52:ARG:N	2.75	0.40
57:BZ:581:THR:C	57:BZ:583:THR:H	2.24	0.40
57:BZ:83:GLY:O	57:BZ:85:VAL:HG23	2.21	0.40
56:BD:2:C:C4	56:BD:3:C:N4	2.89	0.40
56:BD:51:U:C4	56:BD:64:A:C2	3.07	0.40
57:BZ:541:LYS:HG3	57:BZ:542:LYS:HB3	1.97	0.40
57:BZ:34:SER:O	57:BZ:35:ARG:HB3	2.21	0.40
1:AA:363(C):G:HO2'	1:AA:363(D):G:H5'	1.84	0.40
4:AD:276:LYS:HD2	4:AD:276:LYS:OXT	2.21	0.40
1:AA:1031:G:C6	1:AA:1032:A:N7	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1043:C:C3'	1:AA:1043:C:C6	3.03	0.40
1:AA:1073:A:O3'	1:AA:1074:G:P	2.79	0.40
1:AA:1157:G:C2	1:AA:1158:C:C2	3.09	0.40
1:AA:1186:G:C8	1:AA:1187:G:N7	2.87	0.40
1:AA:974:G:H1'	1:AA:1186:G:C8	2.56	0.40
1:AA:1338:G:N3	1:AA:1393:A:H2	2.19	0.40
1:AA:1403:C:C2'	1:AA:1404:C:O5'	2.70	0.40
1:AA:1672:C:O2	1:AA:2582:G:O4'	2.38	0.40
1:AA:1817:G:H2'	1:AA:1818:U:H5'	1.99	0.40
1:AA:1847:A:O2'	1:AA:1848:A:N7	2.55	0.40
1:AA:1911:U:C2'	1:AA:1912:A:H5''	2.51	0.40
1:AA:1940:U:H4'	1:AA:1941:C:OP1	2.21	0.40
1:AA:2000:G:C6	1:AA:2001:A:N7	2.89	0.40
1:AA:2147:G:C2	1:AA:2148:G:H4'	2.55	0.40
1:AA:2173:A:C2	1:AA:2174:C:H1'	2.55	0.40
1:AA:2181:G:N2	1:AA:2182:G:N2	2.61	0.40
1:AA:2280:G:C6	1:AA:2281:C:N4	2.88	0.40
1:AA:2578:G:N7	5:AE:140:SER:CB	2.84	0.40
1:AA:2618:G:C4	1:AA:2619:C:C5	3.10	0.40
1:AA:2627:G:O2'	1:AA:2628:C:H5'	2.20	0.40
1:AA:2639:A:N3	1:AA:2778:A:C2	2.89	0.40
1:AA:2718:G:O3'	15:AQ:101:PHE:HD1	2.03	0.40
1:AA:2744:G:C6	1:AA:2761:G:C6	3.10	0.40
1:AA:2782:G:C2	1:AA:2783:G:C5	3.10	0.40
1:AA:283:A:OP1	1:AA:283:A:H3'	2.20	0.40
1:AA:2841:C:C2'	1:AA:2842:G:C8	2.87	0.40
1:AA:2844:G:C2'	1:AA:2844:G:N3	2.81	0.40
1:AA:292:C:N4	1:AA:346:A:H62	2.19	0.40
1:AA:298:G:H1	1:AA:338:G:C4'	2.34	0.40
1:AA:322:A:H1'	1:AA:341:G:C8	2.57	0.40
1:AA:298:G:N1	1:AA:338:G:H4'	2.37	0.40
1:AA:431:U:C6	1:AA:431:U:O5'	2.75	0.40
1:AA:454:A:O3'	1:AA:455:C:O4'	2.38	0.40
1:AA:447:A:C2	1:AA:473:G:C8	3.09	0.40
1:AA:475:U:C6	1:AA:509:C:C4	3.09	0.40
1:AA:496:G:C6	1:AA:497:A:C6	3.09	0.40
1:AA:506:G:OP2	1:AA:506:G:O4'	2.40	0.40
1:AA:630:G:H2'	1:AA:631:A:O5'	2.21	0.40
1:AA:723:G:C2	1:AA:724:U:N1	2.90	0.40
1:AA:728:G:C2'	1:AA:729:G:H8	2.34	0.40
1:AA:733:G:N7	1:AA:761:A:C5	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:750:A:C2'	1:AA:751:A:H5''	2.51	0.40
1:AA:754:C:C6	1:AA:754:C:O5'	2.74	0.40
1:AA:763:G:C5'	4:AD:211:ARG:CZ	2.98	0.40
1:AA:776:G:H1'	1:AA:793:A:C2	2.56	0.40
1:AA:838:C:O2'	1:AA:839:U:C5'	2.69	0.40
1:AA:881:G:C5	1:AA:896:A:N1	2.80	0.40
1:AA:92:G:H3'	1:AA:92:G:OP2	2.21	0.40
1:AA:87:C:N4	1:AA:96:G:C6	2.89	0.40
2:AB:73:A:C6	2:AB:104:A:H1'	2.55	0.40
2:AB:65:C:C4	2:AB:108:C:C5	3.09	0.40
3:AC:39:GLU:OE2	3:AC:220:PRO:CD	2.69	0.40
4:AD:12:SER:HB2	4:AD:14:ARG:NH2	2.34	0.40
4:AD:131:LEU:HG	4:AD:135:PHE:HD2	1.78	0.40
1:AA:2216:G:N2	4:AD:150:LYS:HZ3	2.18	0.40
4:AD:232:PRO:CG	4:AD:246:PRO:O	2.68	0.40
4:AD:183:ARG:NH2	4:AD:268:ARG:NH1	2.68	0.40
4:AD:33:LEU:HD11	4:AD:61:LEU:CD1	2.52	0.40
4:AD:68:LYS:HG2	4:AD:152:GLY:HA2	2.03	0.40
5:AE:111:ARG:CA	5:AE:161:GLY:HA3	2.49	0.40
5:AE:100:GLU:C	5:AE:172:VAL:HG13	2.39	0.40
5:AE:48:GLN:C	5:AE:77:ILE:HG13	2.42	0.40
5:AE:91:VAL:CG2	5:AE:180:ASN:ND2	2.82	0.40
6:AF:106:ARG:CG	6:AF:107:LYS:HG3	2.49	0.40
6:AF:124:LEU:HD21	6:AF:201:VAL:CG2	2.52	0.40
6:AF:46:ARG:HA	6:AF:46:ARG:CZ	2.52	0.40
6:AF:75:HIS:CE1	6:AF:77:ASP:O	2.75	0.40
7:AG:115:ARG:C	7:AG:117:PHE:H	2.25	0.40
7:AG:153:ARG:HA	7:AG:155:MET:SD	2.61	0.40
7:AG:34:LEU:HD12	7:AG:34:LEU:H	1.85	0.40
7:AG:38:VAL:O	7:AG:157:ILE:CG1	2.70	0.40
7:AG:54:GLU:CD	7:AG:70:VAL:HG22	2.41	0.40
8:AH:133:VAL:CG2	8:AH:134:SER:N	2.83	0.40
8:AH:98:LEU:C	8:AH:98:LEU:HD23	2.42	0.40
32:AJ:103:GLN:HG2	32:AJ:107:ILE:CD1	2.47	0.40
9:AK:100:GLU:O	9:AK:103:VAL:N	2.54	0.40
10:AL:2:ILE:HG12	10:AL:32:TYR:HD1	1.86	0.40
1:AA:1667:G:O5'	10:AL:7:TYR:CZ	2.74	0.40
10:AL:94:ARG:HG2	10:AL:96:THR:N	2.35	0.40
11:AM:112:LEU:HB2	11:AM:128:HIS:CE1	2.56	0.40
6:AF:31:HIS:ND1	11:AM:11:GLY:N	2.69	0.40
11:AM:130:PHE:O	11:AM:131:SER:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:833:U:O2'	11:AM:49:ARG:HD3	2.20	0.40
12:AN:47:ILE:C	12:AN:49:ALA:N	2.74	0.40
13:AO:13:HIS:C	13:AO:13:HIS:ND1	2.74	0.40
14:AP:28:VAL:CG2	14:AP:101:LEU:HG	2.51	0.40
14:AP:38:GLN:NE2	14:AP:47:THR:HG21	2.36	0.40
2:AB:9:G:C4'	14:AP:43:GLU:OE2	2.62	0.40
16:AR:111:GLU:O	16:AR:114:LYS:HE3	2.20	0.40
16:AR:44:ASN:HA	16:AR:47:TYR:CG	2.56	0.40
17:AS:25:LEU:HD23	17:AS:28:GLU:HB2	2.02	0.40
18:AT:6:ILE:CA	18:AT:103:ILE:O	2.67	0.40
18:AT:32:ALA:O	18:AT:35:ILE:CG2	2.69	0.40
19:AU:31:HIS:O	19:AU:32:PRO:C	2.59	0.40
19:AU:25:LYS:HA	19:AU:82:GLN:HA	2.03	0.40
20:AV:13:VAL:N	20:AV:73:ARG:CZ	2.83	0.40
21:AW:14:LYS:N	21:AW:14:LYS:HD3	2.36	0.40
21:AW:51:ALA:O	21:AW:53:ILE:C	2.60	0.40
21:AW:63:ASP:OD1	21:AW:64:GLY:N	2.53	0.40
21:AW:6:LYS:HA	21:AW:37:VAL:HA	2.04	0.40
21:AW:71:VAL:HG22	21:AW:88:PHE:CD2	2.56	0.40
22:AX:27:GLU:HA	22:AX:69:PHE:CE1	2.56	0.40
23:AY:33:GLN:NE2	23:AY:33:GLN:CA	2.85	0.40
34:BA:1102:A:N1	34:BA:1103:C:C4	2.88	0.40
34:BA:1181:G:O2'	34:BA:1182:G:H5'	2.20	0.40
34:BA:1049:U:O2	34:BA:1201:A:H1'	2.21	0.40
34:BA:1210:C:C4'	34:BA:1214:C:H42	2.33	0.40
34:BA:1277:C:C5	34:BA:1278:U:O2	2.74	0.40
34:BA:1331:G:OP1	34:BA:1331:G:O4'	2.40	0.40
34:BA:934:C:H5	34:BA:1344:C:C2	2.39	0.40
34:BA:971:G:C8	34:BA:1365:G:H4'	2.56	0.40
34:BA:1422:G:N1	34:BA:1423:G:C6	2.89	0.40
34:BA:1434:A:C8	34:BA:1435:G:C8	3.10	0.40
34:BA:1465:C:C6	34:BA:1465:C:O5'	2.70	0.40
34:BA:173:U:H5''	34:BA:197:A:C1'	2.49	0.40
34:BA:266:G:O2'	34:BA:268:C:OP2	2.30	0.40
34:BA:392:G:C4	34:BA:393:A:C8	3.08	0.40
34:BA:401:C:OP2	37:BH:73:ARG:CZ	2.69	0.40
34:BA:475:G:C4	34:BA:476:G:N7	2.89	0.40
34:BA:477:G:C2	34:BA:478:A:C4	3.09	0.40
34:BA:563:A:H3'	45:BP:15:ARG:CZ	2.51	0.40
34:BA:570:G:N2	34:BA:873:A:H61	2.18	0.40
34:BA:573:A:C2	34:BA:574:A:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:602:A:C6	34:BA:603:U:C4	3.10	0.40
34:BA:650:G:C2	34:BA:651:C:C6	3.09	0.40
34:BA:654:G:O6	34:BA:655:A:C2	2.74	0.40
34:BA:687:A:O2'	34:BA:688:G:OP2	2.38	0.40
34:BA:901:A:H2	34:BA:902:G:O2'	2.04	0.40
34:BA:908:A:N3	34:BA:909:A:N7	2.67	0.40
34:BA:942:G:H21	42:BM:124:GLN:CD	2.23	0.40
34:BA:93:U:O2	34:BA:95:G:N7	2.54	0.40
34:BA:951:G:C2'	34:BA:970:C:O2'	2.68	0.40
34:BA:972:C:C2'	34:BA:972:C:O2	2.68	0.40
56:BE:41:C:O2	56:BE:41:C:C2'	2.69	0.40
35:BF:106:LYS:O	35:BF:106:LYS:HG2	2.22	0.40
35:BF:144:ARG:O	35:BF:145:LEU:C	2.60	0.40
35:BF:157:ARG:O	35:BF:158:LEU:CG	2.68	0.40
35:BF:80:ILE:CG1	35:BF:208:ILE:HD13	2.52	0.40
35:BF:90:MET:SD	35:BF:91:PRO:CD	3.01	0.40
36:BG:117:ALA:O	36:BG:121:ALA:CB	2.69	0.40
36:BG:120:VAL:HG13	36:BG:133:ALA:HB1	2.00	0.40
37:BH:13:ARG:HA	37:BH:32:ALA:HB2	2.02	0.40
37:BH:187:ARG:NH2	37:BH:188:LEU:HD21	2.37	0.40
38:BI:23:GLY:HA3	38:BI:25:ARG:CZ	2.45	0.40
38:BI:43:LEU:HB3	38:BI:136:MET:HE1	2.01	0.40
38:BI:45:PHE:HE1	38:BI:47:LYS:CD	2.33	0.40
39:BJ:24:GLU:O	39:BJ:25:ILE:C	2.60	0.40
39:BJ:29:ALA:O	39:BJ:32:ASN:N	2.54	0.40
39:BJ:45:LEU:HA	39:BJ:59:TYR:HA	2.03	0.40
39:BJ:1:MET:HE1	39:BJ:68:PRO:HG3	1.99	0.40
39:BJ:85:VAL:HG11	39:BJ:88:VAL:CG1	2.42	0.40
40:BK:51:GLN:HE22	40:BK:58:PRO:CD	2.33	0.40
40:BK:69:VAL:HA	40:BK:135:VAL:HG13	2.02	0.40
41:BL:39:LEU:HD12	41:BL:44:PHE:HB2	2.04	0.40
42:BM:121:ARG:CG	42:BM:121:ARG:NH1	2.81	0.40
42:BM:33:PHE:HB3	42:BM:34:ASN:H	1.71	0.40
42:BM:15:ALA:HA	42:BM:65:VAL:HG23	2.03	0.40
42:BM:6:GLY:CA	42:BM:80:GLY:O	2.60	0.40
44:BO:21:ILE:HD11	44:BO:82:VAL:HG11	2.03	0.40
44:BO:33:THR:CA	44:BO:38:ASN:O	2.68	0.40
44:BO:60:ALA:O	44:BO:61:ALA:C	2.58	0.40
44:BO:73:MET:C	44:BO:75:TYR:N	2.73	0.40
44:BO:79:SER:HA	44:BO:104:GLN:CB	2.51	0.40
45:BP:88:GLY:C	45:BP:89:ARG:O	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:11:ARG:C	46:BQ:13:LYS:N	2.74	0.40
46:BQ:66:LEU:N	46:BQ:70:LEU:HA	2.35	0.40
48:BS:35:ARG:O	48:BS:36:ILE:C	2.58	0.40
48:BS:39:LEU:C	48:BS:39:LEU:CD2	2.89	0.40
50:BU:29:HIS:CG	50:BU:30:PRO:CD	3.04	0.40
52:BW:44:MET:O	52:BW:62:ILE:HD13	2.20	0.40
53:BX:53:LEU:HB2	53:BX:100:ILE:CD1	2.50	0.40
57:BZ:91:MET:HE3	57:BZ:225:ARG:HA	1.87	0.40
57:BZ:26:LEU:HA	57:BZ:29:SER:HB2	2.03	0.40
57:BZ:405:LEU:HD12	57:BZ:405:LEU:HA	1.79	0.40
57:BZ:543:LEU:CG	57:BZ:544:THR:CG2	2.86	0.40
57:BZ:564:THR:OG1	57:BZ:567:GLN:CB	2.69	0.40
57:BZ:72:ILE:HG22	57:BZ:73:VAL:N	2.37	0.40
1:AA:886:C:C6	1:AA:886:C:C3'	3.04	0.40
20:AV:41:GLY:C	20:AV:42:VAL:HG22	2.40	0.40
1:AA:1510:A:N3	1:AA:1511:A:H2	2.17	0.40
14:AP:59:LYS:HD3	14:AP:59:LYS:H	1.86	0.40
1:AA:1766:U:HO2'	1:AA:1767:C:H5'	1.81	0.40
57:BZ:99:VAL:HG13	57:BZ:105:PRO:HA	2.02	0.40
34:BA:1540:U:O5'	34:BA:1540:U:H6	2.04	0.40
1:AA:1036:G:C6	1:AA:1037:G:N7	2.90	0.40
1:AA:1062:G:H1'	1:AA:1063:G:OP1	2.21	0.40
1:AA:1034:G:C4	1:AA:1122:G:C6	3.07	0.40
1:AA:119:A:C2'	1:AA:120:U:OP2	2.69	0.40
1:AA:1323:U:C5	1:AA:1324:G:N7	2.89	0.40
1:AA:1328:G:O2'	1:AA:1329:U:H5''	2.21	0.40
1:AA:1356:G:C5	1:AA:1357:U:C5	3.08	0.40
1:AA:1368:G:H2'	1:AA:1369:G:O5'	2.21	0.40
1:AA:1395:A:C6	1:AA:1398:C:C2	3.09	0.40
1:AA:1450:C:C2'	1:AA:1451:C:H4'	2.48	0.40
1:AA:150:C:N3	1:AA:176:G:N2	2.59	0.40
1:AA:1648:C:O2	1:AA:1648:C:H2'	2.20	0.40
1:AA:1649:G:N1	1:AA:1650:G:N7	2.69	0.40
1:AA:1728:G:C2'	1:AA:1728:G:N3	2.81	0.40
1:AA:1750:G:C4	1:AA:1751:C:C5	3.09	0.40
1:AA:1363:C:C1'	1:AA:1810:A:H1'	2.49	0.40
1:AA:1919:A:O2'	1:AA:1920:C:P	2.79	0.40
1:AA:1906:G:O4'	1:AA:1929:G:N7	2.54	0.40
1:AA:2020:A:P	16:AR:27:LEU:HD22	2.62	0.40
1:AA:2023:G:N2	1:AA:2041:U:C2	2.90	0.40
1:AA:2045:C:O2'	1:AA:2046:G:C5'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2056:G:N3	1:AA:2056:G:C2'	2.79	0.40
1:AA:2091:U:C2'	1:AA:2092:U:OP1	2.69	0.40
1:AA:219:G:O2'	1:AA:220:G:H5'	2.22	0.40
1:AA:225:A:N6	1:AA:226:G:N1	2.70	0.40
1:AA:2280:G:N3	1:AA:2281:C:C5	2.89	0.40
1:AA:2304:G:P	7:AG:132:ASN:ND2	2.95	0.40
1:AA:2323:G:N3	1:AA:2324:C:C5	2.88	0.40
1:AA:239:U:C2'	1:AA:240:G:O4'	2.63	0.40
1:AA:2485:G:H5''	12:AN:46:GLN:OE1	2.21	0.40
1:AA:246:C:N4	1:AA:252:G:C6	2.83	0.40
1:AA:2571:C:H2'	1:AA:2572:A:OP1	2.22	0.40
1:AA:2578:G:O2'	1:AA:2579:C:P	2.79	0.40
1:AA:2580:U:C5	1:AA:2581:G:N7	2.90	0.40
1:AA:2624:G:H3'	1:AA:2625:G:H5''	2.02	0.40
1:AA:2651:C:N3	1:AA:2652:C:C5	2.89	0.40
1:AA:2690:C:N4	13:AO:14:SER:CB	2.84	0.40
1:AA:270(G):C:C2'	1:AA:270(G):C:O2	2.69	0.40
1:AA:270(R):G:N2	1:AA:270(S):G:C4	2.89	0.40
1:AA:270(Z):U:H3	1:AA:271(C):U:C1'	2.35	0.40
1:AA:282:A:C2	1:AA:283:A:O3'	2.75	0.40
1:AA:291:C:N4	1:AA:292:C:C4	2.90	0.40
1:AA:310:A:C2	1:AA:312:G:H1'	2.56	0.40
1:AA:355:G:O6	1:AA:356:G:O6	2.39	0.40
1:AA:479:A:OP2	1:AA:479:A:O4'	2.39	0.40
1:AA:572:A:N7	1:AA:573:G:N1	2.69	0.40
1:AA:594:U:N3	1:AA:595:C:N4	2.69	0.40
1:AA:623:G:N7	1:AA:624:C:C5	2.89	0.40
1:AA:624:C:C4'	1:AA:624:C:H6	2.34	0.40
1:AA:691:C:C2'	1:AA:692:C:H5'	2.51	0.40
1:AA:703:U:O4	1:AA:730:C:N4	2.54	0.40
1:AA:710:G:H2'	1:AA:711:G:C8	2.56	0.40
1:AA:705:A:N6	1:AA:727:A:C1'	2.84	0.40
1:AA:747:U:C2'	1:AA:748:G:OP1	2.70	0.40
1:AA:771:G:N2	1:AA:772:C:C2	2.89	0.40
1:AA:796:C:H2'	1:AA:797:C:C6	2.55	0.40
1:AA:196:A:C2	1:AA:828:U:H5''	2.50	0.40
1:AA:838:C:O2'	1:AA:839:U:H5'	2.21	0.40
1:AA:930:U:C3'	1:AA:930:U:C6	3.05	0.40
1:AA:988:A:O2'	1:AA:1157:G:H4'	2.21	0.40
2:AB:9:G:N1	2:AB:10:C:N4	2.69	0.40
2:AB:18:G:H2'	2:AB:19:G:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:96:G:N3	2:AB:97:G:C8	2.90	0.40
3:AC:104:LEU:HD13	3:AC:130:ILE:CG1	2.51	0.40
3:AC:113:VAL:CG2	3:AC:136:LEU:O	2.69	0.40
3:AC:119:VAL:HG23	3:AC:123:VAL:CG2	2.52	0.40
3:AC:100:ILE:CG2	3:AC:126:LYS:HE2	2.51	0.40
3:AC:160:ARG:C	3:AC:161:ILE:HG23	2.42	0.40
3:AC:65:PRO:CD	3:AC:187:ASP:OD2	2.68	0.40
4:AD:57:GLY:O	4:AD:58:HIS:CB	2.69	0.40
4:AD:5:LYS:HA	4:AD:28:GLU:CA	2.52	0.40
5:AE:119:ARG:HE	5:AE:120:TRP:CA	2.33	0.40
5:AE:100:GLU:N	5:AE:172:VAL:HG22	2.35	0.40
1:AA:2810:A:HO2'	5:AE:61:ARG:NH2	2.17	0.40
6:AF:140:LEU:O	6:AF:141:ALA:C	2.58	0.40
6:AF:33:LEU:O	6:AF:34:TRP:C	2.60	0.40
6:AF:34:TRP:HB3	6:AF:38:ARG:NH2	2.31	0.40
7:AG:131:TYR:CE1	7:AG:132:ASN:HA	2.57	0.40
7:AG:133:LEU:HA	7:AG:133:LEU:HD13	1.93	0.40
7:AG:54:GLU:OE1	7:AG:70:VAL:HG22	2.22	0.40
8:AH:58:GLU:O	8:AH:62:LYS:HD2	2.22	0.40
1:AA:1046:A:N6	31:AI:9:LEU:O	2.53	0.40
32:AJ:51:ALA:O	32:AJ:73:PRO:HD2	2.20	0.40
9:AK:93:THR:CG2	9:AK:94:HIS:CD2	2.99	0.40
10:AL:21:CYS:SG	10:AL:23:ARG:N	2.94	0.40
11:AM:15:ARG:NH2	11:AM:16:ARG:CB	2.77	0.40
11:AM:97:PRO:C	11:AM:99:LEU:N	2.74	0.40
13:AO:5:LYS:CE	13:AO:5:LYS:C	2.90	0.40
14:AP:81:GLY:C	14:AP:82:ILE:HG12	2.40	0.40
16:AR:94:ASN:C	16:AR:96:ALA:N	2.73	0.40
20:AV:14:LEU:CD1	20:AV:14:LEU:N	2.80	0.40
21:AW:158:PRO:O	21:AW:161:VAL:HG22	2.21	0.40
21:AW:10:ARG:NH1	21:AW:36:LYS:H	2.17	0.40
1:AA:2354:G:H21	22:AX:39:ARG:NH2	2.20	0.40
22:AX:53:MET:SD	22:AX:59:LEU:CD2	3.09	0.40
22:AX:74:ARG:C	22:AX:76:GLY:N	2.71	0.40
23:AY:14:VAL:HG13	23:AY:18:LYS:HZ1	1.86	0.40
23:AY:51:GLN:HA	23:AY:54:ARG:CZ	2.51	0.40
24:AZ:17:LYS:O	24:AZ:20:LYS:N	2.54	0.40
24:AZ:28:LEU:CD2	24:AZ:28:LEU:N	2.66	0.40
24:AZ:10:LYS:HD2	24:AZ:31:LEU:HD11	2.03	0.40
34:BA:1025:U:C2'	34:BA:1026:G:C8	3.04	0.40
34:BA:1056:U:C2'	34:BA:1056:U:O2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1144:G:N1	34:BA:1145:C:C2	2.89	0.40
34:BA:1221:G:H8	52:BW:54:GLY:HA2	1.74	0.40
34:BA:1317:C:C2'	34:BA:1318:A:O4'	2.69	0.40
34:BA:1363:A:H4'	34:BA:1364:U:O5'	2.21	0.40
34:BA:1367:C:OP2	42:BM:115:GLY:HA2	2.21	0.40
34:BA:1376:U:O2	34:BA:1377:A:C5	2.74	0.40
34:BA:1466:C:O5'	34:BA:1466:C:H6	2.04	0.40
34:BA:1415:G:O6	34:BA:1486:G:C6	2.52	0.40
34:BA:149:A:C2	34:BA:150:C:N3	2.89	0.40
34:BA:247:G:C6	34:BA:278:G:C2	3.09	0.40
34:BA:260:G:N3	34:BA:261:U:O2	2.54	0.40
34:BA:31:G:H5''	34:BA:32:A:OP2	2.22	0.40
34:BA:433:C:H6	34:BA:433:C:O5'	2.04	0.40
34:BA:452:A:N6	34:BA:480:U:N3	2.70	0.40
34:BA:586:C:H2'	34:BA:587:G:O4'	2.22	0.40
34:BA:641:U:O2'	34:BA:642:A:N7	2.50	0.40
34:BA:692:U:H2'	34:BA:693:G:OP2	2.21	0.40
34:BA:660:G:O6	34:BA:746:A:N6	2.54	0.40
34:BA:828:A:H5''	34:BA:859:A:N1	2.37	0.40
34:BA:910:C:H6	34:BA:910:C:O5'	2.05	0.40
34:BA:938:A:C2	34:BA:939:G:N9	2.89	0.40
35:BF:118:LEU:HD22	35:BF:142:LEU:HD13	2.02	0.40
35:BF:171:ALA:HA	35:BF:174:VAL:CG2	2.51	0.40
35:BF:187:LEU:CD2	35:BF:188:ALA:N	2.76	0.40
35:BF:223:ILE:HA	35:BF:226:ARG:HE	1.86	0.40
36:BG:43:LEU:CD2	36:BG:44:GLU:N	2.84	0.40
37:BH:4:TYR:CE1	37:BH:5:ILE:O	2.74	0.40
39:BJ:56:PRO:HD2	39:BJ:57:GLN:OE1	2.21	0.40
39:BJ:96:PRO:O	39:BJ:97:PHE:CB	2.60	0.40
34:BA:932:C:H5''	40:BK:3:ARG:HG3	2.03	0.40
41:BL:46:LYS:HG3	41:BL:64:LYS:CG	2.51	0.40
42:BM:48:GLU:HB3	42:BM:78:LYS:CE	2.51	0.40
45:BP:84:LEU:CA	45:BP:104:VAL:HG11	2.50	0.40
46:BQ:19:LEU:HD21	46:BQ:30:ALA:HA	2.02	0.40
47:BR:22:THR:O	47:BR:23:ARG:CG	2.68	0.40
47:BR:41:ARG:HG3	47:BR:42:ILE:N	2.35	0.40
50:BU:15:MET:HB3	50:BU:18:THR:OG1	2.22	0.40
50:BU:40:LYS:CB	50:BU:40:LYS:NZ	2.71	0.40
44:BO:84:VAL:HG11	51:BV:88:LYS:HD3	2.03	0.40
52:BW:64:GLU:CG	52:BW:65:ASN:H	2.33	0.40
52:BW:66:MET:O	52:BW:69:HIS:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:13:LEU:O	53:BX:16:HIS:N	2.54	0.40
53:BX:36:LEU:HA	53:BX:36:LEU:HD23	1.47	0.40
34:BA:186(A):C:O4'	53:BX:85:MET:SD	2.79	0.40
57:BZ:171:ILE:HG12	57:BZ:182:ASP:O	2.22	0.40
57:BZ:188:GLN:C	57:BZ:190:ILE:N	2.75	0.40
57:BZ:405:LEU:HB2	57:BZ:455:PHE:HZ	1.85	0.40
57:BZ:547:ARG:CB	57:BZ:548:ALA:CB	2.80	0.40
57:BZ:73:VAL:HG22	57:BZ:92:VAL:HG11	2.02	0.40
56:BD:59:U:C4	56:BD:60:U:C4	3.09	0.40
37:BH:191:ARG:HD3	37:BH:192:GLU:HA	2.03	0.40
14:AP:54:LEU:O	14:AP:56:LEU:HD22	2.21	0.40
1:AA:363(D):G:N2	1:AA:363(E):U:H1'	2.36	0.40
34:BA:1029:G:N2	34:BA:1031:G:O5'	2.55	0.40
1:AA:1562:A:H2'	1:AA:1563:G:H8	1.85	0.40
21:AW:112:ARG:HG2	21:AW:112:ARG:O	2.22	0.40
1:AA:1222:C:N3	1:AA:1223:C:C6	2.90	0.40
1:AA:122:G:OP1	1:AA:149:A:O2'	2.39	0.40
1:AA:1267:U:H3'	1:AA:1267:U:H6	1.83	0.40
1:AA:128:C:N4	1:AA:129:C:N4	2.69	0.40
1:AA:1359:A:C6	1:AA:1360:A:C8	3.09	0.40
1:AA:1370:C:H2'	1:AA:1371:G:H5'	2.04	0.40
1:AA:1453:A:C5	13:AO:77:ARG:HD3	2.56	0.40
1:AA:1454:U:H5'	1:AA:1455:G:P	2.58	0.40
1:AA:1495:A:P	1:AA:1496:A:OP2	2.79	0.40
1:AA:1603:A:N1	1:AA:1604:C:C4	2.89	0.40
1:AA:1609:A:H3'	1:AA:1609:A:N3	2.36	0.40
1:AA:164:U:H2'	1:AA:172:C:H1'	2.02	0.40
1:AA:1661:G:C5	1:AA:2000:G:C2	3.09	0.40
1:AA:1689:A:C6	1:AA:1700:A:N3	2.89	0.40
1:AA:1764:G:C2'	1:AA:1765:C:C5'	3.00	0.40
1:AA:1794:U:O4'	1:AA:1900:A:C6	2.75	0.40
1:AA:1839:G:O6	1:AA:1927:A:N1	2.50	0.40
1:AA:1838:C:C4	1:AA:1899:G:C6	3.10	0.40
1:AA:1906:G:OP1	1:AA:1906:G:H4'	2.21	0.40
1:AA:1935:G:H3'	1:AA:1962:C:N4	2.26	0.40
1:AA:1971:A:H8	1:AA:1971:A:C3'	2.16	0.40
1:AA:1975:G:C2	1:AA:1976:U:C2	3.10	0.40
1:AA:200:U:C5	1:AA:201:C:C1'	3.05	0.40
1:AA:2026:C:O2	1:AA:2027:G:O4'	2.38	0.40
1:AA:2091:U:C3'	1:AA:2092:U:C5'	3.00	0.40
1:AA:2207:C:C3'	1:AA:2208:U:C5'	2.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2262:U:C4'	1:AA:2328:A:C2	2.97	0.40
1:AA:2259:G:C4	1:AA:2427:C:N4	2.90	0.40
1:AA:2431:U:O2	1:AA:2433:A:C2	2.75	0.40
1:AA:247:G:H8	1:AA:247:G:O5'	2.04	0.40
1:AA:2489:G:C6	1:AA:2490:G:C6	3.10	0.40
1:AA:2519:U:C4'	1:AA:2520:C:OP1	2.68	0.40
1:AA:2564:A:N1	1:AA:2647:U:H4'	2.35	0.40
1:AA:2568:C:O5'	1:AA:2568:C:C6	2.75	0.40
1:AA:2589:A:N1	1:AA:2606:C:N4	2.70	0.40
1:AA:2596:U:C5	1:AA:2597:G:C6	3.10	0.40
1:AA:2049:G:N2	1:AA:2620:C:C1'	2.85	0.40
1:AA:2789:C:O2'	1:AA:2791:C:C4'	2.68	0.40
1:AA:2792:G:N1	1:AA:2793:G:C5	2.89	0.40
1:AA:2843:G:N3	1:AA:2844:G:C8	2.90	0.40
1:AA:7:G:C5	1:AA:2896:C:C2	3.08	0.40
1:AA:2:G:C5	1:AA:2902:C:C2	2.64	0.40
1:AA:325:G:C3'	1:AA:325:G:C8	3.04	0.40
1:AA:311:A:C1'	1:AA:332:A:C6	3.04	0.40
1:AA:348:G:H2'	1:AA:349:G:C8	2.48	0.40
1:AA:385:C:H2'	1:AA:385:C:O2	2.21	0.40
1:AA:479:A:C1'	1:AA:480:A:C8	2.92	0.40
1:AA:544:C:C2'	1:AA:545:G:H5'	2.52	0.40
1:AA:569:U:OP2	1:AA:945:A:N6	2.54	0.40
1:AA:592:G:C5'	1:AA:593:G:OP2	2.59	0.40
1:AA:612:G:H2'	1:AA:615:G:H2'	2.04	0.40
1:AA:650:C:H2'	1:AA:651:G:O5'	2.21	0.40
1:AA:733:G:H8	1:AA:733:G:OP2	2.04	0.40
1:AA:677:A:N6	1:AA:802:A:N7	2.70	0.40
1:AA:875:G:N1	1:AA:876:C:N3	2.69	0.40
1:AA:928:G:O2'	24:AZ:43:ILE:CG1	2.69	0.40
1:AA:967:C:H6	1:AA:967:C:O5'	2.04	0.40
1:AA:967:C:H2'	1:AA:968:G:O4'	2.22	0.40
1:AA:988:A:O2'	1:AA:1157:G:C5'	2.65	0.40
2:AB:118:G:C5	2:AB:119:A:N7	2.90	0.40
2:AB:52:A:N3	2:AB:53:A:O4'	2.54	0.40
2:AB:57:A:O4'	7:AG:29:TRP:CZ2	2.75	0.40
3:AC:190:ARG:CG	3:AC:190:ARG:HH11	2.34	0.40
3:AC:47:LEU:C	3:AC:210:ARG:HD3	2.42	0.40
3:AC:42:GLU:OE2	3:AC:174:PRO:CB	2.66	0.40
4:AD:159:ALA:CB	4:AD:202:LYS:NZ	2.80	0.40
4:AD:259:THR:CG2	4:AD:260:ARG:H	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:9:TYR:CD1	4:AD:25:THR:HG23	2.56	0.40
4:AD:29:PRO:HB2	4:AD:31:LYS:HD2	2.03	0.40
6:AF:149:ASP:HA	6:AF:172:TRP:NE1	2.36	0.40
7:AG:107:LEU:CG	7:AG:177:GLY:O	2.70	0.40
7:AG:134:GLY:CA	7:AG:156:ASP:HA	2.51	0.40
7:AG:107:LEU:HD21	7:AG:177:GLY:HA3	2.03	0.40
7:AG:53:LEU:CA	7:AG:72:ARG:HH21	2.35	0.40
8:AH:168:PRO:O	8:AH:169:VAL:C	2.60	0.40
8:AH:27:LYS:NZ	8:AH:32:GLU:HB2	2.36	0.40
8:AH:88:LEU:C	8:AH:88:LEU:CD2	2.85	0.40
8:AH:98:LEU:O	8:AH:99:VAL:HB	2.20	0.40
31:AI:143:GLN:C	31:AI:147:ALA:HB3	2.40	0.40
10:AL:16:ALA:HB1	10:AL:45:GLU:CB	2.52	0.40
10:AL:43:VAL:CG2	10:AL:45:GLU:O	2.69	0.40
10:AL:12:ASP:C	10:AL:94:ARG:HB3	2.42	0.40
12:AN:135:ASP:O	12:AN:136:ALA:HB2	2.22	0.40
12:AN:22:LYS:CG	12:AN:23:GLY:N	2.85	0.40
12:AN:6:ARG:HB2	12:AN:44:ALA:HB3	1.94	0.40
13:AO:90:ARG:HH21	13:AO:117:VAL:HG13	1.81	0.40
13:AO:17:ARG:O	13:AO:20:LEU:N	2.54	0.40
13:AO:28:LEU:O	13:AO:30:THR:N	2.54	0.40
13:AO:86:ARG:NH1	13:AO:87:TYR:CE2	2.88	0.40
14:AP:32:LEU:O	14:AP:35:ILE:HG22	2.22	0.40
14:AP:57:LYS:O	14:AP:58:LEU:CB	2.69	0.40
14:AP:62:LYS:C	14:AP:65:VAL:H	2.22	0.40
15:AQ:104:ASN:N	15:AQ:107:ASP:OD2	2.54	0.40
16:AR:58:ARG:CG	16:AR:58:ARG:NH1	2.84	0.40
17:AS:78:LYS:HG3	17:AS:79:VAL:N	2.35	0.40
18:AT:68:ARG:HB2	18:AT:110:LYS:O	2.22	0.40
21:AW:10:ARG:HD3	21:AW:36:LYS:HE3	2.04	0.40
21:AW:116:VAL:HG22	21:AW:145:GLU:HG2	2.01	0.40
21:AW:16:SER:OG	21:AW:17:ALA:N	2.54	0.40
21:AW:30:ASN:OD1	21:AW:33:LEU:HD12	2.22	0.40
21:AW:6:LYS:HA	21:AW:38:TYR:H	1.87	0.40
21:AW:45:ASP:C	21:AW:47:VAL:N	2.74	0.40
21:AW:48:PHE:O	21:AW:51:ALA:N	2.39	0.40
22:AX:65:GLY:CA	22:AX:82:ARG:O	2.69	0.40
23:AY:51:GLN:C	23:AY:55:LEU:HD13	2.41	0.40
34:BA:1056:U:O2	34:BA:1057:G:C8	2.75	0.40
34:BA:1080:A:H4'	38:BI:16:THR:OG1	2.22	0.40
34:BA:1105:A:N3	34:BA:1106:G:N7	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1162:C:O2	34:BA:1163:C:C5	2.71	0.40
34:BA:1206:G:C6	34:BA:1207:G:C5	3.09	0.40
34:BA:1273:G:C2'	34:BA:1274:G:H8	2.35	0.40
34:BA:130:A:C8	50:BU:63:ARG:HG3	2.57	0.40
34:BA:1477:C:C2	34:BA:1478:C:C5	3.09	0.40
34:BA:14:U:O2	34:BA:17:U:C5	2.74	0.40
34:BA:160:A:N1	34:BA:346:G:O6	2.55	0.40
34:BA:245:C:C4	34:BA:284:G:N1	2.90	0.40
34:BA:335:C:H4'	34:BA:1434:A:C4'	2.52	0.40
34:BA:393:A:OP2	49:BT:12:LYS:CE	2.70	0.40
34:BA:402:G:OP1	37:BH:74:GLN:NE2	2.54	0.40
34:BA:475:G:N3	34:BA:476:G:N7	2.70	0.40
34:BA:508:C:H4'	34:BA:509:A:OP1	2.19	0.40
34:BA:510:A:C8	34:BA:510:A:O5'	2.71	0.40
34:BA:540:G:H21	37:BH:42:GLN:CD	2.25	0.40
34:BA:657:G:C4'	48:BS:28:GLN:NE2	2.84	0.40
34:BA:664:G:OP1	51:BV:64:ARG:NE	2.25	0.40
34:BA:687:A:C5	34:BA:701:C:C4	3.09	0.40
34:BA:698:G:N2	34:BA:699:C:C2	2.89	0.40
34:BA:68:G:C4	34:BA:69:G:C8	3.09	0.40
34:BA:824:C:H2'	34:BA:825:G:C8	2.57	0.40
34:BA:830:G:O6	34:BA:857:C:N4	2.54	0.40
34:BA:833:U:H2'	34:BA:834:C:H6	1.85	0.40
34:BA:87:A:C8	34:BA:88:C:C6	3.09	0.40
34:BA:896:C:H2'	34:BA:897:C:C6	2.56	0.40
35:BF:118:LEU:CD1	35:BF:141:GLU:OE2	2.65	0.40
35:BF:20:GLU:OE2	35:BF:205:ASP:OD2	2.39	0.40
35:BF:221:LEU:HD13	35:BF:222:ILE:HA	2.03	0.40
35:BF:36:ARG:NE	35:BF:36:ARG:HA	2.35	0.40
35:BF:61:LEU:CA	35:BF:64:ARG:CD	2.98	0.40
36:BG:19:GLU:CD	36:BG:19:GLU:N	2.74	0.40
36:BG:64:VAL:HB	36:BG:99:VAL:HG11	2.03	0.40
37:BH:14:ARG:HD3	37:BH:15:GLU:N	2.36	0.40
38:BI:84:PHE:HB2	38:BI:134:ALA:HA	2.03	0.40
40:BK:123:GLU:O	40:BK:125:MET:N	2.55	0.40
40:BK:140:ASP:O	40:BK:143:ARG:HD2	2.22	0.40
40:BK:80:VAL:HG12	40:BK:81:GLY:N	2.36	0.40
42:BM:112:LYS:CG	42:BM:117:HIS:HA	2.45	0.40
42:BM:43:ALA:C	42:BM:45:ALA:H	2.25	0.40
42:BM:81:ILE:HG13	42:BM:81:ILE:H	1.74	0.40
43:BN:8:LEU:HD12	43:BN:16:LEU:HD13	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1202:G:N7	43:BN:53:PRO:HB3	2.36	0.40
43:BN:27:ALA:HB1	43:BN:74:ILE:CD1	2.52	0.40
45:BP:82:VAL:HB	57:BZ:329:ARG:HG3	2.03	0.40
46:BQ:8:GLU:HB3	46:BQ:22:ILE:CD1	2.51	0.40
46:BQ:74:VAL:O	46:BQ:78:ILE:HG13	2.21	0.40
46:BQ:90:LEU:CD2	46:BQ:93:ARG:NE	2.85	0.40
48:BS:53:HIS:CD2	48:BS:57:LEU:CD1	3.01	0.40
49:BT:8:ARG:O	49:BT:9:PHE:CD2	2.75	0.40
34:BA:191:G:N2	53:BX:103:GLY:O	2.51	0.40
53:BX:24:LEU:HB2	53:BX:25:ARG:H	1.68	0.40
53:BX:76:ALA:C	53:BX:78:ALA:N	2.74	0.40
34:BA:1286:A:C5'	54:BY:25:LYS:HG2	2.25	0.40
57:BZ:10:ILE:HD13	57:BZ:21:LEU:CG	2.47	0.40
57:BZ:67:ASP:HA	57:BZ:191:VAL:CG1	2.51	0.40
57:BZ:249:ALA:H	57:BZ:276:ILE:H	1.66	0.40
57:BZ:255:LEU:HA	57:BZ:255:LEU:HD22	1.78	0.40
57:BZ:280:GLY:HA2	57:BZ:281:GLU:HA	1.69	0.40
57:BZ:311:PHE:CB	57:BZ:356:PHE:HD2	2.34	0.40
57:BZ:403:VAL:HG21	57:BZ:466:TYR:HD1	1.82	0.40
57:BZ:512:LEU:HD22	57:BZ:518:VAL:HG13	2.01	0.40
57:BZ:59:LYS:HZ2	57:BZ:66:TRP:HZ2	1.69	0.40
56:BD:5:G:O6	56:BD:69:G:O6	2.36	0.40
1:AA:888:C:C1'	1:AA:889:C:N3	2.76	0.40
55:BC:25:C:H2'	55:BC:26:A:H8	1.87	0.40
55:BC:4:C:C2	55:BC:70:G:C2	3.10	0.40
1:AA:1579:A:C5	1:AA:1580:A:H1'	2.56	0.40
1:AA:1416:G:N2	1:AA:1581:G:C6	2.81	0.40
1:AA:2798:C:H6	1:AA:2798:C:H5''	1.87	0.40
37:BH:159:ARG:NH1	37:BH:159:ARG:HG2	2.35	0.40
43:BN:17:ASP:O	43:BN:21:GLN:CB	2.70	0.40
31:AI:129:PRO:O	31:AI:131:MET:N	2.54	0.40
34:BA:1541:U:O2	34:BA:1541:U:H2'	2.20	0.40
1:AA:1083:U:O2	1:AA:1085:A:C8	2.70	0.40
1:AA:108:U:H2'	1:AA:109:G:O4'	2.20	0.40
1:AA:1148:A:C6	1:AA:1149:G:C6	3.10	0.40
1:AA:1228:G:H8	1:AA:1228:G:C5'	2.34	0.40
1:AA:1252:G:H3'	1:AA:1253:A:C1'	2.52	0.40
1:AA:1263:U:C6	1:AA:1264:G:C2	3.10	0.40
1:AA:1276:A:N7	1:AA:1645:G:C2	2.89	0.40
1:AA:1298:C:N4	1:AA:1299:G:C6	2.89	0.40
1:AA:1340:U:H2'	1:AA:1341:U:OP1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1356:G:H2'	1:AA:1357:U:C5'	2.51	0.40
1:AA:1398:C:O2'	1:AA:1399:C:C5'	2.68	0.40
1:AA:1444(A):A:C8	1:AA:1460:A:O2'	2.74	0.40
1:AA:1492:G:C2	1:AA:1493:C:N3	2.90	0.40
1:AA:1491:G:N1	1:AA:1500:G:C2	2.89	0.40
1:AA:1592:C:C2	1:AA:1593:G:C8	3.10	0.40
1:AA:1641:A:H8	1:AA:1641:A:OP2	2.05	0.40
1:AA:1668:A:N7	1:AA:1670:C:N4	2.70	0.40
1:AA:1670:C:H2'	1:AA:1671:U:C4'	2.52	0.40
1:AA:1906:G:C6	1:AA:1929:G:C2	3.08	0.40
1:AA:1949:G:C2	1:AA:1958:C:N3	2.90	0.40
1:AA:198:C:O5'	1:AA:198:C:C6	2.74	0.40
1:AA:1889:A:H5'	1:AA:2087:G:H4'	2.03	0.40
1:AA:2088:G:O2'	1:AA:2089:U:H5'	2.21	0.40
1:AA:2112:G:N3	1:AA:2112:G:H2'	2.07	0.40
1:AA:2150:U:H2'	1:AA:2151:G:C8	2.50	0.40
1:AA:2173:A:H1'	3:AC:218:MET:HE3	2.03	0.40
1:AA:222:A:C8	1:AA:224:G:C8	3.09	0.40
1:AA:2255:G:C2	1:AA:2256:G:N9	2.89	0.40
1:AA:2318:G:C8	1:AA:2318:G:P	3.10	0.40
1:AA:2319:G:O2'	1:AA:2320:A:P	2.80	0.40
1:AA:2423:U:H5'	1:AA:2423:U:C6	2.56	0.40
1:AA:2447:G:N7	1:AA:2500:U:N1	2.69	0.40
1:AA:2527:C:C2	1:AA:2528:U:C5	3.10	0.40
1:AA:2544:G:C4	1:AA:2545:G:C8	3.10	0.40
1:AA:2600:A:C2	1:AA:2601:C:C4	3.10	0.40
1:AA:2633:G:C6	1:AA:2634:G:C5	3.09	0.40
1:AA:2664:G:C8	1:AA:2664:G:O5'	2.72	0.40
1:AA:2793:G:N3	1:AA:2794:C:C6	2.89	0.40
1:AA:2838:G:C6	1:AA:2839:G:C5	3.10	0.40
1:AA:2856:C:C4	1:AA:2862:G:N1	2.90	0.40
1:AA:2881:C:H4'	13:AO:117:VAL:HG21	2.03	0.40
1:AA:4:C:C5	1:AA:2900:A:N1	2.89	0.40
1:AA:349:G:N9	1:AA:349:G:OP2	2.55	0.40
1:AA:432:A:C6	1:AA:433:C:N3	2.90	0.40
1:AA:459:U:H2'	1:AA:460:A:H8	1.86	0.40
1:AA:47:C:C4	1:AA:179:G:C6	3.09	0.40
1:AA:551:G:O4'	1:AA:1220:A:N1	2.55	0.40
1:AA:571:A:C6	1:AA:2030:A:N1	2.89	0.40
1:AA:629:G:OP1	1:AA:649:G:O2'	2.12	0.40
1:AA:65:C:N3	1:AA:66:C:C5	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:596:G:O6	1:AA:660:G:O6	2.40	0.40
1:AA:5:A:N3	1:AA:6:A:C8	2.89	0.40
1:AA:6:A:N1	1:AA:2897:U:C5	2.88	0.40
1:AA:713:G:H2'	1:AA:714:U:OP2	2.22	0.40
1:AA:727:A:N1	1:AA:729:G:C5	2.87	0.40
1:AA:748:G:N7	1:AA:750:A:N7	2.69	0.40
1:AA:748:G:OP2	18:AT:88:ARG:NE	2.54	0.40
1:AA:761:A:C5'	1:AA:762:U:OP1	2.69	0.40
1:AA:769:G:C4	1:AA:770:G:C8	3.10	0.40
2:AB:76:G:H4'	21:AW:85:HIS:CB	2.42	0.40
3:AC:7:TYR:CE1	3:AC:10:LEU:HG	2.55	0.40
3:AC:129:ARG:HB2	3:AC:130:ILE:HD12	2.02	0.40
3:AC:64:LEU:CG	3:AC:161:ILE:HG12	2.50	0.40
3:AC:64:LEU:CD1	3:AC:174:PRO:O	2.70	0.40
3:AC:71:GLN:NE2	3:AC:72:VAL:HG23	2.37	0.40
3:AC:89:ALA:HB2	3:AC:154:ARG:NH1	2.36	0.40
4:AD:137:PRO:HG2	4:AD:140:THR:CG2	2.52	0.40
4:AD:148:GLU:CB	4:AD:151:LYS:HG3	2.51	0.40
4:AD:54:ARG:C	4:AD:219:PRO:CG	2.89	0.40
4:AD:244:ARG:CA	4:AD:252:TRP:NE1	2.84	0.40
4:AD:27:THR:HG22	4:AD:29:PRO:CG	2.48	0.40
5:AE:127:ASP:HB2	5:AE:135:HIS:N	2.35	0.40
7:AG:105:LYS:O	7:AG:109:VAL:CG2	2.53	0.40
7:AG:111:LEU:CB	7:AG:112:PRO:CD	2.86	0.40
7:AG:14:GLU:C	7:AG:14:GLU:CD	2.80	0.40
7:AG:172:LEU:HG	7:AG:173:LEU:N	2.37	0.40
7:AG:45:GLU:HB2	7:AG:77:ILE:CG2	2.52	0.40
7:AG:59:GLU:HG3	7:AG:60:LEU:H	1.87	0.40
7:AG:9:ARG:CG	7:AG:9:ARG:NH1	2.80	0.40
8:AH:24:VAL:HG13	8:AH:37:VAL:HG11	2.03	0.40
8:AH:7:LEU:CD2	8:AH:7:LEU:N	2.83	0.40
8:AH:97:ARG:CB	8:AH:97:ARG:HH21	2.34	0.40
32:AJ:37:PHE:O	32:AJ:41:PHE:CG	2.75	0.40
32:AJ:76:TYR:O	32:AJ:80:LYS:HD2	2.21	0.40
10:AL:16:ALA:HB1	10:AL:45:GLU:HB2	1.98	0.40
11:AM:122:PRO:CG	11:AM:138:LEU:CA	2.99	0.40
11:AM:68:GLN:HB2	11:AM:68:GLN:HE21	1.60	0.40
11:AM:74:GLU:N	11:AM:107:LYS:HE3	2.36	0.40
11:AM:81:GLN:HE22	11:AM:123:LEU:CD2	2.32	0.40
12:AN:10:ARG:O	12:AN:11:LYS:O	2.40	0.40
12:AN:44:ALA:HA	12:AN:47:ILE:CD1	2.26	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AN:64:ILE:HA	12:AN:106:VAL:C	2.42	0.40
12:AN:68:ILE:HG21	12:AN:95:ALA:HB1	2.02	0.40
13:AO:3:HIS:C	13:AO:3:HIS:ND1	2.74	0.40
13:AO:58:GLY:N	13:AO:80:PHE:CZ	2.89	0.40
1:AA:1453:A:N7	13:AO:73:VAL:HG12	2.37	0.40
15:AQ:30:VAL:CG1	15:AQ:32:TYR:OH	2.66	0.40
15:AQ:72:VAL:HB	15:AQ:74:ARG:NE	2.37	0.40
16:AR:31:SER:OG	16:AR:35:ALA:HA	2.21	0.40
16:AR:57:PHE:O	16:AR:60:LEU:N	2.54	0.40
17:AS:96:ILE:HD12	17:AS:96:ILE:C	2.41	0.40
18:AT:12:ILE:CD1	18:AT:12:ILE:H	2.32	0.40
1:AA:64:A:C2	19:AU:66:LEU:HD13	2.53	0.40
19:AU:79:ALA:O	19:AU:80:ILE:HD13	2.22	0.40
20:AV:47:LYS:CB	20:AV:49:VAL:HG22	2.36	0.40
20:AV:35:TYR:CE2	20:AV:67:LEU:CD1	3.05	0.40
21:AW:151:HIS:CD2	21:AW:170:THR:H	2.39	0.40
21:AW:84:GLU:O	21:AW:85:HIS:HB2	2.22	0.40
21:AW:95:PRO:CG	21:AW:131:ARG:HD3	2.52	0.40
22:AX:44:ARG:HG2	22:AX:44:ARG:O	2.22	0.40
23:AY:36:ILE:O	23:AY:37:GLY:C	2.59	0.40
23:AY:58:VAL:O	23:AY:60:ASN:N	2.53	0.40
24:AZ:42:ALA:O	24:AZ:43:ILE:C	2.59	0.40
24:AZ:44:ARG:O	24:AZ:46:ASN:N	2.55	0.40
34:BA:1181:G:H2'	34:BA:1182:G:C5'	2.51	0.40
34:BA:1338:G:C6	34:BA:1339:A:N6	2.90	0.40
34:BA:1347:G:H3'	42:BM:107:ARG:CA	2.51	0.40
34:BA:1363:A:H1'	34:BA:1365:G:N7	2.35	0.40
34:BA:1461:G:C4	34:BA:1462:G:C8	3.10	0.40
34:BA:1462:G:H2'	34:BA:1463:C:H5'	2.02	0.40
34:BA:159:G:N1	34:BA:163:C:N4	2.70	0.40
34:BA:236:G:N3	34:BA:236:G:C2'	2.83	0.40
34:BA:390:C:O2'	34:BA:391:G:H5'	2.22	0.40
34:BA:391:G:O6	34:BA:392:G:C6	2.74	0.40
34:BA:374:A:O4'	34:BA:481:G:N2	2.54	0.40
34:BA:541:G:H2'	34:BA:542:G:C8	2.53	0.40
34:BA:652:U:C1'	34:BA:653:A:C2	3.04	0.40
34:BA:673:G:C6	34:BA:734:G:C6	3.09	0.40
34:BA:683:G:H21	44:BO:38:ASN:ND2	2.20	0.40
34:BA:697:U:H5'	34:BA:786:G:O2'	2.20	0.40
34:BA:698:G:O2'	34:BA:699:C:H5'	2.21	0.40
34:BA:821:G:C6	34:BA:880:C:C4	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:963:G:H2'	34:BA:964:A:C8	2.49	0.40
34:BA:981:U:OP2	34:BA:981:U:H5	2.05	0.40
56:BE:16:U:H6	56:BE:16:U:H5'	1.85	0.40
56:BE:73:A:O3'	56:BE:74:C:C6	2.75	0.40
35:BF:143:GLU:CD	35:BF:144:ARG:N	2.75	0.40
35:BF:28:PHE:CE1	35:BF:31:TYR:CB	3.04	0.40
36:BG:73:PRO:HD3	36:BG:105:GLU:CD	2.42	0.40
36:BG:157:ILE:CD1	36:BG:164:ARG:HG2	2.51	0.40
37:BH:153:ARG:O	37:BH:154:ASN:HB3	2.22	0.40
37:BH:173:TRP:O	37:BH:185:PHE:HD2	2.05	0.40
37:BH:208:SER:O	37:BH:209:ARG:NH1	2.43	0.40
37:BH:14:ARG:N	37:BH:40:PRO:HD3	2.37	0.40
38:BI:61:TYR:O	38:BI:62:ALA:C	2.59	0.40
39:BJ:49:ALA:CB	51:BV:80:PRO:CD	2.97	0.40
39:BJ:4:TYR:HA	39:BJ:93:SER:OG	2.22	0.40
39:BJ:42:GLU:OE2	39:BJ:61:LEU:HD22	2.22	0.40
34:BA:933:G:OP2	40:BK:3:ARG:CG	2.70	0.40
41:BL:102:ARG:NH1	41:BL:102:ARG:CG	2.85	0.40
41:BL:32:LYS:O	41:BL:33:GLU:C	2.60	0.40
41:BL:69:ARG:NH1	41:BL:69:ARG:HG3	2.34	0.40
42:BM:10:ARG:HA	42:BM:104:ARG:CZ	2.51	0.40
42:BM:50:LEU:CD2	42:BM:56:LEU:HB2	2.51	0.40
43:BN:49:VAL:O	43:BN:60:ARG:CA	2.70	0.40
43:BN:94:VAL:CG1	43:BN:95:GLU:N	2.66	0.40
44:BO:62:GLN:OE1	44:BO:63:LEU:CB	2.67	0.40
45:BP:103:GLY:HA2	45:BP:107:ALA:O	2.22	0.40
45:BP:32:PHE:HB2	45:BP:84:LEU:CD2	2.51	0.40
46:BQ:67:GLU:O	46:BQ:69:GLU:N	2.42	0.40
46:BQ:90:LEU:HD21	46:BQ:93:ARG:NH1	2.36	0.40
48:BS:35:ARG:NH1	48:BS:59:MET:CE	2.84	0.40
49:BT:4:ILE:H	49:BT:4:ILE:CD1	2.24	0.40
51:BV:34:TYR:HE1	51:BV:35:ARG:NE	2.17	0.40
51:BV:45:SER:CA	51:BV:51:LEU:HD21	2.52	0.40
53:BX:57:ARG:HH12	53:BX:102:GLY:HA3	1.86	0.40
57:BZ:234:ASN:HA	57:BZ:235:GLN:C	2.41	0.40
57:BZ:249:ALA:H	57:BZ:276:ILE:HG13	1.86	0.40
57:BZ:24:LYS:C	57:BZ:26:LEU:N	2.73	0.40
57:BZ:565:LEU:H	57:BZ:566:GLU:CA	2.34	0.40
1:AA:2103:C:N3	1:AA:2104:G:N7	2.68	0.40
56:BD:28:G:N2	56:BD:43:C:C6	2.89	0.40
56:BD:28:G:N2	56:BD:43:C:C5	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1418:G:H1'	1:AA:1579:A:N6	2.27	0.40
1:AA:363(C):G:H2'	1:AA:363(D):G:O5'	2.21	0.40
34:BA:1032:A:C4	34:BA:1032(A):G:H1'	2.56	0.40
31:AI:118:THR:O	31:AI:120:LYS:N	2.49	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AC	220/228 (96%)	153 (70%)	39 (18%)	28 (13%)	0	8
4	AD	270/272 (99%)	125 (46%)	59 (22%)	86 (32%)	0	0
5	AE	204/206 (99%)	117 (57%)	31 (15%)	56 (28%)	0	0
6	AF	206/208 (99%)	109 (53%)	46 (22%)	51 (25%)	0	1
7	AG	180/182 (99%)	79 (44%)	47 (26%)	54 (30%)	0	0
8	AH	172/174 (99%)	80 (46%)	46 (27%)	46 (27%)	0	0
9	AK	137/139 (99%)	64 (47%)	28 (20%)	45 (33%)	0	0
10	AL	120/122 (98%)	59 (49%)	23 (19%)	38 (32%)	0	0
11	AM	143/145 (99%)	57 (40%)	36 (25%)	50 (35%)	0	0
12	AN	134/136 (98%)	49 (37%)	33 (25%)	52 (39%)	0	0
13	AO	115/117 (98%)	57 (50%)	39 (34%)	19 (16%)	0	5
14	AP	108/110 (98%)	48 (44%)	28 (26%)	32 (30%)	0	0
15	AQ	115/117 (98%)	52 (45%)	26 (23%)	37 (32%)	0	0
16	AR	115/117 (98%)	35 (30%)	50 (44%)	30 (26%)	0	1
17	AS	99/101 (98%)	52 (52%)	19 (19%)	28 (28%)	0	0
18	AT	108/110 (98%)	63 (58%)	24 (22%)	21 (19%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	AU	92/94 (98%)	57 (62%)	16 (17%)	19 (21%)	0	3
20	AV	108/110 (98%)	43 (40%)	32 (30%)	33 (31%)	0	0
21	AW	178/180 (99%)	96 (54%)	43 (24%)	39 (22%)	0	2
22	AX	83/85 (98%)	52 (63%)	21 (25%)	10 (12%)	0	9
23	AY	65/67 (97%)	36 (55%)	20 (31%)	9 (14%)	0	6
24	AZ	57/59 (97%)	34 (60%)	8 (14%)	15 (26%)	0	1
25	Aa	69/71 (97%)	23 (33%)	15 (22%)	31 (45%)	0	0
26	Ab	55/57 (96%)	14 (26%)	19 (34%)	22 (40%)	0	0
27	Ac	47/49 (96%)	14 (30%)	7 (15%)	26 (55%)	0	0
28	Ad	47/49 (96%)	20 (43%)	12 (26%)	15 (32%)	0	0
29	Ae	62/64 (97%)	23 (37%)	17 (27%)	22 (36%)	0	0
30	Af	35/37 (95%)	20 (57%)	5 (14%)	10 (29%)	0	0
31	AI	151/153 (99%)	89 (59%)	33 (22%)	29 (19%)	0	3
32	AJ	132/134 (98%)	56 (42%)	44 (33%)	32 (24%)	0	1
35	BF	232/234 (99%)	114 (49%)	41 (18%)	77 (33%)	0	0
36	BG	204/206 (99%)	107 (52%)	46 (22%)	51 (25%)	0	1
37	BH	206/208 (99%)	95 (46%)	58 (28%)	53 (26%)	0	1
38	BI	148/150 (99%)	93 (63%)	38 (26%)	17 (12%)	0	9
39	BJ	99/101 (98%)	58 (59%)	19 (19%)	22 (22%)	0	2
40	BK	153/155 (99%)	73 (48%)	45 (29%)	35 (23%)	0	1
41	BL	136/138 (99%)	68 (50%)	35 (26%)	33 (24%)	0	1
42	BM	125/127 (98%)	62 (50%)	33 (26%)	30 (24%)	0	1
43	BN	96/98 (98%)	52 (54%)	20 (21%)	24 (25%)	0	1
44	BO	117/119 (98%)	65 (56%)	29 (25%)	23 (20%)	0	3
45	BP	122/124 (98%)	50 (41%)	30 (25%)	42 (34%)	0	0
46	BQ	112/114 (98%)	64 (57%)	28 (25%)	20 (18%)	0	4
47	BR	58/60 (97%)	24 (41%)	16 (28%)	18 (31%)	0	0
48	BS	86/88 (98%)	36 (42%)	35 (41%)	15 (17%)	0	4
49	BT	81/83 (98%)	42 (52%)	24 (30%)	15 (18%)	0	3
50	BU	102/104 (98%)	62 (61%)	23 (22%)	17 (17%)	0	5
51	BV	71/73 (97%)	26 (37%)	26 (37%)	19 (27%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
52	BW	78/80 (98%)	30 (38%)	25 (32%)	23 (30%)	0	0
53	BX	97/99 (98%)	38 (39%)	32 (33%)	27 (28%)	0	0
54	BY	22/24 (92%)	9 (41%)	6 (27%)	7 (32%)	0	0
57	BZ	603/605 (100%)	280 (46%)	200 (33%)	123 (20%)	0	3
All	All	6575/6683 (98%)	3224 (49%)	1675 (26%)	1676 (26%)	0	1

All (1676) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AC	35	ALA
3	AC	39	GLU
3	AC	54	SER
3	AC	61	THR
3	AC	72	VAL
3	AC	217	THR
4	AD	6	PHE
4	AD	10	THR
4	AD	17	THR
4	AD	18	VAL
4	AD	30	GLU
4	AD	33	LEU
4	AD	35	LYS
4	AD	44	ASN
4	AD	53	PHE
4	AD	54	ARG
4	AD	58	HIS
4	AD	70	TRP
4	AD	72	LYS
4	AD	73	VAL
4	AD	81	ALA
4	AD	91	ARG
4	AD	106	ILE
4	AD	107	ALA
4	AD	108	PRO
4	AD	118	VAL
4	AD	121	PRO
4	AD	122	ASP
4	AD	125	ILE
4	AD	133	LEU
4	AD	134	ARG
4	AD	145	VAL

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Mol	Chain	Res	Type
4	AD	153	ALA
4	AD	155	LEU
4	AD	157	ARG
4	AD	158	ALA
4	AD	160	GLY
4	AD	167	GLY
4	AD	178	PRO
4	AD	179	SER
4	AD	219	PRO
4	AD	224	ALA
4	AD	225	ALA
4	AD	232	PRO
4	AD	239	ARG
4	AD	241	PRO
4	AD	244	ARG
4	AD	247	ALA
4	AD	249	PRO
4	AD	252	TRP
4	AD	258	LYS
4	AD	264	LYS
4	AD	268	ARG
4	AD	270	ILE
4	AD	271	ILE
5	AE	16	ARG
5	AE	38	THR
5	AE	42	ASP
5	AE	54	GLN
5	AE	68	ALA
5	AE	70	ALA
5	AE	74	PRO
5	AE	92	THR
5	AE	111	ARG
5	AE	117	MET
5	AE	122	PHE
5	AE	128	SER
5	AE	133	LYS
5	AE	134	ILE
5	AE	145	LYS
5	AE	149	ARG
5	AE	151	TYR
5	AE	157	ALA
5	AE	168	MET

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Mol	Chain	Res	Type
5	AE	173	VAL
5	AE	180	ASN
5	AE	191	PRO
5	AE	202	LYS
6	AF	13	SER
6	AF	14	PRO
6	AF	30	PRO
6	AF	45	ARG
6	AF	52	LYS
6	AF	53	THR
6	AF	57	VAL
6	AF	58	ALA
6	AF	62	ARG
6	AF	67	GLN
6	AF	68	LYS
6	AF	69	HIS
6	AF	75	HIS
6	AF	82	ILE
6	AF	84	VAL
6	AF	85	GLY
6	AF	89	VAL
6	AF	91	GLY
6	AF	99	TYR
6	AF	100	THR
6	AF	104	LYS
6	AF	132	VAL
6	AF	151	SER
6	AF	169	ASN
6	AF	172	TRP
6	AF	186	ILE
6	AF	196	LEU
7	AG	16	ARG
7	AG	18	GLU
7	AG	27	ASN
7	AG	32	PRO
7	AG	36	LYS
7	AG	42	GLY
7	AG	43	LEU
7	AG	51	ARG
7	AG	66	GLN
7	AG	68	PRO
7	AG	73	ALA

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Mol	Chain	Res	Type
7	AG	76	SER
7	AG	78	SER
7	AG	86	MET
7	AG	104	GLU
7	AG	111	LEU
7	AG	114	ILE
7	AG	115	ARG
7	AG	116	ASP
7	AG	117	PHE
7	AG	123	ASN
7	AG	124	SER
7	AG	128	ARG
7	AG	131	TYR
7	AG	132	ASN
7	AG	133	LEU
7	AG	138	GLN
7	AG	140	ILE
7	AG	143	GLU
7	AG	144	ILE
7	AG	148	MET
7	AG	164	GLU
7	AG	172	LEU
7	AG	181	ARG
8	AH	6	ARG
8	AH	7	LEU
8	AH	12	PRO
8	AH	15	VAL
8	AH	20	ALA
8	AH	30	LYS
8	AH	56	SER
8	AH	99	VAL
8	AH	104	GLU
8	AH	107	VAL
8	AH	111	HIS
8	AH	127	GLU
8	AH	136	ILE
8	AH	152	ARG
8	AH	153	LYS
8	AH	155	SER
8	AH	157	TYR
8	AH	160	LYS
8	AH	164	TYR

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Mol	Chain	Res	Type
8	AH	168	PRO
9	AK	3	THR
9	AK	4	TYR
9	AK	7	LYS
9	AK	9	VAL
9	AK	23	LEU
9	AK	31	ALA
9	AK	35	ARG
9	AK	43	THR
9	AK	46	VAL
9	AK	48	MET
9	AK	50	ASP
9	AK	58	ASP
9	AK	59	LYS
9	AK	66	LYS
9	AK	68	GLU
9	AK	76	SER
9	AK	79	PRO
9	AK	83	LYS
9	AK	127	ASP
9	AK	135	PRO
9	AK	136	GLU
10	AL	4	PRO
10	AL	11	ALA
10	AL	14	THR
10	AL	17	ARG
10	AL	26	LYS
10	AL	28	SER
10	AL	29	ASN
10	AL	30	ALA
10	AL	46	ALA
10	AL	53	LYS
10	AL	63	VAL
10	AL	64	ARG
10	AL	66	LYS
10	AL	89	ASN
10	AL	93	PRO
10	AL	97	ARG
10	AL	101	PRO
10	AL	103	ALA
10	AL	105	GLU
10	AL	110	GLY

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Mol	Chain	Res	Type
10	AL	111	PHE
10	AL	119	PRO
11	AM	8	PRO
11	AM	12	ALA
11	AM	14	LYS
11	AM	27	HIS
11	AM	29	LYS
11	AM	42	SER
11	AM	44	GLY
11	AM	47	ASP
11	AM	55	ARG
11	AM	56	SER
11	AM	57	THR
11	AM	58	THR
11	AM	64	LYS
11	AM	72	PRO
11	AM	88	LEU
11	AM	96	THR
11	AM	102	ARG
11	AM	106	LEU
11	AM	107	LYS
11	AM	122	PRO
11	AM	127	ALA
12	AN	11	LYS
12	AN	21	THR
12	AN	27	VAL
12	AN	29	PHE
12	AN	39	PRO
12	AN	40	ALA
12	AN	58	PHE
12	AN	59	ARG
12	AN	66	ILE
12	AN	67	ARG
12	AN	68	ILE
12	AN	71	ASP
12	AN	77	LYS
12	AN	78	PRO
12	AN	80	GLU
12	AN	81	VAL
12	AN	111	GLU
12	AN	124	LYS
12	AN	125	LEU

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Mol	Chain	Res	Type
12	AN	126	PRO
12	AN	132	VAL
12	AN	138	ASP
13	AO	4	LEU
13	AO	38	VAL
13	AO	57	ARG
13	AO	72	ASP
13	AO	76	VAL
13	AO	88	ARG
13	AO	89	ASP
14	AP	5	THR
14	AP	14	VAL
14	AP	28	VAL
14	AP	29	PHE
14	AP	30	ARG
14	AP	31	SER
14	AP	32	LEU
14	AP	35	ILE
14	AP	36	TYR
14	AP	48	LEU
14	AP	51	ALA
14	AP	54	LEU
14	AP	58	LEU
14	AP	61	ASN
15	AQ	2	ASN
15	AQ	3	ARG
15	AQ	5	ALA
15	AQ	19	LEU
15	AQ	20	PRO
15	AQ	22	PHE
15	AQ	25	GLY
15	AQ	27	THR
15	AQ	39	ARG
15	AQ	45	PHE
15	AQ	58	ASN
15	AQ	83	ILE
15	AQ	98	LYS
15	AQ	100	TYR
15	AQ	103	ARG
15	AQ	105	LEU
15	AQ	106	SER
15	AQ	109	GLU

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Mol	Chain	Res	Type
16	AR	3	ARG
16	AR	4	ALA
16	AR	8	VAL
16	AR	22	LYS
16	AR	31	SER
16	AR	32	PHE
16	AR	33	ARG
16	AR	62	ILE
16	AR	75	ASN
16	AR	94	ASN
17	AS	10	LYS
17	AS	11	GLN
17	AS	13	ARG
17	AS	15	GLU
17	AS	19	LYS
17	AS	22	VAL
17	AS	31	ALA
17	AS	32	THR
17	AS	39	LEU
17	AS	40	LEU
17	AS	46	VAL
17	AS	50	PRO
17	AS	57	VAL
17	AS	68	LYS
17	AS	69	LYS
17	AS	73	SER
17	AS	82	ARG
17	AS	100	ARG
18	AT	9	TYR
18	AT	11	ARG
18	AT	12	ILE
18	AT	14	PRO
18	AT	25	ARG
18	AT	27	LYS
18	AT	41	LYS
18	AT	44	ALA
18	AT	58	ALA
18	AT	64	MET
18	AT	65	LEU
18	AT	73	ALA
18	AT	92	ARG
19	AU	4	ALA

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Mol	Chain	Res	Type
19	AU	6	ASP
19	AU	63	LYS
19	AU	73	ARG
19	AU	89	ILE
19	AU	90	GLU
19	AU	95	LEU
20	AV	10	GLY
20	AV	15	VAL
20	AV	31	LEU
20	AV	40	GLU
20	AV	42	VAL
20	AV	45	VAL
20	AV	46	LYS
20	AV	47	LYS
20	AV	57	GLN
20	AV	58	GLY
20	AV	65	ALA
20	AV	71	LYS
20	AV	72	VAL
20	AV	77	PRO
20	AV	82	PRO
20	AV	108	THR
21	AW	41	LEU
21	AW	42	VAL
21	AW	57	ILE
21	AW	62	PRO
21	AW	78	LYS
21	AW	79	ARG
21	AW	83	PRO
21	AW	93	ASP
21	AW	94	GLU
21	AW	108	PRO
21	AW	109	ALA
21	AW	146	ILE
21	AW	155	LEU
21	AW	159	PRO
21	AW	161	VAL
21	AW	162	GLU
21	AW	165	VAL
22	AX	2	ALA
22	AX	29	GLN
22	AX	55	ARG

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Mol	Chain	Res	Type
22	AX	84	LEU
23	AY	12	SER
23	AY	13	PRO
23	AY	15	GLU
23	AY	34	ALA
23	AY	35	SER
23	AY	42	ASN
24	AZ	9	VAL
24	AZ	11	SER
24	AZ	13	ILE
24	AZ	28	LEU
24	AZ	29	ARG
24	AZ	30	ARG
24	AZ	31	LEU
24	AZ	52	HIS
25	Aa	6	HIS
25	Aa	8	LYS
25	Aa	11	PRO
25	Aa	13	ARG
25	Aa	14	ILE
25	Aa	18	CYS
25	Aa	32	TYR
25	Aa	33	VAL
25	Aa	39	CYS
25	Aa	53	GLU
25	Aa	55	ARG
26	Ab	7	PRO
26	Ab	10	LYS
26	Ab	11	THR
26	Ab	18	ALA
26	Ab	23	HIS
26	Ab	36	CYS
26	Ab	38	ALA
26	Ab	42	PRO
27	Ac	8	LYS
27	Ac	17	LYS
27	Ac	20	ASN
27	Ac	23	THR
27	Ac	26	ASN
27	Ac	27	LYS
27	Ac	29	ASN
27	Ac	30	THR

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Mol	Chain	Res	Type
27	Ac	36	LEU
27	Ac	37	ARG
27	Ac	38	LYS
27	Ac	46	HIS
27	Ac	49	HIS
27	Ac	50	ARG
27	Ac	51	GLU
27	Ac	53	LYS
28	Ad	2	LYS
28	Ad	10	ARG
28	Ad	41	ARG
28	Ad	47	ARG
29	Ae	5	LYS
29	Ae	27	THR
29	Ae	30	ARG
29	Ae	36	LYS
29	Ae	37	SER
29	Ae	39	LYS
29	Ae	62	LEU
29	Ae	63	PRO
30	Af	5	ALA
30	Af	9	ARG
30	Af	10	ILE
30	Af	11	CYS
31	AI	7	VAL
31	AI	30	GLN
31	AI	52	PHE
31	AI	53	VAL
31	AI	57	THR
31	AI	58	LEU
31	AI	74	LEU
31	AI	77	PRO
31	AI	80	VAL
31	AI	90	ALA
31	AI	93	LEU
31	AI	107	VAL
32	AJ	20	ALA
32	AJ	29	GLN
32	AJ	34	ILE
32	AJ	50	ASP
32	AJ	51	ALA
32	AJ	68	VAL

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Mol	Chain	Res	Type
32	AJ	71	THR
32	AJ	84	LEU
32	AJ	93	ARG
32	AJ	108	ALA
32	AJ	111	LYS
32	AJ	113	PRO
35	BF	8	LYS
35	BF	11	LEU
35	BF	13	ALA
35	BF	15	VAL
35	BF	16	HIS
35	BF	17	PHE
35	BF	22	LYS
35	BF	26	PRO
35	BF	37	ASN
35	BF	42	ILE
35	BF	44	LEU
35	BF	45	GLN
35	BF	76	GLN
35	BF	77	ALA
35	BF	78	GLN
35	BF	97	TRP
35	BF	104	ASN
35	BF	109	SER
35	BF	122	PHE
35	BF	124	SER
35	BF	127	ILE
35	BF	131	PRO
35	BF	147	LYS
35	BF	153	ARG
35	BF	154	LEU
35	BF	155	LEU
35	BF	161	ALA
35	BF	165	VAL
35	BF	168	THR
35	BF	169	LYS
35	BF	171	ALA
35	BF	172	ILE
35	BF	181	PHE
35	BF	191	ASP
35	BF	194	PRO
35	BF	195	ASP

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Mol	Chain	Res	Type
35	BF	200	ILE
35	BF	201	ILE
35	BF	204	ASN
35	BF	207	ALA
35	BF	211	ILE
35	BF	226	ARG
35	BF	230	VAL
35	BF	232	PRO
35	BF	236	TYR
36	BG	4	LYS
36	BG	12	LEU
36	BG	14	ILE
36	BG	18	TRP
36	BG	24	ALA
36	BG	28	GLN
36	BG	39	ILE
36	BG	43	LEU
36	BG	52	LEU
36	BG	53	ALA
36	BG	64	VAL
36	BG	65	ALA
36	BG	79	ARG
36	BG	83	ARG
36	BG	84	ILE
36	BG	95	THR
36	BG	97	LYS
36	BG	98	ASN
36	BG	119	ARG
36	BG	129	ALA
36	BG	157	ILE
36	BG	160	ALA
36	BG	176	HIS
36	BG	177	THR
36	BG	179	ARG
36	BG	191	THR
36	BG	192	THR
37	BH	3	ARG
37	BH	17	VAL
37	BH	18	LYS
37	BH	21	LEU
37	BH	29	PRO
37	BH	30	LYS

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Mol	Chain	Res	Type
37	BH	31	CYS
37	BH	48	ALA
37	BH	56	VAL
37	BH	71	SER
37	BH	86	LYS
37	BH	88	VAL
37	BH	99	SER
37	BH	109	GLY
37	BH	131	ARG
37	BH	142	PRO
37	BH	148	VAL
37	BH	150	GLU
37	BH	151	LYS
37	BH	154	ASN
37	BH	166	LYS
37	BH	168	ARG
37	BH	170	VAL
37	BH	179	GLU
37	BH	191	ARG
37	BH	195	ALA
37	BH	198	VAL
37	BH	199	ASN
38	BI	12	LEU
38	BI	55	VAL
38	BI	75	THR
38	BI	128	PRO
38	BI	144	THR
39	BJ	11	ASN
39	BJ	16	GLN
39	BJ	27	GLN
39	BJ	72	VAL
39	BJ	81	ILE
39	BJ	82	ARG
39	BJ	84	ASN
39	BJ	85	VAL
39	BJ	95	GLU
39	BJ	97	PHE
40	BK	4	ARG
40	BK	8	GLU
40	BK	14	PRO
40	BK	17	VAL
40	BK	31	MET

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Mol	Chain	Res	Type
40	BK	35	LYS
40	BK	37	ASN
40	BK	71	PRO
40	BK	91	VAL
40	BK	111	ARG
40	BK	134	ALA
40	BK	142	GLU
41	BL	6	ILE
41	BL	13	ILE
41	BL	29	SER
41	BL	30	ARG
41	BL	63	LEU
41	BL	74	PRO
41	BL	75	ARG
41	BL	76	PRO
41	BL	77	GLU
41	BL	79	VAL
41	BL	103	VAL
41	BL	105	ARG
41	BL	115	SER
41	BL	121	ASP
41	BL	129	VAL
42	BM	29	ASN
42	BM	33	PHE
42	BM	44	VAL
42	BM	70	LYS
42	BM	98	PRO
42	BM	109	VAL
42	BM	116	LYS
42	BM	118	LYS
43	BN	34	VAL
43	BN	36	GLY
43	BN	39	PRO
43	BN	40	LEU
43	BN	55	LYS
43	BN	56	HIS
43	BN	60	ARG
43	BN	72	VAL
43	BN	79	ARG
43	BN	80	LYS
43	BN	90	LEU
44	BO	14	VAL

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Mol	Chain	Res	Type
44	BO	15	ALA
44	BO	27	ASN
44	BO	39	PRO
44	BO	74	ALA
44	BO	78	GLN
44	BO	106	LYS
44	BO	113	PRO
44	BO	116	HIS
45	BP	6	THR
45	BP	7	ILE
45	BP	18	VAL
45	BP	19	ARG
45	BP	22	SER
45	BP	28	LYS
45	BP	30	ALA
45	BP	46	LYS
45	BP	48	PRO
45	BP	51	ALA
45	BP	62	SER
45	BP	66	VAL
45	BP	83	VAL
45	BP	92	ASP
45	BP	101	VAL
45	BP	110	VAL
45	BP	116	SER
45	BP	127	GLU
46	BQ	12	ASN
46	BQ	47	ASP
46	BQ	48	LEU
46	BQ	102	ARG
46	BQ	107	ALA
47	BR	12	ARG
47	BR	18	VAL
47	BR	29	ARG
47	BR	31	ARG
47	BR	34	TYR
47	BR	36	PHE
47	BR	44	LEU
47	BR	54	PRO
47	BR	55	GLY
48	BS	3	ILE
48	BS	16	ALA

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Mol	Chain	Res	Type
49	BT	11	SER
49	BT	15	PRO
49	BT	24	ALA
49	BT	27	LYS
49	BT	61	SER
50	BU	3	LYS
50	BU	4	LYS
50	BU	15	MET
50	BU	34	LYS
50	BU	48	GLU
50	BU	50	LYS
50	BU	81	ARG
50	BU	104	LYS
51	BV	42	ARG
51	BV	49	LYS
51	BV	52	PRO
51	BV	59	SER
51	BV	75	ILE
51	BV	79	LEU
51	BV	82	THR
51	BV	87	ARG
52	BW	9	VAL
52	BW	21	GLU
52	BW	28	LYS
52	BW	32	LYS
52	BW	40	ILE
52	BW	42	PRO
52	BW	43	GLU
52	BW	64	GLU
52	BW	70	LYS
52	BW	79	THR
53	BX	12	ALA
53	BX	99	LEU
53	BX	105	SER
54	BY	6	ARG
54	BY	9	ARG
57	BZ	11	ILE
57	BZ	18	LYS
57	BZ	28	GLN
57	BZ	42	VAL
57	BZ	56	ILE
57	BZ	58	ALA

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Mol	Chain	Res	Type
57	BZ	71	ASN
57	BZ	133	PRO
57	BZ	135	ALA
57	BZ	179	MET
57	BZ	182	ASP
57	BZ	184	THR
57	BZ	209	ILE
57	BZ	231	VAL
57	BZ	253	LYS
57	BZ	284	ILE
57	BZ	289	CYS
57	BZ	305	PRO
57	BZ	307	VAL
57	BZ	314	ASN
57	BZ	321	LYS
57	BZ	395	ARG
57	BZ	424	GLY
57	BZ	437	VAL
57	BZ	442	VAL
57	BZ	475	VAL
57	BZ	476	ARG
57	BZ	477	PRO
57	BZ	557	LEU
57	BZ	561	ILE
57	BZ	567	GLN
57	BZ	583	THR
57	BZ	603	ALA
3	AC	22	ILE
3	AC	80	GLY
3	AC	132	GLY
3	AC	140	PRO
3	AC	161	ILE
3	AC	164	ARG
4	AD	52	ARG
4	AD	62	TYR
4	AD	110	GLY
4	AD	111	LEU
4	AD	123	ALA
4	AD	149	PRO
4	AD	152	GLY
4	AD	189	CYS
4	AD	196	VAL

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Mol	Chain	Res	Type
4	AD	204	ILE
4	AD	207	GLY
4	AD	217	ARG
4	AD	243	GLY
4	AD	262	ARG
4	AD	263	ARG
4	AD	266	SER
5	AE	22	PRO
5	AE	44	TYR
5	AE	72	VAL
5	AE	93	VAL
5	AE	95	ILE
5	AE	115	GLY
5	AE	118	LYS
5	AE	121	ASN
5	AE	124	GLY
5	AE	139	GLY
5	AE	155	LYS
5	AE	178	GLU
5	AE	187	ALA
6	AF	54	ARG
6	AF	81	PRO
6	AF	98	SER
6	AF	102	PRO
6	AF	126	VAL
6	AF	136	THR
6	AF	158	THR
6	AF	167	ALA
6	AF	177	ALA
6	AF	184	TYR
6	AF	190	GLU
7	AG	20	ILE
7	AG	24	GLY
7	AG	61	ALA
7	AG	88	ILE
7	AG	151	ALA
7	AG	154	GLY
7	AG	163	ALA
8	AH	31	GLY
8	AH	33	LEU
8	AH	42	ARG
8	AH	57	ASP

Continued on next page...

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Mol	Chain	Res	Type
8	AH	105	LEU
8	AH	110	SER
8	AH	118	PRO
8	AH	120	GLY
8	AH	151	ILE
8	AH	156	ALA
8	AH	169	VAL
9	AK	19	GLU
9	AK	30	ILE
9	AK	34	LEU
9	AK	38	HIS
9	AK	40	PRO
9	AK	47	ALA
9	AK	63	THR
9	AK	67	LEU
9	AK	88	GLU
9	AK	92	ALA
9	AK	105	GLY
9	AK	110	GLY
9	AK	114	ARG
10	AL	49	ARG
10	AL	50	GLY
10	AL	52	VAL
10	AL	88	ASN
10	AL	90	GLN
10	AL	102	VAL
10	AL	104	ARG
10	AL	121	VAL
11	AM	7	ARG
11	AM	11	GLY
11	AM	23	PRO
11	AM	32	THR
11	AM	34	GLY
11	AM	39	LYS
11	AM	43	GLY
11	AM	67	MET
11	AM	84	ASN
11	AM	87	ASP
11	AM	92	GLU
12	AN	12	GLN
12	AN	45	GLN
12	AN	88	GLY

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Mol	Chain	Res	Type
12	AN	94	VAL
12	AN	100	GLY
12	AN	107	ALA
12	AN	127	ILE
12	AN	136	ALA
12	AN	137	TYR
13	AO	8	ARG
13	AO	71	GLN
13	AO	86	ARG
13	AO	94	TYR
14	AP	11	LYS
14	AP	23	ARG
14	AP	33	LYS
14	AP	43	GLU
14	AP	67	ARG
14	AP	78	LEU
14	AP	82	ILE
14	AP	97	ARG
15	AQ	24	PRO
15	AQ	30	VAL
15	AQ	36	GLU
15	AQ	41	ARG
15	AQ	82	LEU
15	AQ	99	LEU
15	AQ	104	ASN
15	AQ	114	LEU
16	AR	26	GLY
16	AR	27	LEU
16	AR	47	TYR
16	AR	53	ARG
16	AR	78	THR
16	AR	88	ILE
16	AR	90	VAL
16	AR	93	LYS
16	AR	110	VAL
17	AS	8	GLY
17	AS	14	VAL
17	AS	18	LEU
17	AS	45	THR
17	AS	72	VAL
17	AS	81	TYR
18	AT	15	ARG

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Mol	Chain	Res	Type
18	AT	26	GLY
18	AT	30	GLU
18	AT	75	TYR
18	AT	90	ARG
19	AU	8	ILE
19	AU	15	GLU
19	AU	33	LYS
19	AU	49	VAL
19	AU	53	LYS
19	AU	67	GLY
19	AU	74	PRO
19	AU	85	PRO
20	AV	21	LYS
20	AV	29	GLU
20	AV	33	LYS
20	AV	34	LYS
20	AV	48	ALA
20	AV	66	PRO
20	AV	83	THR
20	AV	86	ARG
20	AV	95	LYS
20	AV	106	LEU
21	AW	11	GLU
21	AW	31	ARG
21	AW	50	GLN
21	AW	54	HIS
21	AW	123	ASP
21	AW	169	GLU
21	AW	170	THR
22	AX	21	LEU
22	AX	67	VAL
23	AY	17	GLU
23	AY	66	ASN
24	AZ	39	ASP
24	AZ	53	LEU
25	Aa	3	GLU
25	Aa	7	PRO
25	Aa	21	VAL
25	Aa	48	ARG
25	Aa	50	VAL
25	Aa	51	ASP
25	Aa	56	VAL

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Mol	Chain	Res	Type
26	Ab	20	ARG
27	Ac	18	ARG
27	Ac	28	ARG
27	Ac	31	PRO
27	Ac	32	ASN
27	Ac	48	VAL
27	Ac	52	VAL
28	Ad	3	ARG
28	Ad	5	TRP
28	Ad	14	LYS
28	Ad	19	ARG
29	Ae	32	LEU
29	Ae	34	TRP
29	Ae	52	LYS
30	Af	3	VAL
30	Af	7	VAL
30	Af	33	LYS
31	AI	23	SER
31	AI	55	LYS
31	AI	73	GLY
31	AI	91	LYS
31	AI	116	ILE
31	AI	136	ALA
31	AI	154	GLY
32	AJ	66	THR
32	AJ	69	THR
32	AJ	74	ALA
32	AJ	86	LYS
32	AJ	90	LYS
35	BF	9	GLU
35	BF	29	ALA
35	BF	73	THR
35	BF	102	LEU
35	BF	151	GLY
35	BF	178	ARG
35	BF	190	THR
35	BF	227	GLY
36	BG	27	LYS
36	BG	30	ARG
36	BG	66	VAL
36	BG	74	GLY
36	BG	101	LEU

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Mol	Chain	Res	Type
36	BG	158	GLY
36	BG	206	GLU
37	BH	4	TYR
37	BH	67	ILE
37	BH	73	ARG
37	BH	101	LEU
37	BH	107	ARG
37	BH	138	TYR
37	BH	139	ARG
37	BH	165	MET
37	BH	181	MET
37	BH	200	GLU
37	BH	208	SER
38	BI	37	ARG
38	BI	98	THR
38	BI	102	ALA
38	BI	104	ALA
39	BJ	13	ASN
39	BJ	14	LEU
39	BJ	51	PRO
39	BJ	83	ASP
40	BK	23	VAL
40	BK	56	GLN
40	BK	72	ARG
40	BK	92	SER
40	BK	94	ARG
40	BK	112	PRO
40	BK	113	GLU
40	BK	146	GLU
40	BK	153	HIS
41	BL	37	ARG
41	BL	78	GLN
41	BL	97	VAL
41	BL	102	ARG
41	BL	108	GLY
41	BL	123	GLU
41	BL	134	ILE
42	BM	39	GLY
42	BM	68	GLY
42	BM	71	SER
42	BM	94	ALA
42	BM	104	ARG

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Mol	Chain	Res	Type
42	BM	114	TYR
42	BM	120	ARG
42	BM	125	TYR
43	BN	31	GLY
43	BN	58	ASP
43	BN	61	GLU
43	BN	78	ASN
43	BN	94	VAL
44	BO	13	GLN
44	BO	55	LYS
44	BO	76	GLY
44	BO	102	GLY
44	BO	104	GLN
44	BO	115	PRO
45	BP	31	PRO
45	BP	41	ARG
45	BP	42	THR
45	BP	76	ASN
45	BP	87	GLY
45	BP	94	PRO
45	BP	126	LYS
46	BQ	46	LYS
46	BQ	64	TRP
46	BQ	65	LYS
46	BQ	86	CYS
47	BR	5	ALA
47	BR	9	LYS
47	BR	17	LYS
47	BR	22	THR
47	BR	28	GLY
47	BR	56	VAL
48	BS	6	GLU
48	BS	46	HIS
48	BS	76	GLU
48	BS	83	GLU
48	BS	87	ILE
49	BT	30	GLY
49	BT	43	LYS
49	BT	82	GLN
50	BU	16	GLN
50	BU	33	GLY
50	BU	96	GLN

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Mol	Chain	Res	Type
50	BU	98	LEU
51	BV	28	GLU
51	BV	34	TYR
51	BV	37	VAL
51	BV	38	GLU
51	BV	54	ARG
51	BV	64	ARG
52	BW	13	ASP
52	BW	20	LEU
52	BW	36	ARG
52	BW	65	ASN
52	BW	71	LEU
53	BX	49	ALA
53	BX	56	MET
53	BX	68	LYS
53	BX	101	GLY
53	BX	102	GLY
53	BX	103	GLY
54	BY	7	ARG
57	BZ	13	HIS
57	BZ	54	ILE
57	BZ	62	ALA
57	BZ	84	GLU
57	BZ	91	MET
57	BZ	155	ASP
57	BZ	160	PHE
57	BZ	181	GLU
57	BZ	216	SER
57	BZ	217	TYR
57	BZ	218	VAL
57	BZ	236	GLN
57	BZ	246	THR
57	BZ	306	THR
57	BZ	316	SER
57	BZ	323	GLY
57	BZ	392	ILE
57	BZ	462	THR
57	BZ	468	THR
57	BZ	503	GLY
57	BZ	516	ALA
57	BZ	535	VAL
57	BZ	565	LEU

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Mol	Chain	Res	Type
57	BZ	572	ILE
57	BZ	573	ASP
3	AC	59	ARG
3	AC	69	GLY
3	AC	78	ALA
3	AC	90	GLY
3	AC	167	LYS
3	AC	226	PRO
4	AD	56	GLY
4	AD	86	PRO
4	AD	226	MET
4	AD	227	ASN
4	AD	233	HIS
4	AD	245	PRO
4	AD	246	PRO
4	AD	259	THR
5	AE	51	PHE
5	AE	67	PHE
5	AE	75	VAL
5	AE	126	PRO
6	AF	21	ALA
6	AF	24	LEU
6	AF	72	ARG
6	AF	159	GLY
7	AG	30	GLU
7	AG	57	ALA
7	AG	81	LYS
7	AG	106	LEU
7	AG	125	PHE
7	AG	167	GLU
7	AG	178	PHE
8	AH	67	LEU
8	AH	94	TYR
8	AH	114	VAL
9	AK	18	ALA
9	AK	29	LYS
9	AK	109	LYS
9	AK	138	LEU
10	AL	10	VAL
10	AL	59	LYS
10	AL	91	LEU
10	AL	92	GLU

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Mol	Chain	Res	Type
10	AL	109	LYS
11	AM	16	ARG
11	AM	26	GLY
11	AM	37	GLY
11	AM	81	GLN
12	AN	26	TYR
12	AN	31	ASP
12	AN	46	GLN
12	AN	73	PRO
12	AN	115	MET
13	AO	5	LYS
13	AO	49	ASP
13	AO	58	GLY
13	AO	100	LEU
14	AP	10	ARG
14	AP	60	GLY
14	AP	66	ALA
14	AP	72	ALA
14	AP	102	ALA
15	AQ	4	GLY
15	AQ	28	VAL
15	AQ	102	ILE
16	AR	6	THR
16	AR	96	ALA
16	AR	97	ASP
17	AS	29	PRO
18	AT	66	GLU
18	AT	67	ASP
19	AU	48	LYS
20	AV	16	ALA
20	AV	74	PRO
21	AW	64	GLY
21	AW	80	ARG
21	AW	82	ARG
21	AW	95	PRO
21	AW	131	ARG
21	AW	145	GLU
21	AW	160	GLY
22	AX	56	ASP
22	AX	83	PRO
25	Aa	27	THR
25	Aa	58	ARG

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Mol	Chain	Res	Type
25	Aa	61	ARG
26	Ab	5	PRO
26	Ab	9	LYS
26	Ab	14	ALA
26	Ab	47	PRO
26	Ab	59	GLU
27	Ac	25	LYS
27	Ac	34	LEU
28	Ad	4	THR
28	Ad	11	LYS
28	Ad	31	LEU
28	Ad	39	ARG
28	Ad	40	TRP
28	Ad	46	VAL
29	Ae	13	ARG
29	Ae	18	ALA
29	Ae	41	ILE
29	Ae	53	PRO
29	Ae	57	ARG
29	Ae	61	LEU
31	AI	49	ALA
31	AI	104	ILE
32	AJ	22	PRO
32	AJ	32	ALA
32	AJ	117	THR
35	BF	88	ALA
35	BF	96	ARG
35	BF	110	GLN
35	BF	141	GLU
35	BF	157	ARG
35	BF	180	LEU
35	BF	183	PRO
35	BF	237	ALA
36	BG	7	PRO
36	BG	49	SER
36	BG	62	ASP
36	BG	81	GLY
36	BG	127	ARG
36	BG	139	GLN
36	BG	145	GLY
36	BG	178	LEU
36	BG	181	ASN

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Mol	Chain	Res	Type
37	BH	7	PRO
37	BH	40	PRO
37	BH	51	PRO
37	BH	53	ASP
37	BH	153	ARG
38	BI	26	PHE
38	BI	96	PRO
38	BI	112	LEU
39	BJ	12	PRO
39	BJ	15	ASP
39	BJ	17	SER
39	BJ	69	GLU
40	BK	6	ARG
40	BK	38	LEU
40	BK	103	TRP
40	BK	121	ALA
41	BL	24	THR
41	BL	39	LEU
41	BL	41	ARG
41	BL	44	PHE
41	BL	69	ARG
41	BL	73	ASP
41	BL	90	GLY
42	BM	43	ALA
42	BM	47	LEU
42	BM	102	LEU
42	BM	103	THR
42	BM	105	ASP
42	BM	117	HIS
43	BN	77	PRO
44	BO	37	GLY
44	BO	53	SER
44	BO	93	GLN
44	BO	123	LYS
45	BP	23	LYS
45	BP	26	ALA
45	BP	80	HIS
45	BP	100	ILE
45	BP	105	TYR
45	BP	106	ASP
45	BP	107	ALA
45	BP	121	GLY

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Mol	Chain	Res	Type
45	BP	122	THR
46	BQ	11	ARG
46	BQ	14	ARG
46	BQ	38	GLY
46	BQ	67	GLU
46	BQ	72	ALA
46	BQ	96	LEU
48	BS	19	PRO
48	BS	33	THR
48	BS	88	ARG
49	BT	28	ARG
49	BT	44	THR
49	BT	66	PRO
50	BU	14	LYS
51	BV	71	LYS
51	BV	72	ARG
51	BV	81	PHE
52	BW	25	LYS
52	BW	30	LEU
52	BW	52	TYR
53	BX	15	ARG
53	BX	24	LEU
53	BX	32	ALA
53	BX	50	GLU
53	BX	57	ARG
53	BX	59	ALA
53	BX	76	ALA
53	BX	84	LEU
57	BZ	37	GLU
57	BZ	64	ILE
57	BZ	110	ARG
57	BZ	118	ALA
57	BZ	178	ASP
57	BZ	185	PRO
57	BZ	230	LYS
57	BZ	243	GLU
57	BZ	244	GLY
57	BZ	245	LYS
57	BZ	257	HIS
57	BZ	267	LEU
57	BZ	292	GLN
57	BZ	315	THR

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Mol	Chain	Res	Type
57	BZ	317	PRO
57	BZ	324	LYS
57	BZ	409	GLU
57	BZ	428	ASN
57	BZ	434	LYS
57	BZ	471	HIS
57	BZ	485	ASN
57	BZ	539	THR
57	BZ	552	ASP
3	AC	56	GLN
3	AC	71	GLN
3	AC	148	ASN
4	AD	37	LEU
4	AD	209	ALA
4	AD	248	SER
4	AD	257	LEU
5	AE	28	ALA
5	AE	32	PRO
5	AE	53	PRO
5	AE	89	ASP
5	AE	94	GLU
5	AE	119	ARG
5	AE	135	HIS
5	AE	143	ASN
5	AE	165	VAL
6	AF	64	ILE
6	AF	111	ALA
6	AF	137	LYS
6	AF	168	ARG
6	AF	183	VAL
7	AG	153	ARG
7	AG	166	ASP
8	AH	58	GLU
8	AH	138	LYS
8	AH	154	PRO
9	AK	28	THR
9	AK	90	MET
9	AK	108	PRO
10	AL	106	LEU
11	AM	9	ASN
11	AM	15	ARG
11	AM	25	SER

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Mol	Chain	Res	Type
11	AM	35	HIS
11	AM	63	PRO
11	AM	89	ALA
11	AM	108	LYS
12	AN	22	LYS
12	AN	37	LEU
12	AN	79	LEU
12	AN	84	GLY
12	AN	89	ASN
12	AN	98	LYS
13	AO	12	ARG
13	AO	42	LYS
14	AP	59	LYS
14	AP	80	LEU
14	AP	89	ARG
15	AQ	9	LEU
15	AQ	77	PRO
15	AQ	96	ARG
15	AQ	110	ILE
15	AQ	111	ARG
15	AQ	112	ARG
16	AR	41	ALA
16	AR	60	LEU
16	AR	72	HIS
16	AR	111	GLU
17	AS	2	PHE
19	AU	32	PRO
20	AV	85	VAL
21	AW	47	VAL
21	AW	113	ALA
23	AY	36	ILE
24	AZ	23	LEU
24	AZ	42	ALA
25	Aa	26	SER
25	Aa	41	PRO
25	Aa	52	THR
26	Ab	24	ALA
26	Ab	48	GLU
26	Ab	56	LYS
26	Ab	58	LEU
27	Ac	40	CYS
27	Ac	47	THR

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Mol	Chain	Res	Type
28	Ad	35	ARG
30	Af	4	ARG
30	Af	12	ASP
30	Af	29	ASN
31	AI	21	GLN
31	AI	129	PRO
31	AI	144	ALA
32	AJ	28	GLY
32	AJ	95	LYS
35	BF	74	LYS
35	BF	91	PRO
35	BF	98	LEU
35	BF	150	SER
35	BF	158	LEU
35	BF	167	PRO
35	BF	174	VAL
35	BF	193	ASP
35	BF	229	VAL
36	BG	3	ASN
36	BG	16	ARG
36	BG	109	PRO
37	BH	36	ARG
37	BH	147	ALA
37	BH	196	LEU
38	BI	53	LEU
38	BI	153	LYS
40	BK	32	ARG
40	BK	93	PRO
40	BK	97	GLN
40	BK	131	LYS
40	BK	155	ARG
41	BL	71	GLY
42	BM	55	ALA
42	BM	95	LYS
42	BM	110	GLU
42	BM	126	SER
43	BN	30	SER
43	BN	53	PRO
43	BN	54	PHE
44	BO	118	GLY
45	BP	16	GLU
45	BP	17	LYS

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Mol	Chain	Res	Type
45	BP	70	ILE
46	BQ	5	ALA
47	BR	16	PHE
48	BS	5	LYS
48	BS	44	LYS
49	BT	54	GLU
49	BT	57	ARG
49	BT	64	ALA
50	BU	6	LEU
50	BU	53	LEU
52	BW	76	PRO
53	BX	58	LYS
53	BX	61	SER
53	BX	78	ALA
53	BX	97	ALA
54	BY	8	THR
54	BY	24	ARG
57	BZ	20	THR
57	BZ	24	LYS
57	BZ	51	GLU
57	BZ	76	PRO
57	BZ	269	GLU
57	BZ	286	ASP
57	BZ	427	LYS
57	BZ	544	THR
57	BZ	592	LEU
3	AC	20	TYR
3	AC	84	LYS
3	AC	117	PRO
3	AC	200	LYS
4	AD	88	ARG
4	AD	208	LYS
4	AD	210	GLY
4	AD	231	HIS
5	AE	8	LYS
5	AE	58	ARG
5	AE	129	HIS
5	AE	179	GLU
6	AF	178	PRO
6	AF	182	ASN
6	AF	185	ASP
7	AG	7	LEU

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Mol	Chain	Res	Type
7	AG	113	ARG
7	AG	135	LEU
8	AH	75	ALA
8	AH	175	LYS
9	AK	78	TYR
9	AK	87	LEU
9	AK	112	LEU
10	AL	67	LYS
11	AM	19	VAL
11	AM	31	ALA
11	AM	120	ALA
11	AM	131	SER
12	AN	62	GLY
12	AN	119	ARG
13	AO	74	LYS
15	AQ	13	ARG
16	AR	9	VAL
17	AS	66	ARG
19	AU	24	GLY
20	AV	17	SER
21	AW	85	HIS
21	AW	168	GLU
24	AZ	17	LYS
25	Aa	24	THR
26	Ab	51	TYR
31	AI	51	LEU
31	AI	120	LYS
31	AI	128	LEU
31	AI	130	THR
32	AJ	12	LEU
32	AJ	100	THR
35	BF	75	LYS
36	BG	146	ALA
36	BG	174	PRO
38	BI	95	ALA
38	BI	113	ALA
39	BJ	36	ARG
40	BK	122	HIS
41	BL	65	TYR
41	BL	104	ARG
42	BM	52	ALA
42	BM	107	ARG

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Mol	Chain	Res	Type
43	BN	73	ASP
45	BP	111	LYS
45	BP	123	LYS
46	BQ	45	VAL
47	BR	13	THR
48	BS	29	VAL
49	BT	36	ILE
51	BV	19	LYS
52	BW	11	VAL
52	BW	29	ARG
52	BW	67	VAL
52	BW	73	GLU
53	BX	25	ARG
53	BX	60	GLU
54	BY	10	ARG
54	BY	22	ARG
57	BZ	25	LEU
57	BZ	29	SER
57	BZ	35	ARG
57	BZ	69	ARG
57	BZ	132	ARG
57	BZ	137	PRO
57	BZ	157	GLN
57	BZ	201	LEU
57	BZ	212	LEU
57	BZ	223	ILE
57	BZ	339	LEU
57	BZ	398	GLU
57	BZ	407	VAL
57	BZ	467	SER
57	BZ	469	PHE
57	BZ	482	GLN
57	BZ	518	VAL
57	BZ	537	CYS
57	BZ	549	SER
57	BZ	556	VAL
3	AC	49	ILE
4	AD	83	GLU
4	AD	238	GLY
4	AD	254	THR
6	AF	134	GLY
7	AG	44	GLY

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Mol	Chain	Res	Type
8	AH	125	VAL
8	AH	131	VAL
8	AH	173	PRO
10	AL	115	VAL
12	AN	28	ALA
12	AN	47	ILE
12	AN	91	GLU
13	AO	61	HIS
15	AQ	80	SER
16	AR	7	GLY
25	Aa	2	LYS
25	Aa	22	ILE
25	Aa	29	PRO
26	Ab	27	PRO
26	Ab	31	VAL
26	Ab	49	CYS
29	Ae	8	LYS
29	Ae	14	VAL
29	Ae	20	GLY
29	Ae	31	HIS
29	Ae	33	ASN
32	AJ	19	PRO
32	AJ	52	ILE
32	AJ	89	HIS
32	AJ	91	PRO
35	BF	20	GLU
35	BF	118	LEU
35	BF	176	GLU
36	BG	87	LEU
37	BH	94	LEU
37	BH	117	ALA
38	BI	142	LEU
39	BJ	37	VAL
40	BK	18	TYR
40	BK	50	ILE
40	BK	96	GLN
40	BK	130	GLY
41	BL	80	ILE
42	BM	57	GLY
43	BN	37	PRO
43	BN	41	PRO
44	BO	34	ASP

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Mol	Chain	Res	Type
45	BP	90	VAL
46	BQ	20	THR
50	BU	17	LYS
50	BU	80	GLY
53	BX	20	LEU
53	BX	67	ALA
57	BZ	41	ARG
57	BZ	66	TRP
57	BZ	198	ASP
57	BZ	251	VAL
3	AC	41	VAL
4	AD	127	VAL
11	AM	53	GLY
12	AN	19	GLY
12	AN	61	GLY
16	AR	87	GLY
16	AR	105	VAL
20	AV	24	VAL
21	AW	141	VAL
24	AZ	43	ILE
31	AI	31	GLY
32	AJ	96	VAL
35	BF	130	ARG
36	BG	70	VAL
37	BH	92	VAL
44	BO	49	GLY
46	BQ	60	VAL
47	BR	7	ILE
48	BS	82	ILE
57	BZ	162	ILE
57	BZ	222	GLY
57	BZ	435	GLY
5	AE	71	GLY
5	AE	116	VAL
5	AE	161	GLY
8	AH	76	VAL
9	AK	44	PRO
11	AM	97	PRO
12	AN	99	PRO
19	AU	43	VAL
22	AX	8	GLY
22	AX	73	GLY

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Mol	Chain	Res	Type
24	AZ	45	GLY
32	AJ	49	GLY
37	BH	128	VAL
37	BH	143	GLY
39	BJ	26	ILE
46	BQ	95	GLY
48	BS	45	VAL
51	BV	51	LEU
53	BX	100	ILE
57	BZ	385	PRO
4	AD	142	VAL
8	AH	55	PRO
8	AH	126	PRO
12	AN	106	VAL
21	AW	167	PRO
36	BG	197	GLY
37	BH	136	PRO
45	BP	104	VAL
57	BZ	191	VAL
57	BZ	450	GLY
57	BZ	480	VAL
3	AC	14	VAL
8	AH	115	VAL
12	AN	52	VAL
14	AP	69	VAL
17	AS	90	PRO
20	AV	44	ILE
21	AW	129	SER
21	AW	177	PRO
25	Aa	5	ILE
25	Aa	28	LYS
25	Aa	54	GLY
32	AJ	59	ILE
32	AJ	112	MET
35	BF	239	VAL
39	BJ	65	VAL
43	BN	91	PRO
45	BP	96	VAL
53	BX	41	ILE
57	BZ	134	GLY
57	BZ	233	PRO
11	AM	126	VAL

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Mol	Chain	Res	Type
14	AP	70	GLY
18	AT	80	PRO
20	AV	18	GLY
35	BF	182	ILE
42	BM	90	PRO
44	BO	48	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AC	180/180 (100%)	151 (84%)	29 (16%)	3	21
4	AD	215/215 (100%)	153 (71%)	62 (29%)	0	4
5	AE	166/166 (100%)	102 (61%)	64 (39%)	0	0
6	AF	164/164 (100%)	105 (64%)	59 (36%)	0	1
7	AG	156/156 (100%)	112 (72%)	44 (28%)	0	4
8	AH	143/143 (100%)	108 (76%)	35 (24%)	1	7
9	AK	118/118 (100%)	79 (67%)	39 (33%)	0	2
10	AL	100/100 (100%)	69 (69%)	31 (31%)	0	3
11	AM	111/111 (100%)	71 (64%)	40 (36%)	0	1
12	AN	106/106 (100%)	65 (61%)	41 (39%)	0	0
13	AO	100/100 (100%)	71 (71%)	29 (29%)	0	3
14	AP	87/87 (100%)	63 (72%)	24 (28%)	0	4
15	AQ	105/105 (100%)	68 (65%)	37 (35%)	0	1
16	AR	93/93 (100%)	64 (69%)	29 (31%)	0	3
17	AS	82/82 (100%)	57 (70%)	25 (30%)	0	3
18	AT	90/90 (100%)	64 (71%)	26 (29%)	0	4
19	AU	76/76 (100%)	57 (75%)	19 (25%)	1	6
20	AV	91/91 (100%)	72 (79%)	19 (21%)	1	11
21	AW	159/159 (100%)	120 (76%)	39 (24%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
22	AX	67/67 (100%)	51 (76%)	16 (24%)	1	7
23	AY	62/62 (100%)	44 (71%)	18 (29%)	0	3
24	AZ	51/51 (100%)	36 (71%)	15 (29%)	0	3
25	Aa	63/63 (100%)	45 (71%)	18 (29%)	0	4
26	Ab	50/50 (100%)	31 (62%)	19 (38%)	0	0
27	Ac	48/48 (100%)	32 (67%)	16 (33%)	0	2
28	Ad	42/42 (100%)	29 (69%)	13 (31%)	0	3
29	Ae	54/54 (100%)	44 (82%)	10 (18%)	2	15
30	Af	34/34 (100%)	29 (85%)	5 (15%)	4	25
32	AJ	101/101 (100%)	71 (70%)	30 (30%)	0	3
35	BF	202/202 (100%)	138 (68%)	64 (32%)	0	3
36	BG	160/160 (100%)	123 (77%)	37 (23%)	1	8
37	BH	180/180 (100%)	131 (73%)	49 (27%)	0	5
38	BI	115/115 (100%)	78 (68%)	37 (32%)	0	3
39	BJ	90/90 (100%)	61 (68%)	29 (32%)	0	3
40	BK	126/126 (100%)	93 (74%)	33 (26%)	0	6
41	BL	119/119 (100%)	86 (72%)	33 (28%)	0	4
42	BM	98/98 (100%)	73 (74%)	25 (26%)	1	6
43	BN	88/88 (100%)	67 (76%)	21 (24%)	1	7
44	BO	90/90 (100%)	73 (81%)	17 (19%)	2	14
45	BP	104/104 (100%)	81 (78%)	23 (22%)	1	10
46	BQ	92/92 (100%)	67 (73%)	25 (27%)	0	5
47	BR	49/49 (100%)	36 (74%)	13 (26%)	0	5
48	BS	79/79 (100%)	64 (81%)	15 (19%)	2	14
49	BT	72/72 (100%)	49 (68%)	23 (32%)	0	3
50	BU	96/96 (100%)	67 (70%)	29 (30%)	0	3
51	BV	64/64 (100%)	48 (75%)	16 (25%)	1	6
52	BW	71/71 (100%)	52 (73%)	19 (27%)	0	5
53	BX	76/76 (100%)	59 (78%)	17 (22%)	1	10
54	BY	19/19 (100%)	17 (90%)	2 (10%)	8	39
57	BZ	486/514 (95%)	338 (70%)	148 (30%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	5390/5418 (100%)	3864 (72%)	1526 (28%)	2 4

All (1526) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AC	6	ARG
3	AC	7	TYR
3	AC	15	ASP
3	AC	20	TYR
3	AC	27	HIS
3	AC	46	LYS
3	AC	47	LEU
3	AC	58	VAL
3	AC	59	ARG
3	AC	70	LYS
3	AC	81	GLU
3	AC	92	ASP
3	AC	99	ILE
3	AC	101	GLN
3	AC	102	LYS
3	AC	111	ASP
3	AC	125	SER
3	AC	130	ILE
3	AC	144	THR
3	AC	160	ARG
3	AC	161	ILE
3	AC	163	PHE
3	AC	164	ARG
3	AC	166	ASP
3	AC	180	PHE
3	AC	190	ARG
3	AC	202	GLU
3	AC	212	VAL
3	AC	213	TYR
4	AD	23	GLU
4	AD	31	LYS
4	AD	34	VAL
4	AD	37	LEU
4	AD	39	LYS
4	AD	44	ASN
4	AD	46	GLN
4	AD	51	VAL

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Mol	Chain	Res	Type
4	AD	52	ARG
4	AD	53	PHE
4	AD	59	LYS
4	AD	63	ARG
4	AD	70	TRP
4	AD	73	VAL
4	AD	84	TYR
4	AD	87	ASN
4	AD	88	ARG
4	AD	91	ARG
4	AD	92	ILE
4	AD	94	LEU
4	AD	95	LEU
4	AD	101	GLU
4	AD	106	ILE
4	AD	109	ASP
4	AD	115	GLN
4	AD	116	GLN
4	AD	118	VAL
4	AD	121	PRO
4	AD	131	LEU
4	AD	134	ARG
4	AD	145	VAL
4	AD	146	GLU
4	AD	147	LEU
4	AD	155	LEU
4	AD	169	GLU
4	AD	175	LEU
4	AD	176	ARG
4	AD	179	SER
4	AD	181	GLU
4	AD	186	HIS
4	AD	188	GLU
4	AD	190	TYR
4	AD	200	ASP
4	AD	202	LYS
4	AD	206	LEU
4	AD	217	ARG
4	AD	220	HIS
4	AD	230	ASP
4	AD	232	PRO
4	AD	233	HIS

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Mol	Chain	Res	Type
4	AD	239	ARG
4	AD	249	PRO
4	AD	250	TRP
4	AD	252	TRP
4	AD	253	GLN
4	AD	254	THR
4	AD	258	LYS
4	AD	259	THR
4	AD	260	ARG
4	AD	264	LYS
4	AD	270	ILE
4	AD	273	ARG
5	AE	1	MET
5	AE	2	LYS
5	AE	4	ILE
5	AE	5	LEU
5	AE	7	VAL
5	AE	8	LYS
5	AE	12	THR
5	AE	13	ARG
5	AE	14	ILE
5	AE	17	ASP
5	AE	22	PRO
5	AE	38	THR
5	AE	40	GLU
5	AE	41	LYS
5	AE	44	TYR
5	AE	45	THR
5	AE	48	GLN
5	AE	49	LEU
5	AE	51	PHE
5	AE	52	LEU
5	AE	53	PRO
5	AE	56	PRO
5	AE	66	HIS
5	AE	77	ILE
5	AE	78	LEU
5	AE	80	GLU
5	AE	83	ASP
5	AE	91	VAL
5	AE	96	PHE
5	AE	108	SER

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Mol	Chain	Res	Type
5	AE	111	ARG
5	AE	113	PHE
5	AE	118	LYS
5	AE	119	ARG
5	AE	120	TRP
5	AE	121	ASN
5	AE	122	PHE
5	AE	126	PRO
5	AE	129	HIS
5	AE	135	HIS
5	AE	136	ARG
5	AE	137	HIS
5	AE	141	ILE
5	AE	143	ASN
5	AE	149	ARG
5	AE	150	VAL
5	AE	152	LYS
5	AE	154	LYS
5	AE	163	GLU
5	AE	164	ARG
5	AE	165	VAL
5	AE	169	ASN
5	AE	170	LEU
5	AE	171	GLU
5	AE	173	VAL
5	AE	176	ILE
5	AE	180	ASN
5	AE	181	LEU
5	AE	184	VAL
5	AE	185	LYS
5	AE	195	LEU
5	AE	197	ILE
5	AE	199	ARG
5	AE	202	LYS
6	AF	8	GLN
6	AF	14	PRO
6	AF	17	ARG
6	AF	19	GLU
6	AF	23	ASP
6	AF	27	GLU
6	AF	29	ASN
6	AF	30	PRO

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Mol	Chain	Res	Type
6	AF	31	HIS
6	AF	33	LEU
6	AF	34	TRP
6	AF	35	GLU
6	AF	39	TRP
6	AF	46	ARG
6	AF	60	SER
6	AF	64	ILE
6	AF	67	GLN
6	AF	69	HIS
6	AF	74	ARG
6	AF	75	HIS
6	AF	77	ASP
6	AF	78	ILE
6	AF	82	ILE
6	AF	83	PHE
6	AF	95	ARG
6	AF	99	TYR
6	AF	102	PRO
6	AF	105	VAL
6	AF	106	ARG
6	AF	108	LYS
6	AF	117	ARG
6	AF	119	ARG
6	AF	120	GLU
6	AF	122	LYS
6	AF	126	VAL
6	AF	127	GLU
6	AF	133	ASN
6	AF	137	LYS
6	AF	138	GLU
6	AF	140	LEU
6	AF	152	GLU
6	AF	155	LEU
6	AF	157	VAL
6	AF	158	THR
6	AF	168	ARG
6	AF	170	LEU
6	AF	172	TRP
6	AF	175	THR
6	AF	178	PRO
6	AF	181	LEU

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Mol	Chain	Res	Type
6	AF	184	TYR
6	AF	185	ASP
6	AF	188	ARG
6	AF	192	LEU
6	AF	197	ASP
6	AF	200	GLU
6	AF	202	PHE
6	AF	203	GLN
6	AF	204	ASN
7	AG	8	LYS
7	AG	12	TYR
7	AG	16	ARG
7	AG	20	ILE
7	AG	21	ARG
7	AG	22	ARG
7	AG	25	TYR
7	AG	32	PRO
7	AG	33	ARG
7	AG	34	LEU
7	AG	36	LYS
7	AG	39	ILE
7	AG	41	GLN
7	AG	51	ARG
7	AG	54	GLU
7	AG	68	PRO
7	AG	77	ILE
7	AG	82	LEU
7	AG	91	ARG
7	AG	94	LEU
7	AG	96	ARG
7	AG	97	ASP
7	AG	101	ILE
7	AG	102	PHE
7	AG	103	LEU
7	AG	117	PHE
7	AG	120	LEU
7	AG	126	ASP
7	AG	128	ARG
7	AG	131	TYR
7	AG	133	LEU
7	AG	135	LEU
7	AG	139	LEU

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Mol	Chain	Res	Type
7	AG	143	GLU
7	AG	146	TYR
7	AG	148	MET
7	AG	150	ASP
7	AG	152	LEU
7	AG	153	ARG
7	AG	155	MET
7	AG	170	ARG
7	AG	174	GLU
7	AG	180	PHE
7	AG	181	ARG
8	AH	7	LEU
8	AH	11	VAL
8	AH	13	LYS
8	AH	18	GLU
8	AH	23	ARG
8	AH	25	LYS
8	AH	32	GLU
8	AH	35	VAL
8	AH	40	GLU
8	AH	46	GLU
8	AH	50	VAL
8	AH	52	VAL
8	AH	68	THR
8	AH	69	ARG
8	AH	74	ASN
8	AH	83	TYR
8	AH	90	LYS
8	AH	94	TYR
8	AH	95	ARG
8	AH	103	LEU
8	AH	105	LEU
8	AH	111	HIS
8	AH	115	VAL
8	AH	116	GLU
8	AH	131	VAL
8	AH	132	ARG
8	AH	136	ILE
8	AH	153	LYS
8	AH	157	TYR
8	AH	158	HIS
8	AH	164	TYR

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Mol	Chain	Res	Type
8	AH	167	GLU
8	AH	168	PRO
8	AH	172	LYS
8	AH	175	LYS
9	AK	7	LYS
9	AK	8	GLN
9	AK	12	ARG
9	AK	13	TRP
9	AK	15	LEU
9	AK	16	ILE
9	AK	17	ASP
9	AK	22	THR
9	AK	25	ARG
9	AK	28	THR
9	AK	32	THR
9	AK	33	LEU
9	AK	37	LYS
9	AK	38	HIS
9	AK	39	ARG
9	AK	42	TRP
9	AK	43	THR
9	AK	45	ASN
9	AK	52	VAL
9	AK	55	VAL
9	AK	69	GLN
9	AK	72	TYR
9	AK	75	TYR
9	AK	78	TYR
9	AK	79	PRO
9	AK	82	LEU
9	AK	85	ILE
9	AK	89	LYS
9	AK	90	MET
9	AK	91	LEU
9	AK	98	VAL
9	AK	101	HIS
9	AK	109	LYS
9	AK	119	ARG
9	AK	122	VAL
9	AK	127	ASP
9	AK	131	GLN
9	AK	134	ARG

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Mol	Chain	Res	Type
9	AK	136	GLU
10	AL	1	MET
10	AL	3	GLN
10	AL	6	THR
10	AL	7	TYR
10	AL	8	LEU
10	AL	12	ASP
10	AL	14	THR
10	AL	21	CYS
10	AL	23	ARG
10	AL	24	VAL
10	AL	28	SER
10	AL	29	ASN
10	AL	34	THR
10	AL	38	VAL
10	AL	39	ILE
10	AL	42	SER
10	AL	47	ILE
10	AL	56	ASP
10	AL	58	VAL
10	AL	59	LYS
10	AL	64	ARG
10	AL	65	THR
10	AL	77	ILE
10	AL	78	ARG
10	AL	82	ASN
10	AL	89	ASN
10	AL	92	GLU
10	AL	94	ARG
10	AL	97	ARG
10	AL	114	ILE
10	AL	116	SER
11	AM	7	ARG
11	AM	13	ASN
11	AM	17	LYS
11	AM	29	LYS
11	AM	30	THR
11	AM	33	ARG
11	AM	40	SER
11	AM	41	ARG
11	AM	45	LEU
11	AM	46	LYS

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Mol	Chain	Res	Type
11	AM	48	PRO
11	AM	49	ARG
11	AM	52	GLU
11	AM	55	ARG
11	AM	59	LEU
11	AM	60	MET
11	AM	64	LYS
11	AM	65	ARG
11	AM	68	GLN
11	AM	74	GLU
11	AM	75	ILE
11	AM	79	ARG
11	AM	84	ASN
11	AM	88	LEU
11	AM	94	GLU
11	AM	99	LEU
11	AM	105	LEU
11	AM	108	LYS
11	AM	110	TYR
11	AM	114	ILE
11	AM	117	GLU
11	AM	122	PRO
11	AM	123	LEU
11	AM	126	VAL
11	AM	128	HIS
11	AM	130	PHE
11	AM	137	LYS
11	AM	138	LEU
11	AM	147	LEU
11	AM	149	GLU
12	AN	6	ARG
12	AN	12	GLN
12	AN	14	ARG
12	AN	18	LYS
12	AN	26	TYR
12	AN	32	TYR
12	AN	34	LEU
12	AN	41	TRP
12	AN	42	ILE
12	AN	43	THR
12	AN	45	GLN
12	AN	48	GLU

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Mol	Chain	Res	Type
12	AN	51	ARG
12	AN	56	ARG
12	AN	60	ARG
12	AN	63	LYS
12	AN	64	ILE
12	AN	65	PHE
12	AN	71	ASP
12	AN	74	TYR
12	AN	76	LYS
12	AN	79	LEU
12	AN	80	GLU
12	AN	83	MET
12	AN	89	ASN
12	AN	97	VAL
12	AN	98	LYS
12	AN	101	ARG
12	AN	104	PHE
12	AN	105	GLU
12	AN	109	VAL
12	AN	112	GLU
12	AN	118	LEU
12	AN	124	LYS
12	AN	126	PRO
12	AN	127	ILE
12	AN	130	LYS
12	AN	133	ARG
12	AN	135	ASP
12	AN	137	TYR
12	AN	139	GLU
13	AO	4	LEU
13	AO	5	LYS
13	AO	10	LEU
13	AO	11	ASN
13	AO	13	HIS
13	AO	17	ARG
13	AO	18	LEU
13	AO	23	ASN
13	AO	37	THR
13	AO	49	ASP
13	AO	52	ILE
13	AO	56	LYS
13	AO	57	ARG

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Mol	Chain	Res	Type
13	AO	59	ASP
13	AO	60	LEU
13	AO	64	ARG
13	AO	74	LYS
13	AO	77	ARG
13	AO	79	LEU
13	AO	80	PHE
13	AO	82	GLU
13	AO	86	ARG
13	AO	88	ARG
13	AO	89	ASP
13	AO	99	LYS
13	AO	100	LEU
13	AO	105	ARG
13	AO	113	LEU
13	AO	116	LEU
14	AP	3	ARG
14	AP	9	ARG
14	AP	11	LYS
14	AP	12	PHE
14	AP	20	ARG
14	AP	21	THR
14	AP	23	ARG
14	AP	26	LEU
14	AP	27	SER
14	AP	29	PHE
14	AP	36	TYR
14	AP	38	GLN
14	AP	42	ASP
14	AP	57	LYS
14	AP	73	LEU
14	AP	76	LYS
14	AP	78	LEU
14	AP	80	LEU
14	AP	88	ASP
14	AP	94	TYR
14	AP	97	ARG
14	AP	98	VAL
14	AP	106	ARG
14	AP	112	PHE
15	AQ	1	MET
15	AQ	20	PRO

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Mol	Chain	Res	Type
15	AQ	22	PHE
15	AQ	23	ARG
15	AQ	30	VAL
15	AQ	32	TYR
15	AQ	39	ARG
15	AQ	43	GLN
15	AQ	46	GLU
15	AQ	50	ILE
15	AQ	53	ARG
15	AQ	54	ARG
15	AQ	55	ASN
15	AQ	57	PHE
15	AQ	58	ASN
15	AQ	61	PHE
15	AQ	62	THR
15	AQ	64	ARG
15	AQ	66	VAL
15	AQ	68	TYR
15	AQ	75	ILE
15	AQ	78	LEU
15	AQ	79	HIS
15	AQ	82	LEU
15	AQ	85	LYS
15	AQ	88	ILE
15	AQ	93	ARG
15	AQ	95	ARG
15	AQ	96	ARG
15	AQ	101	PHE
15	AQ	102	ILE
15	AQ	103	ARG
15	AQ	106	SER
15	AQ	107	ASP
15	AQ	108	ARG
15	AQ	109	GLU
15	AQ	117	ASP
16	AR	6	THR
16	AR	13	LYS
16	AR	16	LYS
16	AR	19	LYS
16	AR	25	TRP
16	AR	27	LEU
16	AR	32	PHE

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Mol	Chain	Res	Type
16	AR	36	ARG
16	AR	38	THR
16	AR	50	ARG
16	AR	52	ARG
16	AR	53	ARG
16	AR	54	LYS
16	AR	55	ARG
16	AR	58	ARG
16	AR	65	ILE
16	AR	70	ARG
16	AR	75	ASN
16	AR	77	SER
16	AR	81	HIS
16	AR	83	LEU
16	AR	88	ILE
16	AR	92	ARG
16	AR	93	LYS
16	AR	97	ASP
16	AR	105	VAL
16	AR	106	PHE
16	AR	108	GLU
16	AR	114	LYS
17	AS	4	ILE
17	AS	13	ARG
17	AS	15	GLU
17	AS	18	LEU
17	AS	20	LEU
17	AS	21	ARG
17	AS	29	PRO
17	AS	35	LEU
17	AS	36	PRO
17	AS	40	LEU
17	AS	43	GLU
17	AS	44	LYS
17	AS	45	THR
17	AS	49	THR
17	AS	52	VAL
17	AS	56	SER
17	AS	60	GLU
17	AS	64	HIS
17	AS	78	LYS
17	AS	79	VAL

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Mol	Chain	Res	Type
17	AS	83	ARG
17	AS	84	LYS
17	AS	87	HIS
17	AS	93	GLU
17	AS	100	ARG
18	AT	4	LYS
18	AT	8	ARG
18	AT	10	VAL
18	AT	11	ARG
18	AT	12	ILE
18	AT	16	LYS
18	AT	18	ARG
18	AT	24	ILE
18	AT	31	GLU
18	AT	33	ARG
18	AT	40	ASN
18	AT	42	ARG
18	AT	45	TYR
18	AT	47	VAL
18	AT	60	ASN
18	AT	67	ASP
18	AT	71	VAL
18	AT	82	LEU
18	AT	87	PRO
18	AT	88	ARG
18	AT	90	ARG
18	AT	94	ASP
18	AT	95	ILE
18	AT	98	LYS
18	AT	103	ILE
18	AT	106	ILE
19	AU	8	ILE
19	AU	9	LEU
19	AU	13	LEU
19	AU	14	SER
19	AU	16	LYS
19	AU	23	GLU
19	AU	28	PHE
19	AU	36	LYS
19	AU	37	THR
19	AU	38	GLU
19	AU	45	THR

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Mol	Chain	Res	Type
19	AU	47	PHE
19	AU	50	LYS
19	AU	55	ASN
19	AU	63	LYS
19	AU	65	ARG
19	AU	73	ARG
19	AU	83	VAL
19	AU	92	LEU
20	AV	12	THR
20	AV	13	VAL
20	AV	14	LEU
20	AV	19	LYS
20	AV	26	LYS
20	AV	28	LYS
20	AV	35	TYR
20	AV	42	VAL
20	AV	60	PHE
20	AV	64	GLU
20	AV	73	ARG
20	AV	75	ILE
20	AV	84	ARG
20	AV	89	PHE
20	AV	90	LEU
20	AV	91	GLU
20	AV	102	CYS
20	AV	107	ASP
20	AV	109	GLU
21	AW	3	TYR
21	AW	8	TYR
21	AW	13	GLU
21	AW	14	LYS
21	AW	28	MET
21	AW	30	ASN
21	AW	44	PHE
21	AW	45	ASP
21	AW	49	ARG
21	AW	50	GLN
21	AW	53	ILE
21	AW	55	HIS
21	AW	58	VAL
21	AW	60	GLU
21	AW	62	PRO

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Mol	Chain	Res	Type
21	AW	63	ASP
21	AW	70	LEU
21	AW	78	LYS
21	AW	80	ARG
21	AW	83	PRO
21	AW	86	VAL
21	AW	87	ASP
21	AW	89	PHE
21	AW	90	VAL
21	AW	95	PRO
21	AW	104	PHE
21	AW	108	PRO
21	AW	120	ILE
21	AW	129	SER
21	AW	140	ASP
21	AW	151	HIS
21	AW	155	LEU
21	AW	159	PRO
21	AW	163	LEU
21	AW	168	GLU
21	AW	171	ILE
21	AW	174	VAL
21	AW	175	VAL
21	AW	179	ASP
22	AX	10	THR
22	AX	20	ARG
22	AX	26	TYR
22	AX	29	GLN
22	AX	30	VAL
22	AX	32	ARG
22	AX	36	ILE
22	AX	37	LEU
22	AX	40	GLN
22	AX	41	ARG
22	AX	46	LYS
22	AX	57	PHE
22	AX	58	THR
22	AX	64	ASP
22	AX	68	GLU
22	AX	74	ARG
23	AY	1	MET
23	AY	2	ARG

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Mol	Chain	Res	Type
23	AY	6	GLU
23	AY	12	SER
23	AY	19	LEU
23	AY	22	GLU
23	AY	25	ARG
23	AY	30	LEU
23	AY	32	PHE
23	AY	33	GLN
23	AY	35	SER
23	AY	45	ILE
23	AY	50	ARG
23	AY	56	LEU
23	AY	58	VAL
23	AY	64	ARG
23	AY	65	GLN
23	AY	66	ASN
24	AZ	3	ARG
24	AZ	5	LYS
24	AZ	6	VAL
24	AZ	12	PRO
24	AZ	15	TYR
24	AZ	26	LEU
24	AZ	28	LEU
24	AZ	30	ARG
24	AZ	31	LEU
24	AZ	32	GLN
24	AZ	35	ARG
24	AZ	37	LEU
24	AZ	41	PRO
24	AZ	55	ARG
24	AZ	59	VAL
25	Aa	3	GLU
25	Aa	11	PRO
25	Aa	14	ILE
25	Aa	16	CYS
25	Aa	23	GLU
25	Aa	24	THR
25	Aa	27	THR
25	Aa	29	PRO
25	Aa	31	ILE
25	Aa	32	TYR
25	Aa	37	SER

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Mol	Chain	Res	Type
25	Aa	47	GLN
25	Aa	49	PHE
25	Aa	57	GLU
25	Aa	59	PHE
25	Aa	60	GLN
25	Aa	62	ARG
25	Aa	68	ARG
26	Ab	4	HIS
26	Ab	9	LYS
26	Ab	11	THR
26	Ab	13	LYS
26	Ab	15	ARG
26	Ab	17	ASP
26	Ab	20	ARG
26	Ab	25	LEU
26	Ab	26	THR
26	Ab	30	LEU
26	Ab	33	CYS
26	Ab	36	CYS
26	Ab	37	LYS
26	Ab	39	MET
26	Ab	43	HIS
26	Ab	49	CYS
26	Ab	51	TYR
26	Ab	55	ARG
26	Ab	59	GLU
27	Ac	11	LEU
27	Ac	13	CYS
27	Ac	19	ARG
27	Ac	21	TYR
27	Ac	29	ASN
27	Ac	30	THR
27	Ac	31	PRO
27	Ac	32	ASN
27	Ac	33	LYS
27	Ac	38	LYS
27	Ac	40	CYS
27	Ac	42	TRP
27	Ac	43	CYS
27	Ac	46	HIS
27	Ac	51	GLU
27	Ac	54	ILE

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Mol	Chain	Res	Type
28	Ad	3	ARG
28	Ad	5	TRP
28	Ad	6	GLN
28	Ad	8	ASN
28	Ad	12	ARG
28	Ad	19	ARG
28	Ad	21	ARG
28	Ad	24	THR
28	Ad	34	ARG
28	Ad	36	GLN
28	Ad	41	ARG
28	Ad	46	VAL
28	Ad	48	LYS
29	Ae	5	LYS
29	Ae	8	LYS
29	Ae	16	ILE
29	Ae	33	ASN
29	Ae	39	LYS
29	Ae	42	ARG
29	Ae	44	LYS
29	Ae	50	LEU
29	Ae	59	LYS
29	Ae	62	LEU
30	Af	10	ILE
30	Af	12	ASP
30	Af	17	ILE
30	Af	19	ARG
30	Af	27	CYS
32	AJ	5	VAL
32	AJ	9	LYS
32	AJ	10	LEU
32	AJ	16	LYS
32	AJ	18	THR
32	AJ	29	GLN
32	AJ	30	HIS
32	AJ	34	ILE
32	AJ	35	MET
32	AJ	39	LYS
32	AJ	50	ASP
32	AJ	59	ILE
32	AJ	62	ASP
32	AJ	63	ARG

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Mol	Chain	Res	Type
32	AJ	64	SER
32	AJ	65	PHE
32	AJ	66	THR
32	AJ	69	THR
32	AJ	70	LYS
32	AJ	76	TYR
32	AJ	77	LEU
32	AJ	79	ARG
32	AJ	85	GLU
32	AJ	86	LYS
32	AJ	95	LYS
32	AJ	109	LYS
32	AJ	114	ASP
32	AJ	117	THR
32	AJ	120	LEU
32	AJ	121	GLU
35	BF	10	LEU
35	BF	11	LEU
35	BF	17	PHE
35	BF	20	GLU
35	BF	21	ARG
35	BF	23	ARG
35	BF	25	ASN
35	BF	26	PRO
35	BF	35	GLU
35	BF	36	ARG
35	BF	40	HIS
35	BF	44	LEU
35	BF	48	MET
35	BF	49	GLU
35	BF	52	GLU
35	BF	56	ARG
35	BF	57	PHE
35	BF	61	LEU
35	BF	64	ARG
35	BF	69	LEU
35	BF	70	PHE
35	BF	74	LYS
35	BF	75	LYS
35	BF	80	ILE
35	BF	84	GLU
35	BF	91	PRO

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Mol	Chain	Res	Type
35	BF	92	TYR
35	BF	96	ARG
35	BF	101	MET
35	BF	102	LEU
35	BF	105	PHE
35	BF	111	ARG
35	BF	114	ARG
35	BF	118	LEU
35	BF	122	PHE
35	BF	131	PRO
35	BF	132	LYS
35	BF	134	GLU
35	BF	135	GLN
35	BF	137	ARG
35	BF	147	LYS
35	BF	148	TYR
35	BF	152	PHE
35	BF	153	ARG
35	BF	154	LEU
35	BF	158	LEU
35	BF	162	ILE
35	BF	168	THR
35	BF	169	LYS
35	BF	172	ILE
35	BF	181	PHE
35	BF	182	ILE
35	BF	185	ILE
35	BF	187	LEU
35	BF	189	ASP
35	BF	191	ASP
35	BF	194	PRO
35	BF	195	ASP
35	BF	196	LEU
35	BF	204	ASN
35	BF	209	ARG
35	BF	212	GLN
35	BF	217	ARG
35	BF	222	ILE
36	BG	5	ILE
36	BG	8	ILE
36	BG	10	PHE
36	BG	15	THR

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Mol	Chain	Res	Type
36	BG	23	TYR
36	BG	29	TYR
36	BG	30	ARG
36	BG	33	LEU
36	BG	35	GLU
36	BG	38	ARG
36	BG	46	GLU
36	BG	48	TYR
36	BG	52	LEU
36	BG	59	ARG
36	BG	67	THR
36	BG	82	GLU
36	BG	89	GLU
36	BG	91	LEU
36	BG	95	THR
36	BG	97	LYS
36	BG	107	GLN
36	BG	125	GLU
36	BG	136	GLN
36	BG	139	GLN
36	BG	140	ARG
36	BG	142	MET
36	BG	164	ARG
36	BG	176	HIS
36	BG	178	LEU
36	BG	184	TYR
36	BG	186	PHE
36	BG	190	ARG
36	BG	193	TYR
36	BG	195	VAL
36	BG	196	LEU
36	BG	201	TYR
36	BG	204	LEU
37	BH	5	ILE
37	BH	8	VAL
37	BH	9	CYS
37	BH	10	ARG
37	BH	14	ARG
37	BH	15	GLU
37	BH	20	TYR
37	BH	24	GLU
37	BH	25	ARG

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Mol	Chain	Res	Type
37	BH	26	CYS
37	BH	29	PRO
37	BH	31	CYS
37	BH	33	MET
37	BH	47	ARG
37	BH	51	PRO
37	BH	57	ARG
37	BH	59	ARG
37	BH	61	LYS
37	BH	63	LYS
37	BH	68	TYR
37	BH	78	LEU
37	BH	79	PHE
37	BH	83	SER
37	BH	85	LYS
37	BH	107	ARG
37	BH	108	LEU
37	BH	114	ARG
37	BH	116	GLN
37	BH	120	LEU
37	BH	131	ARG
37	BH	135	LEU
37	BH	138	TYR
37	BH	141	ARG
37	BH	142	PRO
37	BH	146	ILE
37	BH	154	ASN
37	BH	155	LEU
37	BH	168	ARG
37	BH	173	TRP
37	BH	175	SER
37	BH	176	LEU
37	BH	178	VAL
37	BH	181	MET
37	BH	182	LYS
37	BH	190	ASP
37	BH	191	ARG
37	BH	193	ASP
37	BH	196	LEU
37	BH	198	VAL
38	BI	5	ASP
38	BI	6	PHE

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Mol	Chain	Res	Type
38	BI	7	GLU
38	BI	15	ARG
38	BI	16	THR
38	BI	25	ARG
38	BI	26	PHE
38	BI	27	ARG
38	BI	28	PHE
38	BI	31	LEU
38	BI	34	VAL
38	BI	41	VAL
38	BI	56	GLN
38	BI	60	TYR
38	BI	63	ARG
38	BI	64	ARG
38	BI	67	VAL
38	BI	73	ASN
38	BI	78	HIS
38	BI	79	GLU
38	BI	80	ILE
38	BI	81	GLU
38	BI	89	ILE
38	BI	91	LEU
38	BI	101	ILE
38	BI	105	VAL
38	BI	111	GLU
38	BI	112	LEU
38	BI	119	LEU
38	BI	121	LYS
38	BI	128	PRO
38	BI	131	ILE
38	BI	133	TYR
38	BI	141	GLN
38	BI	143	ARG
38	BI	150	ARG
38	BI	152	ARG
39	BJ	2	ARG
39	BJ	4	TYR
39	BJ	5	GLU
39	BJ	6	VAL
39	BJ	8	ILE
39	BJ	10	LEU
39	BJ	14	LEU

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Mol	Chain	Res	Type
39	BJ	28	ARG
39	BJ	37	VAL
39	BJ	40	VAL
39	BJ	47	ARG
39	BJ	48	LEU
39	BJ	50	TYR
39	BJ	55	ASP
39	BJ	57	GLN
39	BJ	60	PHE
39	BJ	65	VAL
39	BJ	66	GLU
39	BJ	67	MET
39	BJ	69	GLU
39	BJ	74	ASP
39	BJ	75	LEU
39	BJ	79	LEU
39	BJ	83	ASP
39	BJ	88	VAL
39	BJ	94	GLN
39	BJ	95	GLU
39	BJ	98	LEU
39	BJ	100	ASN
40	BK	5	ARG
40	BK	6	ARG
40	BK	10	ARG
40	BK	12	LEU
40	BK	14	PRO
40	BK	17	VAL
40	BK	18	TYR
40	BK	22	LEU
40	BK	47	CYS
40	BK	51	GLN
40	BK	54	THR
40	BK	56	GLN
40	BK	69	VAL
40	BK	72	ARG
40	BK	74	GLU
40	BK	89	MET
40	BK	99	LEU
40	BK	101	LEU
40	BK	103	TRP
40	BK	106	GLN

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Mol	Chain	Res	Type
40	BK	111	ARG
40	BK	113	GLU
40	BK	123	GLU
40	BK	124	LEU
40	BK	126	ASP
40	BK	136	LYS
40	BK	139	GLU
40	BK	143	ARG
40	BK	146	GLU
40	BK	149	ARG
40	BK	153	HIS
40	BK	155	ARG
40	BK	156	TRP
41	BL	4	ASP
41	BL	6	ILE
41	BL	14	ARG
41	BL	18	ARG
41	BL	25	ASP
41	BL	26	VAL
41	BL	31	PHE
41	BL	32	LYS
41	BL	33	GLU
41	BL	36	LEU
41	BL	37	ARG
41	BL	39	LEU
41	BL	41	ARG
41	BL	45	ILE
41	BL	49	GLU
41	BL	50	ARG
41	BL	54	ASP
41	BL	63	LEU
41	BL	70	GLN
41	BL	84	ARG
41	BL	88	LYS
41	BL	92	ARG
41	BL	98	LYS
41	BL	100	ILE
41	BL	102	ARG
41	BL	103	VAL
41	BL	104	ARG
41	BL	107	LEU
41	BL	111	ILE

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Mol	Chain	Res	Type
41	BL	119	LEU
41	BL	122	ARG
41	BL	126	LYS
41	BL	136	GLU
42	BM	4	TYR
42	BM	5	TYR
42	BM	11	LYS
42	BM	12	GLU
42	BM	19	LEU
42	BM	21	PRO
42	BM	23	ASN
42	BM	32	ASP
42	BM	33	PHE
42	BM	37	PHE
42	BM	47	LEU
42	BM	51	ARG
42	BM	54	ASP
42	BM	63	ILE
42	BM	64	THR
42	BM	75	ASP
42	BM	79	LEU
42	BM	89	ASN
42	BM	101	PHE
42	BM	102	LEU
42	BM	105	ASP
42	BM	110	GLU
42	BM	113	LYS
42	BM	116	LYS
42	BM	117	HIS
43	BN	3	LYS
43	BN	4	ILE
43	BN	5	ARG
43	BN	9	ARG
43	BN	11	PHE
43	BN	14	LYS
43	BN	33	GLN
43	BN	45	ARG
43	BN	47	PHE
43	BN	49	VAL
43	BN	60	ARG
43	BN	62	HIS
43	BN	63	PHE

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Mol	Chain	Res	Type
43	BN	73	ASP
43	BN	78	ASN
43	BN	79	ARG
43	BN	81	THR
43	BN	83	GLU
43	BN	85	LEU
43	BN	95	GLU
43	BN	99	LYS
44	BO	13	GLN
44	BO	18	ARG
44	BO	22	HIS
44	BO	34	ASP
44	BO	39	PRO
44	BO	40	ILE
44	BO	42	TRP
44	BO	50	TYR
44	BO	62	GLN
44	BO	67	ASP
44	BO	78	GLN
44	BO	81	ASP
44	BO	99	GLN
44	BO	104	GLN
44	BO	116	HIS
44	BO	125	PHE
44	BO	126	ARG
45	BP	8	ASN
45	BP	10	LEU
45	BP	16	GLU
45	BP	23	LYS
45	BP	32	PHE
45	BP	38	THR
45	BP	42	THR
45	BP	53	ARG
45	BP	60	LEU
45	BP	64	TYR
45	BP	65	GLU
45	BP	66	VAL
45	BP	73	GLU
45	BP	75	HIS
45	BP	84	LEU
45	BP	85	ILE
45	BP	93	LEU

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Mol	Chain	Res	Type
45	BP	100	ILE
45	BP	101	VAL
45	BP	113	ARG
45	BP	119	LYS
45	BP	126	LYS
45	BP	127	GLU
46	BQ	3	ARG
46	BQ	11	ARG
46	BQ	14	ARG
46	BQ	19	LEU
46	BQ	27	LYS
46	BQ	35	GLU
46	BQ	36	LYS
46	BQ	39	ILE
46	BQ	44	ARG
46	BQ	48	LEU
46	BQ	49	THR
46	BQ	56	LEU
46	BQ	57	ARG
46	BQ	65	LYS
46	BQ	66	LEU
46	BQ	67	GLU
46	BQ	70	LEU
46	BQ	71	ARG
46	BQ	80	ARG
46	BQ	81	LEU
46	BQ	86	CYS
46	BQ	88	ARG
46	BQ	102	ARG
46	BQ	108	ARG
46	BQ	110	ARG
47	BR	16	PHE
47	BR	21	TYR
47	BR	22	THR
47	BR	24	CYS
47	BR	29	ARG
47	BR	34	TYR
47	BR	40	CYS
47	BR	43	CYS
47	BR	45	ARG
47	BR	49	HIS
47	BR	54	PRO

Continued on next page...

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Mol	Chain	Res	Type
47	BR	56	VAL
47	BR	61	TRP
48	BS	3	ILE
48	BS	4	THR
48	BS	5	LYS
48	BS	13	GLN
48	BS	38	ARG
48	BS	41	GLU
48	BS	42	HIS
48	BS	49	ASP
48	BS	54	ARG
48	BS	64	ARG
48	BS	66	LEU
48	BS	73	GLU
48	BS	77	ARG
48	BS	78	TYR
48	BS	79	ARG
49	BT	2	VAL
49	BT	3	LYS
49	BT	4	ILE
49	BT	6	LEU
49	BT	14	ASN
49	BT	15	PRO
49	BT	18	ARG
49	BT	27	LYS
49	BT	32	TYR
49	BT	36	ILE
49	BT	39	TYR
49	BT	40	ASP
49	BT	48	TRP
49	BT	54	GLU
49	BT	55	ARG
49	BT	59	TRP
49	BT	62	VAL
49	BT	65	GLN
49	BT	66	PRO
49	BT	69	THR
49	BT	72	ARG
49	BT	75	ARG
49	BT	80	PHE
50	BU	6	LEU
50	BU	12	SER

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Mol	Chain	Res	Type
50	BU	15	MET
50	BU	18	THR
50	BU	24	GLU
50	BU	25	ARG
50	BU	27	PHE
50	BU	28	PRO
50	BU	36	ILE
50	BU	38	ARG
50	BU	40	LYS
50	BU	43	LEU
50	BU	48	GLU
50	BU	51	TYR
50	BU	57	VAL
50	BU	58	GLU
50	BU	60	ILE
50	BU	62	SER
50	BU	67	LYS
50	BU	69	LYS
50	BU	84	LEU
50	BU	86	GLU
50	BU	87	LYS
50	BU	93	GLN
50	BU	95	TYR
50	BU	96	GLN
50	BU	98	LEU
50	BU	100	LYS
50	BU	101	ARG
51	BV	28	GLU
51	BV	32	ARG
51	BV	34	TYR
51	BV	36	ASN
51	BV	38	GLU
51	BV	49	LYS
51	BV	53	ARG
51	BV	55	ARG
51	BV	62	GLU
51	BV	63	GLN
51	BV	72	ARG
51	BV	74	ARG
51	BV	79	LEU
51	BV	80	PRO
51	BV	81	PHE

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Mol	Chain	Res	Type
51	BV	83	GLU
52	BW	3	ARG
52	BW	6	LYS
52	BW	7	LYS
52	BW	12	ASP
52	BW	15	LEU
52	BW	17	GLU
52	BW	18	LYS
52	BW	19	VAL
52	BW	25	LYS
52	BW	34	TRP
52	BW	36	ARG
52	BW	37	ARG
52	BW	41	VAL
52	BW	42	PRO
52	BW	43	GLU
52	BW	52	TYR
52	BW	57	HIS
52	BW	61	TYR
52	BW	74	PHE
53	BX	13	LEU
53	BX	23	ARG
53	BX	25	ARG
53	BX	26	ASN
53	BX	30	LYS
53	BX	35	THR
53	BX	42	GLN
53	BX	51	GLU
53	BX	56	MET
53	BX	63	ILE
53	BX	71	THR
53	BX	73	HIS
53	BX	79	ARG
53	BX	84	LEU
53	BX	87	LYS
53	BX	88	VAL
53	BX	91	LEU
54	BY	9	ARG
54	BY	10	ARG
57	BZ	3	GLU
57	BZ	4	LYS
57	BZ	13	HIS

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Mol	Chain	Res	Type
57	BZ	20	THR
57	BZ	24	LYS
57	BZ	26	LEU
57	BZ	28	GLN
57	BZ	29	SER
57	BZ	31	THR
57	BZ	33	ASP
57	BZ	34	SER
57	BZ	35	ARG
57	BZ	37	GLU
57	BZ	40	GLU
57	BZ	41	ARG
57	BZ	42	VAL
57	BZ	48	LEU
57	BZ	50	LYS
57	BZ	52	ARG
57	BZ	59	LYS
57	BZ	61	THR
57	BZ	67	ASP
57	BZ	68	TYR
57	BZ	72	ILE
57	BZ	78	HIS
57	BZ	84	GLU
57	BZ	87	ARG
57	BZ	91	MET
57	BZ	94	SER
57	BZ	95	VAL
57	BZ	108	GLN
57	BZ	110	ARG
57	BZ	115	LYS
57	BZ	117	PHE
57	BZ	119	TYR
57	BZ	122	LYS
57	BZ	131	ASP
57	BZ	136	ARG
57	BZ	142	ASP
57	BZ	148	PHE
57	BZ	150	ASN
57	BZ	155	ASP
57	BZ	160	PHE
57	BZ	174	LEU
57	BZ	176	HIS

Continued on next page...

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Mol	Chain	Res	Type
57	BZ	182	ASP
57	BZ	186	LEU
57	BZ	192	ASP
57	BZ	200	ASP
57	BZ	201	LEU
57	BZ	202	ASP
57	BZ	207	MET
57	BZ	208	GLN
57	BZ	216	SER
57	BZ	217	TYR
57	BZ	225	ARG
57	BZ	230	LYS
57	BZ	232	LYS
57	BZ	234	ASN
57	BZ	235	GLN
57	BZ	241	ASP
57	BZ	242	SER
57	BZ	243	GLU
57	BZ	245	LYS
57	BZ	247	ARG
57	BZ	250	LYS
57	BZ	253	LYS
57	BZ	255	LEU
57	BZ	260	LEU
57	BZ	262	ARG
57	BZ	265	THR
57	BZ	274	VAL
57	BZ	289	CYS
57	BZ	291	THR
57	BZ	292	GLN
57	BZ	295	GLU
57	BZ	297	LEU
57	BZ	300	LEU
57	BZ	301	SER
57	BZ	308	SER
57	BZ	316	SER
57	BZ	318	PHE
57	BZ	321	LYS
57	BZ	324	LYS
57	BZ	329	ARG
57	BZ	332	LEU
57	BZ	333	ASP

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Mol	Chain	Res	Type
57	BZ	342	ASN
57	BZ	346	ARG
57	BZ	357	ARG
57	BZ	359	SER
57	BZ	361	ARG
57	BZ	363	GLU
57	BZ	373	MET
57	BZ	374	ARG
57	BZ	380	LEU
57	BZ	382	VAL
57	BZ	384	ARG
57	BZ	387	VAL
57	BZ	390	ARG
57	BZ	391	GLU
57	BZ	393	ASP
57	BZ	398	GLU
57	BZ	404	THR
57	BZ	407	VAL
57	BZ	410	GLN
57	BZ	411	HIS
57	BZ	417	GLN
57	BZ	419	LEU
57	BZ	443	ILE
57	BZ	445	SER
57	BZ	448	LEU
57	BZ	460	SER
57	BZ	464	LEU
57	BZ	465	LEU
57	BZ	466	TYR
57	BZ	472	TYR
57	BZ	474	ASP
57	BZ	482	GLN
57	BZ	483	ARG
57	BZ	488	LEU
57	BZ	489	ILE
57	BZ	491	ASN
57	BZ	493	GLN
57	BZ	499	PHE
57	BZ	502	PHE
57	BZ	506	ASP
57	BZ	509	LYS
57	BZ	520	GLU

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Mol	Chain	Res	Type
57	BZ	526	ILE
57	BZ	541	LYS
57	BZ	542	LYS
57	BZ	544	THR
57	BZ	546	MET
57	BZ	547	ARG
57	BZ	549	SER
57	BZ	552	ASP
57	BZ	555	VAL
57	BZ	563	MET
57	BZ	570	GLU
57	BZ	586	ARG
57	BZ	588	ARG
57	BZ	589	LYS
57	BZ	593	THR
57	BZ	597	ARG
57	BZ	599	ARG
57	BZ	602	ARG
57	BZ	605	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (192) such sidechains are listed below:

Mol	Chain	Res	Type
3	AC	56	GLN
3	AC	71	GLN
3	AC	148	ASN
3	AC	165	ASN
3	AC	172	HIS
3	AC	188	ASN
3	AC	225	ASN
4	AD	45	ASN
4	AD	87	ASN
4	AD	115	GLN
4	AD	166	GLN
4	AD	198	ASN
4	AD	201	HIS
4	AD	203	ASN
5	AE	35	GLN
5	AE	85	ASN
5	AE	121	ASN
5	AE	129	HIS
6	AF	67	GLN

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Mol	Chain	Res	Type
6	AF	133	ASN
6	AF	169	ASN
7	AG	26	GLN
7	AG	40	ASN
7	AG	41	GLN
7	AG	130	ASN
8	AH	74	ASN
8	AH	143	GLN
9	AK	38	HIS
9	AK	94	HIS
10	AL	5	GLN
10	AL	89	ASN
10	AL	90	GLN
11	AM	13	ASN
11	AM	35	HIS
11	AM	38	GLN
11	AM	68	GLN
11	AM	81	GLN
11	AM	84	ASN
12	AN	12	GLN
12	AN	57	HIS
12	AN	89	ASN
13	AO	24	GLN
13	AO	31	HIS
14	AP	38	GLN
14	AP	84	GLN
15	AQ	55	ASN
15	AQ	58	ASN
16	AR	44	ASN
16	AR	71	GLN
16	AR	94	ASN
16	AR	117	GLN
17	AS	11	GLN
17	AS	87	HIS
17	AS	89	GLN
18	AT	34	ASN
18	AT	61	ASN
18	AT	62	HIS
18	AT	102	HIS
19	AU	31	HIS
19	AU	55	ASN
19	AU	82	GLN

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Mol	Chain	Res	Type
19	AU	87	GLN
20	AV	6	HIS
20	AV	43	ASN
21	AW	32	HIS
21	AW	34	ASN
21	AW	75	ASN
21	AW	118	GLN
22	AX	35	ASN
22	AX	80	HIS
23	AY	33	GLN
23	AY	41	GLN
23	AY	51	GLN
23	AY	65	GLN
24	AZ	32	GLN
25	Aa	46	GLN
26	Ab	23	HIS
27	Ac	20	ASN
27	Ac	29	ASN
27	Ac	32	ASN
28	Ad	6	GLN
28	Ad	8	ASN
28	Ad	16	HIS
28	Ad	36	GLN
29	Ae	31	HIS
29	Ae	33	ASN
29	Ae	35	GLN
29	Ae	43	GLN
30	Af	32	HIS
30	Af	36	GLN
32	AJ	11	GLN
32	AJ	33	ASN
32	AJ	116	ASN
35	BF	40	HIS
35	BF	78	GLN
35	BF	94	ASN
35	BF	135	GLN
35	BF	204	ASN
35	BF	224	GLN
36	BG	3	ASN
36	BG	6	HIS
36	BG	28	GLN
36	BG	102	ASN

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Mol	Chain	Res	Type
36	BG	108	ASN
36	BG	110	ASN
36	BG	136	GLN
36	BG	139	GLN
36	BG	170	GLN
37	BH	42	GLN
37	BH	62	GLN
37	BH	74	GLN
37	BH	77	ASN
37	BH	154	ASN
37	BH	161	ASN
37	BH	201	GLN
38	BI	56	GLN
38	BI	65	ASN
38	BI	72	GLN
39	BJ	7	ASN
39	BJ	13	ASN
39	BJ	18	GLN
39	BJ	32	ASN
39	BJ	64	GLN
39	BJ	84	ASN
39	BJ	94	GLN
39	BJ	100	ASN
40	BK	56	GLN
40	BK	68	ASN
40	BK	96	GLN
40	BK	97	GLN
40	BK	106	GLN
40	BK	109	ASN
40	BK	110	GLN
40	BK	148	ASN
40	BK	153	HIS
41	BL	15	ASN
41	BL	70	GLN
42	BM	23	ASN
42	BM	58	HIS
42	BM	73	GLN
42	BM	87	GLN
42	BM	89	ASN
42	BM	117	HIS
43	BN	56	HIS
43	BN	62	HIS

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Mol	Chain	Res	Type
43	BN	68	HIS
43	BN	76	ASN
43	BN	78	ASN
44	BO	26	ASN
44	BO	27	ASN
44	BO	38	ASN
44	BO	104	GLN
44	BO	117	ASN
45	BP	8	ASN
45	BP	49	ASN
45	BP	99	HIS
46	BQ	40	ASN
46	BQ	101	GLN
47	BR	52	GLN
48	BS	9	GLN
48	BS	13	GLN
48	BS	37	ASN
48	BS	62	GLN
49	BT	82	GLN
50	BU	93	GLN
52	BW	53	ASN
52	BW	65	ASN
52	BW	69	HIS
53	BX	16	HIS
53	BX	42	GLN
53	BX	45	GLN
53	BX	73	HIS
53	BX	75	ASN
57	BZ	16	HIS
57	BZ	28	GLN
57	BZ	78	HIS
57	BZ	128	ASN
57	BZ	150	ASN
57	BZ	157	GLN
57	BZ	193	HIS
57	BZ	206	GLN
57	BZ	211	GLN
57	BZ	215	ASN
57	BZ	257	HIS
57	BZ	283	ASN
57	BZ	292	GLN
57	BZ	314	ASN

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Mol	Chain	Res	Type
57	BZ	365	HIS
57	BZ	410	GLN
57	BZ	412	GLN
57	BZ	417	GLN
57	BZ	527	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	2881/2889 (99%)	1265 (43%)	253 (8%)
2	AB	122/123 (99%)	46 (37%)	3 (2%)
34	BA	1514/1515 (99%)	484 (31%)	140 (9%)
55	BC	75/76 (98%)	26 (34%)	0
56	BD	74/75 (98%)	31 (41%)	2 (2%)
56	BE	74/75 (98%)	23 (31%)	1 (1%)
All	All	4740/4753 (99%)	1875 (39%)	399 (8%)

All (1875) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	13	A
1	AA	14	A
1	AA	15	G
1	AA	20	C
1	AA	26	G
1	AA	29	U
1	AA	34	C
1	AA	35	G
1	AA	46	C
1	AA	49	A
1	AA	50	U
1	AA	52	A
1	AA	60	G
1	AA	61	G
1	AA	63	U
1	AA	64	A
1	AA	68	G
1	AA	71	A
1	AA	72	U
1	AA	73	A
1	AA	74	A

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Mol	Chain	Res	Type
1	AA	75	G
1	AA	76	C
1	AA	77	C
1	AA	82	G
1	AA	84	A
1	AA	88	G
1	AA	90	U
1	AA	91	A
1	AA	92	G
1	AA	96	G
1	AA	101	G
1	AA	102	G
1	AA	104	U
1	AA	105	C
1	AA	109	G
1	AA	112	U
1	AA	113	G
1	AA	119	A
1	AA	120	U
1	AA	121	G
1	AA	125	G
1	AA	126	A
1	AA	131	G
1	AA	132	G
1	AA	136	G
1	AA	138	G
1	AA	139	G
1	AA	140	A
1	AA	141(A)	C
1	AA	147	U
1	AA	149	A
1	AA	153	C
1	AA	154	G
1	AA	155	C
1	AA	161	U
1	AA	162	U
1	AA	163	U
1	AA	164	U
1	AA	172	C
1	AA	178	G
1	AA	180	G
1	AA	181	A

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Mol	Chain	Res	Type
1	AA	182	A
1	AA	192	C
1	AA	193	U
1	AA	196	A
1	AA	197	A
1	AA	199	A
1	AA	200	U
1	AA	201	C
1	AA	204	A
1	AA	205	G
1	AA	206	U
1	AA	216	A
1	AA	218	A
1	AA	221	A
1	AA	222	A
1	AA	223	A
1	AA	228	A
1	AA	229	A
1	AA	230	U
1	AA	232	G
1	AA	233	A
1	AA	234	C
1	AA	241	A
1	AA	242	G
1	AA	244	A
1	AA	245	G
1	AA	247	G
1	AA	248	G
1	AA	249	C
1	AA	250	G
1	AA	251	A
1	AA	252	G
1	AA	254	G
1	AA	264	C
1	AA	265	A
1	AA	266	G
1	AA	270	A
1	AA	270(A)	A
1	AA	270(B)	A
1	AA	270(C)	C
1	AA	270(E)	G
1	AA	270(G)	C

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Mol	Chain	Res	Type
1	AA	270(K)	C
1	AA	270(L)	U
1	AA	270(M)	U
1	AA	270(N)	G
1	AA	270(V)	G
1	AA	270(Z)	U
1	AA	271(A)	C
1	AA	271(B)	G
1	AA	271(C)	U
1	AA	271	G
1	AA	272	G
1	AA	273(F)	C
1	AA	275	G
1	AA	276	A
1	AA	277	C
1	AA	278	A
1	AA	279	C
1	AA	280	C
1	AA	281	G
1	AA	282	A
1	AA	283	A
1	AA	284	U
1	AA	286	C
1	AA	287	C
1	AA	289	A
1	AA	290	G
1	AA	293	U
1	AA	300	A
1	AA	302	C
1	AA	310	A
1	AA	311	A
1	AA	312	G
1	AA	316	C
1	AA	322	A
1	AA	323	G
1	AA	324	A
1	AA	329	G
1	AA	330	A
1	AA	332	A
1	AA	333	G
1	AA	339	U
1	AA	341	G

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Mol	Chain	Res	Type
1	AA	342	G
1	AA	345	A
1	AA	347	A
1	AA	348	G
1	AA	349	G
1	AA	350	U
1	AA	351	G
1	AA	352	G
1	AA	354	G
1	AA	356	G
1	AA	359	A
1	AA	360	G
1	AA	361	G
1	AA	363(A)	A
1	AA	363(B)	G
1	AA	364	C
1	AA	365	C
1	AA	366	C
1	AA	370	G
1	AA	372	G
1	AA	373	U
1	AA	374	A
1	AA	377	C
1	AA	382	G
1	AA	386	G
1	AA	387	U
1	AA	388	G
1	AA	390	A
1	AA	391	G
1	AA	395	U
1	AA	397	G
1	AA	401	A
1	AA	404	C
1	AA	405	U
1	AA	406	G
1	AA	408	G
1	AA	411	G
1	AA	412	A
1	AA	413	C
1	AA	421	U
1	AA	422	A
1	AA	423	A

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Mol	Chain	Res	Type
1	AA	424	G
1	AA	428	A
1	AA	429	A
1	AA	443	A
1	AA	444	C
1	AA	446	G
1	AA	447	A
1	AA	448	U
1	AA	449	A
1	AA	451	C
1	AA	452	G
1	AA	453	C
1	AA	454	A
1	AA	455	C
1	AA	456	C
1	AA	457	A
1	AA	470	A
1	AA	471	A
1	AA	475	U
1	AA	479	A
1	AA	480	A
1	AA	481	G
1	AA	484	C
1	AA	492	A
1	AA	503	A
1	AA	504	U
1	AA	505	A
1	AA	506	G
1	AA	507	A
1	AA	508	G
1	AA	509	C
1	AA	510	C
1	AA	512	G
1	AA	519	U
1	AA	525	U
1	AA	527	C
1	AA	528	A
1	AA	529	A
1	AA	530	G
1	AA	531	C
1	AA	532	A
1	AA	533	G

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Mol	Chain	Res	Type
1	AA	541	C
1	AA	549	G
1	AA	554	U
1	AA	556	G
1	AA	559	G
1	AA	560	C
1	AA	563	G
1	AA	567	A
1	AA	568	U
1	AA	572	A
1	AA	573	G
1	AA	574	C
1	AA	575	A
1	AA	579	G
1	AA	580	C
1	AA	583	G
1	AA	586	A
1	AA	588	U
1	AA	591	C
1	AA	593	G
1	AA	599	G
1	AA	600	G
1	AA	601	C
1	AA	603	A
1	AA	604	G
1	AA	605	C
1	AA	607	U
1	AA	612	G
1	AA	613	U
1	AA	614	U
1	AA	615	G
1	AA	616	A
1	AA	617	G
1	AA	618(A)	C
1	AA	620	G
1	AA	621	A
1	AA	622	G
1	AA	624	C
1	AA	625	G
1	AA	626	U
1	AA	627	A
1	AA	629	G

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Mol	Chain	Res	Type
1	AA	631	A
1	AA	634	C
1	AA	637	A
1	AA	641	C
1	AA	643	A
1	AA	644	A
1	AA	646	A
1	AA	650	C
1	AA	651	G
1	AA	653	A
1	AA	654	A
1	AA	655	A
1	AA	656	G
1	AA	657	U
1	AA	665	C
1	AA	666	G
1	AA	668	G
1	AA	669	G
1	AA	670	A
1	AA	671	C
1	AA	674	G
1	AA	684	G
1	AA	686	G
1	AA	687	C
1	AA	698	C
1	AA	704	G
1	AA	705	A
1	AA	713	G
1	AA	714	U
1	AA	715	G
1	AA	716	A
1	AA	718	A
1	AA	723	G
1	AA	727	A
1	AA	728	G
1	AA	729	G
1	AA	730	C
1	AA	731	C
1	AA	734	A
1	AA	735	A
1	AA	736	C
1	AA	739	G

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Mol	Chain	Res	Type
1	AA	740	U
1	AA	741	G
1	AA	744	G
1	AA	745	G
1	AA	746	A
1	AA	747	U
1	AA	748	G
1	AA	749	C
1	AA	750	A
1	AA	751	A
1	AA	752	A
1	AA	758	C
1	AA	759	G
1	AA	762	U
1	AA	763	G
1	AA	764	A
1	AA	765	G
1	AA	774	A
1	AA	775	G
1	AA	776	G
1	AA	777	A
1	AA	779	U
1	AA	781	A
1	AA	782	A
1	AA	783	A
1	AA	784	A
1	AA	785	G
1	AA	786	C
1	AA	789	A
1	AA	790	C
1	AA	791	C
1	AA	792	G
1	AA	793	A
1	AA	794	G
1	AA	799	G
1	AA	800	A
1	AA	801	G
1	AA	802	A
1	AA	803	U
1	AA	805	G
1	AA	806	C
1	AA	812	C

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Mol	Chain	Res	Type
1	AA	816	C
1	AA	819	A
1	AA	821	A
1	AA	823	G
1	AA	824	A
1	AA	827	U
1	AA	829	A
1	AA	830	G
1	AA	831	G
1	AA	833	U
1	AA	844	C
1	AA	846	C
1	AA	847	U
1	AA	858	U
1	AA	859	G
1	AA	860	U
1	AA	861	A
1	AA	865	C
1	AA	868	U
1	AA	870	A
1	AA	874	G
1	AA	875	G
1	AA	878	A
1	AA	879	G
1	AA	881	G
1	AA	882	G
1	AA	883	G
1	AA	884	C
1	AA	885	C
1	AA	886	C
1	AA	887	A
1	AA	888	C
1	AA	889	C
1	AA	890	A
1	AA	892	G
1	AA	894	C
1	AA	895	U
1	AA	896	A
1	AA	897	C
1	AA	898	C
1	AA	899	A
1	AA	900	A

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Mol	Chain	Res	Type
1	AA	901	A
1	AA	902	C
1	AA	904	C
1	AA	905	U
1	AA	906	G
1	AA	907	U
1	AA	909	A
1	AA	910	A
1	AA	914	C
1	AA	918	A
1	AA	919	G
1	AA	920	G
1	AA	930	U
1	AA	931	G
1	AA	932	G
1	AA	933	A
1	AA	939	G
1	AA	941	A
1	AA	943	U
1	AA	944	G
1	AA	945	A
1	AA	946	G
1	AA	956	G
1	AA	957	A
1	AA	958	U
1	AA	959	A
1	AA	961	C
1	AA	962	G
1	AA	965	C
1	AA	972	G
1	AA	973	A
1	AA	974	G
1	AA	974(A)	C
1	AA	976	C
1	AA	982	C
1	AA	983	A
1	AA	987	G
1	AA	990	A
1	AA	995	C
1	AA	996	A
1	AA	997	G
1	AA	1008	C

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Mol	Chain	Res	Type
1	AA	1009	A
1	AA	1011	G
1	AA	1012	U
1	AA	1013	C
1	AA	1021	A
1	AA	1022	G
1	AA	1023	U
1	AA	1024	G
1	AA	1025	G
1	AA	1026	U
1	AA	1027	A
1	AA	1031	G
1	AA	1032	A
1	AA	1033	U
1	AA	1039	G
1	AA	1040	C
1	AA	1042	G
1	AA	1043	C
1	AA	1044	G
1	AA	1045	A
1	AA	1046	A
1	AA	1047	G
1	AA	1048	A
1	AA	1050	A
1	AA	1052	C
1	AA	1053	C
1	AA	1056	G
1	AA	1057	A
1	AA	1058	G
1	AA	1059	G
1	AA	1060	U
1	AA	1061	U
1	AA	1062	G
1	AA	1063	G
1	AA	1065	U
1	AA	1066	U
1	AA	1067	A
1	AA	1068	G
1	AA	1069	A
1	AA	1070	A
1	AA	1071	G
1	AA	1072	C

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Mol	Chain	Res	Type
1	AA	1073	A
1	AA	1075	C
1	AA	1076	C
1	AA	1077	A
1	AA	1078	U
1	AA	1079	C
1	AA	1080	C
1	AA	1083	U
1	AA	1084	A
1	AA	1085	A
1	AA	1086	A
1	AA	1087	G
1	AA	1088	A
1	AA	1090	U
1	AA	1093	G
1	AA	1099	G
1	AA	1101	U
1	AA	1103	A
1	AA	1104	C
1	AA	1108	U
1	AA	1109	C
1	AA	1110	G
1	AA	1111	A
1	AA	1112	G
1	AA	1116	C
1	AA	1126	A
1	AA	1127	A
1	AA	1128	A
1	AA	1130	U
1	AA	1131	G
1	AA	1132	A
1	AA	1134	G
1	AA	1135	C
1	AA	1140	C
1	AA	1141	U
1	AA	1143	A
1	AA	1154	G
1	AA	1155	A
1	AA	1156	A
1	AA	1157	G
1	AA	1160	G
1	AA	1162	G

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Mol	Chain	Res	Type
1	AA	1171	G
1	AA	1173	G
1	AA	1174	A
1	AA	1175	U
1	AA	1176	G
1	AA	1177	A
1	AA	1179	C
1	AA	1180	C
1	AA	1182	A
1	AA	1183	G
1	AA	1184	G
1	AA	1185	C
1	AA	1186	G
1	AA	1190	G
1	AA	1199	U
1	AA	1201	C
1	AA	1203	G
1	AA	1204	A
1	AA	1205	U
1	AA	1207	C
1	AA	1209	G
1	AA	1211	U
1	AA	1212	G
1	AA	1213	A
1	AA	1220	A
1	AA	1221	C
1	AA	1222	C
1	AA	1225	C
1	AA	1228	G
1	AA	1238	G
1	AA	1241	A
1	AA	1242	A
1	AA	1244	G
1	AA	1247	A
1	AA	1248	G
1	AA	1249	U
1	AA	1251	C
1	AA	1252	G
1	AA	1253	A
1	AA	1254	A
1	AA	1255	U
1	AA	1256	G

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Mol	Chain	Res	Type
1	AA	1258	C
1	AA	1260	G
1	AA	1264	G
1	AA	1265	A
1	AA	1266	G
1	AA	1267	U
1	AA	1268	A
1	AA	1271	G
1	AA	1272	A
1	AA	1273	U
1	AA	1274	A
1	AA	1275	A
1	AA	1286	A
1	AA	1289	C
1	AA	1296	G
1	AA	1297	C
1	AA	1301	A
1	AA	1302	A
1	AA	1303	G
1	AA	1304	C
1	AA	1311	G
1	AA	1312	U
1	AA	1321	A
1	AA	1324	G
1	AA	1325	G
1	AA	1326	U
1	AA	1327	C
1	AA	1329	U
1	AA	1330	C
1	AA	1335	U
1	AA	1340	U
1	AA	1341	U
1	AA	1342	A
1	AA	1343	G
1	AA	1344	G
1	AA	1345	C
1	AA	1347	G
1	AA	1350	C
1	AA	1364	G
1	AA	1365	A
1	AA	1366	A
1	AA	1368	G

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Mol	Chain	Res	Type
1	AA	1378	A
1	AA	1379	A
1	AA	1388	G
1	AA	1394	U
1	AA	1395	A
1	AA	1397	U
1	AA	1398	C
1	AA	1403	C
1	AA	1407	C
1	AA	1416	G
1	AA	1418	G
1	AA	1419	A
1	AA	1420	U
1	AA	1421	G
1	AA	1424	G
1	AA	1425	G
1	AA	1427	A
1	AA	1428	C
1	AA	1429	G
1	AA	1438	U
1	AA	1444(A)	A
1	AA	1445	C
1	AA	1451	C
1	AA	1453	A
1	AA	1455	G
1	AA	1456	G
1	AA	1459	G
1	AA	1460	A
1	AA	1462	C
1	AA	1463	C
1	AA	1467	C
1	AA	1468	C
1	AA	1471	A
1	AA	1477	A
1	AA	1478	G
1	AA	1480	G
1	AA	1482	U
1	AA	1485	G
1	AA	1489	U
1	AA	1490	A
1	AA	1491	G
1	AA	1492	G

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Mol	Chain	Res	Type
1	AA	1493	C
1	AA	1494	A
1	AA	1495	A
1	AA	1496	A
1	AA	1497	U
1	AA	1498	C
1	AA	1499	C
1	AA	1507	A
1	AA	1508	A
1	AA	1509	C
1	AA	1510	A
1	AA	1511	A
1	AA	1512	G
1	AA	1513	C
1	AA	1514	U
1	AA	1515	C
1	AA	1516	U
1	AA	1517	G
1	AA	1519	G
1	AA	1521	G
1	AA	1526	G
1	AA	1527	G
1	AA	1529	A
1	AA	1530	G
1	AA	1532	C
1	AA	1537	C
1	AA	1540	G
1	AA	1542	G
1	AA	1544	C
1	AA	1552	G
1	AA	1553	A
1	AA	1554	A
1	AA	1555	G
1	AA	1558	A
1	AA	1559	G
1	AA	1560	G
1	AA	1561	G
1	AA	1566	A
1	AA	1567	A
1	AA	1569	A
1	AA	1570	A
1	AA	1571	A

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Mol	Chain	Res	Type
1	AA	1572	A
1	AA	1573	G
1	AA	1576	U
1	AA	1577	C
1	AA	1578	U
1	AA	1579	A
1	AA	1580	A
1	AA	1581	G
1	AA	1583	A
1	AA	1585	C
1	AA	1586	A
1	AA	1587	A
1	AA	1591	G
1	AA	1602	U
1	AA	1603	A
1	AA	1607	C
1	AA	1608	A
1	AA	1609	A
1	AA	1610	A
1	AA	1612	C
1	AA	1614	A
1	AA	1615	C
1	AA	1617	C
1	AA	1618	A
1	AA	1619	G
1	AA	1623	G
1	AA	1625	C
1	AA	1626	G
1	AA	1627	G
1	AA	1631	A
1	AA	1634	A
1	AA	1635	G
1	AA	1640	C
1	AA	1641	A
1	AA	1644	C
1	AA	1645	G
1	AA	1647	G
1	AA	1648	C
1	AA	1649	G
1	AA	1651	G
1	AA	1652	A
1	AA	1653	G

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Mol	Chain	Res	Type
1	AA	1654	A
1	AA	1655	A
1	AA	1656	C
1	AA	1657	C
1	AA	1664	A
1	AA	1667	G
1	AA	1668	A
1	AA	1670	C
1	AA	1673	U
1	AA	1674	G
1	AA	1675	C
1	AA	1678	G
1	AA	1681	G
1	AA	1682	G
1	AA	1683	C
1	AA	1684	C
1	AA	1688	U
1	AA	1694	C
1	AA	1698	A
1	AA	1699	G
1	AA	1700	A
1	AA	1701	A
1	AA	1703	G
1	AA	1706	U
1	AA	1707	G
1	AA	1709	U
1	AA	1710	C
1	AA	1725	G
1	AA	1728	G
1	AA	1729	A
1	AA	1731	G
1	AA	1732	A
1	AA	1733	G
1	AA	1734	C
1	AA	1741	C
1	AA	1742	C
1	AA	1743	G
1	AA	1746	G
1	AA	1747	G
1	AA	1755	A
1	AA	1757	U
1	AA	1758	G

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Mol	Chain	Res	Type
1	AA	1759	A
1	AA	1762	A
1	AA	1763	G
1	AA	1764	G
1	AA	1773	A
1	AA	1775	U
1	AA	1779	U
1	AA	1780	A
1	AA	1781	C
1	AA	1782	C
1	AA	1783	A
1	AA	1784	A
1	AA	1785	A
1	AA	1790	C
1	AA	1791	A
1	AA	1798	U
1	AA	1799	G
1	AA	1800	C
1	AA	1801	G
1	AA	1802	A
1	AA	1803	A
1	AA	1805	U
1	AA	1809	A
1	AA	1810	A
1	AA	1815	A
1	AA	1816	G
1	AA	1817	G
1	AA	1819	A
1	AA	1820	U
1	AA	1821	A
1	AA	1826	G
1	AA	1828	G
1	AA	1829	A
1	AA	1834	U
1	AA	1839	G
1	AA	1840	G
1	AA	1847	A
1	AA	1848	A
1	AA	1852	C
1	AA	1853	A
1	AA	1857	G
1	AA	1858	G

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Mol	Chain	Res	Type
1	AA	1878	G
1	AA	1880	C
1	AA	1881	C
1	AA	1884	A
1	AA	1901	A
1	AA	1903	G
1	AA	1904	G
1	AA	1905	C
1	AA	1907	G
1	AA	1911	U
1	AA	1912	A
1	AA	1913	A
1	AA	1914	C
1	AA	1915	U
1	AA	1916	A
1	AA	1917	U
1	AA	1919	A
1	AA	1920	C
1	AA	1921	G
1	AA	1922	G
1	AA	1924	C
1	AA	1927	A
1	AA	1929	G
1	AA	1930	G
1	AA	1931	U
1	AA	1932	A
1	AA	1934	C
1	AA	1936	A
1	AA	1937	A
1	AA	1938	A
1	AA	1939	U
1	AA	1940	U
1	AA	1941	C
1	AA	1942	C
1	AA	1943	U
1	AA	1944	U
1	AA	1945	G
1	AA	1946	U
1	AA	1953	A
1	AA	1954	G
1	AA	1955	U
1	AA	1956	U

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Mol	Chain	Res	Type
1	AA	1958	C
1	AA	1962	C
1	AA	1964	G
1	AA	1965	C
1	AA	1966	A
1	AA	1967	C
1	AA	1968	G
1	AA	1970	A
1	AA	1971	A
1	AA	1972	A
1	AA	1977	A
1	AA	1978	A
1	AA	1981	A
1	AA	1982	C
1	AA	1989	G
1	AA	1992	G
1	AA	1993	U
1	AA	1995	U
1	AA	1996	C
1	AA	1997	G
1	AA	2000	G
1	AA	2005	A
1	AA	2014	A
1	AA	2015	A
1	AA	2016	U
1	AA	2018	G
1	AA	2019	A
1	AA	2020	A
1	AA	2021	C
1	AA	2022	U
1	AA	2023	G
1	AA	2030	A
1	AA	2031	A
1	AA	2032	G
1	AA	2033	A
1	AA	2034	U
1	AA	2035	G
1	AA	2041	U
1	AA	2043	C
1	AA	2044	C
1	AA	2048	G
1	AA	2050	C

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Mol	Chain	Res	Type
1	AA	2051	A
1	AA	2052	G
1	AA	2055	C
1	AA	2056	G
1	AA	2060	A
1	AA	2061	G
1	AA	2062	A
1	AA	2063	C
1	AA	2064	C
1	AA	2068	U
1	AA	2069	G
1	AA	2073	C
1	AA	2074	U
1	AA	2075	U
1	AA	2076	U
1	AA	2077	A
1	AA	2080	G
1	AA	2092	U
1	AA	2093	G
1	AA	2094	G
1	AA	2110	G
1	AA	2111	C
1	AA	2114	A
1	AA	2116	G
1	AA	2117	A
1	AA	2119	A
1	AA	2120	G
1	AA	2123	G
1	AA	2126	A
1	AA	2127	G
1	AA	2132	U
1	AA	2133	G
1	AA	2134	A
1	AA	2135	A
1	AA	2136	C
1	AA	2144	U
1	AA	2148	G
1	AA	2156	G
1	AA	2157	G
1	AA	2158	A
1	AA	2159	G
1	AA	2165	G

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Mol	Chain	Res	Type
1	AA	2172	U
1	AA	2173	A
1	AA	2185	C
1	AA	2194	G
1	AA	2195	C
1	AA	2196	C
1	AA	2197	U
1	AA	2198	A
1	AA	2205	C
1	AA	2206	C
1	AA	2208	U
1	AA	2209	C
1	AA	2210	G
1	AA	2211	G
1	AA	2212	A
1	AA	2213	U
1	AA	2224	G
1	AA	2225	A
1	AA	2226	C
1	AA	2227	A
1	AA	2228	G
1	AA	2238	G
1	AA	2239	G
1	AA	2240	C
1	AA	2245	U
1	AA	2250	G
1	AA	2251	G
1	AA	2254	C
1	AA	2257	U
1	AA	2258	C
1	AA	2265	U
1	AA	2266	A
1	AA	2267	A
1	AA	2268	A
1	AA	2269	A
1	AA	2274	A
1	AA	2275	C
1	AA	2276	G
1	AA	2278	A
1	AA	2281	C
1	AA	2283	C
1	AA	2284	C

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Mol	Chain	Res	Type
1	AA	2286	A
1	AA	2287	A
1	AA	2288	A
1	AA	2289	G
1	AA	2290	G
1	AA	2291	U
1	AA	2297	C
1	AA	2305	A
1	AA	2306	C
1	AA	2307	G
1	AA	2308	G
1	AA	2309	A
1	AA	2310	A
1	AA	2311	A
1	AA	2312	U
1	AA	2316	C
1	AA	2318	G
1	AA	2319	G
1	AA	2320	A
1	AA	2321	G
1	AA	2322	A
1	AA	2323	G
1	AA	2325	G
1	AA	2327	A
1	AA	2333	A
1	AA	2334	G
1	AA	2337	G
1	AA	2344	U
1	AA	2345	G
1	AA	2346	A
1	AA	2347	C
1	AA	2349	G
1	AA	2350	C
1	AA	2351	G
1	AA	2356	C
1	AA	2357	U
1	AA	2358	G
1	AA	2360	A
1	AA	2361	A
1	AA	2362	G
1	AA	2372	G
1	AA	2373	G

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Mol	Chain	Res	Type
1	AA	2374	C
1	AA	2377	A
1	AA	2379	G
1	AA	2382	G
1	AA	2383	G
1	AA	2384	G
1	AA	2385	C
1	AA	2387	U
1	AA	2389	G
1	AA	2390	U
1	AA	2393	A
1	AA	2402	C
1	AA	2403	C
1	AA	2406	U
1	AA	2407	G
1	AA	2416	C
1	AA	2417	C
1	AA	2423	U
1	AA	2424	C
1	AA	2425	A
1	AA	2426	A
1	AA	2427	C
1	AA	2428	G
1	AA	2429	G
1	AA	2430	A
1	AA	2431	U
1	AA	2432	A
1	AA	2433	A
1	AA	2434	A
1	AA	2435	A
1	AA	2437	U
1	AA	2439	A
1	AA	2440	C
1	AA	2441	C
1	AA	2444	G
1	AA	2445	G
1	AA	2447	G
1	AA	2448	A
1	AA	2449	U
1	AA	2460	U
1	AA	2469	A
1	AA	2475	C

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Mol	Chain	Res	Type
1	AA	2476	A
1	AA	2480	C
1	AA	2490	G
1	AA	2491	U
1	AA	2492	U
1	AA	2493	U
1	AA	2496	C
1	AA	2497	A
1	AA	2498	C
1	AA	2499	C
1	AA	2500	U
1	AA	2501	C
1	AA	2502	G
1	AA	2503	A
1	AA	2504	U
1	AA	2505	G
1	AA	2510	C
1	AA	2513	G
1	AA	2518	A
1	AA	2519	U
1	AA	2520	C
1	AA	2523	G
1	AA	2526	G
1	AA	2527	C
1	AA	2529	G
1	AA	2531	A
1	AA	2532	G
1	AA	2535	G
1	AA	2539	C
1	AA	2542	A
1	AA	2543	G
1	AA	2547	U
1	AA	2548	G
1	AA	2551	C
1	AA	2554	U
1	AA	2555	U
1	AA	2556	C
1	AA	2563	U
1	AA	2566	A
1	AA	2567	G
1	AA	2572	A
1	AA	2573	C

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Mol	Chain	Res	Type
1	AA	2575	C
1	AA	2576	G
1	AA	2577	A
1	AA	2578	G
1	AA	2580	U
1	AA	2582	G
1	AA	2585	U
1	AA	2586	C
1	AA	2593	U
1	AA	2602	A
1	AA	2603	G
1	AA	2606	C
1	AA	2609	U
1	AA	2610	C
1	AA	2611	U
1	AA	2613	U
1	AA	2614	A
1	AA	2615	U
1	AA	2616	C
1	AA	2617	C
1	AA	2620	C
1	AA	2625	G
1	AA	2626	C
1	AA	2628	C
1	AA	2629	A
1	AA	2630	G
1	AA	2637	U
1	AA	2638	G
1	AA	2640	G
1	AA	2644	G
1	AA	2645	G
1	AA	2646	C
1	AA	2648	C
1	AA	2650	U
1	AA	2651	C
1	AA	2652	C
1	AA	2653	U
1	AA	2654	A
1	AA	2656	U
1	AA	2657	A
1	AA	2658	C
1	AA	2659	G

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Mol	Chain	Res	Type
1	AA	2662	A
1	AA	2663	G
1	AA	2664	G
1	AA	2667	C
1	AA	2668	G
1	AA	2669	G
1	AA	2670	A
1	AA	2671	A
1	AA	2673	G
1	AA	2674	G
1	AA	2675	A
1	AA	2676	C
1	AA	2682	U
1	AA	2683	C
1	AA	2685	G
1	AA	2689	U
1	AA	2690	C
1	AA	2691	C
1	AA	2699	C
1	AA	2701	C
1	AA	2702	U
1	AA	2704	C
1	AA	2706	G
1	AA	2708	G
1	AA	2709	G
1	AA	2710	C
1	AA	2711	A
1	AA	2712	U
1	AA	2712(A)	A
1	AA	2714	G
1	AA	2715	C
1	AA	2717	G
1	AA	2719	G
1	AA	2720	U
1	AA	2725	A
1	AA	2726	U
1	AA	2727	G
1	AA	2732	G
1	AA	2733	A
1	AA	2734	A
1	AA	2748	A
1	AA	2749	A

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Mol	Chain	Res	Type
1	AA	2750	A
1	AA	2751	G
1	AA	2754	U
1	AA	2756	U
1	AA	2757	A
1	AA	2758	A
1	AA	2766	G
1	AA	2772	C
1	AA	2777	G
1	AA	2778	A
1	AA	2779	U
1	AA	2780	G
1	AA	2781	A
1	AA	2782	G
1	AA	2783	G
1	AA	2787	C
1	AA	2789	C
1	AA	2790	A
1	AA	2791	C
1	AA	2794	C
1	AA	2797	U
1	AA	2798	C
1	AA	2799	A
1	AA	2801	A
1	AA	2802	G
1	AA	2803	C
1	AA	2804	C
1	AA	2805	G
1	AA	2807	G
1	AA	2808	U
1	AA	2809	A
1	AA	2810	A
1	AA	2812	G
1	AA	2814	C
1	AA	2815	C
1	AA	2820	A
1	AA	2821	A
1	AA	2822	G
1	AA	2823	A
1	AA	2832	U
1	AA	2833	G
1	AA	2834	G

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Mol	Chain	Res	Type
1	AA	2835	A
1	AA	2836	U
1	AA	2843	G
1	AA	2844	G
1	AA	2845	G
1	AA	2847	U
1	AA	2849	U
1	AA	2850	A
1	AA	2851	A
1	AA	2852	G
1	AA	2858	C
1	AA	2861	G
1	AA	2866	U
1	AA	2867	G
1	AA	2868	A
1	AA	2872	G
1	AA	2874	C
1	AA	2877	G
1	AA	2878	U
1	AA	2879	C
1	AA	2880	C
1	AA	2883	A
1	AA	2891	G
1	AA	2892	A
1	AA	2893	G
1	AA	2899	G
2	AB	0	A
2	AB	1	U
2	AB	2	C
2	AB	3	C
2	AB	5	C
2	AB	6	C
2	AB	8	U
2	AB	12	C
2	AB	13	A
2	AB	15	A
2	AB	16	G
2	AB	25	A
2	AB	32	C
2	AB	35	U
2	AB	36	C
2	AB	41	U

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Mol	Chain	Res	Type
2	AB	42	C
2	AB	45	A
2	AB	46	A
2	AB	51	G
2	AB	52	A
2	AB	54	G
2	AB	57	A
2	AB	66	A
2	AB	67	G
2	AB	69	G
2	AB	73	A
2	AB	74	U
2	AB	75	G
2	AB	83	G
2	AB	85	G
2	AB	87	G
2	AB	88	C
2	AB	89	G
2	AB	90	C
2	AB	99	A
2	AB	101	A
2	AB	103	U
2	AB	105	G
2	AB	109	G
2	AB	111	U
2	AB	116	G
2	AB	117	G
2	AB	118	G
2	AB	119	A
2	AB	120	U
34	BA	6	G
34	BA	8	A
34	BA	9	G
34	BA	14	U
34	BA	19	C
34	BA	20	U
34	BA	31	G
34	BA	32	A
34	BA	39	G
34	BA	44	G
34	BA	45	U
34	BA	48	C

Continued on next page...

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Mol	Chain	Res	Type
34	BA	50	A
34	BA	51	A
34	BA	52	G
34	BA	61	G
34	BA	65	U
34	BA	66	G
34	BA	78	G
34	BA	82	U
34	BA	89	U
34	BA	101	A
34	BA	103	C
34	BA	108	G
34	BA	110	C
34	BA	115	G
34	BA	116	A
34	BA	120	A
34	BA	121	C
34	BA	122	G
34	BA	124	G
34	BA	127	G
34	BA	129(A)	G
34	BA	130	A
34	BA	131	C
34	BA	132	C
34	BA	134	A
34	BA	163	C
34	BA	182	U
34	BA	188	U
34	BA	189	U
34	BA	190	G
34	BA	191(A)	G
34	BA	195	A
34	BA	197	A
34	BA	198	G
34	BA	209	U
34	BA	210	U
34	BA	216	G
34	BA	236	G
34	BA	243	A
34	BA	244	U
34	BA	245	C
34	BA	247	G

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Mol	Chain	Res	Type
34	BA	251	G
34	BA	252	U
34	BA	253	U
34	BA	262	A
34	BA	264	U
34	BA	265	G
34	BA	266	G
34	BA	267	C
34	BA	270	A
34	BA	275	G
34	BA	279	A
34	BA	280	C
34	BA	281	G
34	BA	282	A
34	BA	289	G
34	BA	293	G
34	BA	295	C
34	BA	296	U
34	BA	306	G
34	BA	308	C
34	BA	309	G
34	BA	313	A
34	BA	314	C
34	BA	315	A
34	BA	316	G
34	BA	326	G
34	BA	328	C
34	BA	329	A
34	BA	330	C
34	BA	332	G
34	BA	336	C
34	BA	345	C
34	BA	346	G
34	BA	348	G
34	BA	351	G
34	BA	352	C
34	BA	353	A
34	BA	354	G
34	BA	364	A
34	BA	367	U
34	BA	368	U
34	BA	372	C

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Mol	Chain	Res	Type
34	BA	373	A
34	BA	378	G
34	BA	379	C
34	BA	382	A
34	BA	383	A
34	BA	388	G
34	BA	389	A
34	BA	390	C
34	BA	392	G
34	BA	397	A
34	BA	398	C
34	BA	410	G
34	BA	412	A
34	BA	413	G
34	BA	414	A
34	BA	422	C
34	BA	423	G
34	BA	428	G
34	BA	429	U
34	BA	430	A
34	BA	438	G
34	BA	439	A
34	BA	451	A
34	BA	452	A
34	BA	454	C
34	BA	465	A
34	BA	466	C
34	BA	467	G
34	BA	474	G
34	BA	481	G
34	BA	482	A
34	BA	483	C
34	BA	484	G
34	BA	485	G
34	BA	486	U
34	BA	487	A
34	BA	496	A
34	BA	497	U
34	BA	500	G
34	BA	508	C
34	BA	509	A
34	BA	511	C

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Mol	Chain	Res	Type
34	BA	518	C
34	BA	519	C
34	BA	521	G
34	BA	522	C
34	BA	524	G
34	BA	527	G
34	BA	528	C
34	BA	530	G
34	BA	531	U
34	BA	532	A
34	BA	533	A
34	BA	534	U
34	BA	535	A
34	BA	536	C
34	BA	541	G
34	BA	548	G
34	BA	553	A
34	BA	555	C
34	BA	559	A
34	BA	560	U
34	BA	561	U
34	BA	563	A
34	BA	565	U
34	BA	566	G
34	BA	567	G
34	BA	572	A
34	BA	573	A
34	BA	575	G
34	BA	577	G
34	BA	579	G
34	BA	585	G
34	BA	595	G
34	BA	596	C
34	BA	598	U
34	BA	607	A
34	BA	609	A
34	BA	623	C
34	BA	642	A
34	BA	650	G
34	BA	653	A
34	BA	655	A
34	BA	665	A

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Mol	Chain	Res	Type
34	BA	672	U
34	BA	673	G
34	BA	679	C
34	BA	687	A
34	BA	688	G
34	BA	690	G
34	BA	691	G
34	BA	693	G
34	BA	694	A
34	BA	697	U
34	BA	702	A
34	BA	703	G
34	BA	704	A
34	BA	718	G
34	BA	719	C
34	BA	721	G
34	BA	723	U
34	BA	724	G
34	BA	728	A
34	BA	730	G
34	BA	731	G
34	BA	733	A
34	BA	749	C
34	BA	752	G
34	BA	753	A
34	BA	754	C
34	BA	763	G
34	BA	764	C
34	BA	766	A
34	BA	776	G
34	BA	777	A
34	BA	781	A
34	BA	782	A
34	BA	785	G
34	BA	788	U
34	BA	790	A
34	BA	791	G
34	BA	793	U
34	BA	794	A
34	BA	801	U
34	BA	812	C
34	BA	813	U

Continued on next page...

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Mol	Chain	Res	Type
34	BA	815	A
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	820	U
34	BA	821	G
34	BA	828	A
34	BA	841	U
34	BA	843	U
34	BA	848	C
34	BA	854	G
34	BA	860	A
34	BA	865	A
34	BA	870	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	874	G
34	BA	884	U
34	BA	885	G
34	BA	889	A
34	BA	890	G
34	BA	891	U
34	BA	901	A
34	BA	902	G
34	BA	907	A
34	BA	910	C
34	BA	913	A
34	BA	914	A
34	BA	917	G
34	BA	919	A
34	BA	920	U
34	BA	926	G
34	BA	927	G
34	BA	932	C
34	BA	934	C
34	BA	935	A
34	BA	945	G
34	BA	949	A
34	BA	950	U
34	BA	956	U

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Mol	Chain	Res	Type
34	BA	958	A
34	BA	960	U
34	BA	961	U
34	BA	963	G
34	BA	965	A
34	BA	966	G
34	BA	967	C
34	BA	968	A
34	BA	969	A
34	BA	971	G
34	BA	972	C
34	BA	974	A
34	BA	975	A
34	BA	976	G
34	BA	977	A
34	BA	980	C
34	BA	982	U
34	BA	991	U
34	BA	993	G
34	BA	994	A
34	BA	995	C
34	BA	997	U
34	BA	998	G
34	BA	1000	A
34	BA	1001	G
34	BA	1002	G
34	BA	1003	G
34	BA	1004	A
34	BA	1005	A
34	BA	1006	C
34	BA	1007	C
34	BA	1016	A
34	BA	1023	G
34	BA	1024	G
34	BA	1026	G
34	BA	1027	C
34	BA	1029	G
34	BA	1049	U
34	BA	1050	G
34	BA	1054	C
34	BA	1056	U
34	BA	1057	G

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Mol	Chain	Res	Type
34	BA	1063	C
34	BA	1064	G
34	BA	1065	U
34	BA	1066	C
34	BA	1067	A
34	BA	1068	G
34	BA	1081	G
34	BA	1084	G
34	BA	1085	U
34	BA	1086	U
34	BA	1089	G
34	BA	1094	G
34	BA	1096	C
34	BA	1097	C
34	BA	1100	C
34	BA	1101	A
34	BA	1102	A
34	BA	1103	C
34	BA	1106	G
34	BA	1107	C
34	BA	1108	G
34	BA	1109	C
34	BA	1111	A
34	BA	1112	C
34	BA	1115	C
34	BA	1118	C
34	BA	1123	A
34	BA	1125	U
34	BA	1126	U
34	BA	1129	C
34	BA	1130	A
34	BA	1131	G
34	BA	1132	C
34	BA	1136	U
34	BA	1138	G
34	BA	1139	G
34	BA	1140	C
34	BA	1145	C
34	BA	1146	A
34	BA	1147	C
34	BA	1148	U
34	BA	1152	A

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Mol	Chain	Res	Type
34	BA	1153	C
34	BA	1154	G
34	BA	1157	A
34	BA	1158	C
34	BA	1159	U
34	BA	1161	C
34	BA	1162	C
34	BA	1164	G
34	BA	1174	G
34	BA	1182	G
34	BA	1183	A
34	BA	1184	G
34	BA	1185	G
34	BA	1188	A
34	BA	1189	C
34	BA	1190	G
34	BA	1195	C
34	BA	1196	U
34	BA	1197	G
34	BA	1200	C
34	BA	1201	A
34	BA	1202	G
34	BA	1203	C
34	BA	1211	U
34	BA	1212	U
34	BA	1213	A
34	BA	1215	G
34	BA	1225	A
34	BA	1226	C
34	BA	1227	A
34	BA	1229	A
34	BA	1240	U
34	BA	1241	G
34	BA	1249	C
34	BA	1256	A
34	BA	1257	U
34	BA	1263	C
34	BA	1269	A
34	BA	1270	C
34	BA	1278	U
34	BA	1279	A
34	BA	1280	A

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Mol	Chain	Res	Type
34	BA	1281	U
34	BA	1282	C
34	BA	1283	G
34	BA	1285	A
34	BA	1286	A
34	BA	1287	A
34	BA	1289	A
34	BA	1292	U
34	BA	1297	C
34	BA	1298	C
34	BA	1301	U
34	BA	1302	U
34	BA	1303	C
34	BA	1305	G
34	BA	1317	C
34	BA	1318	A
34	BA	1319	A
34	BA	1320	C
34	BA	1322	C
34	BA	1323	G
34	BA	1331	G
34	BA	1332	A
34	BA	1333	A
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G
34	BA	1348	U
34	BA	1353	G
34	BA	1362(A)	C
34	BA	1363	A
34	BA	1364	U
34	BA	1365	G
34	BA	1375	A
34	BA	1378	C
34	BA	1379	G
34	BA	1381	U
34	BA	1393	U
34	BA	1394	A
34	BA	1395	C
34	BA	1396	A
34	BA	1397	C
34	BA	1398	A

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Mol	Chain	Res	Type
34	BA	1399	C
34	BA	1400	C
34	BA	1401	G
34	BA	1404	C
34	BA	1413	A
34	BA	1419	G
34	BA	1430	C
34	BA	1431	C
34	BA	1432	G
34	BA	1435	G
34	BA	1439	C
34	BA	1440	C
34	BA	1442	G
34	BA	1443	G
34	BA	1446	A
34	BA	1447	G
34	BA	1449	C
34	BA	1450	U
34	BA	1451	A
34	BA	1454	G
34	BA	1455	G
34	BA	1459	C
34	BA	1461	G
34	BA	1462	G
34	BA	1463	C
34	BA	1464	G
34	BA	1465	C
34	BA	1467	G
34	BA	1469	G
34	BA	1481	U
34	BA	1484	C
34	BA	1487	G
34	BA	1489	G
34	BA	1491	G
34	BA	1492	A
34	BA	1494	G
34	BA	1495	U
34	BA	1496	C
34	BA	1500	A
34	BA	1502	A
34	BA	1503	A
34	BA	1504	G

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Mol	Chain	Res	Type
34	BA	1505	G
34	BA	1506	U
34	BA	1507	A
34	BA	1517	G
34	BA	1520	G
34	BA	1527	C
34	BA	1530	G
34	BA	1531	A
34	BA	1532	U
34	BA	1534	A
55	BC	3	C
55	BC	5	G
55	BC	6	G
55	BC	7	A
55	BC	15	G
55	BC	16	U
55	BC	17	C
55	BC	18	G
55	BC	19	G
55	BC	21	A
55	BC	27	G
55	BC	30	G
55	BC	33	U
55	BC	34	G
55	BC	35	A
55	BC	37	A
55	BC	39	U
55	BC	40	C
55	BC	41	C
55	BC	42	C
55	BC	47	U
55	BC	57	G
55	BC	58	A
55	BC	61	C
55	BC	70	G
55	BC	76	A
56	BD	2	C
56	BD	4	C
56	BD	5	G
56	BD	9	A
56	BD	16	U
56	BD	17	C

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Mol	Chain	Res	Type
56	BD	18	G
56	BD	19	G
56	BD	21	A
56	BD	23	A
56	BD	34	G
56	BD	42	C
56	BD	43	C
56	BD	46	G
56	BD	47	U
56	BD	48	C
56	BD	49	C
56	BD	52	G
56	BD	53	G
56	BD	55	U
56	BD	61	C
56	BD	64	A
56	BD	65	G
56	BD	67	C
56	BD	68	C
56	BD	70	G
56	BD	71	G
56	BD	72	C
56	BD	73	A
56	BD	74	C
56	BD	75	C
56	BE	2	C
56	BE	4	C
56	BE	6	G
56	BE	7	A
56	BE	9	A
56	BE	15	G
56	BE	16	U
56	BE	18	G
56	BE	19	G
56	BE	20	U
56	BE	21	A
56	BE	22	G
56	BE	42	C
56	BE	46	G
56	BE	47	U
56	BE	48	C
56	BE	52	G

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Mol	Chain	Res	Type
56	BE	61	C
56	BE	69	G
56	BE	71	G
56	BE	73	A
56	BE	74	C
56	BE	75	C

All (399) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	13	A
1	AA	60	G
1	AA	67	U
1	AA	70	G
1	AA	71	A
1	AA	83	G
1	AA	90	U
1	AA	119	A
1	AA	125	G
1	AA	196	A
1	AA	199	A
1	AA	204	A
1	AA	205	G
1	AA	215	G
1	AA	221	A
1	AA	227	A
1	AA	251	A
1	AA	270(B)	A
1	AA	270(L)	U
1	AA	270(M)	U
1	AA	270(Z)	U
1	AA	271(B)	G
1	AA	280	C
1	AA	283	A
1	AA	311	A
1	AA	323	G
1	AA	329	G
1	AA	331	A
1	AA	332	A
1	AA	351	G
1	AA	371	A
1	AA	403	U

Continued on next page...

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Mol	Chain	Res	Type
1	AA	442	G
1	AA	455	C
1	AA	470	A
1	AA	503	A
1	AA	504	U
1	AA	506	G
1	AA	508	G
1	AA	526	A
1	AA	530	G
1	AA	559	G
1	AA	573	G
1	AA	574	C
1	AA	587	C
1	AA	602	G
1	AA	616	A
1	AA	620	G
1	AA	637	A
1	AA	643	A
1	AA	645	C
1	AA	669	G
1	AA	670	A
1	AA	685	A
1	AA	686	G
1	AA	730	C
1	AA	740	U
1	AA	745	G
1	AA	746	A
1	AA	747	U
1	AA	750	A
1	AA	762	U
1	AA	773	U
1	AA	774	A
1	AA	776	G
1	AA	782	A
1	AA	783	A
1	AA	785	G
1	AA	788	A
1	AA	789	A
1	AA	800	A
1	AA	801	G
1	AA	811	U
1	AA	829	A

Continued on next page...

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Mol	Chain	Res	Type
1	AA	830	G
1	AA	846	C
1	AA	858	U
1	AA	884	C
1	AA	897	C
1	AA	930	U
1	AA	944	G
1	AA	945	A
1	AA	957	A
1	AA	958	U
1	AA	960	A
1	AA	961	C
1	AA	973	A
1	AA	974(A)	C
1	AA	989	G
1	AA	1008	C
1	AA	1011	G
1	AA	1022	G
1	AA	1024	G
1	AA	1038	C
1	AA	1047	G
1	AA	1062	G
1	AA	1069	A
1	AA	1085	A
1	AA	1100	C
1	AA	1126	A
1	AA	1130	U
1	AA	1131	G
1	AA	1154	G
1	AA	1178	C
1	AA	1179	C
1	AA	1183	G
1	AA	1204	A
1	AA	1210	A
1	AA	1212	G
1	AA	1221	C
1	AA	1237	A
1	AA	1241	A
1	AA	1247	A
1	AA	1248	G
1	AA	1250	G
1	AA	1253	A

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Mol	Chain	Res	Type
1	AA	1267	U
1	AA	1272	A
1	AA	1288	U
1	AA	1300	U
1	AA	1302	A
1	AA	1323	U
1	AA	1342	A
1	AA	1349	A
1	AA	1378	A
1	AA	1379	A
1	AA	1406	U
1	AA	1420	U
1	AA	1427	A
1	AA	1428	C
1	AA	1444(A)	A
1	AA	1477	A
1	AA	1489	U
1	AA	1515	C
1	AA	1554	A
1	AA	1558	A
1	AA	1566	A
1	AA	1568	G
1	AA	1572	A
1	AA	1585	C
1	AA	1603	A
1	AA	1608	A
1	AA	1610	A
1	AA	1625	C
1	AA	1626	G
1	AA	1634	A
1	AA	1647	G
1	AA	1650	G
1	AA	1693	U
1	AA	1694	C
1	AA	1698	A
1	AA	1699	G
1	AA	1727	U
1	AA	1758	G
1	AA	1778	U
1	AA	1780	A
1	AA	1784	A
1	AA	1791	A

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Mol	Chain	Res	Type
1	AA	1800	C
1	AA	1801	G
1	AA	1819	A
1	AA	1820	U
1	AA	1828	G
1	AA	1919	A
1	AA	1920	C
1	AA	1936	A
1	AA	1937	A
1	AA	1938	A
1	AA	1940	U
1	AA	1943	U
1	AA	1962	C
1	AA	1964	G
1	AA	1966	A
1	AA	1970	A
1	AA	1977	A
1	AA	1980	G
1	AA	1981	A
1	AA	1992	G
1	AA	1996	C
1	AA	2017	U
1	AA	2021	C
1	AA	2022	U
1	AA	2030	A
1	AA	2032	G
1	AA	2033	A
1	AA	2047	U
1	AA	2049	G
1	AA	2051	A
1	AA	2055	C
1	AA	2073	C
1	AA	2076	U
1	AA	2110	G
1	AA	2111	C
1	AA	2118	U
1	AA	2126	A
1	AA	2157	G
1	AA	2158	A
1	AA	2171	A
1	AA	2172	U
1	AA	2210	G

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Mol	Chain	Res	Type
1	AA	2213	U
1	AA	2225	A
1	AA	2240	C
1	AA	2275	C
1	AA	2282	G
1	AA	2319	G
1	AA	2324	C
1	AA	2345	G
1	AA	2350	C
1	AA	2384	G
1	AA	2392	A
1	AA	2416	C
1	AA	2422	A
1	AA	2427	C
1	AA	2428	G
1	AA	2436	G
1	AA	2439	A
1	AA	2447	G
1	AA	2490	G
1	AA	2491	U
1	AA	2497	A
1	AA	2500	U
1	AA	2501	C
1	AA	2503	A
1	AA	2517	C
1	AA	2519	U
1	AA	2542	A
1	AA	2571	C
1	AA	2572	A
1	AA	2602	A
1	AA	2609	U
1	AA	2610	C
1	AA	2613	U
1	AA	2615	U
1	AA	2637	U
1	AA	2652	C
1	AA	2688	U
1	AA	2689	U
1	AA	2690	C
1	AA	2705	A
1	AA	2707	G
1	AA	2726	U

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Mol	Chain	Res	Type
1	AA	2755	C
1	AA	2756	U
1	AA	2776	A
1	AA	2777	G
1	AA	2778	A
1	AA	2790	A
1	AA	2835	A
1	AA	2848	G
1	AA	2849	U
1	AA	2866	U
1	AA	2879	C
2	AB	7	G
2	AB	15	A
2	AB	56	G
34	BA	5	U
34	BA	8	A
34	BA	30	U
34	BA	31	G
34	BA	47	C
34	BA	51	A
34	BA	60	A
34	BA	65	U
34	BA	88	C
34	BA	99	C
34	BA	109	A
34	BA	115	G
34	BA	119	A
34	BA	129(A)	G
34	BA	181	G
34	BA	190	G
34	BA	208	U
34	BA	210	U
34	BA	243	A
34	BA	244	U
34	BA	246	A
34	BA	250	A
34	BA	251	G
34	BA	266	G
34	BA	274	A
34	BA	279	A
34	BA	280	C
34	BA	281	G

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Mol	Chain	Res	Type
34	BA	305	G
34	BA	308	C
34	BA	327	A
34	BA	328	C
34	BA	329	A
34	BA	344	A
34	BA	345	C
34	BA	351	G
34	BA	366	C
34	BA	367	U
34	BA	372	C
34	BA	413	G
34	BA	428	G
34	BA	429	U
34	BA	451	A
34	BA	484	G
34	BA	495	A
34	BA	496	A
34	BA	498	A
34	BA	508	C
34	BA	518	C
34	BA	531	U
34	BA	535	A
34	BA	547	A
34	BA	559	A
34	BA	560	U
34	BA	562	C
34	BA	563	A
34	BA	566	G
34	BA	576	G
34	BA	652	U
34	BA	686	U
34	BA	687	A
34	BA	701	C
34	BA	702	A
34	BA	703	G
34	BA	717	C
34	BA	721	G
34	BA	723	U
34	BA	748	C
34	BA	753	A
34	BA	781	A

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Mol	Chain	Res	Type
34	BA	792	A
34	BA	793	U
34	BA	812	C
34	BA	815	A
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	820	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	889	A
34	BA	890	G
34	BA	901	A
34	BA	913	A
34	BA	918	A
34	BA	960	U
34	BA	965	A
34	BA	968	A
34	BA	974	A
34	BA	975	A
34	BA	992	U
34	BA	993	G
34	BA	1004	A
34	BA	1049	U
34	BA	1055	A
34	BA	1065	U
34	BA	1067	A
34	BA	1084	G
34	BA	1085	U
34	BA	1101	A
34	BA	1129	C
34	BA	1145	C
34	BA	1157	A
34	BA	1182	G
34	BA	1183	A
34	BA	1196	U
34	BA	1212	U
34	BA	1214	C
34	BA	1224	G
34	BA	1226	C

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Mol	Chain	Res	Type
34	BA	1239	A
34	BA	1240	U
34	BA	1285	A
34	BA	1297	C
34	BA	1300	G
34	BA	1302	U
34	BA	1317	C
34	BA	1322	C
34	BA	1331	G
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G
34	BA	1363	A
34	BA	1364	U
34	BA	1377	A
34	BA	1394	A
34	BA	1399	C
34	BA	1400	C
34	BA	1442	G
34	BA	1443	G
34	BA	1446	A
34	BA	1468	A
34	BA	1494	G
34	BA	1504	G
34	BA	1506	U
34	BA	1528	U
34	BA	1529	G
34	BA	1531	A
56	BD	15	G
56	BD	74	C
56	BE	5	G

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

5 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
58	NMY	AA	3001	-	45,45,45	0.51	0	59,67,67	1.15	7 (11%)
59	8AN	AA	3002	1,56	18,24,25	1.13	1 (5%)	10,35,38	2.37	2 (20%)
59	8AN	AA	3003	1,56,22	18,24,25	1.13	1 (5%)	10,35,38	2.38	1 (10%)
58	NMY	BA	1601	-	45,45,45	0.50	0	59,67,67	1.03	6 (10%)
60	GCP	BZ	701	-	29,34,34	1.73	7 (24%)	32,54,54	1.72	4 (12%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
58	NMY	AA	3001	-	-	0/18/94/94	1/4/4/4
59	8AN	AA	3002	1,56	-	0/3/25/26	0/3/3/3
59	8AN	AA	3003	1,56,22	-	0/3/25/26	0/3/3/3
58	NMY	BA	1601	-	-	0/18/94/94	0/4/4/4
60	GCP	BZ	701	-	-	0/15/38/38	0/3/3/3

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
60	BZ	701	GCP	PG-O2G	-2.64	1.48	1.54
60	BZ	701	GCP	PB-O2B	2.13	1.61	1.56
60	BZ	701	GCP	PB-O3A	2.63	1.61	1.58
60	BZ	701	GCP	PG-O3G	2.66	1.61	1.54
59	AA	3002	8AN	C5-C4	3.07	1.47	1.40
59	AA	3003	8AN	C5-C4	3.13	1.47	1.40
60	BZ	701	GCP	C5-C4	3.14	1.47	1.40
60	BZ	701	GCP	C6-C5	3.59	1.48	1.41
60	BZ	701	GCP	PG-O1G	5.05	1.61	1.50

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	AA	3003	8AN	N3-C2-N1	-6.59	123.69	128.87
59	AA	3002	8AN	N3-C2-N1	-6.55	123.73	128.87
60	BZ	701	GCP	C5-C6-N1	-4.18	118.06	123.52
60	BZ	701	GCP	N3-C2-N1	-3.47	122.84	127.56
60	BZ	701	GCP	C6-C5-C4	-3.18	117.22	120.86
58	AA	3001	NMY	C13-O11-C11	-2.34	111.77	118.00
58	BA	1601	NMY	C13-O11-C11	-2.34	111.79	118.00
58	AA	3001	NMY	C1-O1-C10	-2.33	111.81	118.00
58	AA	3001	NMY	C18-O18-C15	-2.33	111.81	118.00
58	BA	1601	NMY	C18-O18-C15	-2.33	111.81	118.00
58	BA	1601	NMY	C1-O1-C10	-2.33	111.82	118.00
58	AA	3001	NMY	C3-C4-C5	2.02	113.83	110.23
59	AA	3002	8AN	C4'-O4'-C1'	2.04	111.80	109.64
58	BA	1601	NMY	O16-C13-C14	2.17	107.83	104.83
58	AA	3001	NMY	O16-C13-C14	2.18	107.84	104.83
58	BA	1601	NMY	O22-C22-C23	2.24	110.64	106.09
58	AA	3001	NMY	O22-C22-C23	2.24	110.65	106.09
58	AA	3001	NMY	C13-C14-C15	3.41	106.30	102.05
58	BA	1601	NMY	C13-C14-C15	3.42	106.31	102.05
60	BZ	701	GCP	C6-N1-C2	5.45	122.27	115.88

There are no chirality outliers.

There are no torsion outliers.

All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
58	AA	3001	NMY	C10-C11-C12-C7-C8-C9

5 monomers are involved in 158 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
58	AA	3001	NMY	25	0
59	AA	3002	8AN	45	0
59	AA	3003	8AN	35	0
58	BA	1601	NMY	15	0
60	BZ	701	GCP	38	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	AA	10
34	BA	3
3	AC	3
33	Ag	2
31	AI	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Ag	30:UNK	C	123:UNK	N	31.39
1	AA	164:U	O3'	171:G	P	7.68
1	AA	2893:G	O3'	2894:G	P	5.34
1	AA	2107:C	O3'	2108:C	P	4.97
1	AC	180:PHE	C	181:PRO	N	4.62
1	AA	1105:U	O3'	1106:G	P	4.46
1	AA	2181:G	O3'	2182:G	P	4.08
1	BA	1308:U	O3'	1309:G	P	3.99
1	Ag	153:UNK	C	154:UNK	N	3.23
1	AC	158:ALA	C	159:GLY	N	3.01
1	AC	66:HIS	C	67:GLY	N	2.81
1	AA	1073:A	O3'	1074:G	P	2.79
1	AA	1033:U	O3'	1034:G	P	2.34
1	BA	1167:A	O3'	1169:A	P	1.86
1	AA	2756:U	O3'	2757:A	P	1.77
1	AA	1203:G	O3'	1204:A	P	1.19
1	AI	153:LEU	C	154:GLY	N	1.11
1	BA	1317:C	O3'	1318:A	P	0.77
1	AA	1060:U	O3'	1061:U	P	0.64